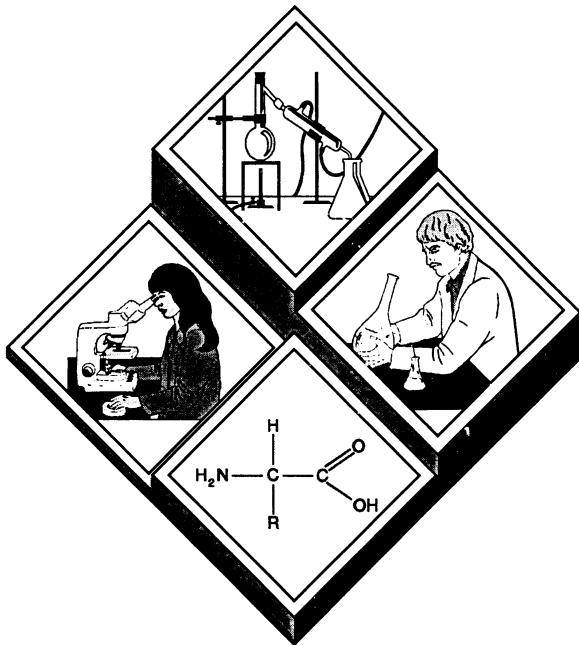




**US Army Corps
of Engineers®**
Walla Walla District

Fixed-Monitoring System Data Evaluation: Lower Snake River, Washington; Clearwater River, Idaho; and Columbia River, Oregon and Washington During Water Year 2003

Authors:
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Prepared for:
Northwestern Division Regional Office
U.S. Army Corps of Engineers

DECEMBER 2003

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ACKNOWLEDGEMENTS

The authors would like to acknowledge Mr. Greg Rupert, Mr. Andy Records, and Mr. Joe Bunt, our gage co-operators from the U.S. Geological Survey (USGS), for providing the quality data collection platforms (DCP) used to transmit data to the Regional Database. Thanks also go to Ms. Patsy Poe for her help here at the U.S. Army Corps of Engineers, Walla Walla District (CENWW) office with administrative support and Mr. Phil Fishella for technical field support. The efforts of Ms. Cora Edwards and the staff at Information Management, Technical Information Support (TIP), for the editing, assembly, and publishing of the manuscript are also greatly appreciated. And our very special thanks go to Ms. Julie Dockery, Ms. Yvonne Finley, and Ms. Charlene Duncan from the CENWW, Contracting Division.

ABSTRACT

The U.S. Army Corps of Engineers (USACE), Walla Walla District (CENWW), operated 16 fixed-monitoring stations (FMS) for total dissolved gas (TDG), dissolved oxygen (DO), and temperature as part of their 2003 water-quality program. These stations are located on the Columbia, Lower Snake, and Clearwater Rivers. This report provides the 2003 water-year data along with the corresponding quality assurance/quality control (QA/QC) documentation. The system operated within established data quality objectives (DQO) based on 285 independent QC checks. The hourly temperature and TDG data were 99 percent and 98.5 percent complete for the entire water year. All of the tailwater and free-flowing reach stations have been rebuilt with 8-inch high density polyethylene (HDPE) pipe and stainless-steel hardware, often to greater depths.

1.0 INTRODUCTION

Walla Walla District (CENWW) of the U.S. Army Corps of Engineers (USACE) operates six multi-purpose dams in the Columbia River, lower Snake River, and Clearwater River basins. The drainage area above these dams is approximately 214,000 square miles. These facilities provide flood control, navigation, irrigation, recreation, hydropower, fish and wildlife habitat, and municipal and industrial water supply.

Total dissolved gas (TDG) supersaturation results when air is entrained with plunging flows over the spillways during spring runoff and transported deep into the stilling basin where water pressure causes the air to dissolve. The river subsequently becomes shallow beyond the stilling basin, and the result is water supersaturated with TDG relative to atmospheric conditions. The U.S. Environmental Protection Agency (USEPA) has established an upper limit of 110 percent saturation for protection of freshwater aquatic life. Concentrations above this level can cause gas bubble trauma in fish and adversely affect other aquatic organisms [U.S. Environmental Protection Agency (USEPA), 1986]. The State of Washington water-quality standards [Washington State Department of Ecology (WADOE), 1997] provide exemptions to this criterion when water is spilled for fish passage. The Washington Administrative Code (WAC) 173-201A-070 states that the averages of the 12 highest daily TDG values during these periods can reach 115 percent in the forebays and 120 percent in the tailwaters. Additionally, the 1-hour maximum TDG average is 125 percent. Spillway deflectors have been installed on all dams in the area served by CENWW to reduce the plunging depths of spillway flows during normal water years. The CENWW collects real-time TDG data (available within about 4 hours of current time) upstream and downstream from its dams in a network of fixed-station monitors known as the Total Dissolved Gas Monitoring System (TDGMS).

Real-time TDG data are vital for dam operation and monitoring compliance within state and Federal guidelines and regulations. Water management personnel at the USACE, Northwestern Division (CENWD), maintain favorable water-quality conditions, facilitate fish passage, and improve survival in the Federal Hydropower System. The HDR Engineering (HDR), under contract DACW-00-D-001 with CENWW, provided scheduled maintenance to the various instruments at the 16 fixed-monitoring system (FMS) stations. The CENWW is responsible for operation and maintenance of the data collection system while progressively increasing levels of quality assurance/quality control (QA/QC).

Water year 2003 also included the refinement of tailwater FMS station design and the construction of improved facilities for:

- (DWQI) Clearwater River downstream from Dworshak Dam.
- (LEWI) Clearwater River near Lewiston Idaho.
- (LGNW) Snake River downstream from Lower Granite Dam.
- (LGSW) Snake River downstream from Little Goose Dam.
- (LMNW) Snake River downstream from Lower Monumental Dam.
- (PAQW) Columbia River above the confluence with the Snake River.
- (MCPW) Columbia River downstream from McNary Dam

2.0 BACKGROUND

Measurement of water-quality parameters [dissolved oxygen (DO), temperature, TDG, and, recently, depth of station] has evolved over the last 20-plus years. In the early 1980s, the TDG equipment used in monitoring consisted primarily of analog scaled voltage readings. The equipment averaged true accuracies of ± 5 millimeters of mercury (mm Hg for TDG), ± 0.7 degrees Celsius ($^{\circ}\text{C}$), and DO was accurate to ± 2 milligrams per liter (mg/L) most of the time. Maintenance was, at times, troublesome and costly. In many cases, the maintenance was done at 1- to 2-month cycles. A significant increase in reliability and accuracy required new instrumentation and a better QA program. In 1996, CENWD relinquished the task of data collection to the Districts. This reorganization proved successful, and a very close partnership has developed between CENWD Water Management, the Districts, and respective contractors such as the U.S. Geological Survey (USGS) and HDR Engineering. The USGS (Pasco Field Office) is tasked with providing rental data collection platforms (DCP) and accessories. The HDR provided bi-monthly service and quarterly QA/QC reports (appendices A through F).

Water managers use the data to maintain water quality conditions that facilitate fish passage and survival in the lower Columbia River. The official U.S. Government source for the TDG, DO, and water temperature data can be found on the CENWD, North Pacific Region (NP), Water Management Division, web site: <http://www.nwd-wc.usace.army.mil/>.

Many other government agencies and private organizations have links to our database or download portions of the database for their personal use. Data from all other sites are provisional and not considered to be complete or accurate. Some agencies use a direct link to the Water Management On-line report page, but the official data site still resides at the CENWD, North Pacific Region, Water Management Division, web site.

The CENWD-NP has published reports annually from 1985 to the present containing descriptions of the methods of data collection and discussions of key factors influencing management decisions. To provide a suitable data set for managing and modeling TDG in the CENWD-NP, real-time hourly data for water year 2003 were reviewed in relation to measurements made during instrument calibration and quality checks. Some of the data points were assigned QA failure codes because they were not of suitable quality and did not meet the CENWW data quality objectives (DQO). The CENWW staff for quality evaluates the reviewed hourly data (appendix J) Monday through Friday (except Federal holidays) (appendix G).

3.0 PURPOSE AND SCOPE

The purpose of gas monitoring is to provide managers, agencies, and interested parties with near real-time data for managing stream flows and TDG levels downstream from power-producing dams. As with any data collection activity, an important component that cannot be overlooked is the quality of the data. Measurement of data quality allows determination of the usefulness and relevance of data for current and future decision processes.

This 2003 report:

- Describes the data collection methods.
- Evaluates QA/QC data for the TDGMS that includes the McNary, Ice Harbor, Lower Monumental, Little Goose, and Lower Granite reservoirs. Additionally, this data-collection system provided water-quality information for the Clearwater River downstream of Dworshak Dam, the Columbia River near Pasco, and the Snake River near Anatone, Washington (table 1; figure 1).
 - The QA/QC data are divided into three categories:
 1. Comparative Data. These data allow CENWD-NP to compare CENWW data quality against their minimum DQO. The format and presentation of this comparative data allows cross comparison of data quality against similar data collected in other districts and agencies. This report also provides a beneficial means of sharing improvements between USACE districts and agencies. These data comprise several of the numerical and graphical representations found in the main body of this report.
 2. Instrument Data. These data are used to evaluate how an instrument performs based on the magnitude and direction that the individual sensors deviate over time from their respective laboratory standards. These relationships are measured for each sensor during the calibration procedures that usually occurred every 2 weeks.
 3. Station Data: These data present the comparison between an in-place instrument that was deployed at a given station for a 2-week cycle and a newly calibrated QA/QC instrument (field standard). The Honeywell® barometers at each station were evaluated using the Surveyor 4® that serves as a portable field standard for barometric pressure. In the summer (approximately 1 April to 15 September), 16 stations were visited for maintenance two times per month. Nine stations were maintained on the same bi-weekly schedule in the winter (approximately 16 September to 30 March).
 - Provides a synopsis of the station TDG, temperature, and barometric pressure data.

4.0 METHODS

4.1 Data Collection

The methods used to collect TDG, barometric pressure, and water temperature data are described in detail in Heaton *et al.*, 2001. The instrumentation at each FMS station consisted of a Hydrolab® water-quality probe; a Honeywell® PPT16 electronic barometer; a power supply; and a Sutron® Model 8210 DCP. A 12-volt battery charged by a solar panel and/or a 120-volt alternating-current line powered the barometer, probe, and DCP. The DCP transmitted the most recently logged data to the Geo-stationary Operational Environmental Satellite (GOES) system (Jones *et al.*, 1991) every 4 hours. The data were automatically decoded and transferred to the USACE Columbia River Operations Hydromet Management System (CROHMS) database. The TDG sensor measures the sum of the partial pressures of gaseous compounds dissolved in the water and reports the result in mm Hg. The TDG sensor requires a two-step calibration

procedure (*i.e.*, adjustments are made at two points on the calibration curve). The atmospheric pressure calibration point is referred to as Base TDG in this report and the pressurized calibration point corresponds to Pressurized TDG (Pres TDG). The base point is equal to the atmospheric pressure at the time of calibration as measured utilizing a wall-mounted mercury barometer or recently calibrated Surveyor 4® instrument. The Pres TDG point is equal to the barometric pressure plus a standard value that is chosen to include the full range of TDG values expected to be measured in the field by the sensor. In most cases, a standard of 200 and 300 mm Hg added to barometric pressure will create a slope capable of interpolating the full range of expected field values. One hundred and 200 mm Hg points are used during the winter months for a tighter calibration curve. The Heise™ certified pressure calibrator (primary standard) was used to apply pressure to the TDG sensor.

Each sonde also contains a sensor for reporting water temperature. The results are reported in degrees Celsius (°C). Sonde thermometers are factory calibrated. The contractor responsible for maintenance (HDR) did not make adjustments to the temperature sensor calibration. The HDR was only able to assess temperature sensor performance by comparing their readings to a National Institute for Standards and Traceability (NIST) mercury thermometer standard. A DO probe on the Hydrolab® measures the concentration of oxygen present in water. The sonde reports the DO results in percent of saturation and mg/L. This report only contains an evaluation of the DO data on a station basis.

Barometric pressure is used as a non-float zero point for calibrating the TDG and DO sensors. It is also an important value used in calculating the percent of TDG saturation. The HDR maintained performance records for the wall-mounted mercury barometer located at their office, the Surveyor 4® instrument used for fieldwork, and the Honeywell® barometers at each station. Calibration data was also maintained for the Surveyor 4® since it was the only barometric pressure-sensing device that was calibrated by HDR.

Calibration curves can change over time; hence, the need for calibration checks and adjustments. However, when the magnitude of the change was greater than the manufacturer's specified precision limit for a sensor, it could indicate a previous calibration error or a faulty sensor.

4.2 Instrument Performance Data

It is important to recognize the difference between calibration data and performance data. Performance data is collected each time a sensor is compared to its standard or when two instruments are compared at a given station. These values represent the measured difference between two readings and are keyed with the term Delta. Delta values reflect the positive and negative variation of sensor readings from their respective standard (*e.g.*, a negative value indicates that the sensor or instrument was reading below its respective standard).

4.3 Instrument Calibration Data

Calibration procedures only take place after recording the performance data described above. Calibration data reflects the actual adjustments that take place when a sensor is calibrated to correct for drift. These values are keyed with the term Adjustment because they represent an

actual adjustment to the calibration curve. A positive adjustment indicates that the sensor was reading below the standard (equivalent to a negative performance value) and required a positive adjustment. Adjustment and Delta values will always have opposite signs but should be the same number.

4.4 Calibration Reporting Procedures

4.4.1 Charting and Calculations

The volume of data collected for any specific instrument or station on a monthly basis is not sufficient to perform meaningful calculations. To increase the number of values (n) for each statistical analysis, all of the station data entered into the QA/QC database in a particular month were combined to evaluate “System-Wide Station Performance.” Likewise, all of the instrument data points entered into the QA/QC database in a particular month were combined to evaluate the “Inventory-Wide Sonde Performance.”

4.4.2 Inventory-wide Sonde Performance

Inventory-wide sonde performance control charts evaluate the performance data for the entire population of TDG sensors and thermometers. Delta values were calculated for each parameter by subtracting the appropriate standard from the observed pre-calibrated sensor reading collected during instrument calibration. Once the delta values were calculated, they were averaged on a monthly basis to calculate a monthly mean delta for each parameter. The standard deviation (SD) was also calculated for each parameter on a monthly basis. The following equations summarize the above description.

- Delta Base TDG = [Pre-Calibrated Base TDG] - [Atmospheric Pressure]
- Delta Pres TDG = [Pre-Calibrated Pres. TDG] - [Pressurized Standard]
- Delta Temperature = [Sonde Temperature] - [NBS Standard Temperature]
- Monthly Mean Delta = [Sum of Deltas for X] / (n)
where n = number of delta for parameter X values for parameter X from entire sonde inventory
- Standard Deviation =
$$SD = \sqrt{\frac{n\sum x^2 - (\sum x)^2}{n(n-1)}}$$

where x = Delta for any parameter

The monthly sonde performance control charts display the monthly mean delta values plotted for each parameter versus time (calibration date). Each chart represents one parameter and contains one data point per month. The y-error bars presented on the charts represent ± 1 standard deviation for the corresponding mean.

4.4.3 System-wide Station Performance

The performance QC of an FMS station is measured by comparing two instruments at a specific FMS station at the same time, then subtracting the QA/QC sonde (standard) readings from the

in-place instrument readings to calculate the delta values for TDG, DO, and temperature. The QA/QC sonde is considered the standard of the two instruments being compared since it was the one most recently calibrated in the lab. The Honeywell® barometers at each station were also evaluated by subtracting the Surveyor 4® readings (transfer standard) from the station barometer readings. Once the delta values were calculated, they were averaged on a monthly basis to calculate a monthly mean delta for each parameter. The standard deviation was also calculated for each parameter on a monthly basis. The following equations summarize the above description.

- Delta TDG = [In-place Sonde TDG] - [QA/QC Sonde TDG]
- Delta DO mg/L = [In-place DO mg/L] - [QA/QC DO mg/L]
- Delta Temp = [In-place Temperature] - [QA/QC Temperature]
- Delta BAR = [FMS Honeywell® BAR] - [Surveyor 4® BAR]
- Monthly Mean Delta = [Sum of Deltas for X] / (n)
where n = number of delta for parameter X values for parameter X from entire TDGMS
- Standard Deviation = $(SD) = \sqrt{\frac{n\sum x^2 - (\sum x)^2}{n(n-1)}}$
where x = Delta for any parameter

The system-wide FMS station performance control charts display the monthly mean deltas plotted for each parameter versus time (deployment date). Each graph represents one parameter and contains one data point per month. The y-error bars presented on the charts represent ± 1 standard deviation for the corresponding mean.

4.5 Defining and Using Outlying, Invalid, and Missing Data Values

An outlying data point is any parameter value that exceeds the DQO for that parameter. These values reflect correctible or inherent sources of error in the maintenance procedures, instruments, standards, or stations. All of the outlying data values are included in the QA/QC summary statistics.

The CENWW used the following DQOs:

- For sonde calibration delta values, the DQOs are delta TDG ± 2 mm Hg and delta Temp ± 0.10 °C.
- Station comparison DQOs are ± 4 mm Hg for delta TDG, ± 0.20 °C for delta Temp, and ± 0.50 mg/L for delta DO.
- The DQOs for the barometers were set at ± 2 mm Hg.

Not all data reported by the instruments are included in the QA/QC summary statistics. A class of data, designated as invalid data, includes data values associated with malfunctioning sensors or other inoperative conditions. The technician was responsible for identifying these occurrences, but they were not included in QA/QC summary statistic calculations.

In some cases, particular data points may not have been collected during instrument calibration or site visits. For example, stations that went off-line in the winter did not contain an in-place instrument at the beginning of the summer maintenance season; therefore, a comparison could not be performed during the initial site visit. Another instance occurred when a sensor failed prior to site visitation preventing a value for that parameter from being recorded.

4.6 Quality Assurance

Data collection for TDG, barometric pressure, water temperature, and DO included several QA procedures, such as the calibration of instruments in the field and in the laboratory, daily checks of the data, and data review and archival. The TDG sensors were calibrated in the laboratory after a field deployment period of 2 weeks. Subsequent QA checks followed several steps. First, the unit was tested with the membrane in place for response to increased pressure and supersaturated conditions. Second, the membrane was removed from the sensor and allowed to dry for at least 24 hours. Third, each dried membrane was examined independently before it was put into use again. Fourth, the TDG sensor was calibrated to the barometric pressure (100 percent saturation) and at added pressures of 100, 200, and 300 mm Hg (approximately 113 percent, 126 percent, and 139 percent saturation, respectively), using a Heise™ certified digital pressure calibrator (primary standard).

The accuracy of the TDG sensors was calculated by computing the difference between the expected reading and the Hydrolab® TDG sensor reading for each of the test conditions. The differences in barometric pressure, water temperature, and TDG between a secondary standard instrument and the fixed-station monitors after 2 weeks of field deployment were measured and recorded as part of the field inspection and calibration procedure. These differences, defined as the secondary standard value minus the field instrument value, were used to compare and quantify the precision between two independent instruments. For water temperature, DO, and TDG, the measurements were made *in situ* with the secondary standard (a recently calibrated Hydrolab®) positioned alongside the field Hydrolab® in the river.

The DO sensor received a fresh membrane and potassium chloride electrolyte recharge in the laboratory after each 2-week deployment and prior to recalibration. Each of the recharged DO sensors was allowed to soak for 24 hours in standard tap water to ensure the membrane and electrolyte equilibrated with the anode's electrical potential. The sensor was calibrated in 100-percent saturated water at $25^{\circ}\text{C} \pm 0.1$ in a room with stable barometric pressure. Random sonde units were selected from the pre-deployment instrument pool and evaluated for stability and accuracy by Winkler (Pomeroy modification) titration. Normal and supersaturated tap water were both used in this QA random check.

The ancillary parameters to the TDG and DO parameters received their own QA checks. Temperature sensors were checked against the NIST sensors in the laboratory prior to deployment. Sensors failing QA tests were not used and sent to the manufacturer for repair or rehabilitation. Calibration of the depth sensor consisted of zeroing at ambient barometric pressure and checks at 1 and 2 feet.

5.0 RESULTS AND DISCUSSION

5.1 Inventory-wide Sonde QA/QC Performance

A total of 285 records were included in the inventory-wide summary statistics (HDR, 2003). The results of the analyses completed on the TDG sensor performance data indicated the following:

- The TDG
 - The population of TDG sensors continued to meet the DQO of 2.0 mm Hg (table 2; figures 2 and 3). The calculated quarterly means for Delta Base TDG ranged from -0.51 mm to 0.23 mm, providing an annual average of -0.11 mm Hg. The analogous base standard deviations ranged from quarterly values of 0.94 to 2.52 for a cumulative mean of 1.51. This means that, on average, the difference between a Base TDG sensor reading and the standard (BAR) during calibration was <0.1 mm Hg for all of the TDG calibrations performed during this reporting period. Both the Base and Pres TDG monthly mean values are well within the acceptable error for the sensors.
 - Twenty-three of the sondes were rated at $<\pm 2.0$ mm Hg 100 percent of the time, sonde number 21 met the criterion 91 percent of the time, and two sensors were rated at 82 percent (table 3; appendix A).
- Temperature
 - The temperature sensor data indicated that the mean delta temperature was -0.1 °C with a standard deviation of 0.1 °C (table 2; figure 4).
 - Twenty-three of the sondes performed within the 0.2 °C criterion 100 percent of the time (table 3). Sonde number 13 had the lowest rating of 75 percent, but this percentage is misleading since there were only four total observations.

The data confirms that there was a 95-percent confidence interval that any instrument in the inventory could be deployed at a station for two weeks and, when checked, would vary from the standard by approximately -0.1 ± 3.0 (2 SD) mm Hg for Base TDG and Pres TDG, and -0.1 ± 0.2 °C (2 SD) for temperature. The population of TDG and temperature sensors performed within their respective DQOs during the past year; TDG $\leq \pm 2.0$ mm Hg and temperature $\leq \pm 0.2$ °C. The recorded precision levels for the TDG sensors and thermistors were also within the accuracy specifications set by the manufacturers.

5.2 System-wide Station QA/QC Performance

A total of 285 records were included in the system-wide summary statistics (HDR, 2003). The data (appendix B), performance charts (figures 5 through 8), and summary statistics (tables 4 and 5) showed the following:

- The TDG
 - The quarterly mean delta for Base TDG ranged from -1.59 mm to 0.85 mm, providing a calculated annual average of -0.02 mm Hg. The corresponding quarterly standard deviations ranged from 2.30 to 3.67 mm, giving an annual mean of 3.26 mm Hg. The yearly average of 0.0 ± 6.5 (2 SD) mm Hg met the DQO of $\leq \pm 4$ mm Hg TDG for station comparisons
- Temperature
 - The mean delta value for temperature was calculated as 0.0°C with a standard deviation of 0.1°C . The highest quarterly mean delta temperature occurred during the fourth quarter at 0.01°C with an accompanying standard deviation of 0.13. The yearly average of 0.0 ± 0.2 (2 SD) met the DQO of $\leq \pm 0.2^{\circ}\text{C}$ for station temperature comparisons. Three out of the 285 temperature records exceeded the 0.2°C criterion.
- Barometric Pressure
 - The station barometers, as well as those on the Surveyor 4s®, should be calibrated once a year. The yearly average for barometric pressure was 1.2 ± 4.3 (2 SD) mm Hg.
- Dissolved Oxygen
 - The quarterly mean delta values for DO ranged from -0.34 mg/L to -0.24 mg/L with standard deviations spanning 0.62 to 0.98 mg/L. The yearly averages were -0.29 ± 1.46 (2 SD). Ninety-one of the 285 DO delta values exceeded the DQO for DO of ± 0.50 mg/L. The elevated DO readings at the forebay stations may have been the result of algal growth in the deployment pipes. Similarly, the tailwater stations had a tendency to collect sediment and algae before the latest rebuild.

5.3 The FMS Data Completeness and Station Statistics

The total amount of hourly data that were collected during the entire year, as well as during the fish-spill season, are shown in table 6. More data were collected at all of the seasonal stations than scheduled because the monitors were set up early to ensure correct operation.

5.3.1 Temperature

Almost 98 percent of the possible hourly temperature data were recorded and passed QA/QC. The percentages for the combined annual and seasonal stations were essentially the same (table 7). The stations with the lowest percent completeness were those at Lewiston (92.7 percent) and downstream from Ice Harbor Dam (95.5 percent). Damage to the pipes, and consequently the transmission cables, was the primary reason. The data sets from the two

stations at Little Goose Dam, as well as the ones at Anatone and Peck were ≥ 99.0 percent complete.

Since the intervals of data collection differed at various stations, the April through August time period was utilized to make consistent comparisons. Several noteworthy features were identified as a result of this process, including:

- None of the hourly temperature readings exceeded 20 °C at the Dworshak, Peck, and Lewiston stations (table 7).
- Seventy-five percent of the values recorded at the Dworshak station were between 5 °C and 8 °C (table 8; figure 9). Downstream mixing with the mainstem of the Clearwater River and warming broadened the frequency distributions at Peck and Lewiston where secondary maxima were observed between 10 °C and 12 °C.
- The stations at Anatone and Lower Granite forebay had the highest percentage of values >20 °C; 38 percent and 36 percent, respectively (tables 8 and 9; figures 9 and 10). Conversely, the two Snake River stations with the lowest frequency were those below Lower Granite and Little Goose Dams.
- The FMS stations at the four lower Snake River projects had temperature distributions that appeared bimodal with peaks at approximately 10 °C and 19-22 °C (figures 10 and 11). There was also a distinct downstream trend in the number of values >20 °C when the differences between forebay and tailwater temperatures were considered; 32.2 percent at Lower Granite Dam, 14.0 percent at Little Goose Dam, 1.9 percent at Lower Monumental Dam, and 1.4 percent at Ice Harbor Dam (table 7). The reason for the progression is that the cooling effects of water released from Dworshak Reservoir are more noticeable at the upstream projects.
- Almost 3 percent more of the data points at the Oregon side of McNary Dam were greater than 20 °C relative to the information from the sonde located on the Washington side (tables 7 and 8; figure 12).
- The McNary Dam tailwater station averaged 2.7 percent fewer measurements >20 °C than the mean of the two FMS stations in the forebay.

5.3.2 The TDG

The quantity of gas in solution is a function of several factors, and one of these is temperature. Graphs of the hourly temperature and TDG data from each FMS station are presented in figures 13 through 19. Data from the forebay stations portray the effects of Charles Law to a greater extent, particularly during the summer. Notable examples are 29 June and 15 August at Lower Granite, Little Goose, and Lower Monumental Dams (figures 15, 16, and 17). Temperature and TDG data displayed greater diurnal variability at Ice Harbor Dam (figure 18), but examples of spikes in both parameters were evident on 27 June, 22 July, 18 August, and 5 September.

The TDG data from all of the stations combined were approximately 98-percent complete (table 10). The differences between the annual and seasonal data set were minor, and the station at Lewiston was the only one that was <95 -percent complete as a result of pipe failure.

The fish-spill seasons differed among the dams, and there were also differences with respect to the number of data points that were above established thresholds. The number of instances when the average of the 12 highest daily values was greater than 115 percent at forebay stations ranged from zero at Lower Granite Dam to almost 46 percent at Ice Harbor Dam (table 10). There was also a surprising difference between the two stations at McNary Dam where the occurrence was 5.3 percent on the Oregon side and 17.2 percent on the Washington side of the river. The four lower Snake River and one Columbia River tailwater stations had a combined mean of 10 percent exceeding the 120 percent threshold (based on the 12 highest values in a day). Ice Harbor Dam tailwater had the lowest frequency of 2.6 percent, while McNary Dam had the highest at 15.2 percent (table 10).

There were both similarities and differences between the frequency distribution of the TDG data from each station. As with the temperature data, the spill seasons differed by project, and the following comparisons are based on April through August information for consistency:

- Less than 1 percent of the data from the Dworshak and Peck stations were >110 percent while none of the data points at Lewiston were greater than this threshold (table 10). However, the frequency distributions at each of these locations were different (figure 20; tables 11 and 12). The Dworshak data exhibited two peaks, one at 108-109 percent (18.6 percent of the data) and a second at 99-100 percent (13.0 percent of the data) saturation. The maxima downstream at Peck and Lewiston were progressively shifted to the left to between 103-104 percent and 101-102 percent, respectively. The Anatone station was similar to the one at Lewiston with respect to TDG, with 69 percent of the data occurring between 100-percent and 104-percent saturation.
- Several of the lower Snake River stations revealed bimodal distributions (figure 21). The first maxima at seven of the stations typically occurred between 100-103-percent saturation. The one exception was Lower Granite forebay where a peak was noted at 103-104 percent and 68 percent of the data was between 101 percent and 106 percent. However, a secondary maximum was not present at that station. The tailwater stations at Lower Granite and Lower Monumental Dams both had secondary maxima between 117 percent and 119 percent, although a higher percentage of the data occurred in this interval at Lower Monumental Dam (23 percent) compared to Lower Granite Dam (11 percent) (tables 11 and 12). Forty-two percent of the data at the Ice Harbor tailwater station was between 112-115 percent. Thirty-three and 32 percent of the data from the respective Lower Monumental and Ice Harbor Dam forebay stations were between 111 percent and 116 percent.
- The McNary Dam tailwater station also displayed two peaks with 31 percent of the data between 105 percent and 109 percent saturation and 18 percent between 119-120 percent (figure 22). The forebay station data were almost normally distributed with 56 percent of the information from the Oregon side occurring between 106 and 113 percent while the analogous percent on the Washington side was 60 percent.

Because TDG at the stations downstream from dams is strongly influenced by spill, plots of these two parameters were developed for each of the six tailwater stations.

- The quantity of spill from Dworshak Dam was less than at the other projects, seldom exceeding 7 thousand cubic feet per second (kcfs) during 2003 (figure 23). Spill occurred during two intervals, one extending from the beginning of April to mid-May, and the second from the early part of July and through the beginning of August. The relationship between the two parameters was almost linear.
- Spill at Lower Granite Dam began in early April and ended on 20 June (figure 24). The relationship between spill and TDG was non-linear with TDG exceeding 120 percent when spill was greater than about 50 kcfs.
- The spill season at Little Goose Dam was the same as it was for Lower Granite Dam (figure 25). The majority of the measured TDG values were <120 percent and, in most cases, remained below that threshold if the spill was <50 kcfs.
- The spill season at Lower Monumental Dam followed the one at the two upstream facilities. One notable characteristic of the spill versus TDG plot for this project (figure 26) is that for a given quantity of spill the resulting TDG was higher at Lower Monumental Dam than at Little Goose Dam. Relative to Lower Granite Dam, more TDG was produced at Lower Monumental Dam up to about 60 kcfs after which they were very similar.
- The spill season at Ice Harbor Dam was longer than at any of the other projects (table 6 and figure 27). The plot of spill versus TDG was also considerably different than at the three other lower Snake River projects. The quantity of TDG produced at Lower Monumental Dam at a given volume of spill still surpassed the amount produced at Ice Harbor. However, when the Ice Harbor spill versus TDG relationship is compared to those at Little Goose and Lower Granite Dams there are both similarities and differences. Up to about 30 kcfs, there is a considerable amount of scatter in all of the plots, but the data tracks generally overlap. Beyond about 30 kcfs, the amount of TDG produced at Lower Granite and Little Goose continues to increase at a faster rate than at Ice Harbor. This trend continues up to about 90 kcfs when an inflection point occurs in the data graph for the Ice Harbor project.
- The spill season at McNary Dam extended from mid-April through 30 June and displayed considerable variability during the first half of that period (figure 28). However, the relationship between spill and TDG was fairly tight, and TDG levels remained below 120 percent up through spill volumes of about 140 kcfs.

5.3.3 Barometric Pressure

The barometer at the Lower Monumental tailwater station showed more variability than the ones at the other projects. The tailwater station at a given project should record a barometric pressure that is consistently higher than the one in the forebay due to the proximity of the two units and the relatively constant elevation difference. The tailwater to forebay differences were calculated for the four lower Snake River stations and the one at McNary (table 13; figures 29 and 30). These illustrations demonstrate that the sensors at Lower Granite, Little Goose, Ice Harbor, and McNary Dams all had small and consistent disparities during 2003. Average differences for Lower Granite, Little Goose and Ice Harbor Dams ranged from 2.6 mm Hg to 4.0 mm Hg with associated standard deviations of 0.2 and 0.4. The Lower Monumental project had an average difference of -1.8 mm Hg for the entire season, but hourly values ranged from -23.6 to 9.9 mm Hg with a resulting standard deviation of 5.9. There was also a sharp discontinuity on 20 June

that shifted the mean from -6.2 mm Hg to 2.2 mm Hg, thereby reducing the standard deviation from 4.9 to 3.3 that is still greater than at the other projects.

5.4 Impact of Speed-No-Load Operation on TDG

The TDG concentrations were >120 percent on two occasions during August in the absence of spill. These events occurred when turbine unit number five was operated at speed-no-load for transformer rehabilitation. This procedure involves running the unit between one and two megawatts (MW)—the “station service” load—utilizing about 5 kcfs. It was necessary to run in this configuration because Lower Granite Dam has only one high voltage line to the plant. When the disconnects to both transformer banks are open, the project can no longer back-feed off the line, so the project had to generate enough electricity to run the lights, pumps, heating, ventilation, air conditioning, *etc.* The project has two main transformer banks (T-1 and T-2) and also two station service transformers. As such, when the overhaul crew switched from one bank to another, there was a time period where the plant had to generate a minimum amount of electricity. Since the units are rated at about 155 MW and station service is less than 2 MW, the units were operated outside their normal range for a brief period of time. While operating in this range, they tend to entrap air and drive up downstream TDG.

5.5 Station Upgrades

The program for rebuilding the tailwater and run-of-river stations that began in 2002 was advanced in 2003 (table 14). The deployment systems at Anatone, Peck, Lower Granite tailwater, Little Goose tailwater, Lower Monumental tailwater, and Ice Harbor tailwater were rebuilt in 2002 using 8-inch high density polyethylene (HDPE) pipe and 3/8-inch stainless steel cable (appendices H and I). This design allows more water to flow around the sondes and they appear to equilibrate faster. Furthermore, the lack of end caps on the pipe facilitates self-cleaning and less debris build-up between the guard and sensors. The rebuild program continued in 2003 at the Dworshak, Lewiston, Pasco, and McNary tailwater stations. However, the stations at Lewiston, Lower Granite tailwater, and Lower Monumental tailwater did not perform as well as expected during high-flow conditions in 2003 due to fraying of the cables on the steel anchors and rocks. Consequently, the anchoring systems at Dworshak, Lewiston, Lower Granite tailwater, Little Goose tailwater, Lower Monumental tailwater, and Pasco were upgraded in September 2003 with 1/2-inch stainless steel chain and cable.

The overhead data cable at the Anatone station was replaced in February. The previous cable was damaged, possibly as a result of the suspension method, to the extent that periodic transmission interruptions were experienced. The new armor-enclosed cable worked well throughout the 2003 monitoring season.

5.6 Proposed Changes for the 2004 Water Year

The six forebay stations were originally scheduled for overhaul in water year 2004. However, the representativeness of the current locations is currently being evaluated as part of Reasonable Prudent Action (RPA) 132. A report of the study findings is due at the beginning of the 2004 water year. The District will then weigh the benefits and consequences of the report's

conclusions and decide whether the stations will be rebuilt at their current locations or moved at a later date.

The CENWW procured a new set of instrumentation using tighter specifications to fulfill the CENWD redundant monitoring requirement. This procurement provided for replacement barometer units to include real-time pressure compensation to the depth and TDG sensors. The new sonde procurement includes both redundant instruments and replacements for some of the Hydrolab® sondes that have reached the end of their TDGMS service life. Some of the Hydrolab® instruments will continue to be used in water year 2004. The CENWW plans to procure a set number of program replacements for protection against block obsolescence and large cyclic replacements requiring capitalization.

The CENWW plans to use the TDGMS telemetry backbone architecture to collect temperature data in the forebay of all its operating Snake, Clearwater, and Columbia River dams. The CENWW will send the CENWD Water Management Office a revised Quality Assurance Project Plan that will incorporate the new equipment manufacturer's calibration procedures.

6.0 SUMMARY

Hourly TDG, temperature, dissolved oxygen, and barometric data recorded during the 2003 water year at 16 FMS stations were evaluated. Nine of these stations located within CENWW were operated throughout the year, and the remaining seven were monitored from approximately the beginning of April through mid-September.

The HDR, Inc., was the contractor responsible for routine station maintenance. Their findings showed that the 285 independent QC checks they completed on the sondes confirmed that the TDG and temperature sensors operated within established DQOs ≥ 95 percent of the time. They also determined that the yearly system-wide station performance averages for TDG, temperature, and barometric pressure were 0.0 ± 6.5 (2 SD) mm Hg, 0.0 ± 6.5 (2 SD), -0.29 ± 1.46 (2 SD), and 1.2 ± 4.3 (2SD), respectively.

The hourly temperature and TDG data from all of the stations were 99-percent and 98.5-percent complete, respectively, for the entire water year. None of the temperature data from the Clearwater River surpassed 20 °C. However, 3.8 percent to 37.9 percent of the April-August values recorded at the Snake River and Columbia River stations were above this threshold, with the lowest percentages occurring downstream from Lower Granite and Little Goose Dams. The 12-hour, 115 percent maximum daily average was not surpassed at Lower Granite Dam during the fish-spill season, but was exceeded 46 percent of the time at the Ice Harbor forebay station. Similarly, the 120 percent criterion was not exceeded at the Pasco station, and the station with the maximum occurrence above this threshold was the one downstream from McNary Dam at 15.2 percent. One of the turbines at Lower Granite Dam was operated at speed-no-load on two occasions during August that resulted in some hourly TDG values that exceeded 130 percent.

All of the tailwater and free-flowing reach stations have now been rebuilt with 8-inch HDPE pipe and stainless-steel hardware, often to greater depths. Three stations (*i.e.*, Lewiston, Lower Granite tailwater, and Lower Monumental tailwater) experienced problems with their

anchoring system. Consequently, these Stations along with the ones at Dworshak, Little Goose tailwater, and Pasco were retrofitted with heavier stainless steel cables and chain to mitigate fraying.

7.0 REFERENCES

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FIGURES

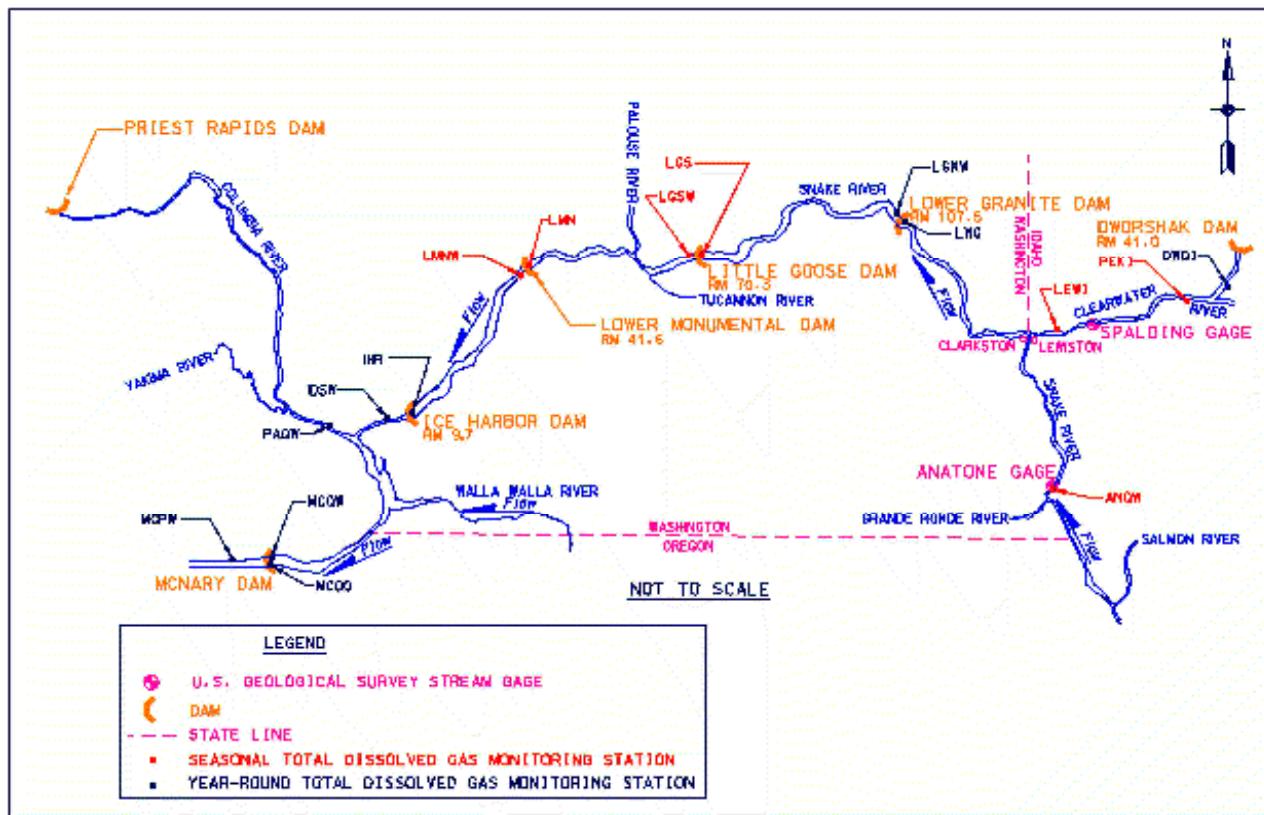


Figure 1. Map showing the locations of Walla Walla District's Fixed-Monitoring System (FMS) Stations.

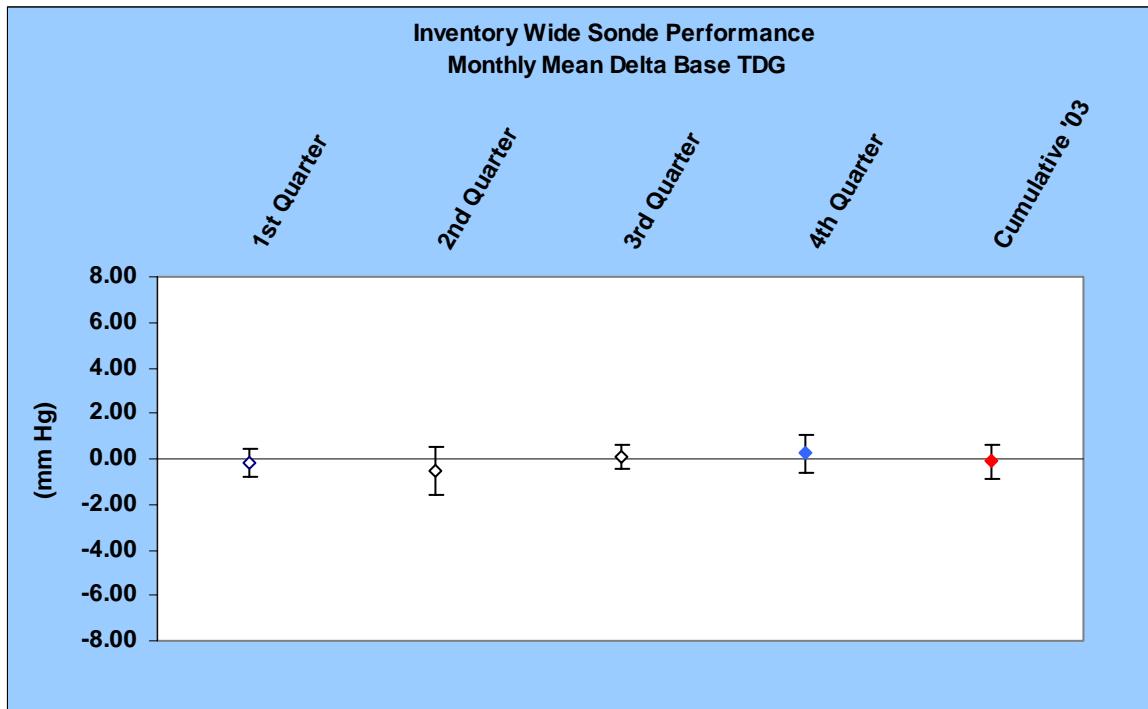


Figure 2. Quarterly and cumulative adjustments of Total Dissolved Gas (TDG) offset points for the total sonde inventory during the 2003 water year.

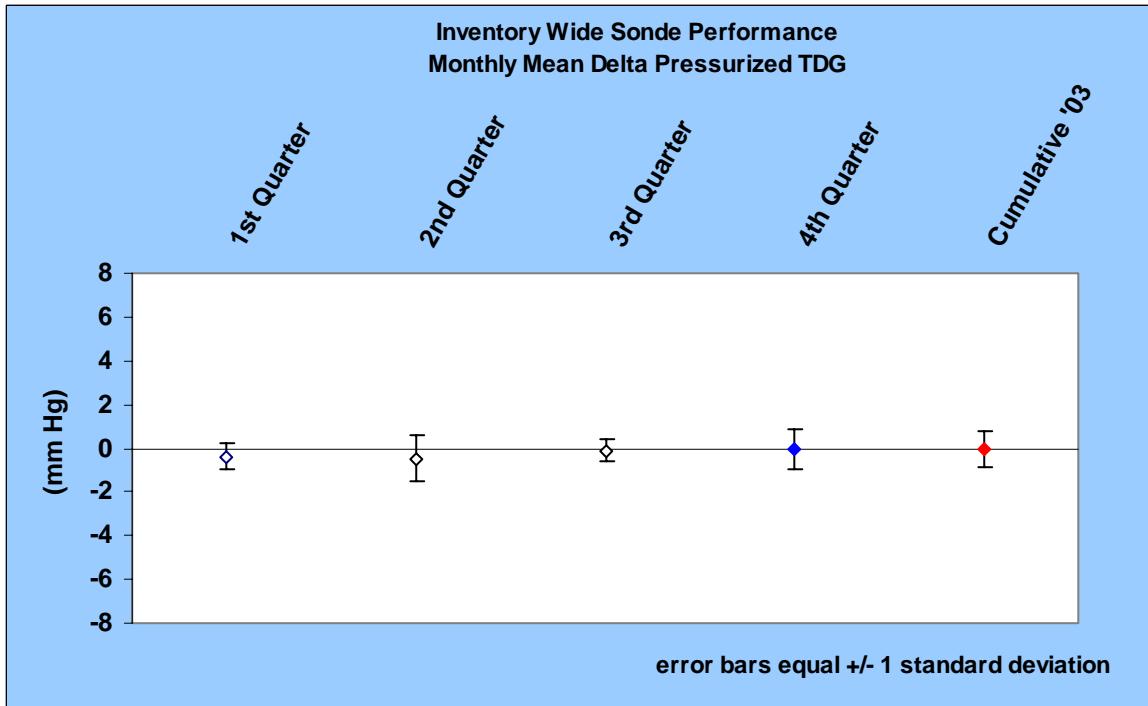


Figure 3. Quarterly and cumulative adjustments of TDG slope points for the total sonde inventory during the 2003 water year.

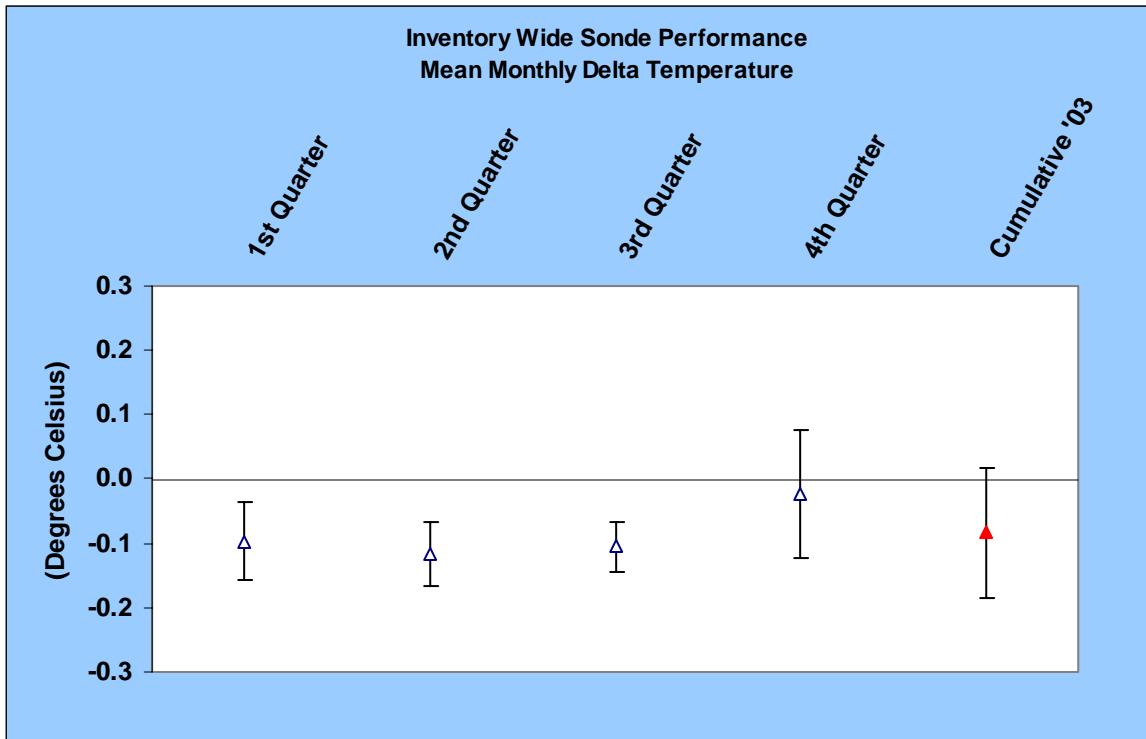


Figure 4. Quarterly and cumulative analysis of variance of the temperature quality control charts from the total sonde inventory during the 2003 water year.

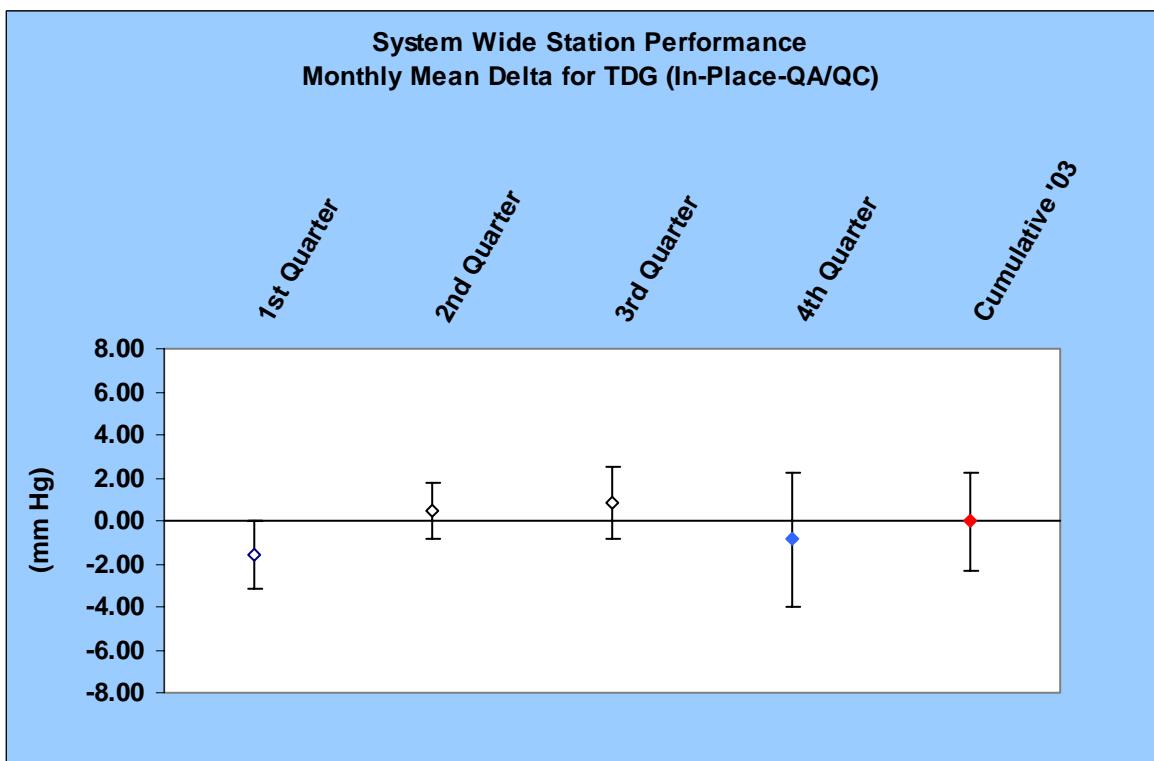


Figure 5. Quarterly and cumulative summary of delta TDG for the FMS stations monitored during the 2003 water year.

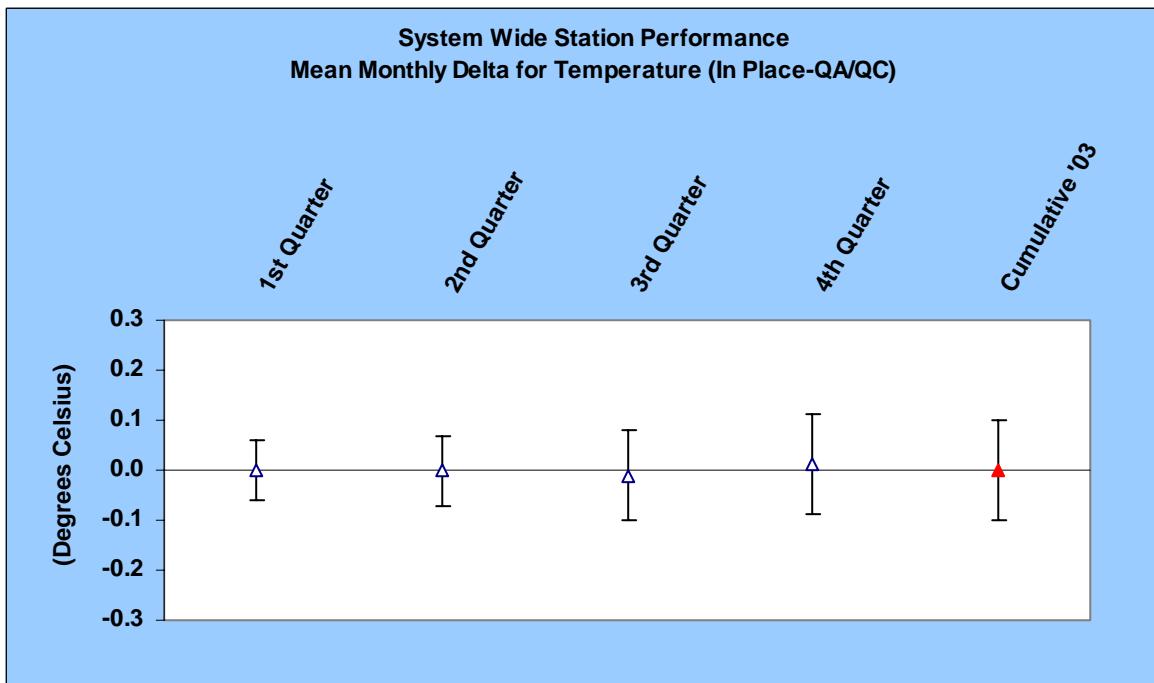


Figure 6. Quarterly and cumulative summary of delta temperature for the FMS stations monitored during the 2003 water year.

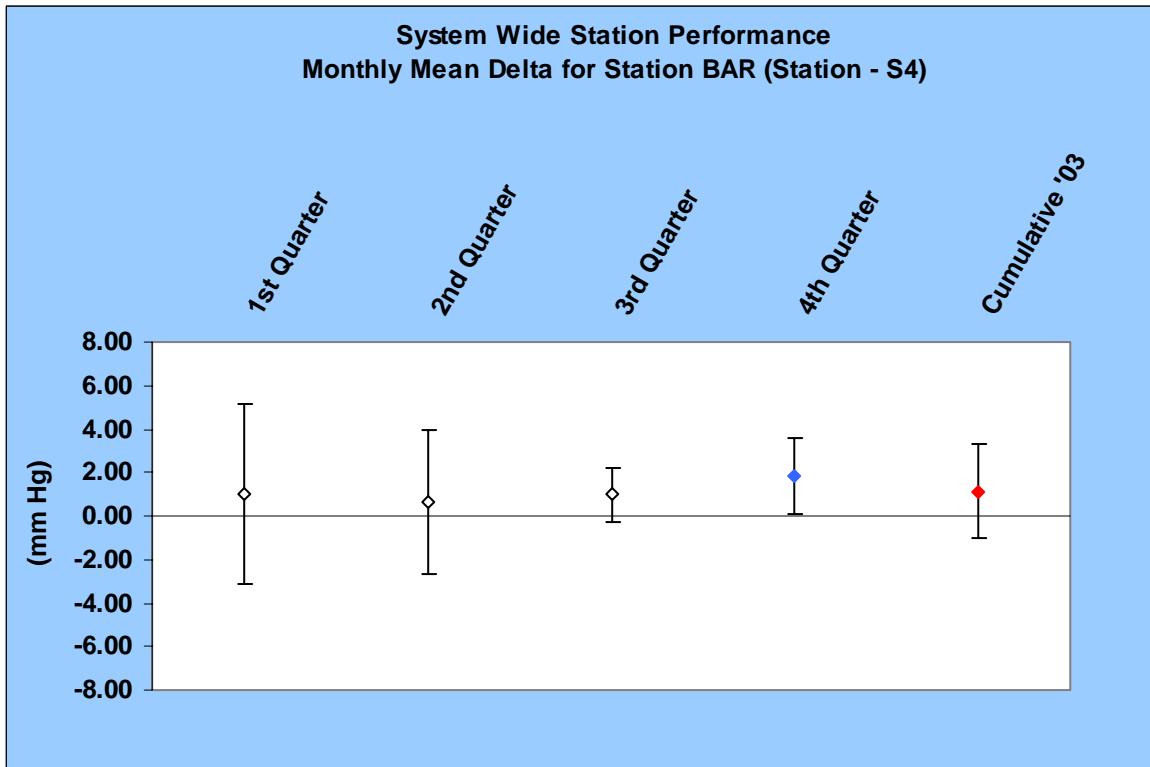


Figure 7. Quarterly and cumulative summary of delta station BAR for the FMS stations monitored during the 2003 water year.

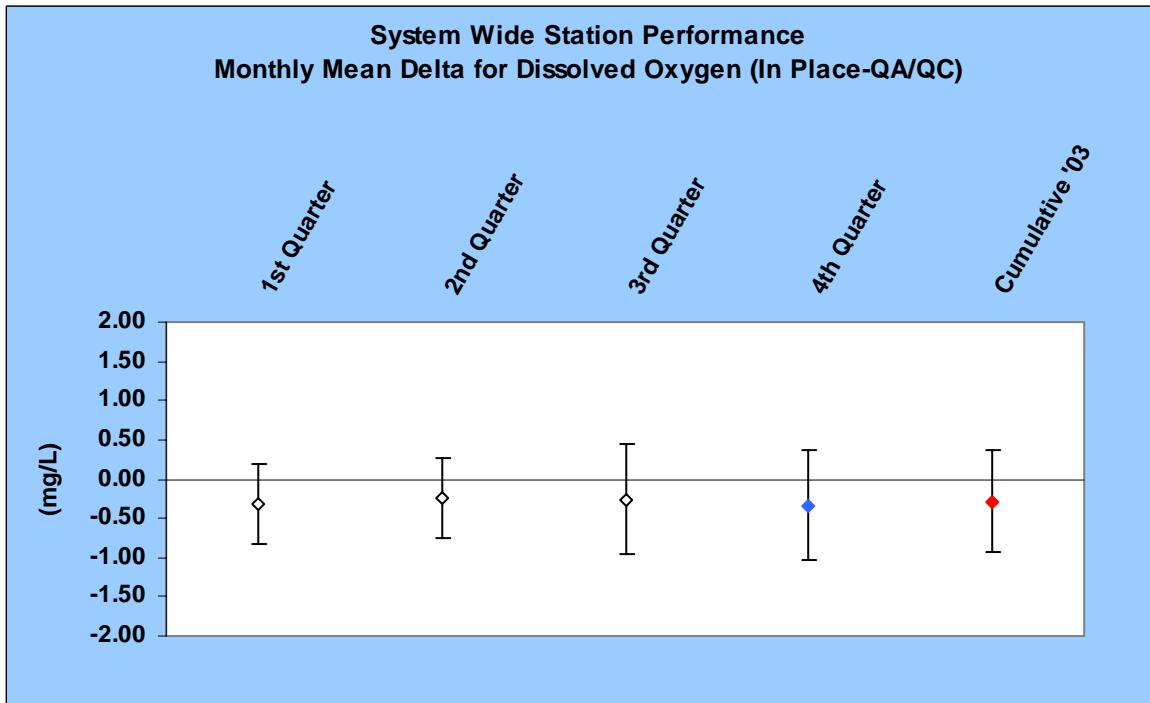


Figure 8. Quarterly and cumulative summary of delta Dissolved Oxygen (DO) for the FMS stations monitored during the 2003 water year.

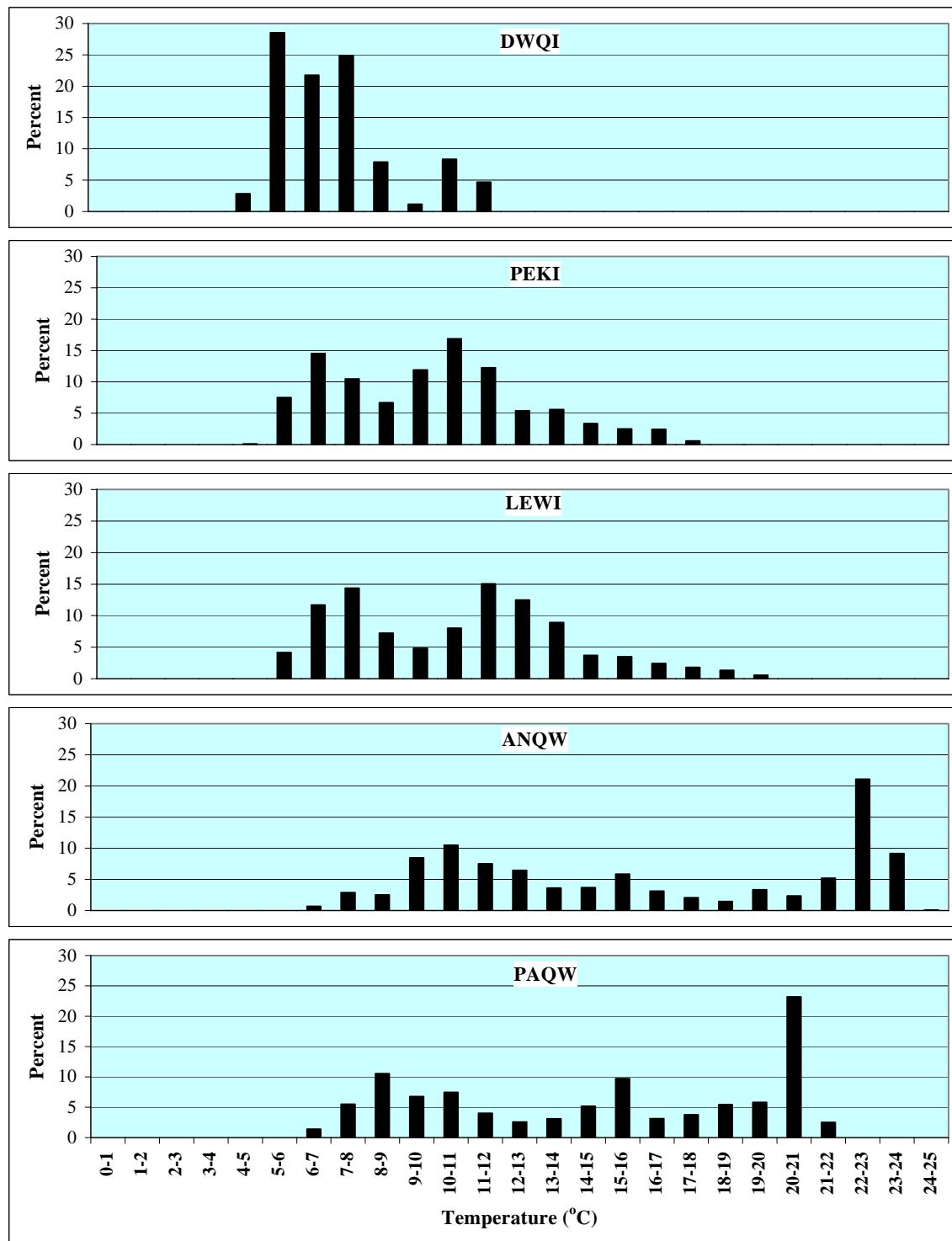


Figure 9. Frequency distributions for the 2003 April-August hourly temperature data recorded at the Dworshak Dam, Peck, Lewiston, Anatone, and Pasco FMS stations.

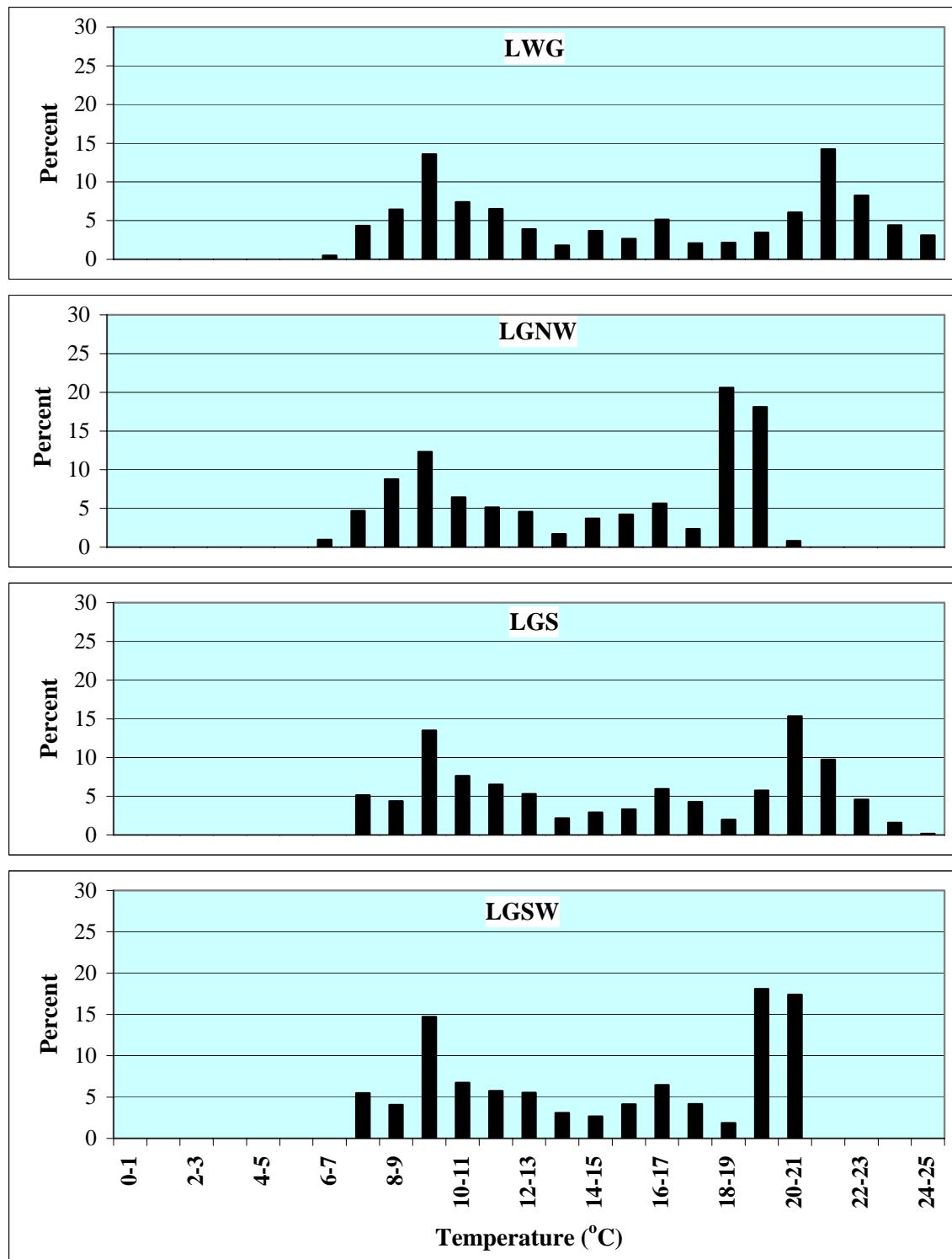


Figure 10. Frequency distribution for the 2003 April-August hourly temperature data recorded at the Lower Granite Dam and Little Goose Dam FMS stations.

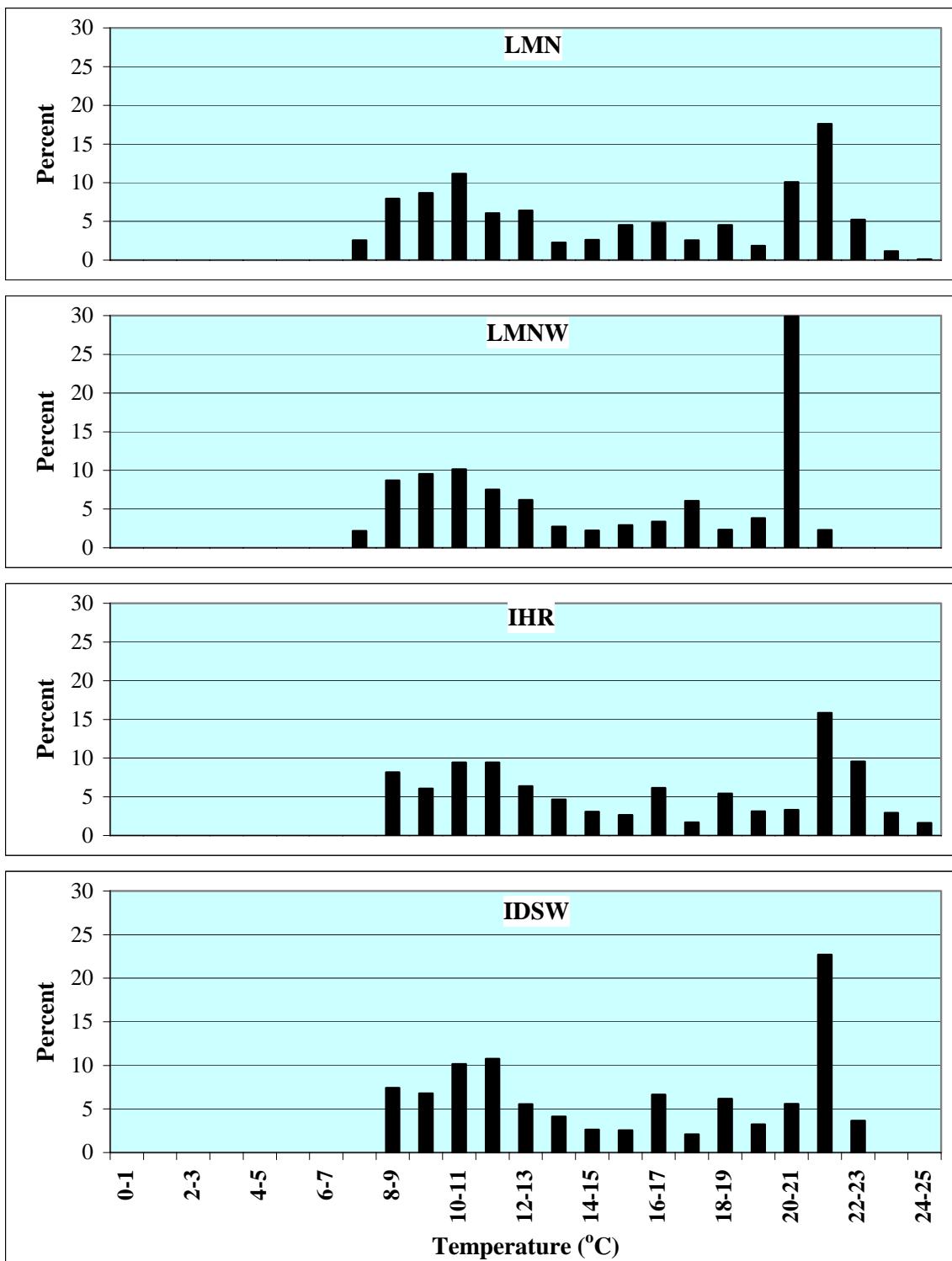


Figure 11. Frequency distribution for the 2003 April-August hourly temperature data recorded at the Lower Monumental Dam and Ice Harbor Dam FMS stations.

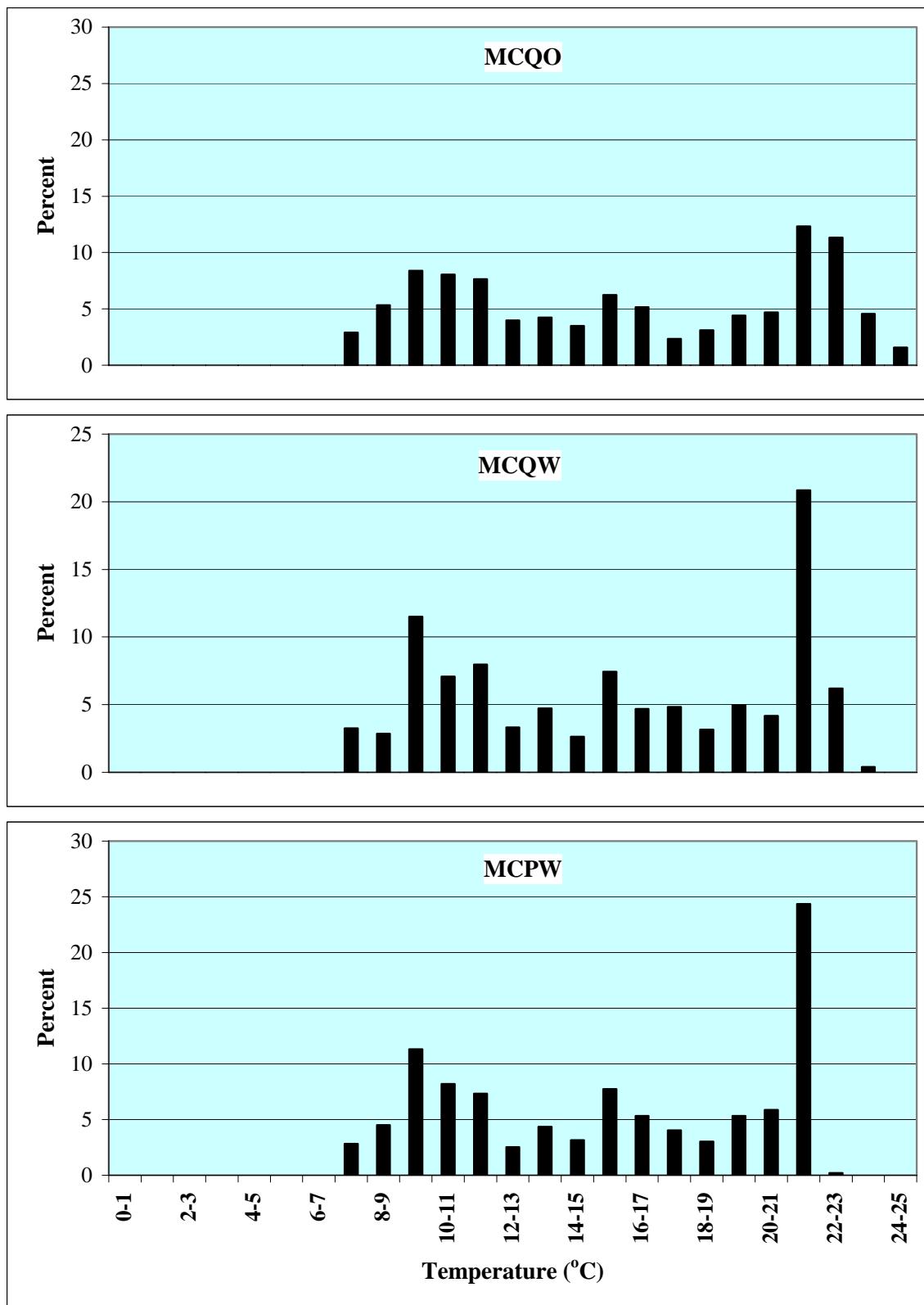


Figure 12. Frequency distributions for the 2003 April-August hourly temperature data recorded at the McNary Dam FMS stations.

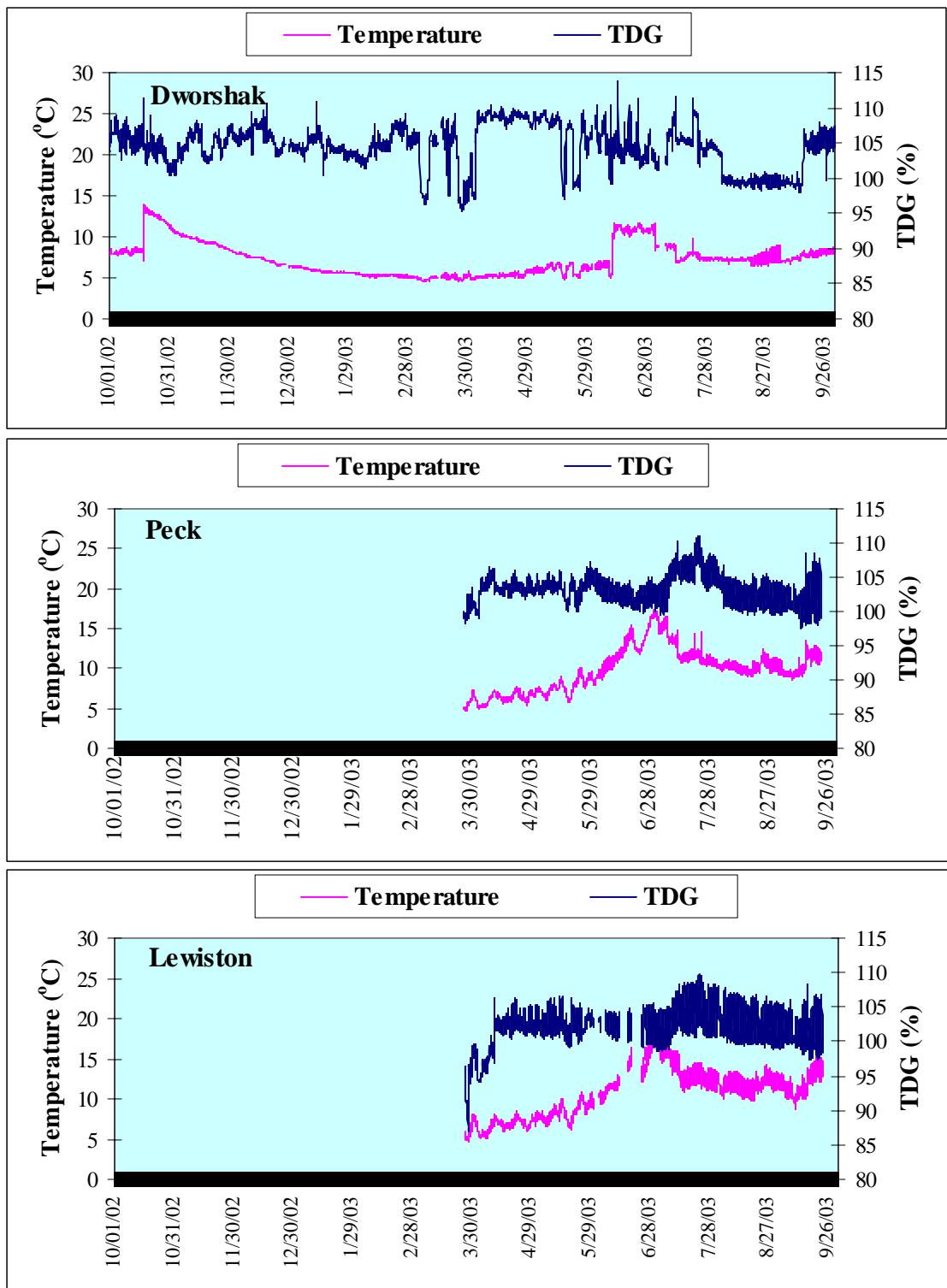


Figure 13. The relationships between hourly temperature and TDG data at the FMS stations at Dworshak, Peck, and Lewiston.

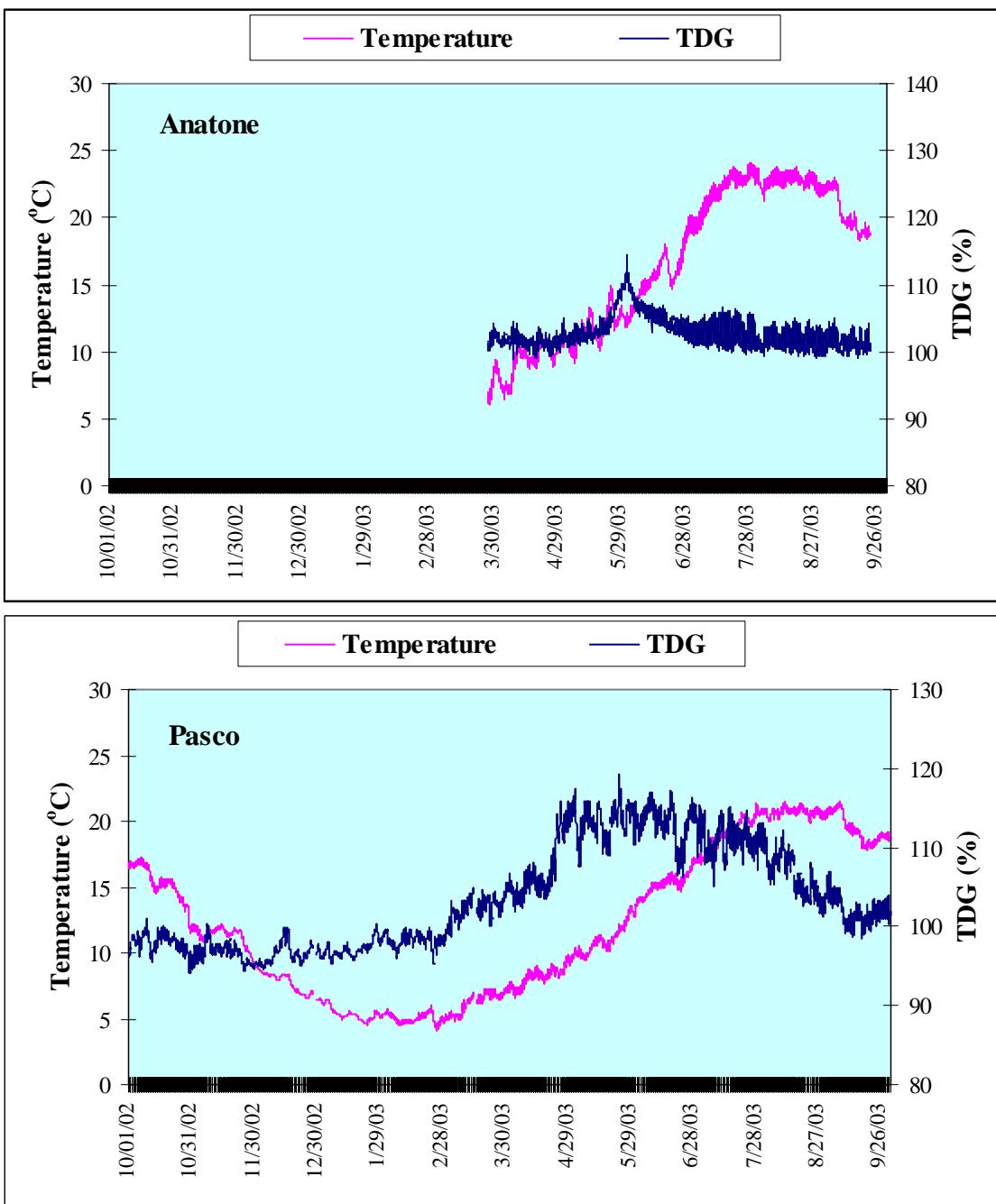


Figure 14. The relationships between hourly temperature and TDG data at the FMS stations at Anatone and Pasco.

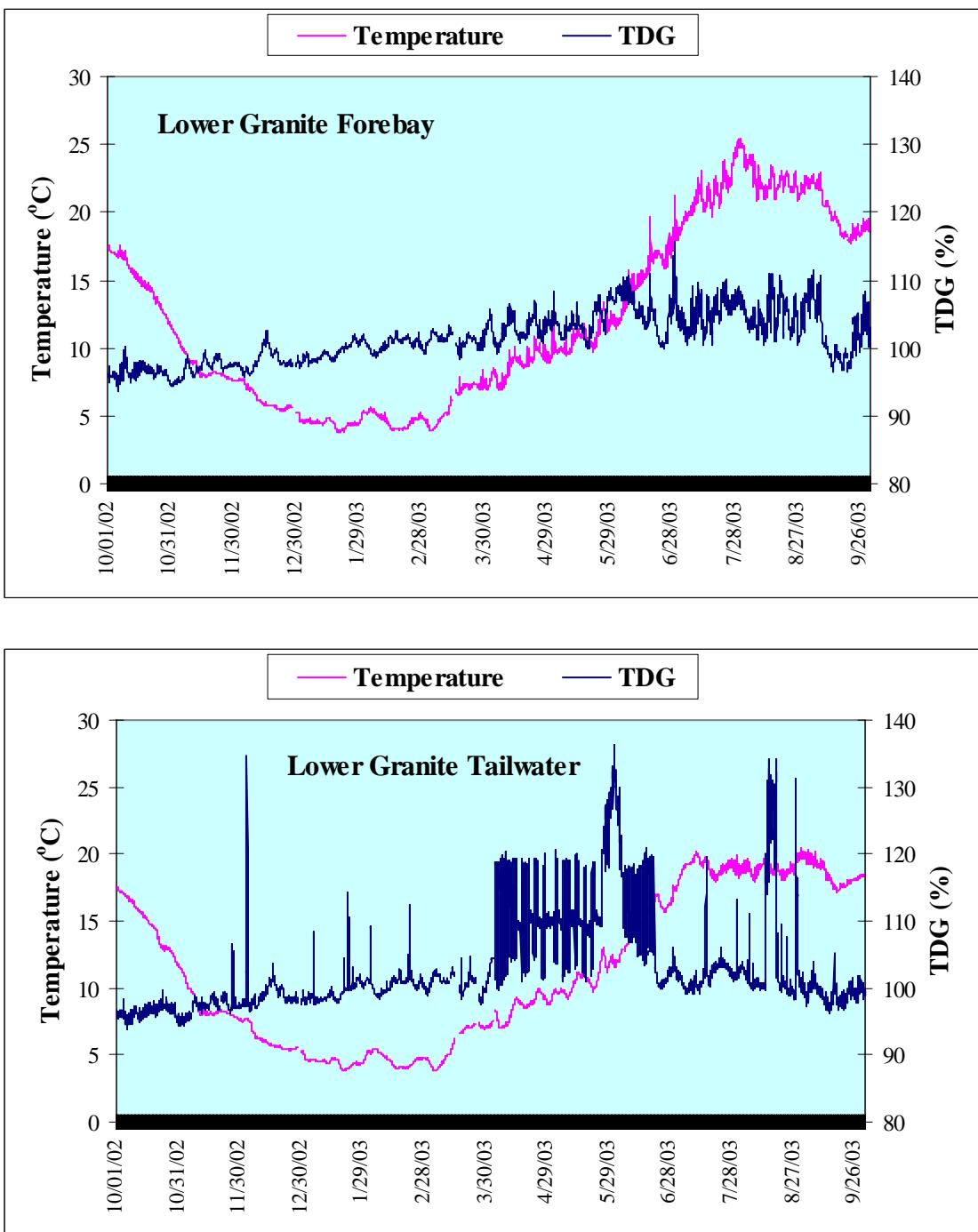


Figure 15. The relationships between hourly temperature and TDG data at the FMS stations at the Lower Granite Dam project.

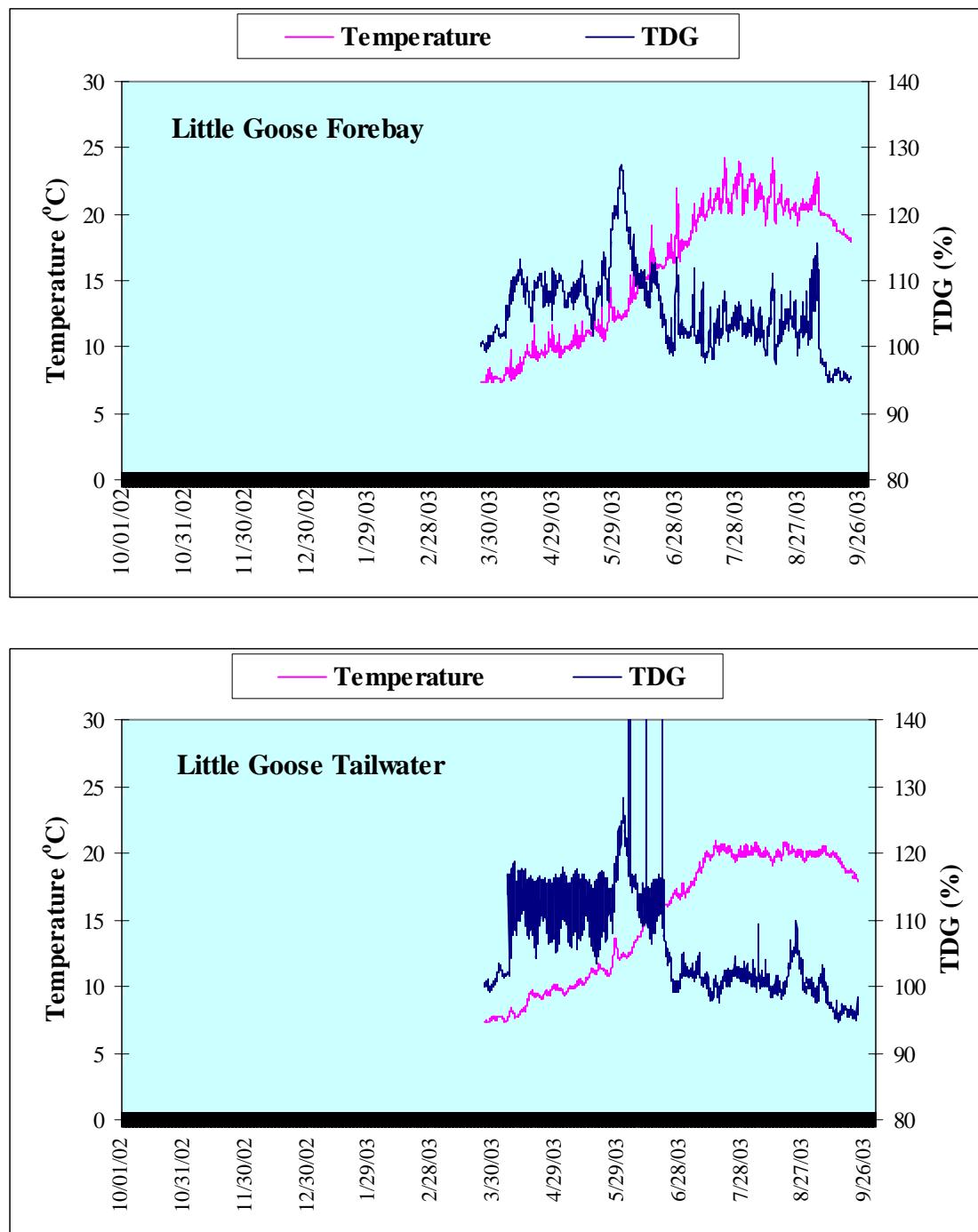


Figure 16. The relationships between hourly temperature and TDG data at the FMS stations at the Little Goose Dam project.

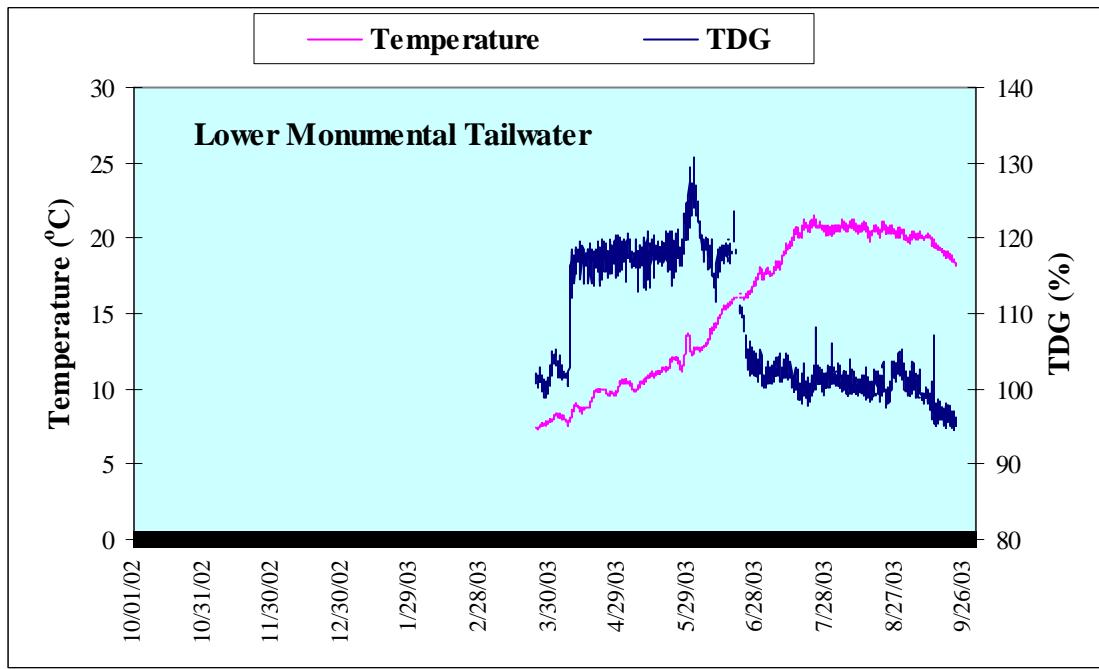
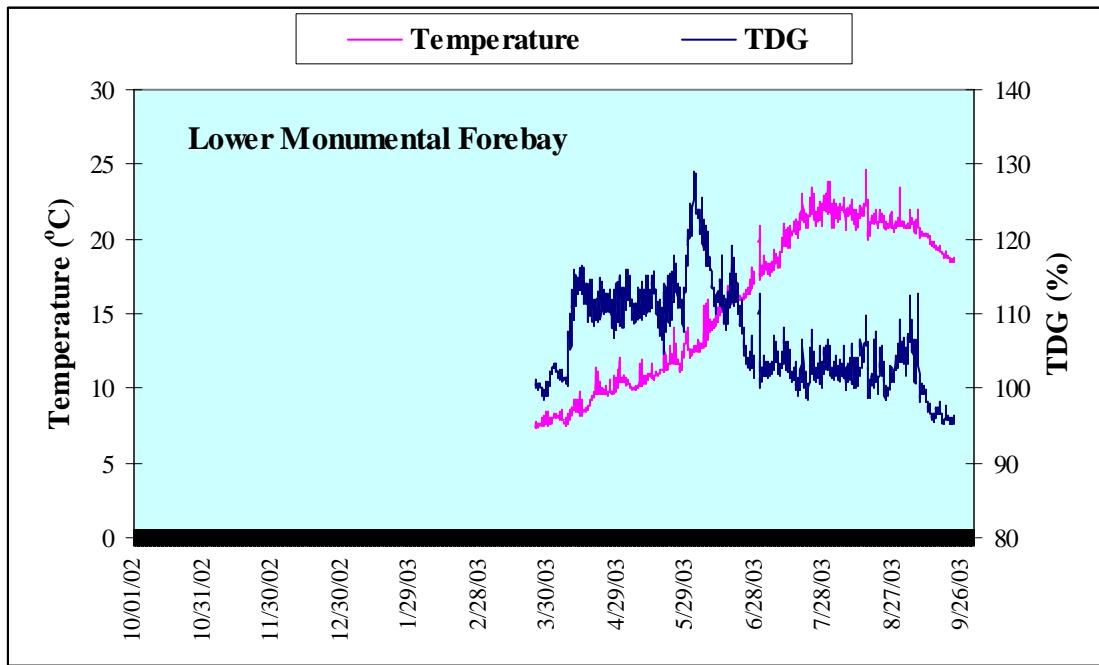


Figure 17. The relationships between hourly temperature and TDG data at the FMS stations at the Lower Monumental Dam project.

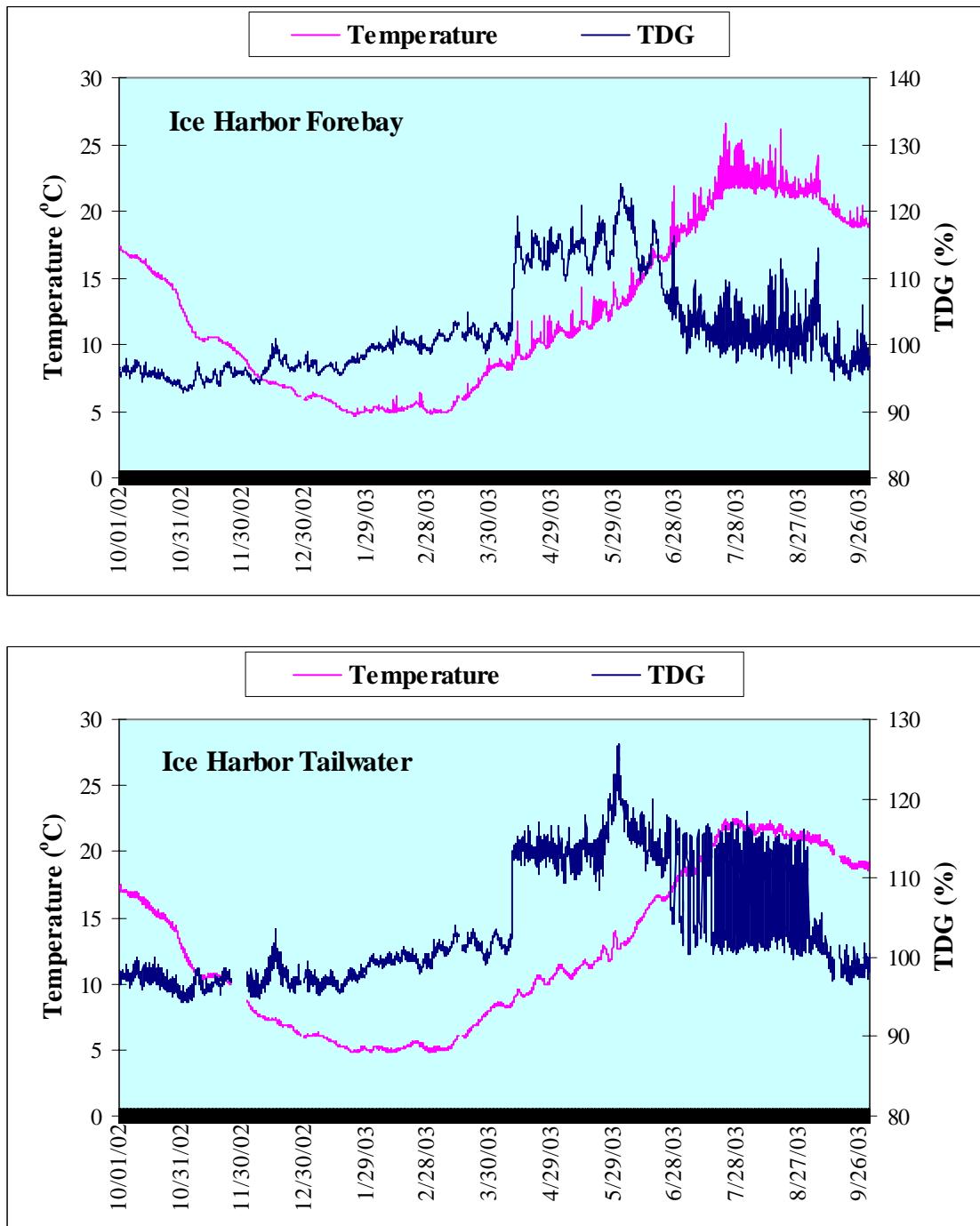


Figure 18. The relationships between hourly temperature and TDG data at the FMS stations at the Ice Harbor Dam project.

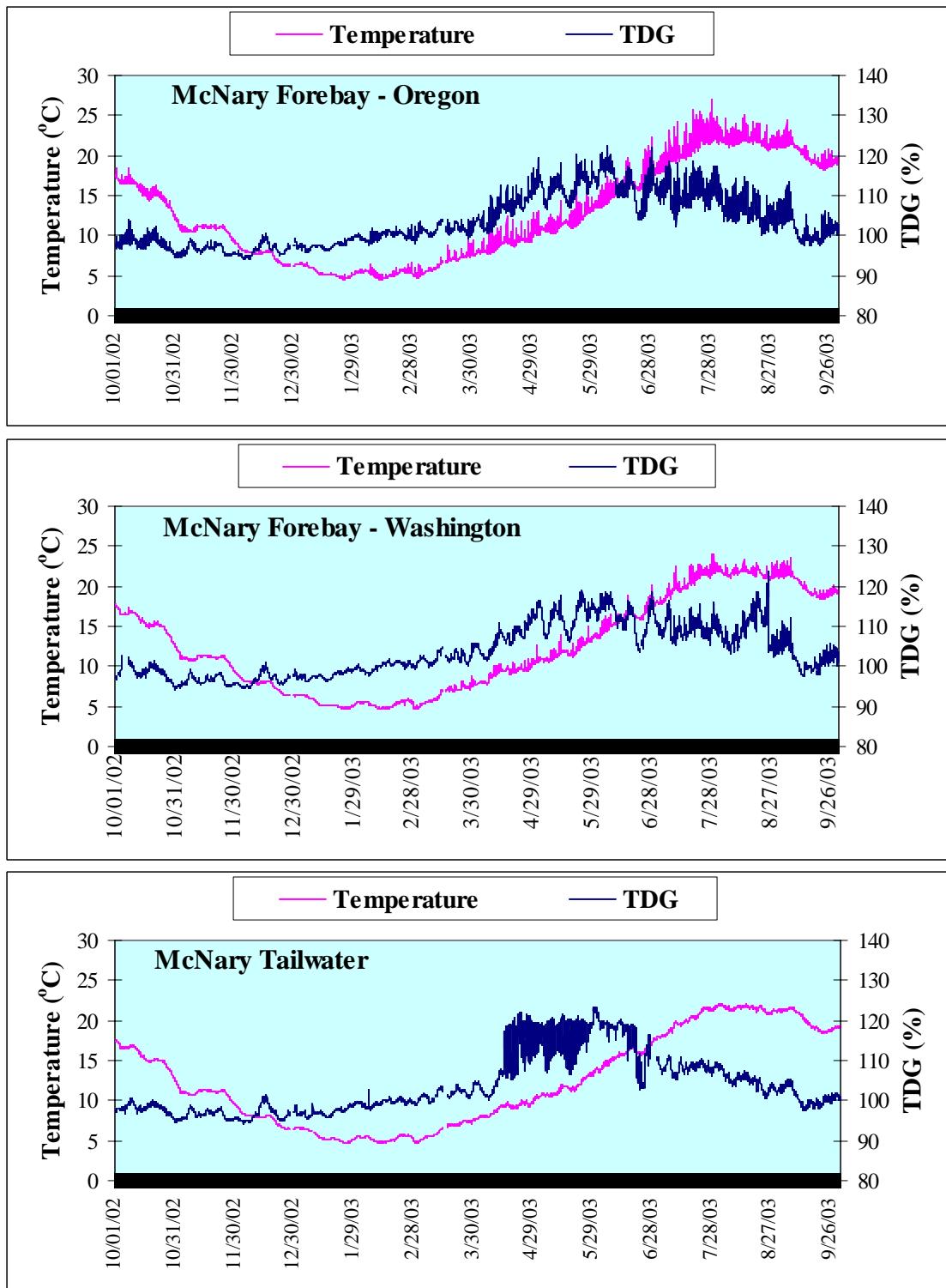


Figure 19. The relationships between hourly temperature and TDG data at the FMS stations at the McNary Dam project.

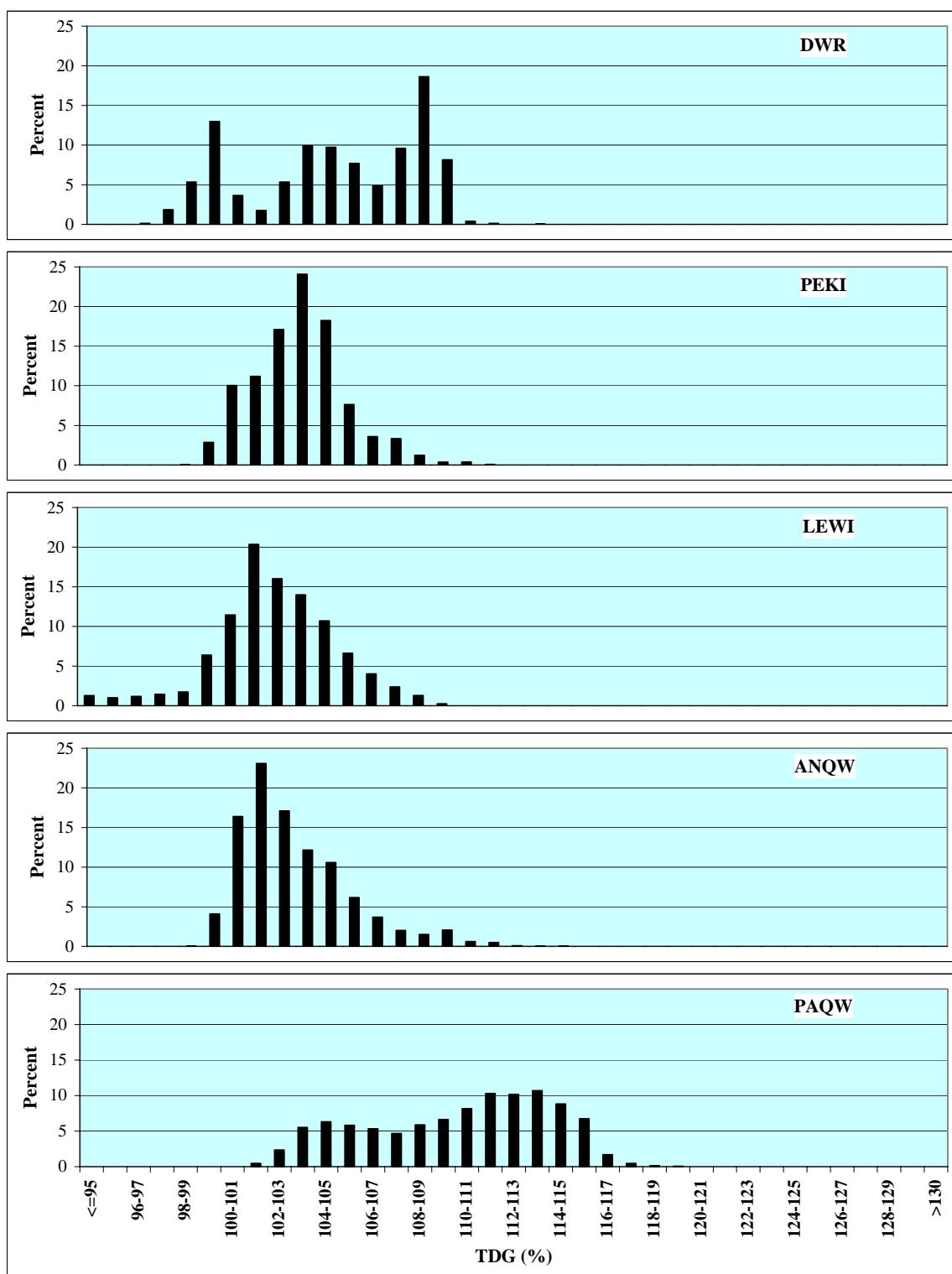


Figure 20. Frequency distributions for the 2003 April-August hourly TDG data recorded at the Dworshak Dam, Peck, Lewiston, Anatone, and Pasco FMS stations.

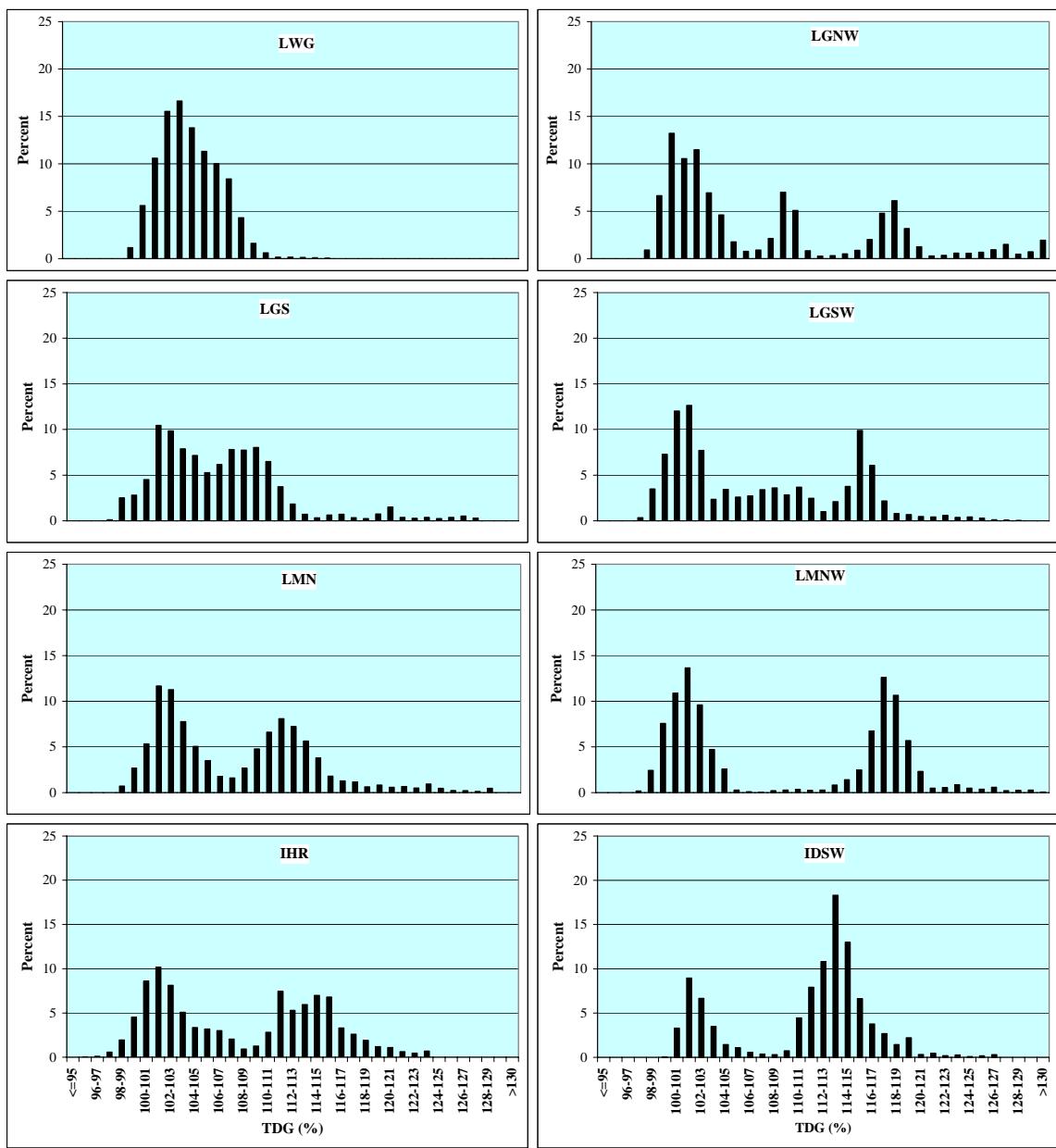


Figure 21. Frequency distribution for the 2003 April-August hourly TDG data recorded at the Lower Granite Dam, Little Goose Dam, Lower Monumental Dam, and Ice Harbor Dam FMS stations.

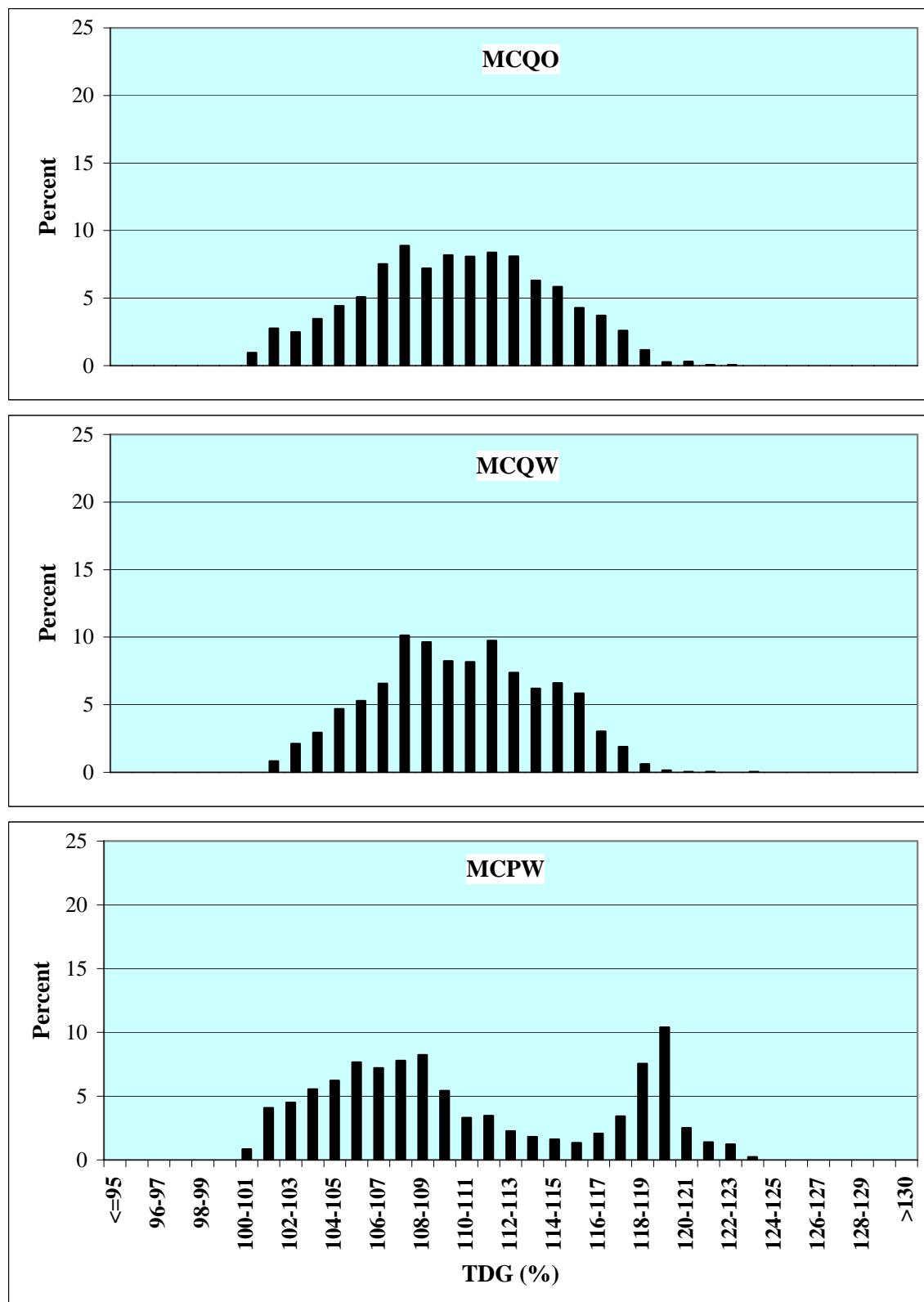


Figure 22. Frequency distributions for the 2003 April-August hourly TDG data recorded at the McNary Dam FMS stations.

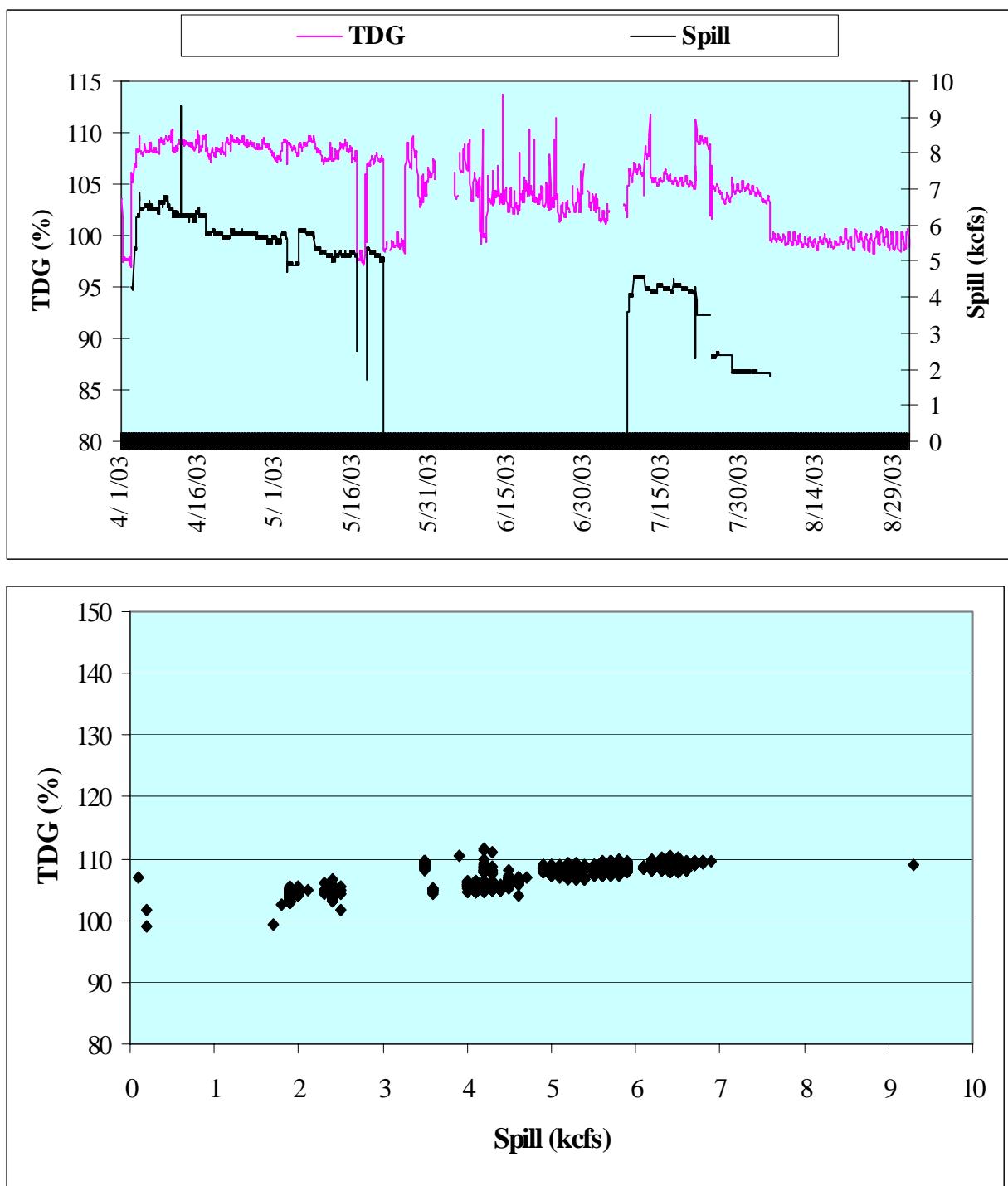


Figure 23. TDG versus spill for the 2003 April-August hourly data recorded downstream from Dworshak Dam.

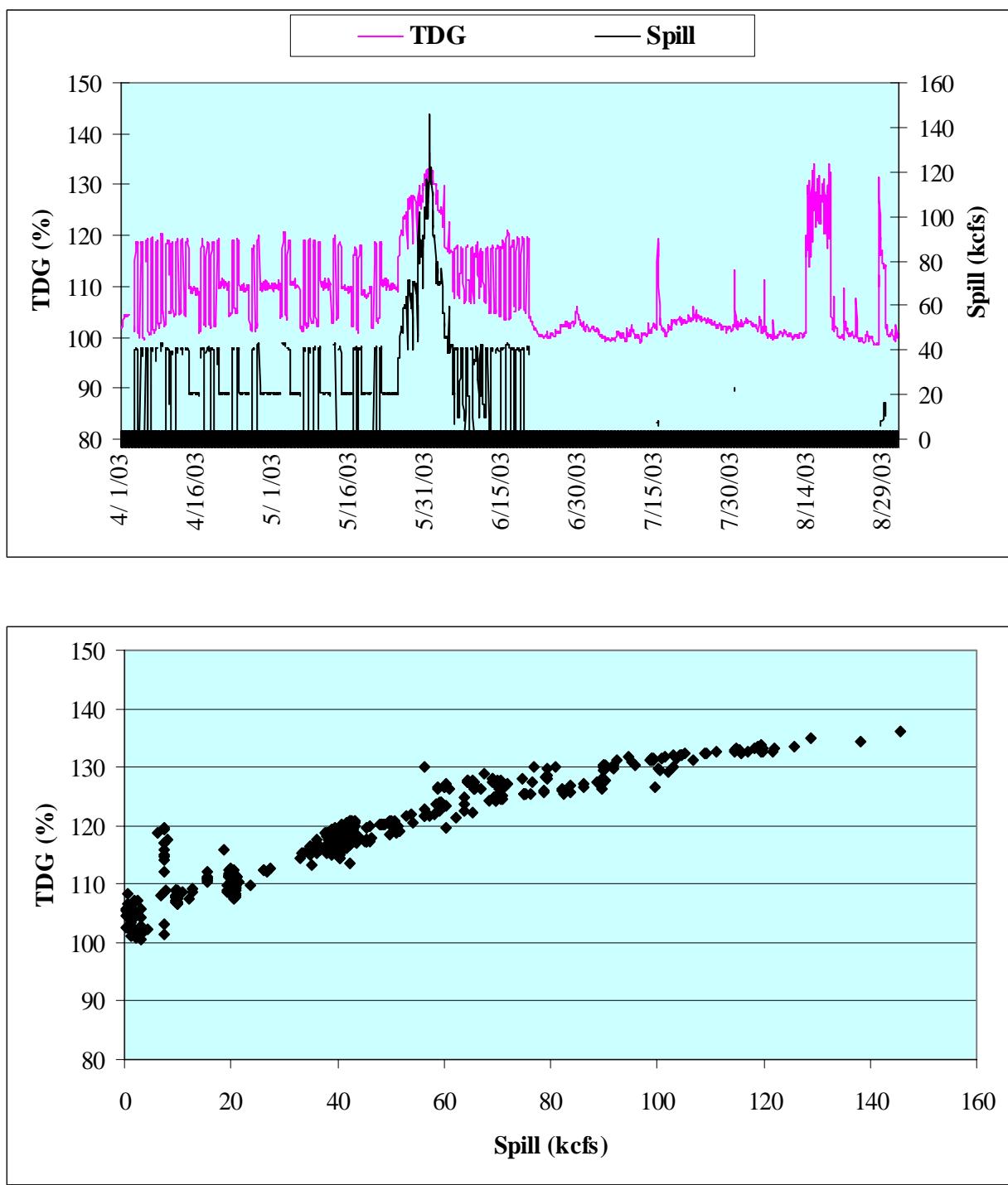


Figure 24. TDG versus spill for the 2003 April-August hourly data recorded downstream from Lower Granite Dam.

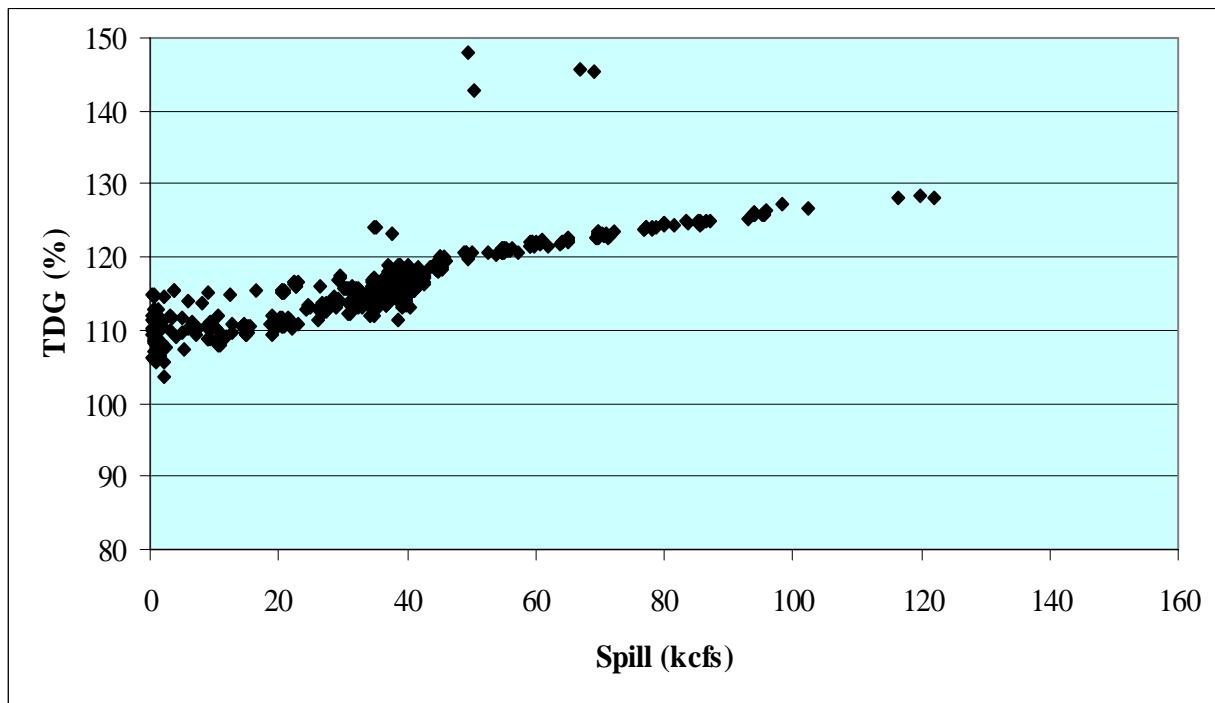
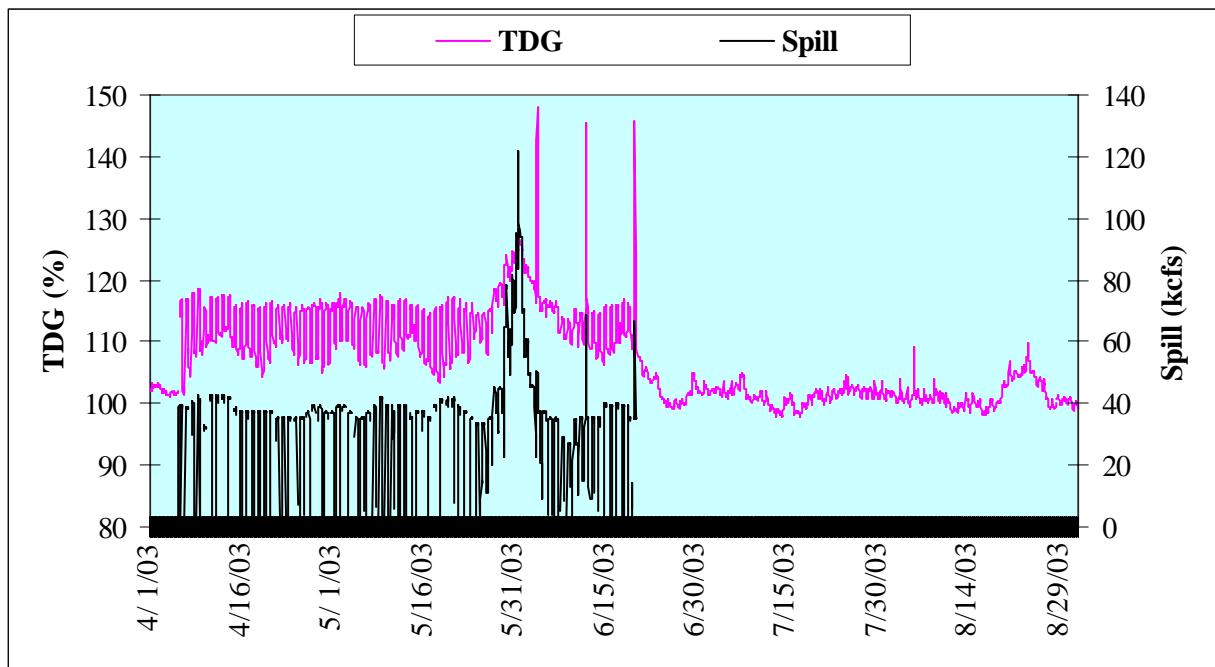


Figure 25. TDG versus spill for the 2003 April-August hourly data recorded downstream from Little Goose Dam.

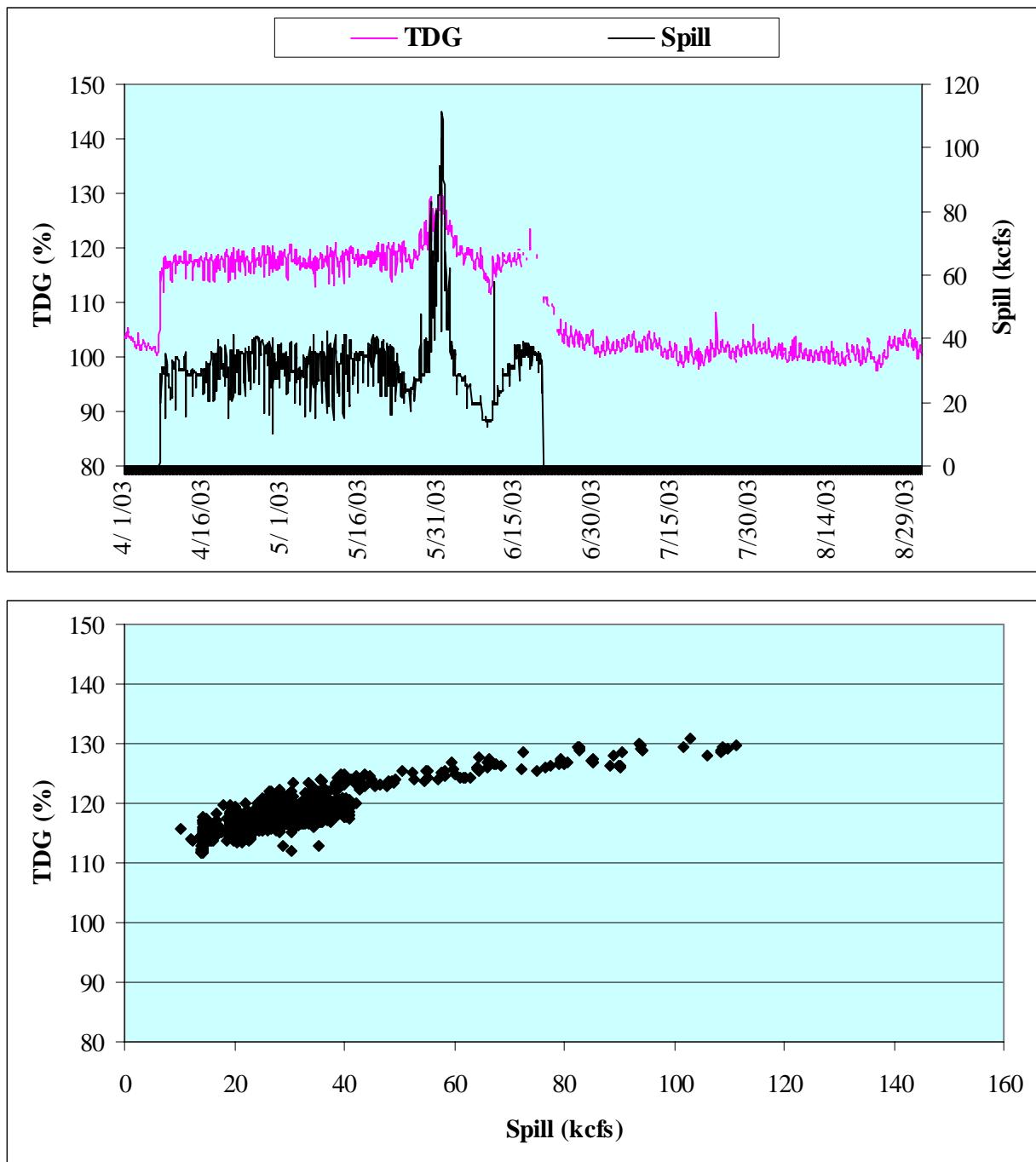


Figure 26. TDG versus spill for the 2003 April-August hourly data recorded downstream from Lower Monumental Dam.

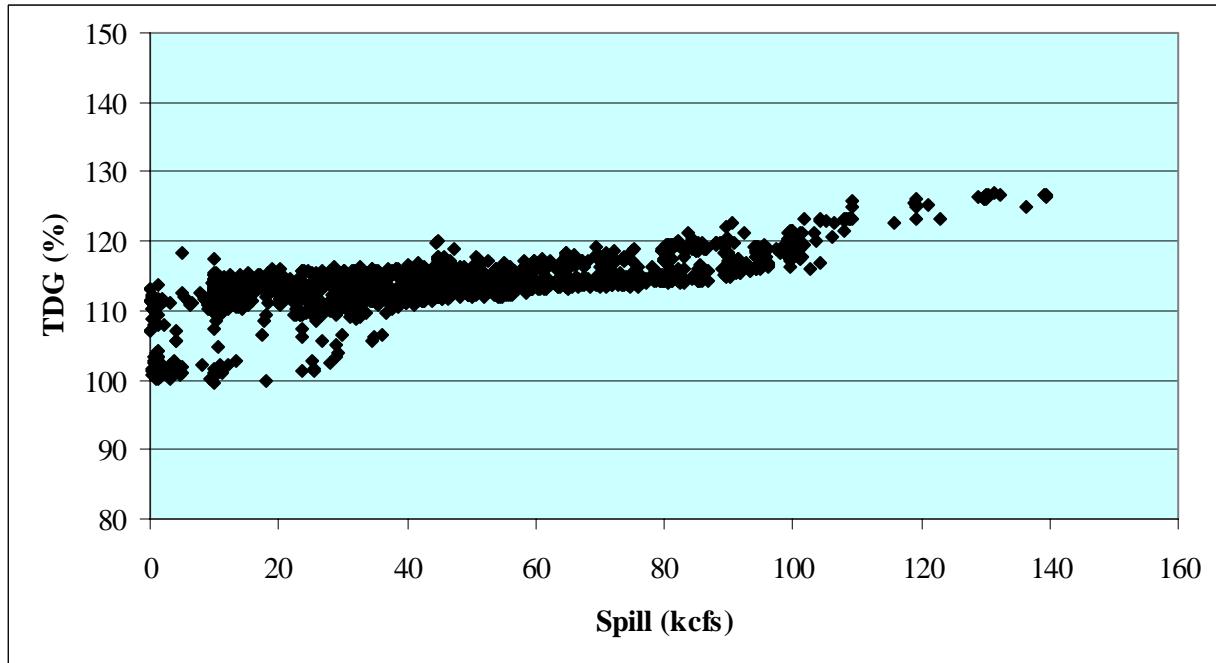
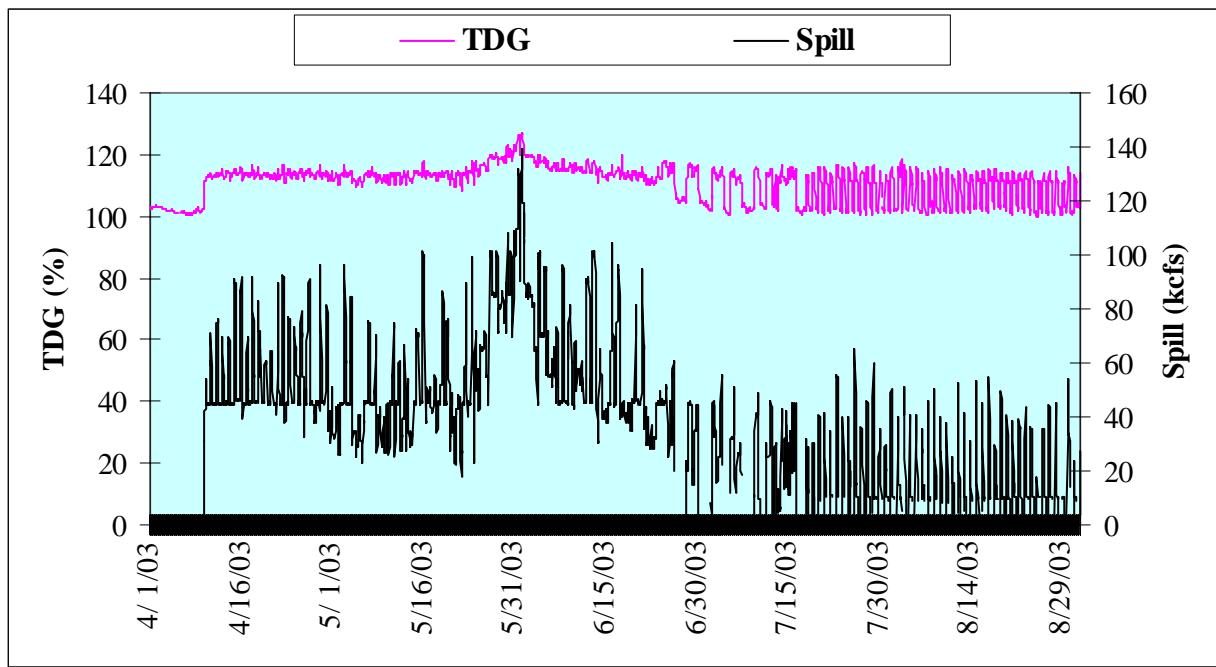


Figure 27. TDG versus spill for the 2003 April-August hourly data recorded downstream from Ice Harbor Dam.

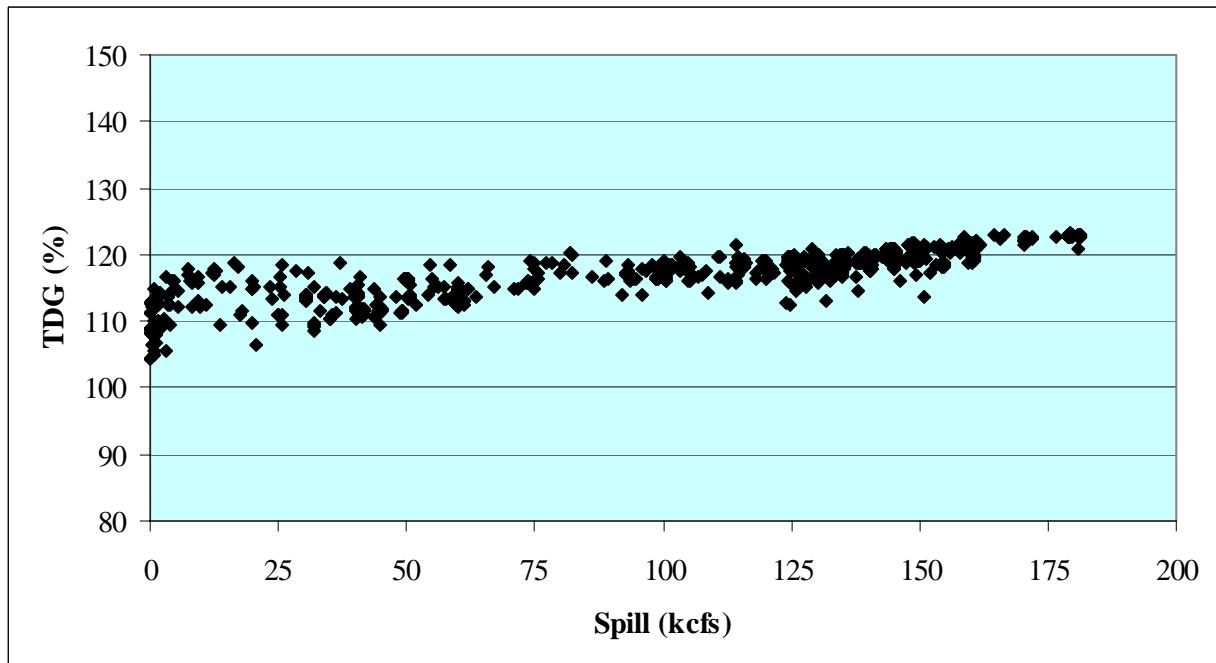
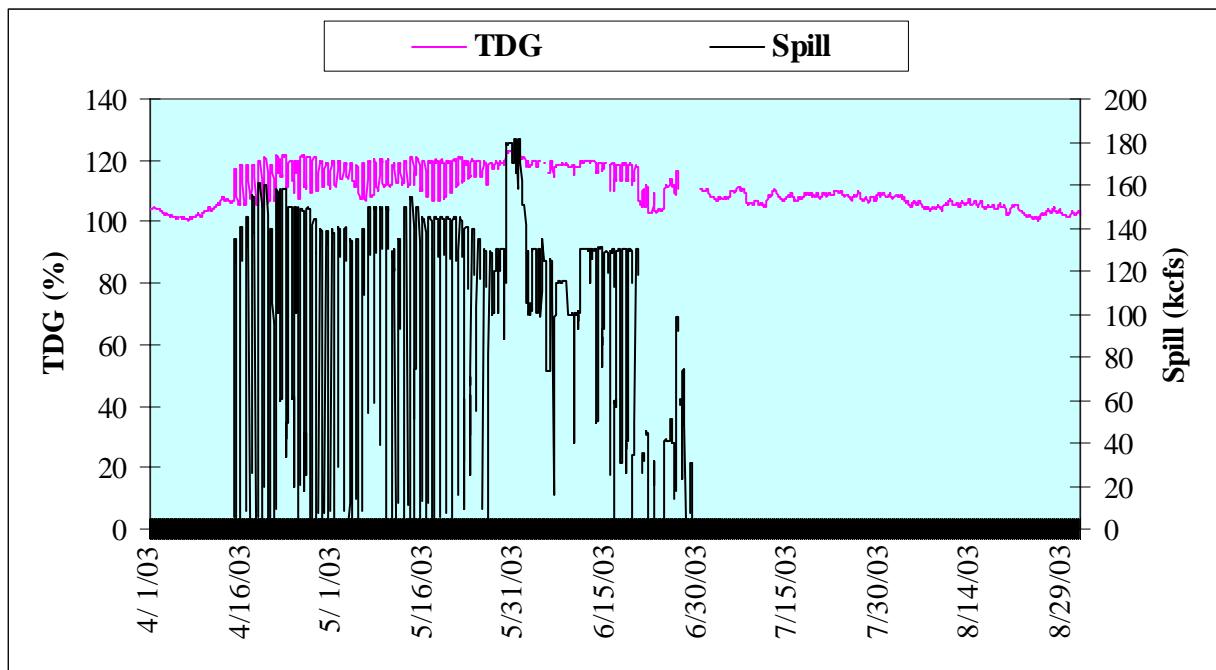


Figure 28. TDG versus spill for the 2003 April-August hourly data recorded downstream from McNary Dam.

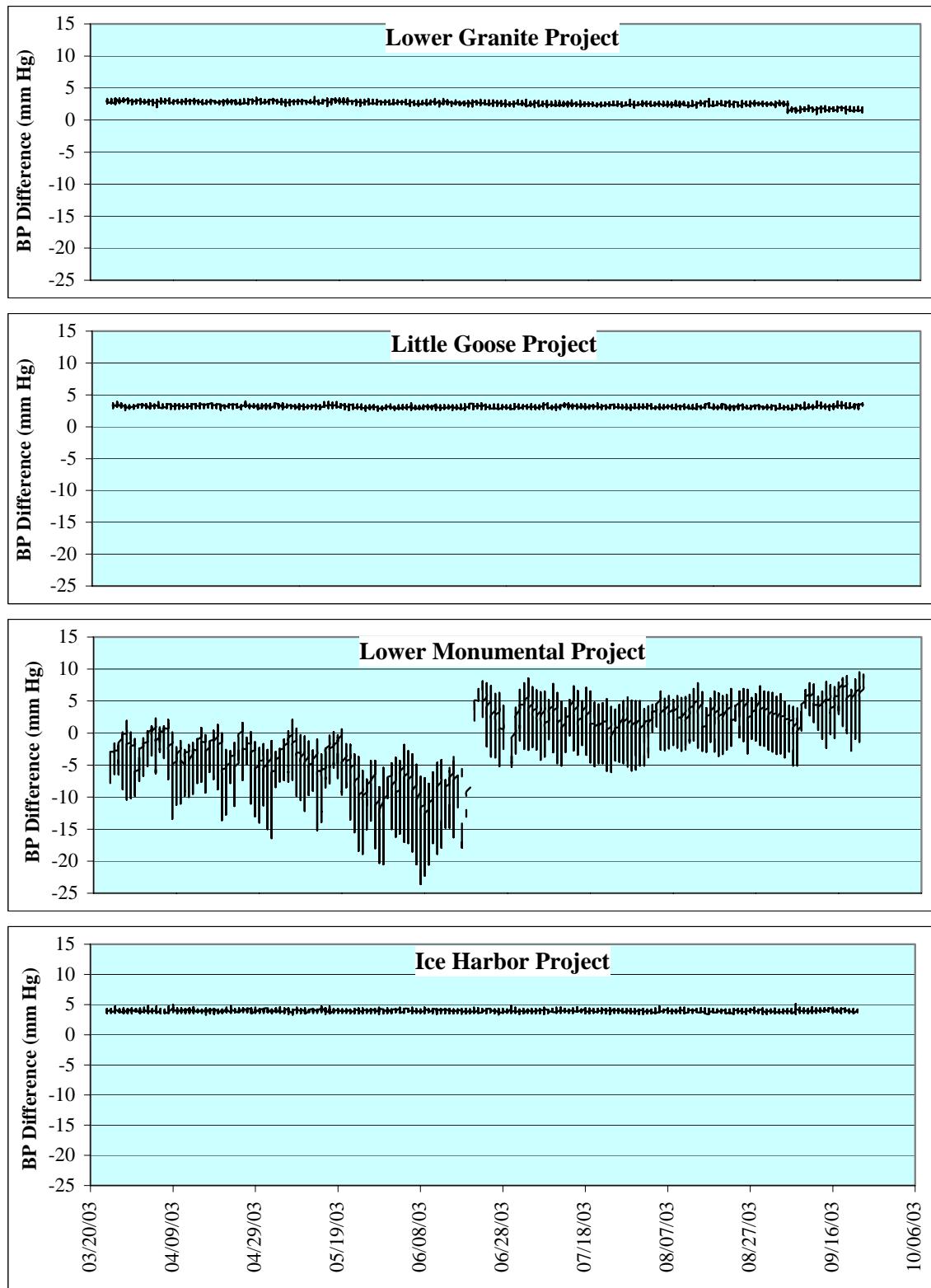


Figure 29. Barometric pressure differences between the tailwater and forebay barometers at the four Lower Snake River projects.

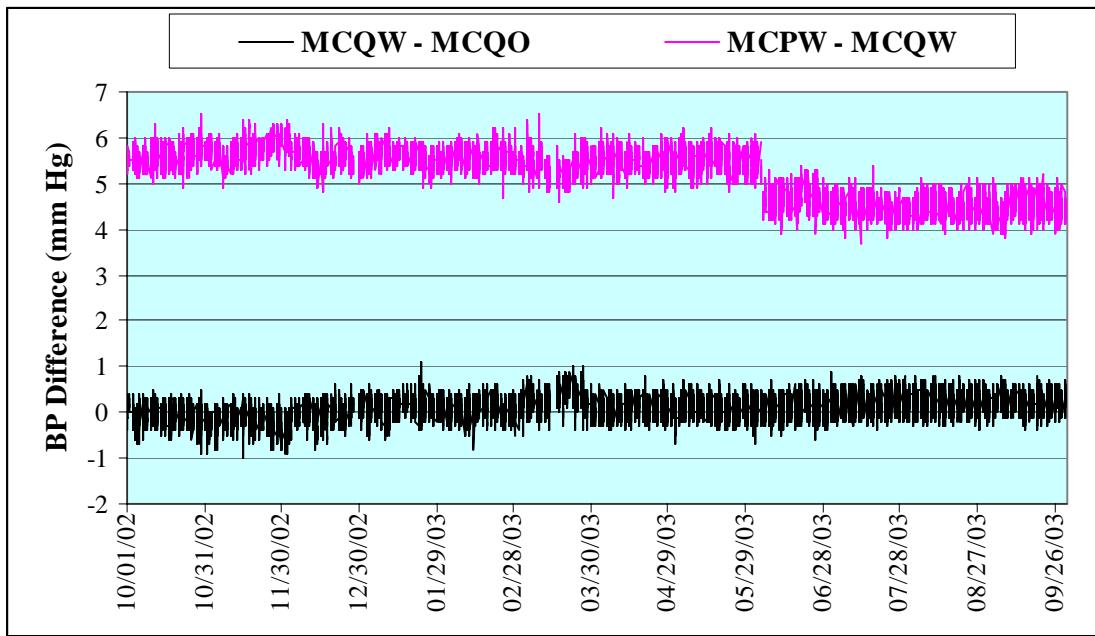


Figure 30. Barometric pressure differences between the two forebay stations (MCQW-MCQO) and the Washington tailwater (MCPW) and forebay (MCQW) barometers at the McNary Dam project.

TABLES

Table 1. Site-location information for Walla Walla District's Fixed-Monitoring System (FMS) Stations.

Station ID	Date Est	River	River Mile	Bank	Elev. (ft)	Latitude	Longitude	Dam	Quad Map Name	Station Type
ANQW	1998	Snake	167.5	Left	807	46° 05' 50	116° 58' 36	Lower Granite	Limekiln Rapids, ID	River
DWQI	1994	North Fork Clearwater	0.3	Left	1,150	46° 30' 11.46	116° 19' 18.15	Dworshak	Ahsahka, ID	Tailwater
IDSW	1990	Snake	6.9	Right	340	46° 14' 32.370	118° 56' 20.429	Ice Harbor	Humorist, WA	Tailwater
IHR	1984	Snake	9.7	Mid-River	440	46° 14' 58.427	118° 52' 42.244	Ice Harbor	Levey SW, Levey, & Slater WA	Forebay
LEWI	1996	Clearwater	5.4	Right	750	46° 25' 42.60	116° 56' 16.9	None	Otis Orchards, ID	River
LGNW	1990	Snake	106.7	Right	645	46° 39' 58.254	117° 26' 18.923	Lower Granite	Almota, WA	Tailwater
LGS	1984	Snake	70.3	Mid-River	638	46° 35' 05.713	118° 01' 32.254	Little Goose	Starbuck East, WA	Forebay
LGSW	1990	Snake	69.6	Right	560	46° 34' 59.460	118° 02' 31.100	Little Goose	Starbuck East, WA	Tailwater
LMN	1984	Snake	41.6	Mid-River	540	46° 33' 47.437	118° 32' 14.377	Lower Monumental	Lower Monumental Dam, WA	Forebay
LMNW	1990	Snake	40.8	Left	445	46° 33' 13.922	118° 32' 51.730	Lower Monumental	Lower Monumental Dam, WA	Tailwater
LWG	1984	Snake	107.5	Left	738	46° 39' 33.929	117° 25' 30.646	Lower Granite	Almota, WA	Forebay
MCPW	1990	Columbia	290.6	Right	240	45° 56' 00.959	119° 19' 30.890	McNary	Umatilla, OR-WA	Tailwater
MCQO	1986	Columbia	292.0	Left	340	45° 55' 58.181	119° 17' 43.667	McNary	Umatilla, OR-WA	Forebay
MCQW	1985	Columbia	292.1	Right	340	45° 56' 25.791	119° 17' 47.412	McNary	Umatilla, OR-WA	Forebay
PAQW	1998	Columbia	329.5	Left	345	46° 13' 32.337	119° 07' 25.280	McNary	Pasco, WA	River
PEKI	1996	Clearwater	37.4	Left	930	46° 30' 02.02	116° 23' 30.38	Dworshak	Southwick, ID	River

Table 2. Total sonde inventory cumulative control chart data for Total Dissolved Gas (TDG) and temperature during the 2003 water year.

Reporting Period	(n)*	Mean Delta Base TDG (mm Hg)	Stdev Base TDG (mm Hg)	Mean Delta Pres TDG (mm Hg)	Stdev Pres TDG (mm Hg)	Mean Delta Temp (°C)	Stdev Temp (°C)
1st Quarter	35	-0.20	1.16	-0.37	1.61	-0.1	0.1
2nd Quarter	57	-0.51	2.52	-0.47	2.51	-0.1	0.1
3rd Quarter	113	0.08	1.04	-0.11	0.10	-0.1	0.1
4th Quarter	80	0.23	0.94	-0.02	0.20	0.0	0.2
Cumulative '03	285	-0.11	1.51	-0.05	1.52	-0.1	0.1
Cumulative '02	245	-0.11	0.77	-0.09	0.80	-0.10	0.10
Cumulative '01	274	0.00	0.70	0.01	0.70	-0.07	0.04
Cumulative '00	204	0.13	1.07	0.25	1.11	-0.04	0.07

* (n) = total number of records entered in a month; not all records are complete for all parameters

Table 3. Sonde-specific performance summary for delta base TDG, delta pressure TDG, and delta temperature.

Sonde #	Δ BASE TDG			Δ PRESSURE TDG			Δ TEMPERATURE		
	# >±2.0 mm Hg	# Obs.	%	# >±2.0 mm Hg	# Obs.	%	# >±0.2 °C	# Obs.	%
1	0	14	100.0	0	14	100.0	0	14	100.0
2	0	2	100.0	0	2	100.0	0	2	100.0
3	2	11	81.8	1	11	90.9	0	11	100.0
4	0	8	100.0	0	8	100.0	0	8	100.0
5	0	5	100.0	0	5	100.0	0	5	100.0
6	0	14	100.0	0	14	100.0	0	14	100.0
7	0	13	100.0	0	13	100.0	0	13	100.0
8	2	11	81.8	2	11	81.8	0	11	100.0
9	No data			No data			No data		
10	0	10	100.0	0	10	100.0	0	10	100.0
11	0	9	100.0	0	9	100.0	0	9	100.0
12	0	14	100.0	0	14	100.0	0	14	100.0
13	0	44	100.0	0	14	100.0	1	4	75.0
14	0	11	100.0	0	11	100.0	0	11	100.0
15	0	13	100.0	1	13	92.3	0	13	100.0
16	0	15	100.0	0	15	100.0	1	15	93.3
17	0	15	100.0	0	15	100.0	0	14	100.0
18	0	9	100.0	0	9	100.0	0	9	100.0
19	0	1	100.0	0	1	100.0	0	1	100.0
20	0	16	100.0	0	16	100.0	0	14	100.0
21	1	13	92.3	1	13	92.3	1	13	92.3
22	No data			No data			No data		
23	0	15	100.0	0	15	100.0	0	15	100.0
24	No data			No data			No data		
25	0	15	100.0	0	15	100.0	0	15	100.0
26	0	11	100.0	0	11	100.0	0	11	100.0
27	No data			No data			No data		
28	0	12	100.0	0	12	100.0	0	12	100.0
29	0	12	100.0	0	12	100.0	0	11	100.0
30	0	14	100.0	0	14	100.0	0	14	100.0

Table 4. All fixed monitoring stations cumulative control chart data for TDG, DO, BAR, and temperature parameters for the 2003 water year.

Reporting Period	(n)*	Mean	Base	Stdev	Mean	Mean	Delta	Stdev	Mean	Delta	Stdev
		Delta	TDG	Base	TDG	DO	DO	Temp	Temp	BAR	BAR
		(mm Hg)	(mm HG)		(mg/L)	(mg/L)	(°C)	(°C)	(mm Hg)	(mm Hg)	
1st Quarter	35	-1.59	3.11	-0.31	0.98	0.0	0.1	1.00	2.46		
2nd Quarter	57	0.48	2.30	-0.24	0.70	0.0	0.1	0.63	1.47		
3rd Quarter	113	0.85	3.12	-0.26	0.62	-0.01	0.08	0.97	2.45		
4th Quarter	80	-0.85	3.67	-0.34	0.77	0.01	0.13	1.85	1.83		
Cumulative '03	285	-0.02	3.26	-0.29	0.73	0.0	0.1	1.15	2.16		
Cumulative '02	245	-0.22	2.30	-0.21	0.65	0.00	0.10	0.79	2.17		
Cumulative '01	274	-0.10	1.79	-0.28	0.59	-0.01	0.06	0.50	2.22		
Cumulative '00	240	0.09	2.39	n/a	n/a	0.00	0.07	n/a	n/a		

* (n) = total number of records entered in a month; not all records are complete for all parameters

n/a = not applicable

Table 5. Station performance summary for TDG, barometric pressure, temperature, and dissolved oxygen.

Station	TDG			BP			TEMPERATURE			DO		
	# >± 4 mm Hg	# Obs	%	# >± 4 mm Hg	# Obs	%	# >± 4 mm Hg	# Obs	%	# >± 4 mm Hg	# Obs	%
Anatone	0	11	100.0	0	12	100.0	0	11	100.0	6	11	45.5
Dworshak	1	21	95.2	3	21	85.7	0	21	100.0	9	21	57.1
Peck	0	11	100.0	0	12	100.0	0	11	100.0	6	11	45.5
Lewiston	2	11	81.8	0	13	100.0	2	11	81.8	5	11	54.5
Lower Granite forebay	1	22	95.5	0	22	100.0	0	22	100.0	10	22	54.5
Lower Granite tailwater	1	22	95.5	0	22	100.0	0	22	100.0	6	22	72.7
LittleGoose forebay	2	11	81.8	0	12	100.0	0	11	100.0	3	11	72.7
Little Goose tailwater	3	11	72.7	0	12	100.0	0	11	100.0	1	11	90.9
Lower Monumental forebay	0	12	100.0	0	13	100.0	0	12	100.0	3	12	75.0
Lower Monumental tailwater	0	12	100.0	5	13	61.5	0	12	100.0	3	12	75.0
Ice Harbor forebay	2	22	90.9	0	22	100.0	0	22	100.0	8	22	63.6
Ice Harbor tailwater	0	20	100.0	0	21	100.0	0	20	100.0	4	20	80.0
Pasco	3	20	85.0	0	22	100.0	0	20	100.0	6	20	70.0
McNary forebay Oregon	1	23	95.7	0	23	100.0	1	23	95.7	10	23	56.5
McNary forebay Washington	3	21	85.7	0	21	100.0	0	21	100.0	5	21	76.2
McNary tailwater	3	23	87.0	11	22	50.0	0	23	100.0	6	23	73.9

Table 6. FMS data collection intervals and quantity of data available for temperature and TDG during fish-spill and non-spill intervals.

Station Type	Station ID	2003 WATER YEAR		FISH SPILL SEASON DATA	
		Data Collection Interval	Number of Hourly Data Points Available (Temp/ TDG)	Spill Interval	Number of Hourly Data Points Available (Temp/ TDG)
Annual	DWQI	10/01/02 – 09/30/03	8,458/ 8,456	NA	----
	LWG	“ - “	8,635/ 8,634	04/03/03 – 06/20/03	1,895/ 1,893
	LGNW	“ - “	8,546/ 8,536	“ - “	1,877/ 1,873
	IHR	“ - “	8,632/ 8,629	“ - “	1,888/ 1,889
	IDSW	“ - “	8,365/ 8,362	04/03/03 – 08/31/03	3,617/ 3,616
	PAQW	“ - “	8,597/ 8,556	04/22/03 – 08/15/03*	2,782/ 3,581
	MCQO	“ - “	8,632/ 8,632	04/03/03 – 08/15/03	3,619/ 3,619
	MCQW	“ - “	8,632/ 8,543	“ - “	3,620/ 3,605
	MCPW	“ - “	8,593/ 8,477	04/10/03 – 06/30/03	1,948/ 1,831
Seasonal	ANQW	03/27/03 – 09/23/03	4,285/ 4,264	NA	----
	PEKI	03/26/03 – 09/23/03	4,327/ 4,326	NA	----
	LEWI	“ - “	4,036/ 3,968	NA	----
	LGS	03/25/03 – 09/22/03	4,331/ 4,332	04/03/03 – 06/20/03	1,890/ 1,891
	LGSW	“ - “	4,331/ 4,330	“ - “	1,892/ 1,892
	LMN	03/24/03 – 09/22/03	4,308/ 4,307	“ - “	1,894/ 1,894
	LMNW	04/24/03 – 09/22/03	4,197/ 4,179	“ - “	1,783/ 1,773
* Priest Rapids Dam Fish Spill Season					

Table 7. Summary statistics for the available 2003 temperature data recorded at the FMS sites.

Station Type	Station ID	Period	# of Data Points	Completeness (%)	Min (°C)	Max (°C)	Mean (°C)	Percent All Data >20 °C	Percent Apr-Aug >20 °C
Annual	DWQI	10/01/02 – 09/30/03	8,458	96.6	4.5	14.0	7.2	0.0	0.0
	LWG	10/01/02 – 09/30/03	8,635	98.6	3.8	25.4	12.1	18.5	36.0
	LGNW	10/01/02 – 09/30/03	8,546	97.6	3.8	20.4	11.4	0.5	3.8
	IHR	10/01/02 – 09/30/03	8,632	98.5	4.7	26.5	12.6	17.8	33.3
	IDSW	10/01/02 – 09/30/03	8,365	95.5	4.8	22.5	12.5	17.4	31.9
	PAQW	10/01/02 – 09/30/03	8,597	98.1	4.1	21.5	12.2	13.1	25.7
	MCQO	10/01/02 – 09/30/03	8,632	98.5	4.6	27.0	12.8	18.7	34.5
	MCQW	10/01/02 – 09/30/03	8,632	98.6	4.7	24.0	12.7	16.7	31.6
	MCPW	10/01/02 – 09/30/03	8,593	98.1	4.7	22.1	12.6	16.3	30.4
Seasonal	ANQW	03/27/03 – 09/23/03	4,285	99.0	6.1	24.1	16.6	37.4	37.9
	PEKI	03/26/03 – 09/23/03	4,327	99.4	4.7	17.3	9.8	0.0	0.0
	LEWI	03/26/03 – 09/23/03	4,036	92.7	4.7	19.7	10.7	0.0	0.0
	LGS	03/25/03 – 09/22/03	4,331	99.4	7.3	24.3	15.6	30.3	31.4
	LGSW	03/25/03 – 09/22/03	4,331	99.4	7.3	21.0	15.2	16.8	17.4
	LMN	03/24/03 – 09/22/03	4,308	98.4	7.3	24.7	15.7	34.6	34.1
	LMNW	04/24/03 – 09/22/03	4,197	95.9	7.3	21.5	15.4	31.3	32.2

Table 8. Percent distributions for the April-August 2003 hourly temperature data from the stations that were monitored annually.

°C	DWQI	LWG	LGNW	IHR	IDSW	PAQW	MCQO	MCQW	MCPW
0-1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1-2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2-3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3-4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4-5	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5-6	28.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6-7	21.8	0.5	1.0	0.0	0.0	1.4	0.0	0.0	0.0
7-8	24.9	4.3	4.7	0.0	0.0	5.5	2.9	3.2	2.8
8-9	7.9	6.4	8.8	8.2	7.4	10.6	5.3	2.9	4.5
9-10	1.1	13.6	12.3	6.1	6.8	6.8	8.4	11.5	11.3
10-11	8.3	7.4	6.4	9.4	10.2	7.4	8.0	7.1	8.2
11-12	4.7	6.5	5.1	9.4	10.8	4.0	7.6	8.0	7.3
12-13	0.0	3.9	4.6	6.4	5.5	2.6	4.0	3.3	2.5
13-14	0.0	1.8	1.7	4.7	4.1	3.1	4.2	4.7	4.4
14-15	0.0	3.7	3.7	3.1	2.6	5.2	3.5	2.6	3.2
15-16	0.0	2.6	4.2	2.6	2.5	9.7	6.2	7.4	7.7
16-17	0.0	5.1	5.6	6.1	6.7	3.1	5.2	4.7	5.3
17-18	0.0	2.1	2.4	1.7	2.1	3.8	2.3	4.8	4.0
18-19	0.0	2.1	20.6	5.4	6.2	5.4	3.1	3.2	3.0
19-20	0.0	3.4	18.1	3.1	3.2	5.8	4.4	5.0	5.3
20-21	0.0	6.1	0.8	3.3	5.6	23.2	4.7	4.2	5.9
21-22	0.0	14.2	0.0	15.9	22.7	2.5	12.3	20.9	24.4
22-23	0.0	8.2	0.0	9.6	3.7	0.0	11.3	6.2	0.2
23-24	0.0	4.4	0.0	2.9	0.0	0.0	4.6	0.4	0.0
24-25	0.0	3.1	0.0	1.6	0.0	0.0	1.6	0.0	0.0

Table 9. Percent distributions for the April-August 2003 hourly temperature data from the stations that were monitored seasonally.

°C	ANQW	PEKI	LEWI	LGS	LGSW	LMN	LMNW
0-1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1-2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2-3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3-4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4-5	0.0	0.1	0.0	0.0	0.0	0.0	0.0
5-6	0.0	7.5	4.1	0.0	0.0	0.0	0.0
6-7	0.7	14.5	11.7	0.0	0.0	0.0	0.0
7-8	2.9	10.5	14.4	5.1	5.5	2.5	2.2
8-9	2.5	6.7	7.2	4.4	4.1	7.9	8.7
9-10	8.5	11.9	4.8	13.5	14.7	8.7	9.5
10-11	10.5	16.9	8.0	7.6	6.7	11.2	10.1
11-12	7.5	12.3	15.0	6.5	5.7	6.0	7.5
12-13	6.5	5.4	12.5	5.3	5.5	6.4	6.2
13-14	3.6	5.6	8.9	2.2	3.1	2.3	2.8
14-15	3.7	3.4	3.7	2.9	2.6	2.6	2.2
15-16	5.9	2.5	3.5	3.3	4.1	4.5	2.9
16-17	3.1	2.4	2.4	5.9	6.5	4.8	3.4
17-18	2.1	0.6	1.8	4.3	4.1	2.5	6.1
18-19	1.5	0.0	1.3	2.0	1.9	4.5	2.3
19-20	3.3	0.0	0.6	5.7	18.1	1.9	3.8
20-21	2.4	0.0	0.0	15.3	17.4	10.1	29.9
21-22	5.2	0.0	0.0	9.7	0.0	17.6	2.3
22-23	21.1	0.0	0.0	4.6	0.0	5.2	0.0
23-24	9.1	0.0	0.0	1.6	0.0	1.1	0.0
24-25	0.1	0.0	0.0	0.2	0.0	0.1	0.0

Table 10. Summary statistics for the available 2003 TDG data recorded at the FMS sites during fish-spill and non-spill periods.

Station Type	Station ID	ENTIRE 2003 WATER YEAR				>110% (of hourly data)	FISH-SPILL SEASON		
		# of Hourly Data Points	Completeness (%)	Min (°C)	Max (°C)		>115% (% of days)	>120% (% of days)	>125% (% of days)
Annual	DWQI	8,456	96.5	95.4	113.7	104.3	0.3	---	---
	LWG	8,634	98.6	93.7	115.7	101.4	0.7	0.0	---
	LGNW	8,536	97.4	93.9	136.2	102.8	2.5	---	11.4
	IHR	8,628	98.5	92.9	124.0	102.3	0.8	45.6	0.0
	IDSW	8,362	95.5	94.3	126.9	104.0	0.1	---	2.6
	PAQW	8,555	97.7	94.2	119.3	103.5	0.0	19.8	0.0
	MCQO	8,632	98.5	94.1	122.4	103.6	0.2	5.3	0.0
	MCQW	8,543	97.5	94.1	123.7	103.8	0.1	17.2	0.0
	MCPW	8,477	96.8	94.3	123.2	103.6	1.1	---	15.2
Seasonal	ANQW	4,264	98.5	98.9	114.4	102.7	1.0	---	---
	PEKI	4,326	99.4	97.6	111.1	103.1	0.4	---	---
	LEWI	3,968	91.2	86.9	109.7	102.1	0.0	---	---
	LGS	4,332	99.4	94.7	127.4	105.5	3.1	12.7	3.8
	LGSW	4,330	99.4	94.8	148.0	105.9	0.0	---	7.6
	LMN	4,307	98.4	95.2	129.0	106.6	1.3	25.3	5.1
	LMNW	4,179	95.5	94.5	130.8	107.8	0.2	---	12.7

Table 11. Percent distributions for the April-August 2003 hourly TDG data from the stations that were monitored annually.

% TDG	DWQI	LWG	LGNW	IHR	IDSW	PAQW	MCQO	MCQW	MCPW
<95	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95-96	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
96-97	0.1	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0
97-98	1.8	0.0	0.0	0.6	0.0	0.0	0.0	0.0	0.0
98-99	5.3	0.0	0.9	1.9	0.0	0.0	0.0	0.0	0.0
99-100	13.0	1.1	6.6	4.5	0.1	0.0	0.0	0.0	0.0
100-101	3.6	5.6	13.2	8.6	3.3	0.0	1.0	0.0	0.8
101-102	1.7	10.6	10.6	10.2	9.0	0.4	2.8	0.8	4.1
102-103	5.3	15.5	11.5	8.1	6.7	2.3	2.5	2.1	4.5
103-104	9.9	16.6	6.9	5.1	3.5	5.5	3.5	2.9	5.5
104-105	9.7	13.8	4.6	3.4	1.4	6.3	4.4	4.7	6.2
105-106	7.7	11.3	1.8	3.2	1.1	5.8	5.1	5.3	7.6
106-107	4.8	10.0	0.8	3.0	0.6	5.3	7.5	6.6	7.2
107-108	9.6	8.4	0.9	2.0	0.4	4.7	8.9	10.1	7.8
108-109	18.6	4.3	2.1	0.9	0.3	5.9	7.2	9.6	8.2
109-110	8.1	1.6	7.0	1.3	0.7	6.6	8.2	8.2	5.4
110-111	0.4	0.6	5.1	2.8	4.4	8.2	8.1	8.2	3.3
111-112	0.1	0.1	0.8	7.4	7.9	10.3	8.4	9.7	3.5
112-113	0.0	0.1	0.2	5.3	10.8	10.1	8.1	7.4	2.3
113-114	0.0	0.1	0.3	5.9	18.3	10.7	6.3	6.2	1.8
114-115	0.0	0.1	0.5	7.0	13.0	8.8	5.8	6.6	1.6
115-116	0.0	0.0	0.9	6.8	6.6	6.7	4.3	5.8	1.3
116-117	0.0	0.0	2.0	3.3	3.8	1.7	3.7	3.0	2.1
117-118	0.0	0.0	4.8	2.6	2.7	0.4	2.6	1.9	3.4
118-119	0.0	0.0	6.1	1.9	1.4	0.1	1.1	0.6	7.5
119-120	0.0	0.0	3.2	1.2	2.2	0.1	0.3	0.1	10.4
120-121	0.0	0.0	1.2	1.1	0.3	0.0	0.3	0.0	2.5
121-122	0.0	0.0	0.3	0.6	0.5	0.0	0.1	0.0	1.4
122-123	0.0	0.0	0.3	0.5	0.2	0.0	0.1	0.0	1.2
123-124	0.0	0.0	0.6	0.7	0.3	0.0	0.0	0.0	0.2
124-125	0.0	0.0	0.6	0.0	0.1	0.0	0.0	0.0	0.0
125-126	0.0	0.0	0.7	0.0	0.2	0.0	0.0	0.0	0.0
126-127	0.0	0.0	0.9	0.0	0.3	0.0	0.0	0.0	0.0
127-128	0.0	0.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0
128-129	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0
129-130	0.0	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0
>130	0.0	0.0	1.9	0.0	0.0	0.0	0.0	0.0	0.0

Table 12. Percent distributions for the April-August 2003 hourly TDG data from the stations that were monitored seasonally.

% TDG	ANQW	PEKI	LEWI	LGS	LGSW	LMN	LMNW
<95	0.0	0.0	1.3	0.0	0.0	0.0	0.0
95-96	0.0	0.0	1.0	0.0	0.0	0.0	0.0
96-97	0.0	0.0	1.2	0.0	0.0	0.0	0.0
97-98	0.0	0.0	1.4	0.1	0.4	0.0	0.2
98-99	0.0	0.0	1.7	2.5	3.5	0.7	2.4
99-100	4.1	2.8	6.4	2.8	7.3	2.7	7.6
100-101	16.4	10.0	11.4	4.5	12.0	5.3	10.9
101-102	23.1	11.2	20.3	10.4	12.6	11.7	13.7
102-103	17.1	17.1	16.0	9.8	7.7	11.3	9.6
103-104	12.1	24.1	14.0	7.9	2.3	7.8	4.7
104-105	10.6	18.2	10.7	7.1	3.4	5.1	2.6
105-106	6.2	7.6	6.6	5.3	2.6	3.5	0.3
106-107	3.7	3.6	4.0	6.2	2.7	1.8	0.1
107-108	2.0	3.3	2.4	7.8	3.4	1.6	0.0
108-109	1.5	1.2	1.3	7.7	3.6	2.7	0.2
109-110	2.1	0.4	0.2	8.0	2.8	4.8	0.3
110-111	0.6	0.4	0.0	6.5	3.7	6.6	0.3
111-112	0.5	0.1	0.0	3.7	2.5	8.1	0.2
112-113	0.1	0.0	0.0	1.8	1.0	7.2	0.3
113-114	0.0	0.0	0.0	0.7	2.1	5.6	0.8
114-115	0.0	0.0	0.0	0.3	3.8	3.8	1.4
115-116	0.0	0.0	0.0	0.6	9.9	1.8	2.5
116-117	0.0	0.0	0.0	0.7	6.1	1.3	6.7
117-118	0.0	0.0	0.0	0.4	2.2	1.2	12.6
118-119	0.0	0.0	0.0	0.2	0.8	0.6	10.7
119-120	0.0	0.0	0.0	0.7	0.7	0.8	5.7
120-121	0.0	0.0	0.0	1.5	0.5	0.6	2.3
121-122	0.0	0.0	0.0	0.4	0.4	0.7	0.5
122-123	0.0	0.0	0.0	0.3	0.6	0.5	0.5
123-124	0.0	0.0	0.0	0.4	0.4	0.9	0.9
124-125	0.0	0.0	0.0	0.2	0.4	0.5	0.5
125-126	0.0	0.0	0.0	0.4	0.3	0.2	0.4
126-127	0.0	0.0	0.0	0.5	0.1	0.2	0.6
127-128	0.0	0.0	0.0	0.3	0.1	0.1	0.2
128-129	0.0	0.0	0.0	0.0	0.0	0.5	0.2
129-130	0.0	0.0	0.0	0.0	0.0	0.0	0.3
>130	0.0	0.0	0.0	0.0	0.0	0.0	0.1

Table 13. Differences in the hourly barometric pressures recorded at selected FMS sites.

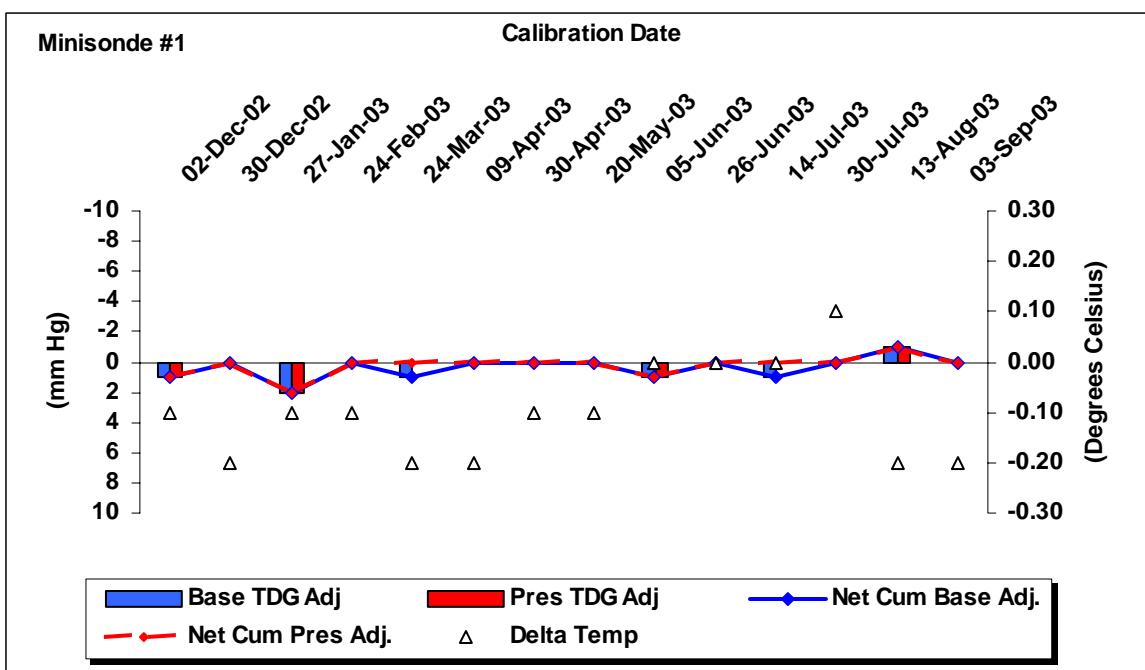
Project	Stations	Interval	Min	Max	Mean	SD
Lower Granite	LGNW – LWG	03/25/03 – 09/22/03	0.9	3.6	2.6	0.4
Little Goose	LGSW – LGS	03/25/03 – 09/22/03	2.5	4.0	3.2	0.2
Lower Monumental	LMNW – LMN	03/25/03 – 09/22/03	-23.6	9.5	-1.8	5.9
		03/25/03 – 06/19/03	-23.6	2.3	-6.2	4.9
		06/20/03 – 09/22/03	-6.1	9.5	2.2	3.3
Ice Harbor	IDSW – IHR	03/25/03 – 09/22/03	3.3	5.1	4.0	0.2
McNary	MCQW – MCQO	10/01/02 – 09/30/03	-1.0	1.1	0.1	0.3
	MCPW – MCQW	10/01/02 – 09/30/03	3.7	6.5	5.2	0.5

Table 14. Timing of tailwater and run-of-river FMS station rebuilds and upgrades.

STATION	INITIAL REBUILD DATE	DATE OF UPGRADE
Anatone	September 2002	
Dworshak	January 2003	September 2003
Peck	September 2002	
Lewiston	January 2003	September 2003
Lower Granite tailwater	September 2002	September 2003
Little Goose tailwater	September 2002	September 2003
Lower Monumental tailwater	September 2002	September 2003
Ice Harbor tailwater	September 2002	
Pasco	January 2003	September 2003
McNary tailwater	January 2003	

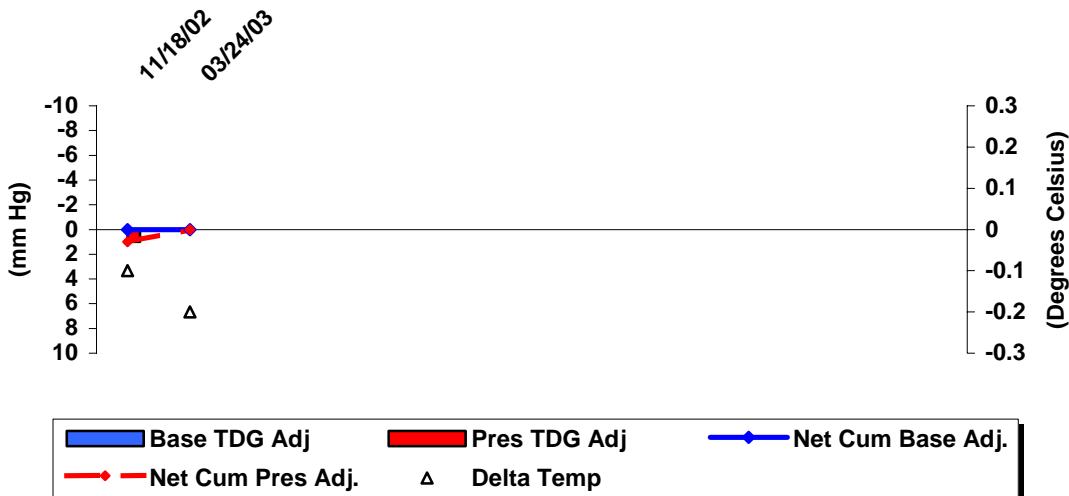
APPENDIX A

**Sonde-Specific Quality Assurance/Quality Control
Performance Charts
(HDR 2003)**



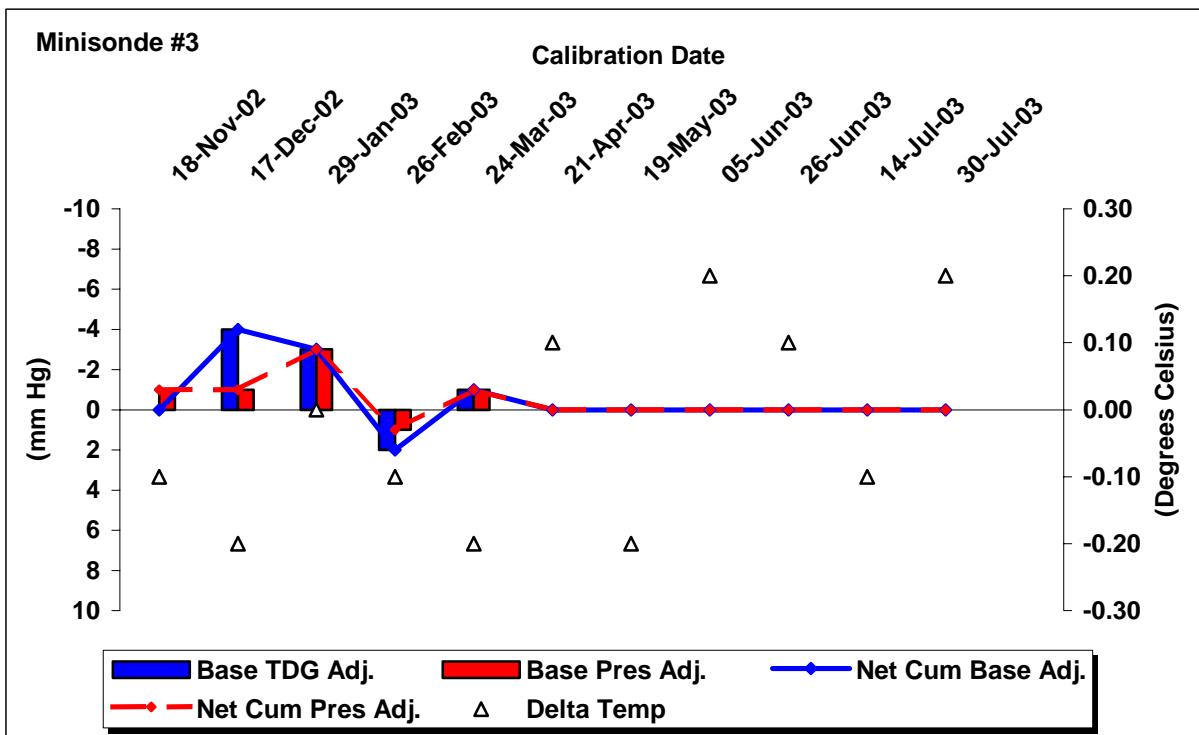
Calibration Date	Base TDG Adj.	Pres TDG Adj.	Net Cum Base Adj.	Net Cum Pres Adj.	Delta Temp
02-Dec-02	1	1	1	1	-0.10
30-Dec-02	0	0	0	0	-0.20
27-Jan-03	2	2	2	2	-0.10
24-Feb-03	0	0	0	0	-0.10
24-Mar-03	1	0	1	0	-0.20
09-Apr-03	0	0	0	0	-0.20
30-Apr-03	0	0	0	0	-0.10
20-May-03	0	0	0	0	-0.10
05-Jun-03	1	1	1	1	0.00
26-Jun-03	0	0	0	0	0.00
14-Jul-03	1	0	1	0	0.00
30-Jul-03	0	0	0	0	0.10
13-Aug-03	-1	-1	-1	-1	-0.20
03-Sep-03	0	0	0	0	-0.20

Status: This sonde is in good working condition and will continue to be active in the next quarter. It provided high quality data throughout the year and did not require any non-routine maintenance.

Minisonde #2**Calibration Date**

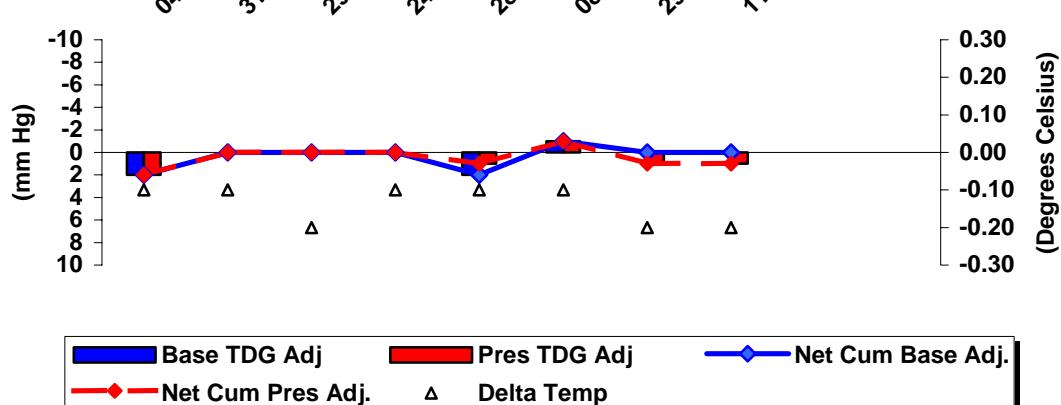
Calibration Date	Base TDG Adj	Pres TDG Adj	Net Cum Base Adj.	Net Cum Pres Adj.	Delta Temp
11/18/2002	0	1	0	1	-0.1
3/24/2003	0	0	0	0	-0.2

Status: Flooded. Will be used for spare parts.



Calibration Date	Base TDG Adj.	Base Pres Adj.	Net Cum Base Adj.	Net Cum Pres Adj.	Delta Temp
18-Nov-02	0	-1	0	-1	-0.10
17-Dec-02	-4	-1	-4	-1	-0.20
29-Jan-03	-3	-3	-3	-3	0.00
26-Feb-03	2	1	2	1	-0.10
24-Mar-03	-1	-1	-1	-1	-0.20
21-Apr-03	0	0	0	0	0.10
19-May-03	0	0	0	0	-0.20
05-Jun-03	0	0	0	0	0.20
26-Jun-03	0	0	0	0	0.10
14-Jul-03	0	0	0	0	-0.10
30-Jul-03	0	0	0	0	0.20

Status: This sonde has a bad depth sensor and was used for spare parts.

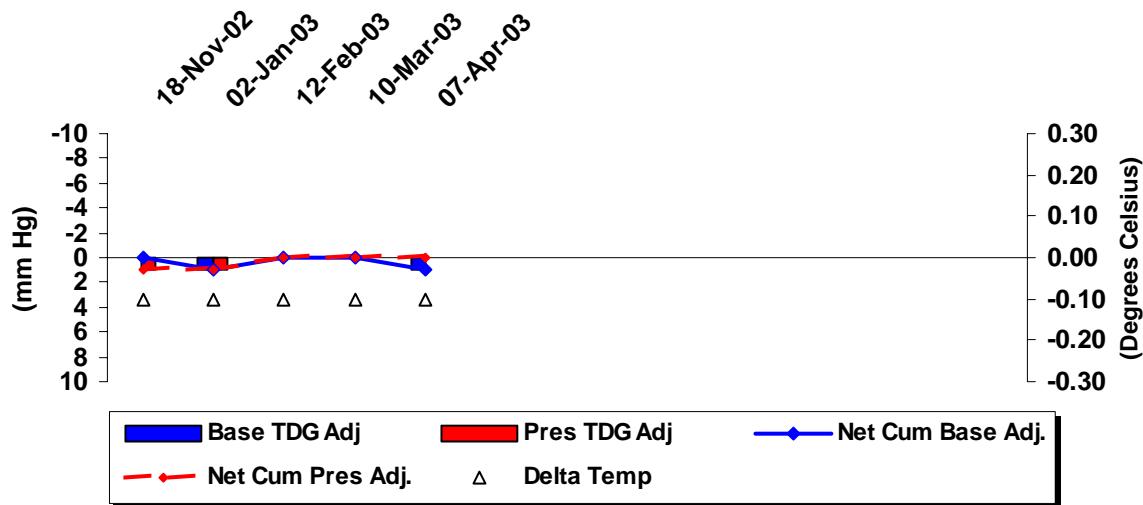
Minisonde #4**Calibration Date**

Calibration Date	Base TDG Adj	Pres TDG Adj	Net Cum Base Adj.	Net Cum Pres Adj.	Delta Temp
04-Dec-02	2	2	2	2	-0.10
31-Dec-02	0	0	0	0	-0.10
29-Jan-03	0	0	0	0	-0.20
24-Mar-03	0	0	0	0	-0.10
28-Apr-03	2	1	2	1	-0.10
08-May-03	-1	-1	-1	-1	-0.10
29-May-03	0	1	0	1	-0.20
11-Jun-03	0	1	0	1	-0.20

Status: U.S. Army Corps of Engineers (COE) has had this sonde since June.

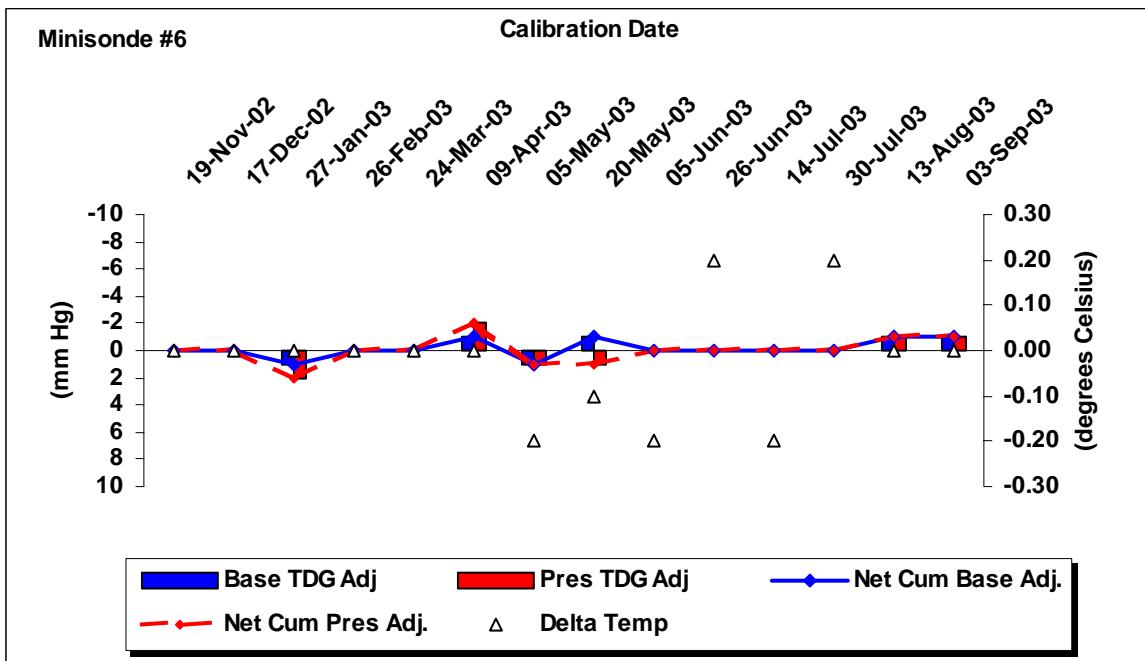
Minisonde #5

Calibration Date



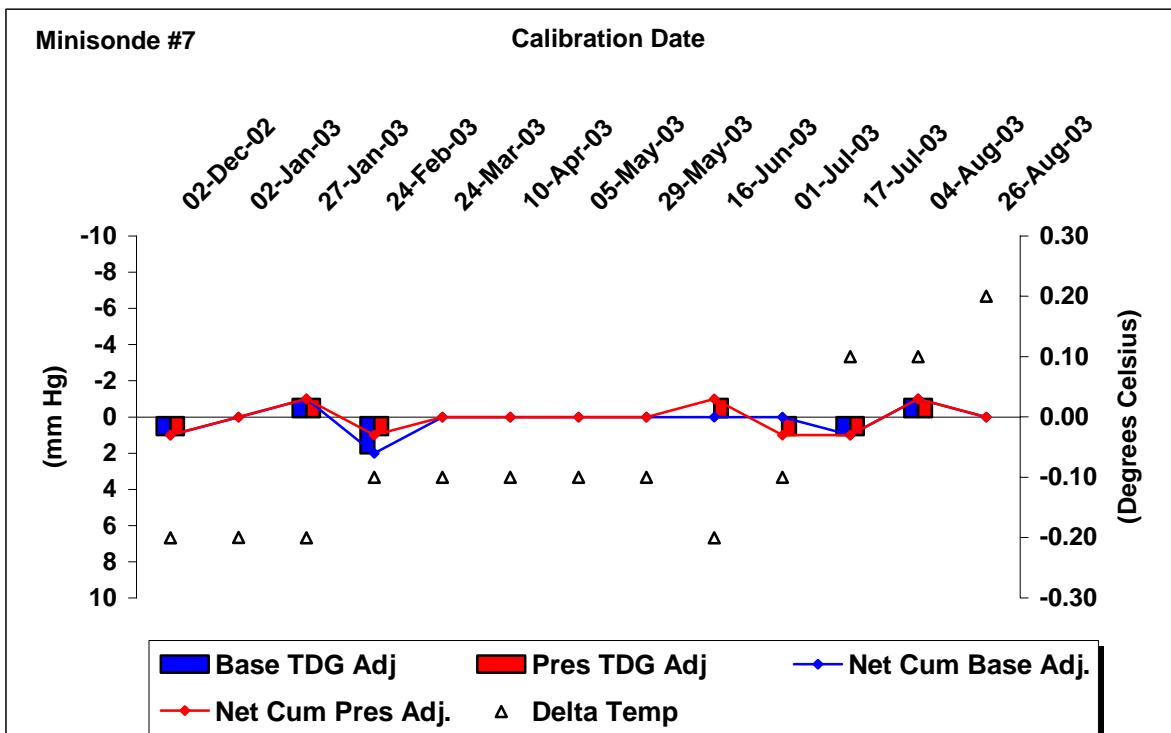
Calibration Date	Base TDG Adj	Pres TDG Adj	Net Cum Base Adj.	Net Cum Pres Adj.	Delta Temp
18-Nov-02	0	1	0	1	-0.10
02-Jan-03	1	1	1	1	-0.10
12-Feb-03	0	0	0	0	-0.10
10-Mar-03	0	0	0	0	-0.10
07-Apr-03	1	0	1	0	-0.10

Status: This sonde is down with a bad TDG Sensor.



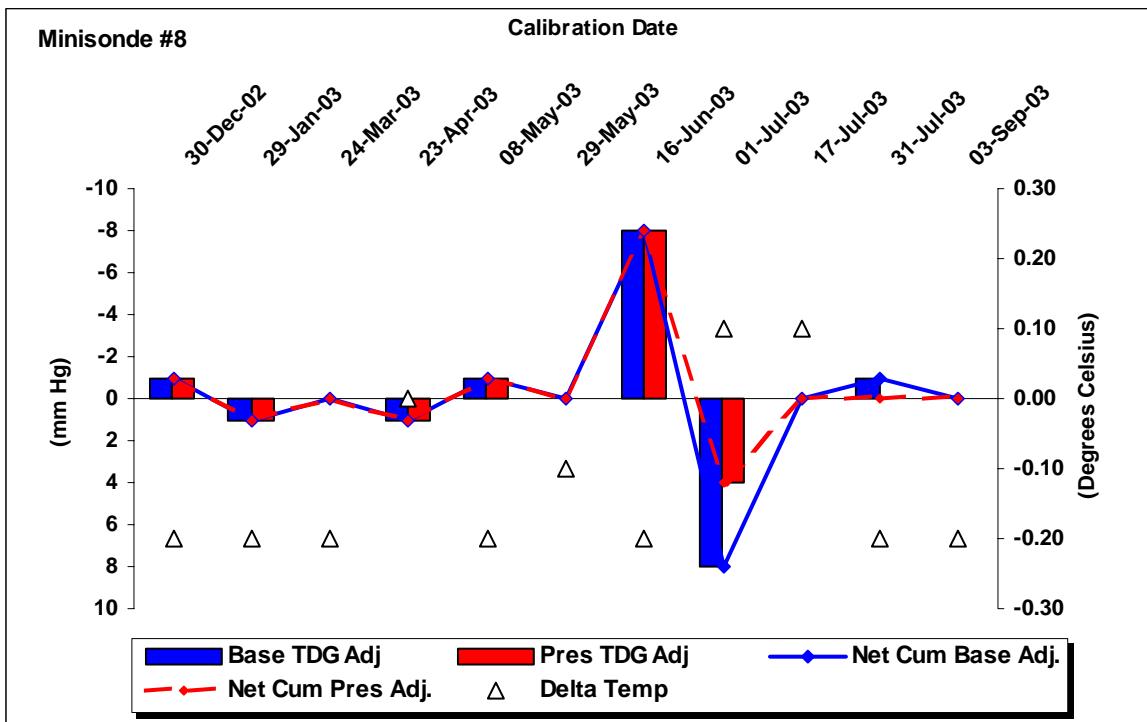
Calibration Date	Base TDG Adj	Pres TDG Adj	Net Cum Base Adj.	Net Cum Pres Adj.	Delta Temp
19-Nov-02	0	0	0	0	0.00
17-Dec-02	0	0	0	0	0.00
27-Jan-03	1	2	1	2	0.00
26-Feb-03	0	0	0	0	0.00
24-Mar-03	0	0	0	0	0.00
09-Apr-03	-1	-2	-1	-2	0.00
05-May-03	1	1	1	1	-0.20
20-May-03	-1	1	-1	1	-0.10
05-Jun-03	0	0	0	0	-0.20
26-Jun-03	0	0	0	0	0.20
14-Jul-03	0	0	0	0	-0.20
30-Jul-03	0	0	0	0	0.20
13-Aug-03	-1	-1	-1	-1	0.00
03-Sep-03	-1	-1	-1	-1	0.00

Status: This sonde is in good working condition and will continue to be active in the next quarter. It provided high quality data throughout the year and did not require any non-routine maintenance.



Calibration Date	Base TDG Adj	Pres TDG Adj	Net Cum Base Adj.	Net Cum Pres Adj.	Delta Temp
02-Dec-02	1	1	1	1	-0.20
02-Jan-03	0	0	0	0	-0.20
27-Jan-03	-1	-1	-1	-1	-0.20
24-Feb-03	2	1	2	1	-0.10
24-Mar-03	0	0	0	0	-0.10
10-Apr-03	0	0	0	0	-0.10
05-May-03	0	0	0	0	-0.10
29-May-03	0	0	0	0	-0.10
16-Jun-03	0	-1	0	-1	-0.20
01-Jul-03	0	1	0	1	-0.10
17-Jul-03	1	1	1	1	0.10
04-Aug-03	-1	-1	-1	-1	0.10
26-Aug-03	0	0	0	0	0.20

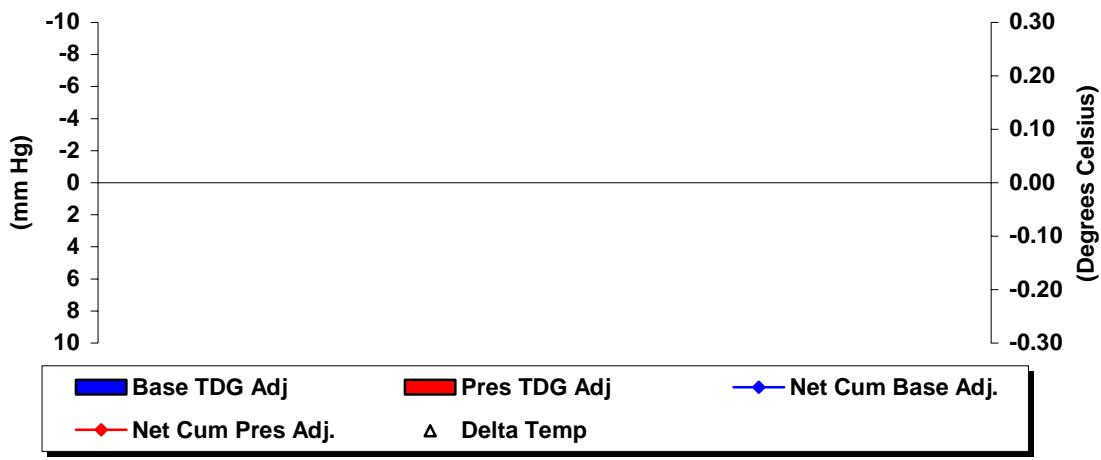
Status: This sonde is in good working condition and will continue to be active in the next quarter. It provided high quality data throughout the year and did not require any non-routine maintenance



Calibration Date	Base TDG Adj	Pres TDG Adj	Net Cum Base Adj.	Net Cum Pres Adj.	Delta Temp
30-Dec-02	-1	-1	-1	-1	-0.20
29-Jan-03	1	1	1	1	-0.20
24-Mar-03	0	0	0	0	-0.20
23-Apr-03	1	1	1	1	0.00
08-May-03	-1	-1	-1	-1	-0.20
29-May-03	0	0	0	0	-0.10
16-Jun-03	-8	-8	-8	-8	-0.20
01-Jul-03	8	4	8	4	0.10
17-Jul-03	0	0	0	0	0.10
31-Jul-03	-1	0	-1	0	-0.20
03-Sep-03	0	0	0	0	-0.20

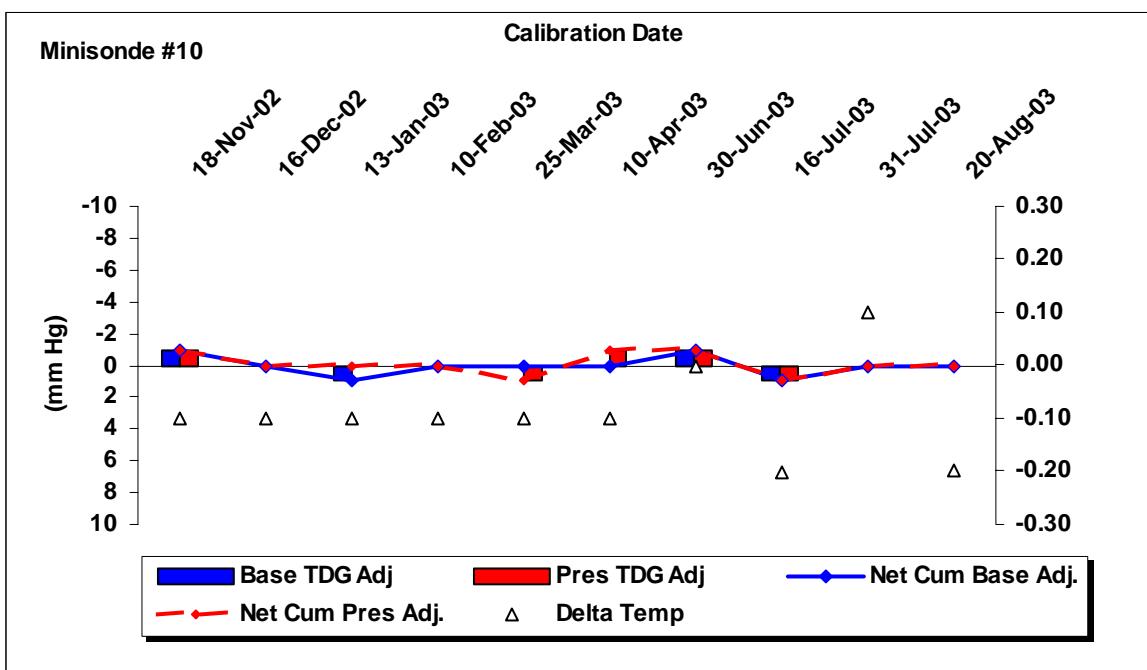
Blue - Outlying Data Point

Status: Was down with DO sensor problems. The DO sensor was repaired and was reactivated and is working fine.

Minisonde #9**Calibration Date**

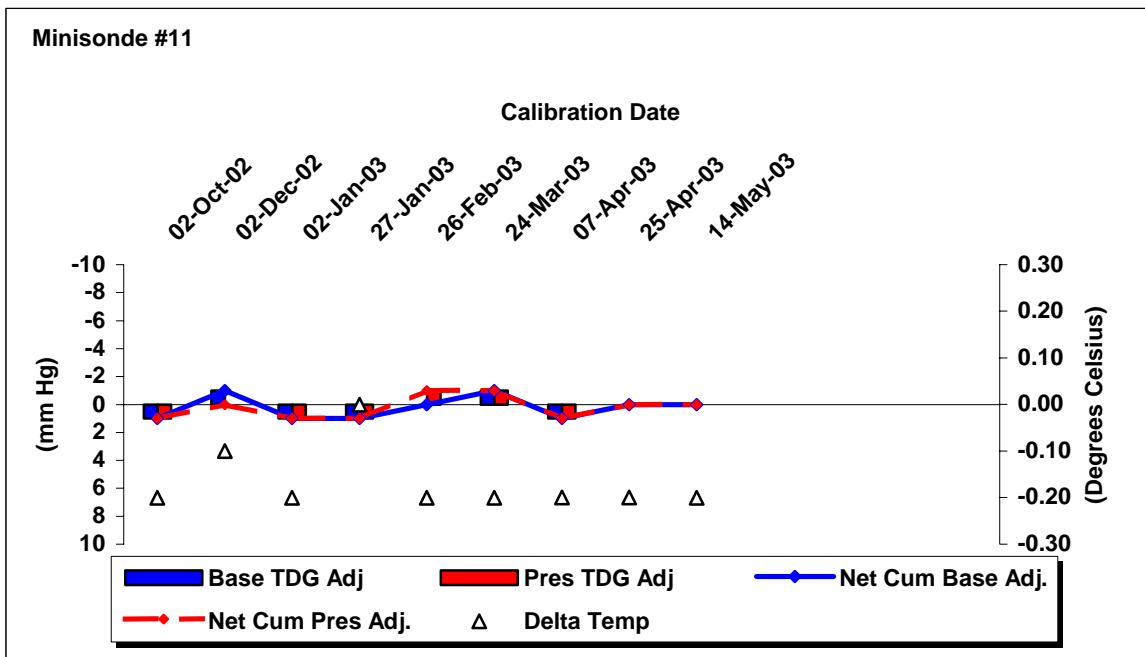
Calibration Date	Base TDG Adj	Pres TDG Adj	Net Cum Base Adj.	Net Cum Pres Adj.	Delta Temp

Status: Spare Parts



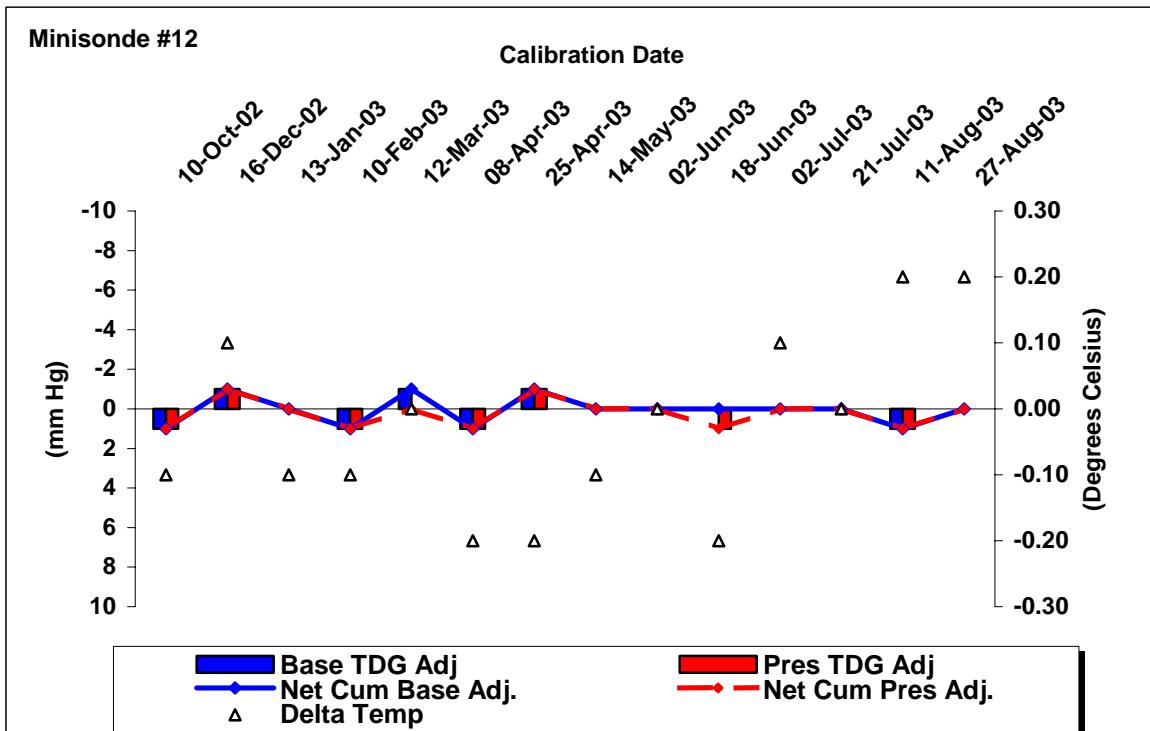
Calibration Date	Base TDG Adj	Pres TDG Adj	Net Cum Base Adj.	Net Cum Pres Adj.	Delta Temp
18-Nov-02	-1	-1	-1	-1	-0.10
16-Dec-02	0	0	0	0	-0.10
13-Jan-03	1	0	1	0	-0.10
10-Feb-03	0	0	0	0	-0.10
25-Mar-03	0	1	0	1	-0.10
10-Apr-03	0	-1	0	-1	-0.10
30-Jun-03	-1	-1	-1	-1	0.00
16-Jul-03	1	1	1	1	-0.20
31-Jul-03	0	0	0	0	0.10
20-Aug-03	0	0	0	0	-0.20

Status: This sonde is in good working condition and will continue to be active in the next quarter. It provided high quality data throughout the year and did not require any non-routine maintenance.



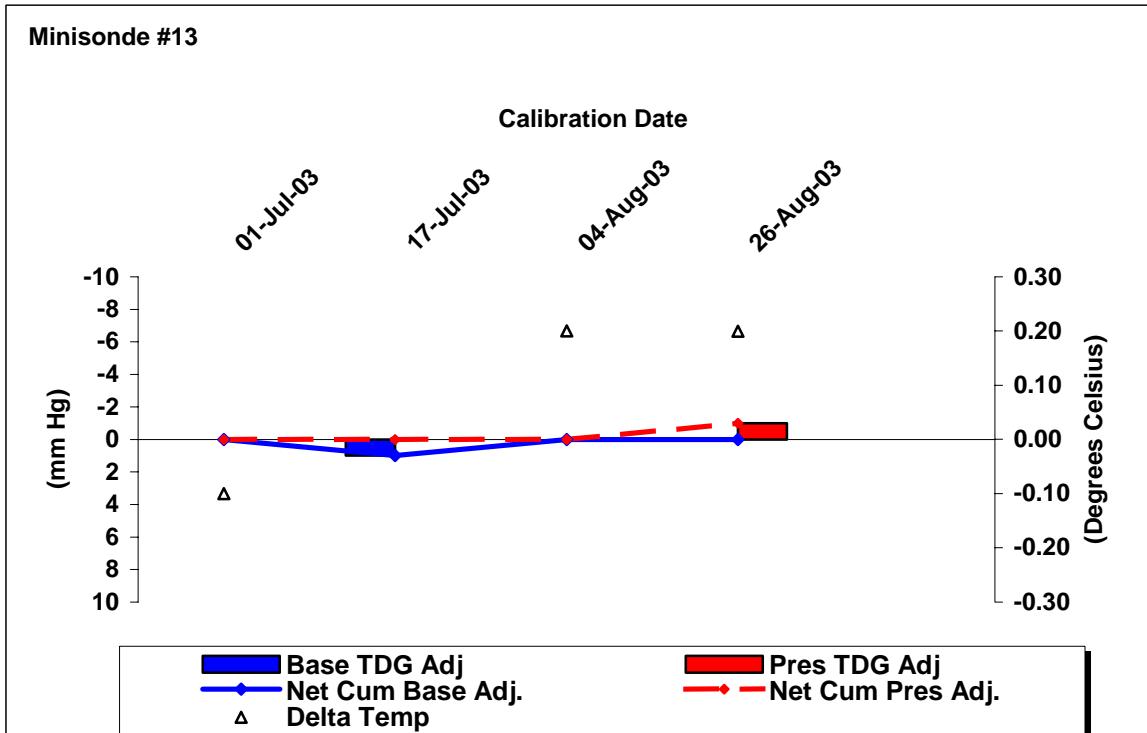
Calibration Date	Base TDG Adj	Pres TDG Adj	Net Cum Base Adj.	Net Cum Pres Adj.	Delta Temp
02-Oct-02	1	1	1	1	-0.20
02-Dec-02	-1	0	-1	0	-0.10
02-Jan-03	1	1	1	1	-0.20
27-Jan-03	1	1	1	1	0.00
26-Feb-03	0	-1	0	-1	-0.20
24-Mar-03	-1	-1	-1	-1	-0.20
07-Apr-03	1	1	1	1	-0.20
25-Apr-03	0	0	0	0	-0.20
14-May-03	0	0	0	0	-0.20

Status: This sonde is down due to that the Surveyor 4's will not fire up the sonde.



Calibration Date	Base TDG Adj	Pres TDG Adj	Net Cum Base Adj.	Net Cum Pres Adj.	Delta Temp
10-Oct-02	1	1	1	1	-0.10
16-Dec-02	-1	-1	-1	-1	0.10
13-Jan-03	0	0	0	0	-0.10
10-Feb-03	1	1	1	1	-0.10
12-Mar-03	-1	0	-1	0	0.00
08-Apr-03	1	1	1	1	-0.20
25-Apr-03	-1	-1	-1	-1	-0.20
14-May-03	0	0	0	0	-0.10
02-Jun-03	0	0	0	0	0.00
18-Jun-03	0	1	0	1	-0.20
02-Jul-03	0	0	0	0	0.10
21-Jul-03	0	0	0	0	0.00
11-Aug-03	1	1	1	1	0.20
27-Aug-03	0	0	0	0	0.20

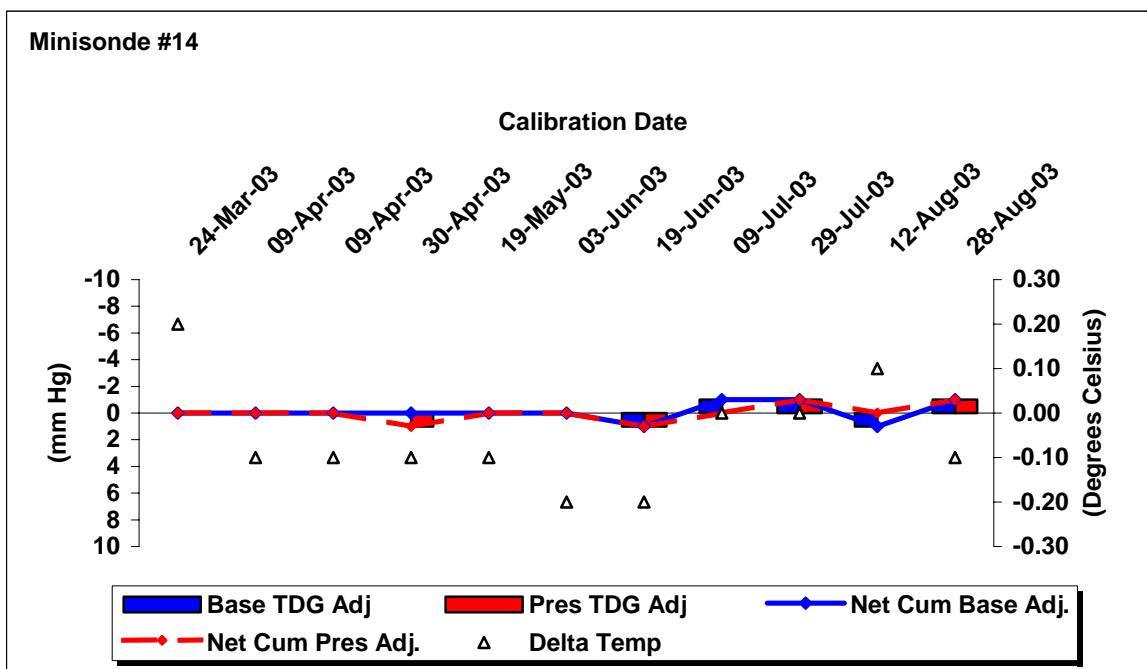
Status: This sonde is in good working condition and will continue to be active in the next quarter. It provided high quality data throughout the year and did not require any non-routine maintenance.

Minisonde #13

Calibration Date	Base TDG Adj	Pres TDG Adj	Net Cum Base Adj.	Net Cum Pres Adj.	Delta Temp
01-Jul-03	0	0	0	0	-0.10
17-Jul-03	1	0	1	0	1.00
04-Aug-03	0	0	0	0	0.20
26-Aug-03	0	-1	0	-1	0.20

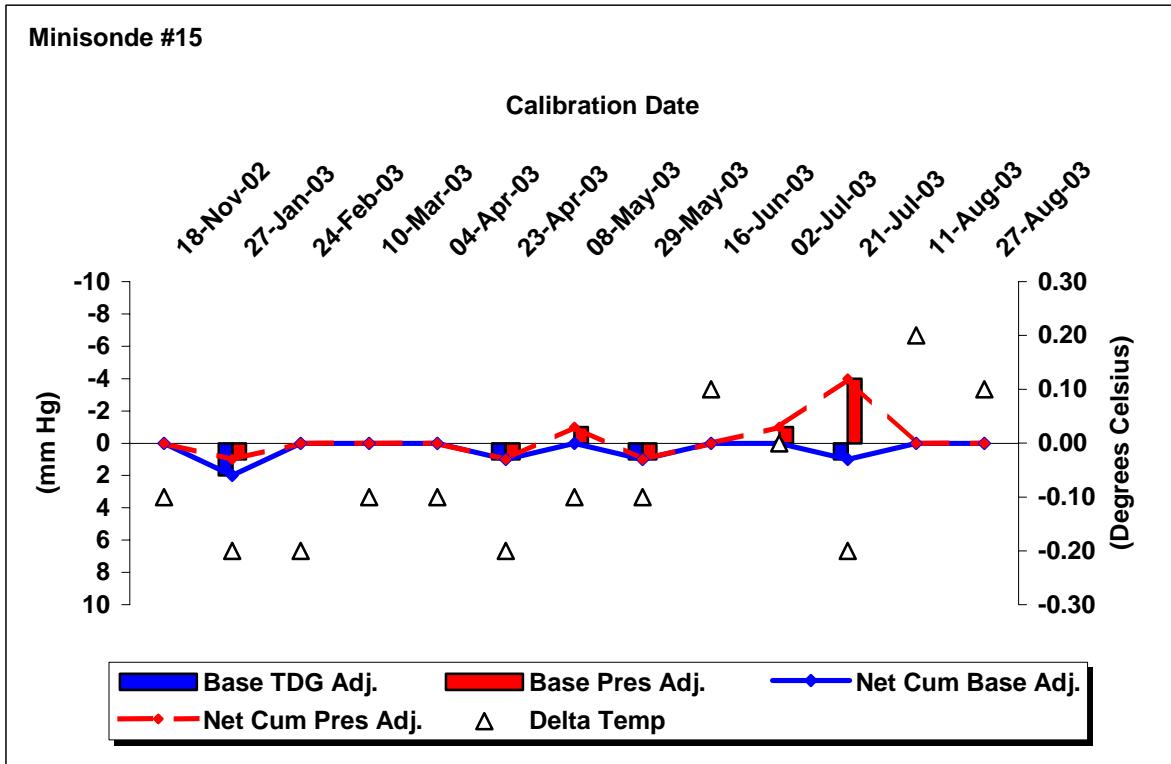
Status: This sonde was swapped with number four and is in good working order

Minisonde #14



Calibration Date	Base TDG Adj	Pres TDG Adj	Net Cum Base Adj.	Net Cum Pres Adj.	Delta Temp
24-Mar-03	0	0	0	0	0.20
09-Apr-03	0	0	0	0	-0.10
09-Apr-03	0	0	0	0	-0.10
30-Apr-03	0	1	0	1	-0.10
19-May-03	0	0	0	0	-0.10
03-Jun-03	0	0	0	0	-0.20
19-Jun-03	1	1	1	1	-0.20
09-Jul-03	-1	0	-1	0	0.00
29-Jul-03	-1	-1	-1	-1	0.00
12-Aug-03	1	0	1	0	0.10
28-Aug-03	-1	-1	-1	-1	-0.10

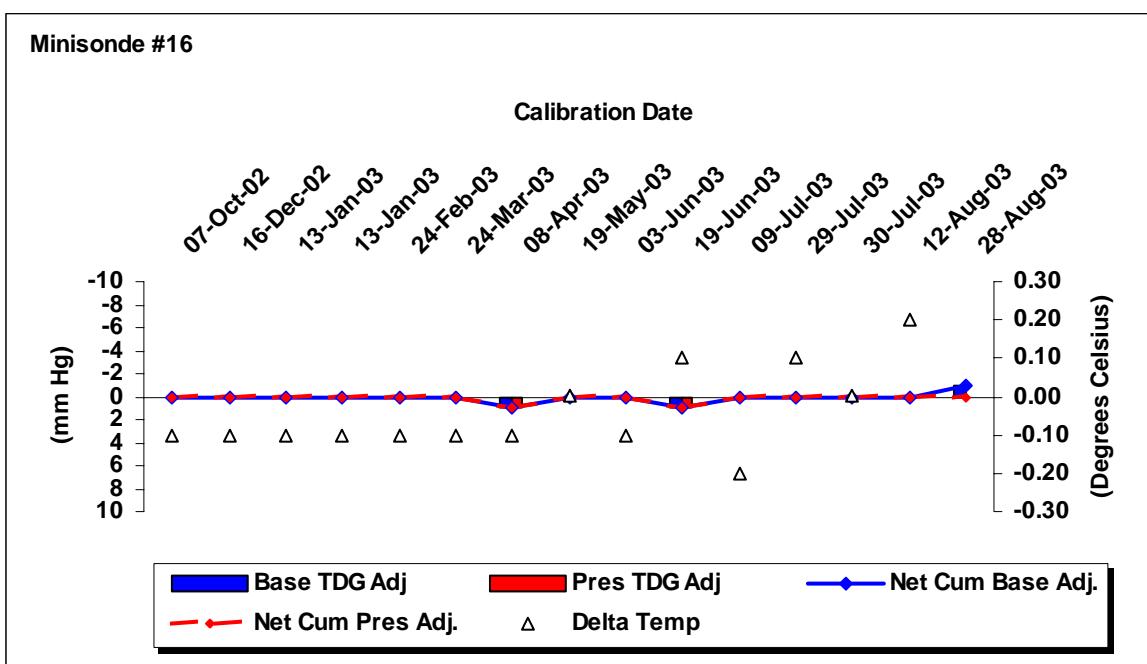
Status: This sonde is in good working condition and will continue to be active in the next quarter. It provided high quality data throughout the year and did not require any non-routine maintenance.



Calibration Date	Base TDG Adj.	Base Pres Adj.	Net Cum Base Adj.	Net Cum Pres Adj.	Delta Temp
18-Nov-02	0	0	0	0	-0.10
27-Jan-03	2	1	2	1	-0.20
24-Feb-03	0	0	0	0	-0.20
10-Mar-03	0	0	0	0	-0.10
04-Apr-03	0	0	0	0	-0.10
23-Apr-03	1	1	1	1	-0.20
08-May-03	0	-1	0	-1	-0.10
29-May-03	1	1	1	1	-0.10
16-Jun-03	0	0	0	0	0.10
02-Jul-03	0	-1	0	-1	0.00
21-Jul-03	1	-4	1	-4	-0.20
11-Aug-03	0	0	0	0	0.20
27-Aug-03	0	0	0	0	0.10

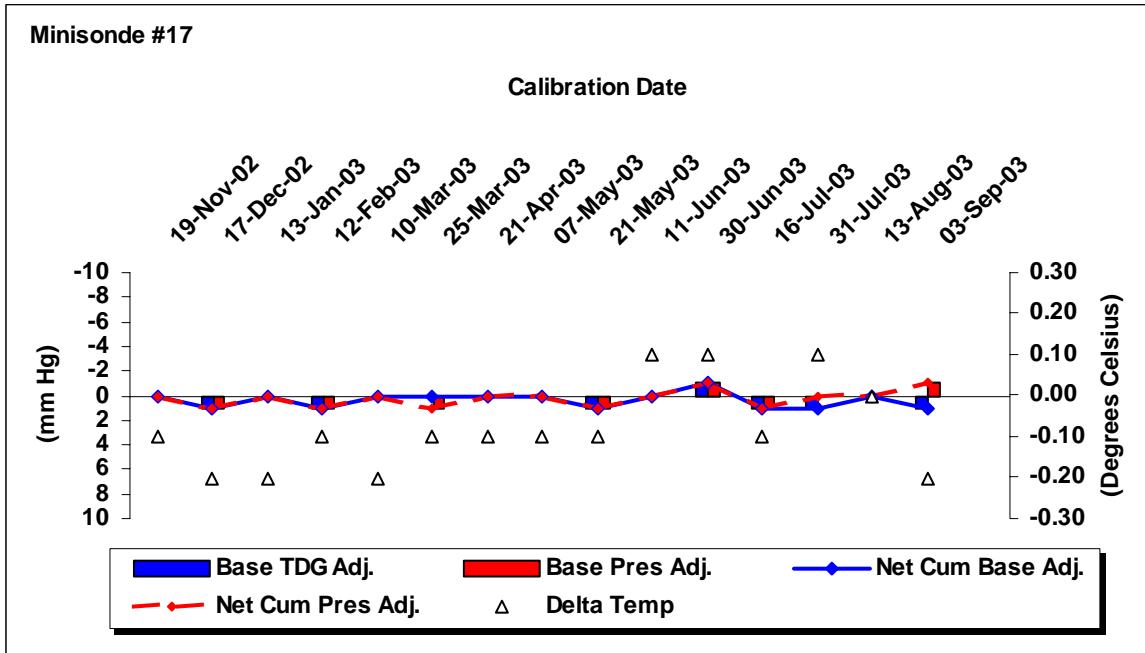
Status: This sonde is in good working condition and will continue to be active in the next quarter. It provided high quality data throughout the year and did not require any non-routine maintenance.

Minisonde #16



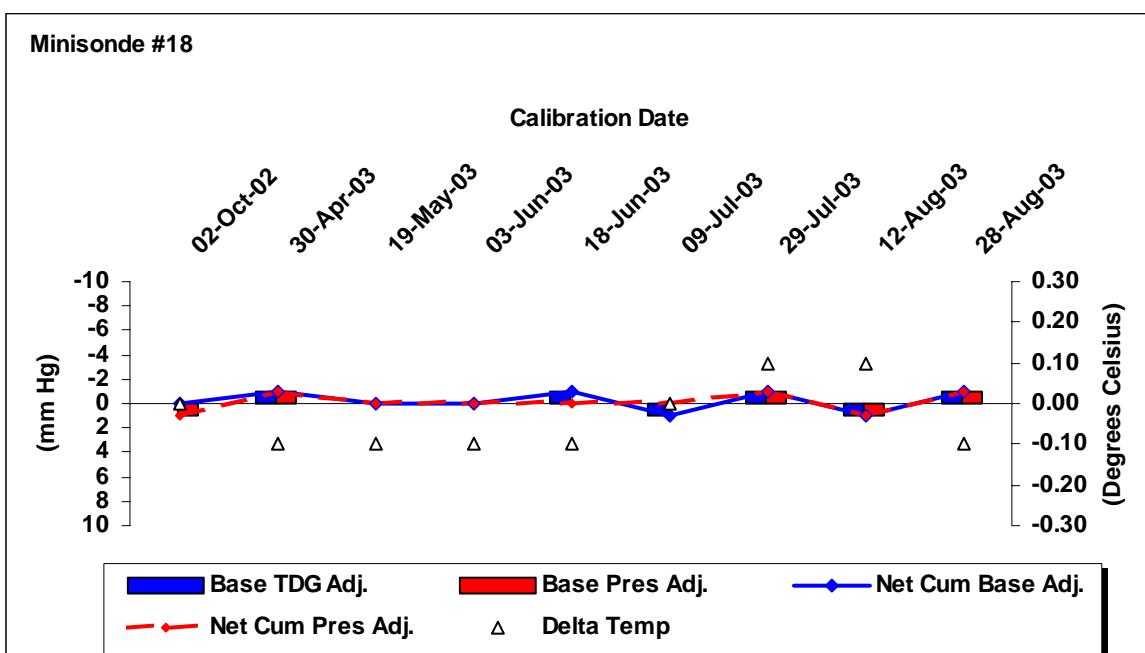
Calibration Date	Base TDG Adj	Pres TDG Adj	Net Cum Base Adj.	Net Cum Pres Adj.	Delta Temp
07-Oct-02	0	0	0	0	-0.10
16-Dec-02	0	0	0	0	-0.10
13-Jan-03	0	0	0	0	-0.10
13-Jan-03	0	0	0	0	-0.10
24-Feb-03	0	0	0	0	-0.10
24-Mar-03	0	0	0	0	-0.10
08-Apr-03	1	1	1	1	-0.10
19-May-03	0	0	0	0	0.00
03-Jun-03	0	0	0	0	-0.10
19-Jun-03	1	1	1	1	0.10
09-Jul-03	0	0	0	0	-0.20
29-Jul-03	0	0	0	0	0.10
30-Jul-03	0	0	0	0	0.00
12-Aug-03	0	0	0	0	0.20
28-Aug-03	-1	0	-1	0	0.40

Status: This sonde is in good working condition and will continue to be active in the next quarter. It provided high quality data throughout the year and did not require any non-routine maintenance.



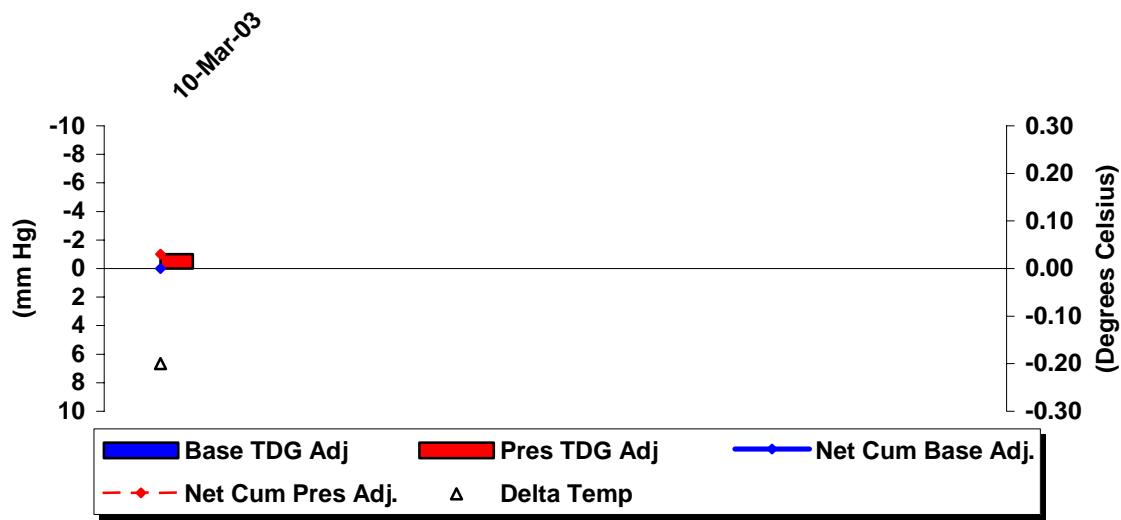
Calibration Date	Base TDG Adj.	Base Pres Adj.	Net Cum Base Adj.	Net Cum Pres Adj.	Delta Temp
19-Nov-02	0	0	0	0	-0.10
17-Dec-02	1	1	1	1	-0.20
13-Jan-03	0	0	0	0	-0.20
12-Feb-03	1	1	1	1	-0.10
10-Mar-03	0	0	0	0	-0.20
25-Mar-03	0	1	0	1	-0.10
21-Apr-03	0	0	0	0	-0.10
07-May-03	0	0	0	0	-0.10
21-May-03	1	1	1	1	-0.10
11-Jun-03	0	0	0	0	0.10
30-Jun-03	-1	-1	-1	-1	0.10
16-Jul-03	1	1	1	1	-0.10
31-Jul-03	1	0	1	0	0.10
13-Aug-03	0	0	0	0	
03-Sep-03	1	-1	1	-1	-0.20

Status: This sonde is in good working condition and will continue to be active in the next quarter. It provided high quality data throughout the year and did not require any non-routine maintenance. Missing data on August 13, 2003, is due to being swapped in the field.



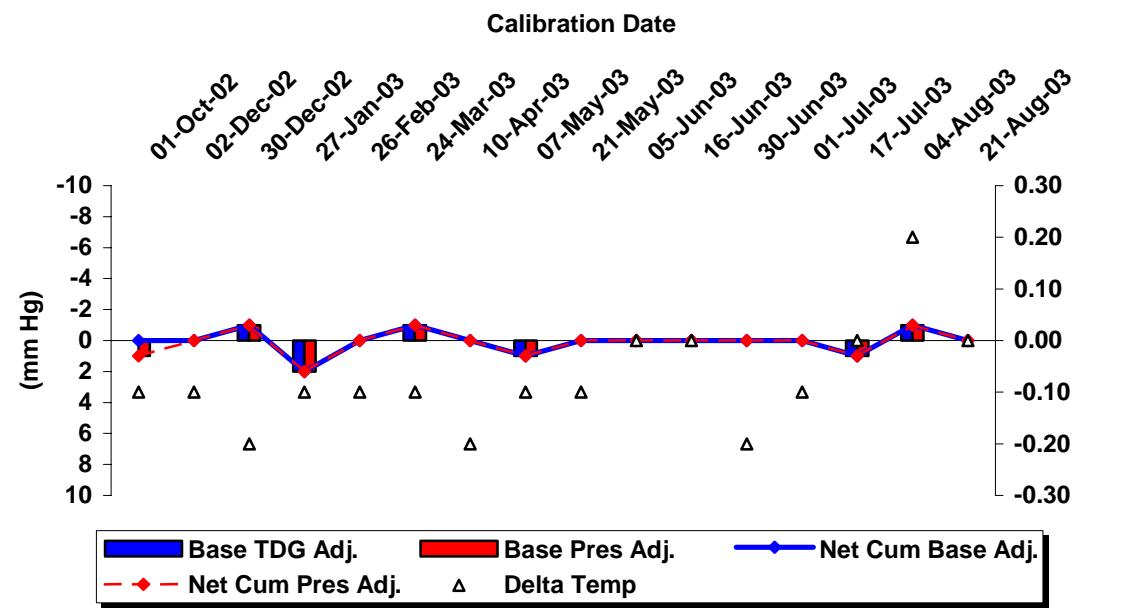
Calibration Date	Base TDG Adj.	Base Pres Adj.	Net Cum Base Adj.	Net Cum Pres Adj.	Delta Temp
02-Oct-02	0	1	0	1	0.00
30-Apr-03	-1	-1	-1	-1	-0.10
19-May-03	0	0	0	0	-0.10
03-Jun-03	0	0	0	0	-0.10
18-Jun-03	-1	0	-1	0	-0.10
09-Jul-03	1	0	1	0	0.00
29-Jul-03	-1	-1	-1	-1	0.10
12-Aug-03	1	1	1	1	0.10
28-Aug-03	-1	-1	-1	-1	-0.10

Status: This sonde is in good working condition and will continue to be active in the next quarter. It provided high quality data throughout the year and did not require any non-routine maintenance.

Minisonde #19**Calibration Date**

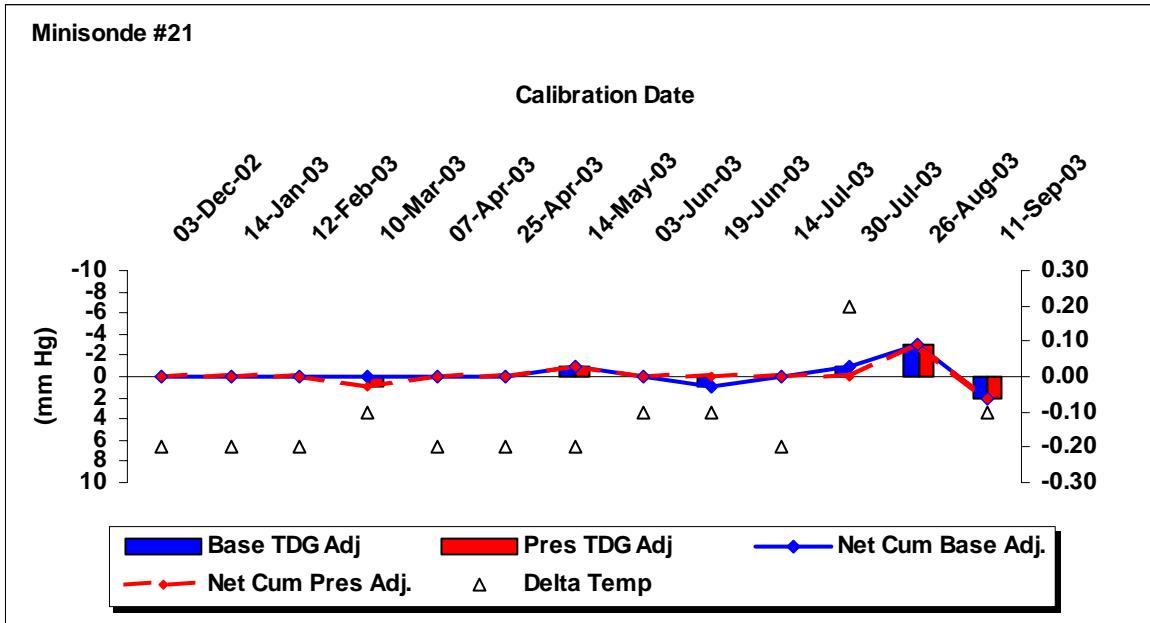
Calibration Date	Base TDG Adj	Pres TDG Adj	Net Cum Base Adj.	Net Cum Pres Adj.	Delta Temp
10-Mar-03	0	-1	0	-1	-0.20

Status: Temperature sensor was replaced with one from spare parts, but is now down due to a bad electrical connection.

Minisonde #20


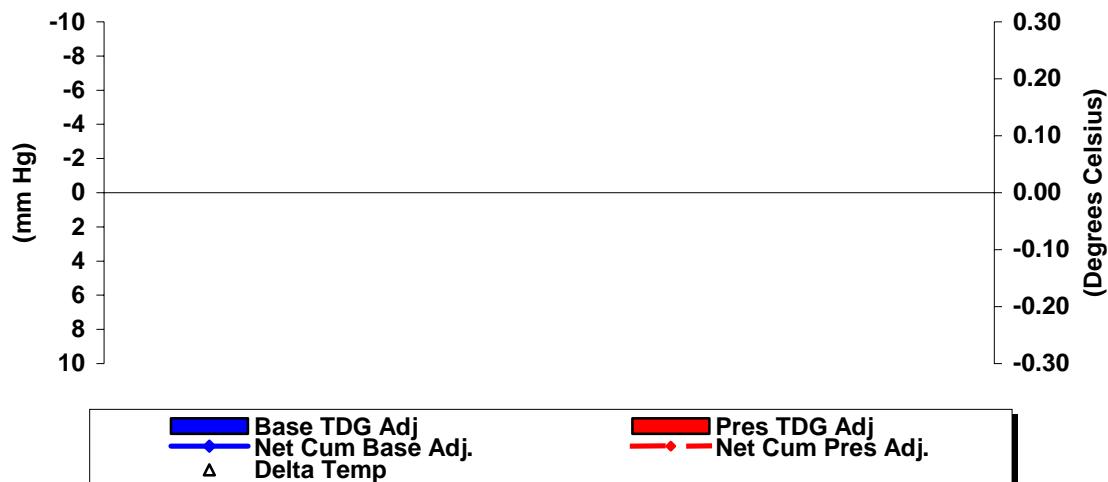
Calibration Date	Base TDG Adj.	Base Pres Adj.	Net Cum Base Adj.	Net Cum Pres Adj.	Delta Temp
01-Oct-02	0	1	0	1	-0.10
02-Dec-02	0	0	0	0	-0.10
30-Dec-02	-1	-1	-1	-1	-0.20
27-Jan-03	2	2	2	2	-0.10
26-Feb-03	0	0	0	0	-0.10
24-Mar-03	-1	-1	-1	-1	-0.10
10-Apr-03	0	0	0	0	-0.20
07-May-03	1	1	1	1	-0.10
21-May-03	0	0	0	0	-0.10
05-Jun-03	0	0	0	0	0.00
16-Jun-03	0	0	0	0	0.00
30-Jun-03	0	0	0	0	-0.20
01-Jul-03	0	0	0	0	-0.10
17-Jul-03	1	1	1	1	0.00
04-Aug-03	-1	-1	-1	-1	0.20
21-Aug-03	0	0	0	0	0.00

Status: This sonde is in good working condition and will continue to be active in the next quarter. It provided high quality data throughout the year and did not require any non-routine maintenance. Missing data on June 5, 2003, and August 21, 2003, is due to being swapped in the field.



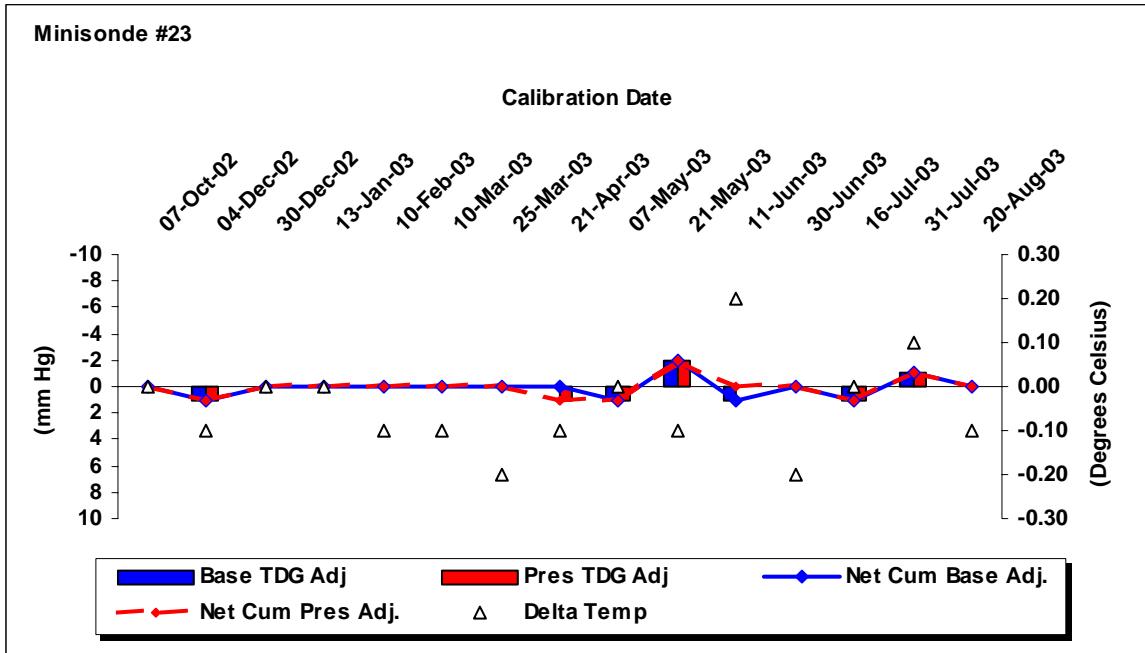
Calibration Date	Base TDG Adj	Pres TDG Adj	Net Cum Base Adj.	Net Cum Pres Adj.	Delta Temp
03-Dec-02	0	0	0	0	-0.20
14-Jan-03	0	0	0	0	-0.20
12-Feb-03	0	0	0	0	-0.20
10-Mar-03	0	1	0	1	-0.10
07-Apr-03	0	0	0	0	-0.20
25-Apr-03	0	0	0	0	-0.20
14-May-03	-1	-1	-1	-1	-0.20
03-Jun-03	0	0	0	0	-0.10
19-Jun-03	1	0	1	0	-0.10
14-Jul-03	0	0	0	0	-0.20
30-Jul-03	-1	0	-1	0	0.20
26-Aug-03	-3	-3	-3	-3	-1.20
11-Sep-03	2	2	2	2	-0.10

Status: This sonde is in good working condition and will continue to be active in the next quarter. It provided high quality data throughout the year and did not require any non-routine maintenance.

Minisonde #22**Calibration Date**

Calibration Date	Base TDG Adj	Pres TDG Adj	Net Cum Base Adj.	Net Cum Pres Adj.	Delta Temp
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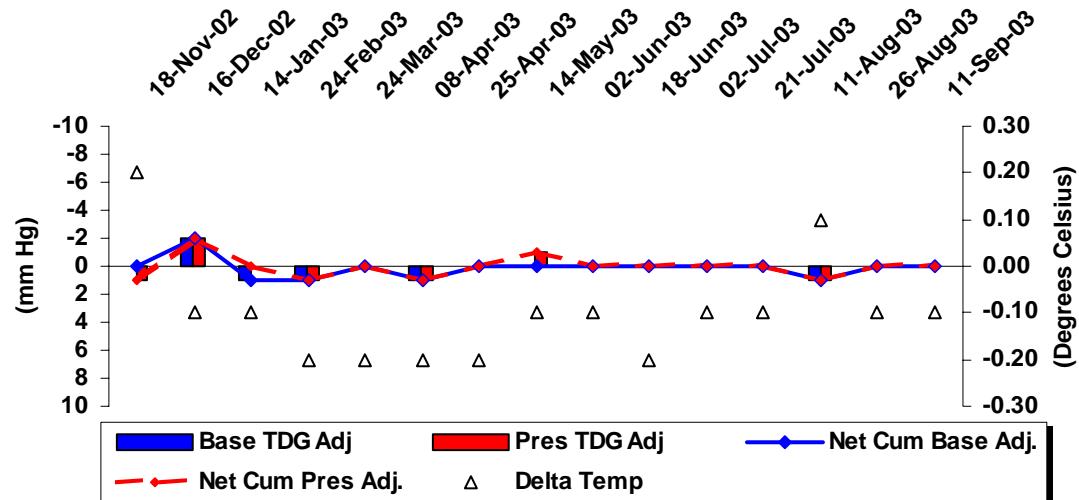
Status: Spare Parts



Calibration Date	Base TDG Adj	Pres TDG Adj	Net Cum Base Adj.	Net Cum Pres Adj.	Delta Temp
07-Oct-02	0	0	0	0	0.00
04-Dec-02	1	1	1	1	-0.10
30-Dec-02	0	0	0	0	0.00
13-Jan-03	0	0	0	0	0.00
10-Feb-03	0	0	0	0	-0.10
25-Mar-03	0	0	0	0	-0.20
21-Apr-03	0	1	0	1	-0.10
07-May-03	1	1	1	1	0.00
21-May-03	-2	-2	-2	-2	-0.10
11-Jun-03	1	0	1	0	0.20
30-Jun-03	0	0	0	0	-0.20
16-Jul-03	1	1	1	1	0.00
31-Jul-03	-1	-1	-1	-1	0.10
20-Aug-03	0	0	0	0	-0.10

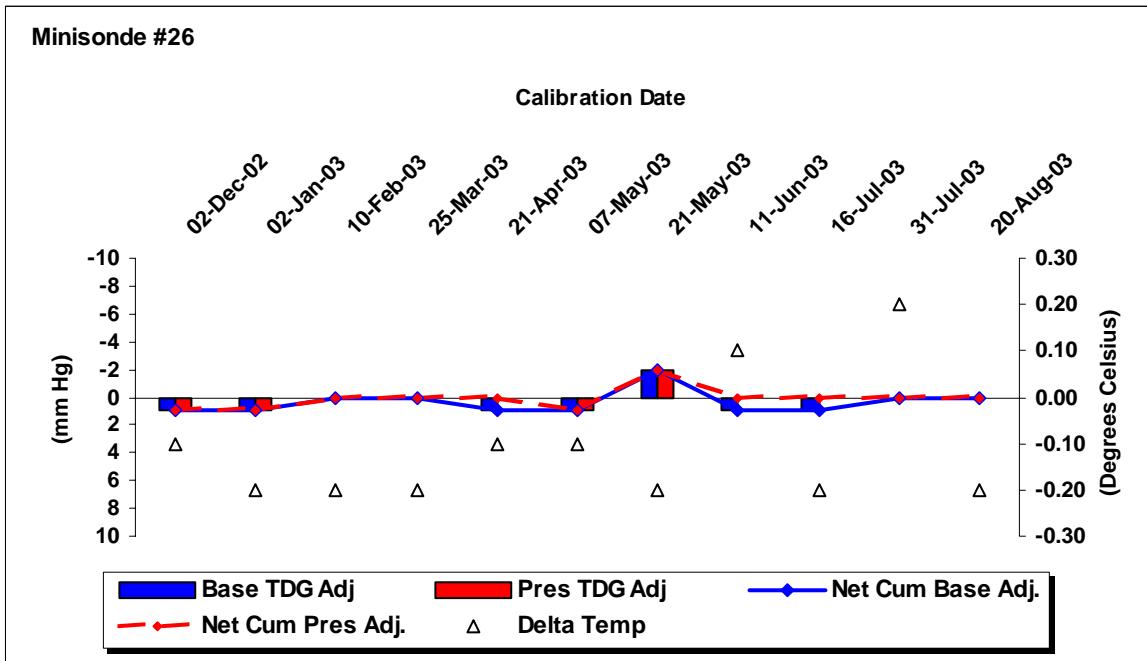
Status: This sonde is in good working condition and will continue to be active in the next quarter. It provided high quality data throughout the year and did not require any non-routine maintenance.

Instrument number 24 has been excessed.

Minisonde #25**Calibration Date**

Calibration Date	Base TDG Adj	Pres TDG Adj	Net Cum Base Adj.	Net Cum Pres Adj.	Delta Temp
18-Nov-02	0	1	0	1	0.20
16-Dec-02	-2	-2	-2	-2	-0.10
14-Jan-03	1	0	1	0	-0.10
24-Feb-03	1	1	1	1	-0.20
24-Mar-03	0	0	0	0	-0.20
08-Apr-03	1	1	1	1	-0.20
25-Apr-03	0	0	0	0	-0.20
14-May-03	0	-1	0	-1	-0.10
02-Jun-03	0	0	0	0	-0.10
18-Jun-03	0	0	0	0	-0.20
02-Jul-03	0	0	0	0	-0.10
21-Jul-03	0	0	0	0	-0.10
11-Aug-03	1	1	1	1	0.10
26-Aug-03	0	0	0	0	-0.10
11-Sep-03	0	0	0	0	-0.10

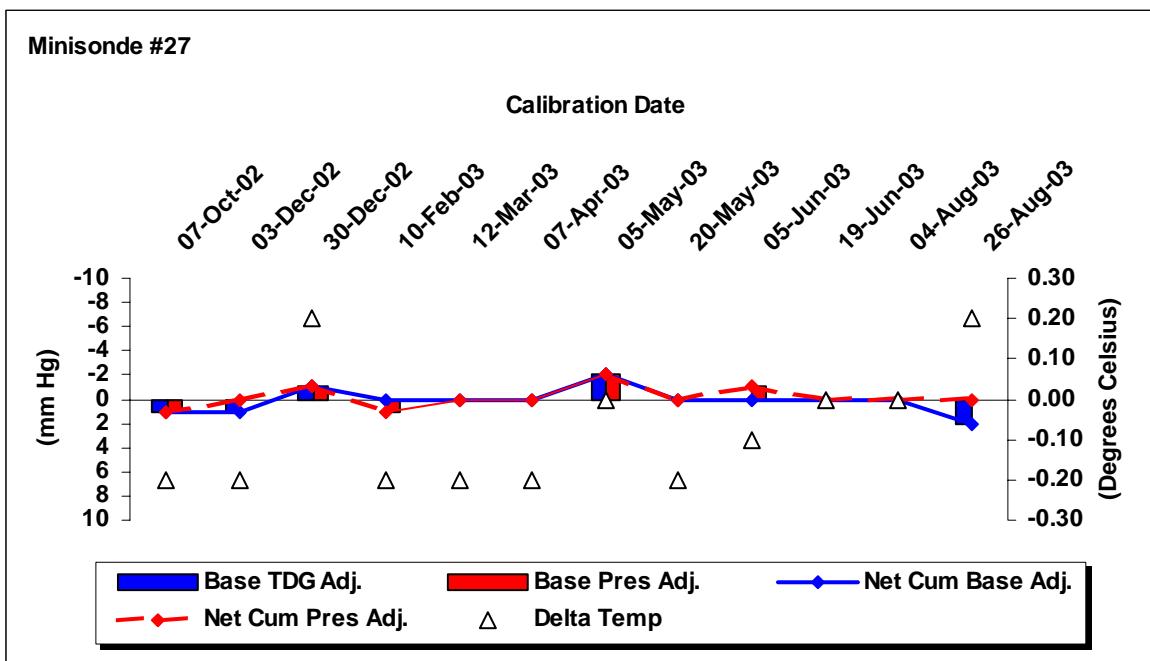
Status: This sonde is in good working condition and will continue to be active in the next quarter. It provided high quality data throughout the year and did not require any non-routine maintenance.



Calibration Date	Base TDG Adj	Pres TDG Adj	Net Cum Base Adj.	Net Cum Pres Adj.	Delta Temp
02-Dec-02	1	1	1	1	-0.10
02-Jan-03	1	1	1	1	-0.20
10-Feb-03	0	0	0	0	-0.20
25-Mar-03	0	0	0	0	-0.20
21-Apr-03	1	0	1	0	-0.10
07-May-03	1	1	1	1	-0.10
21-May-03	-2	-2	-2	-2	-0.20
11-Jun-03	1	0	1	0	0.10
16-Jul-03	1	0	1	0	-0.20
31-Jul-03	0	0	0	0	0.20
20-Aug-03	0	0	0	0	-0.20

Status: This sonde is in good working condition and will continue to be active in the next quarter. It provided high quality data throughout the year and did not require any non-routine maintenance.

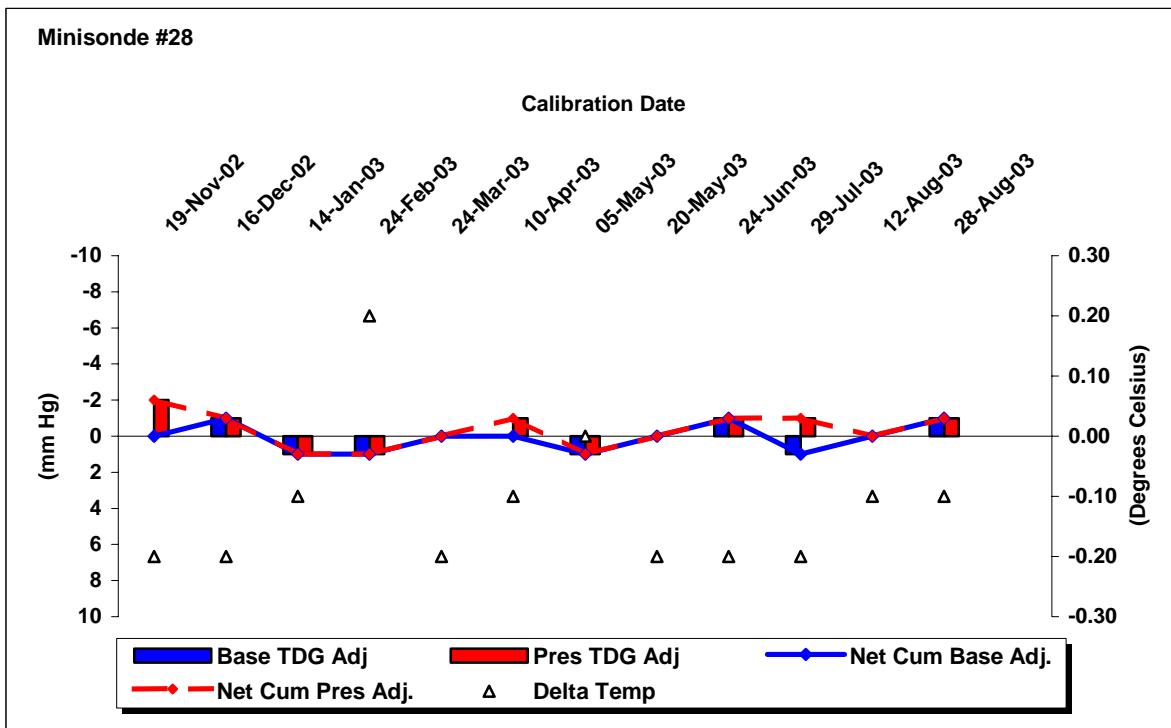
Minisonde #27



Calibration Date	Base TDG Adj.	Base Pres Adj.	Net Cum Base Adj.	Net Cum Pres Adj.	Delta Temp
07-Oct-02	1	1	1	1	-0.20
03-Dec-02	1	0	1	0	-0.20
30-Dec-02	-1	-1	-1	-1	0.20
10-Feb-03	0	1	0	1	-0.20
12-Mar-03	0	0	0	0	-0.20
07-Apr-03	0	0	0	0	-0.20
05-May-03	-2	-2	-2	-2	0.00
20-May-03	0	0	0	0	-0.20
05-Jun-03	0	-1	0	-1	-0.10
19-Jun-03	0	0	0	0	0.00
04-Aug-03	0	0	0	0	
26-Aug-03	2	0	2	0	0.20

Status: This sonde had a new DO sensor installed, is in good working condition, and will continue to be active in the next quarter. It provided high quality data throughout the year and did not require any non-routine maintenance. Missing data on August 4, 2003, is due to being swapped in the field.

Minisonde #28

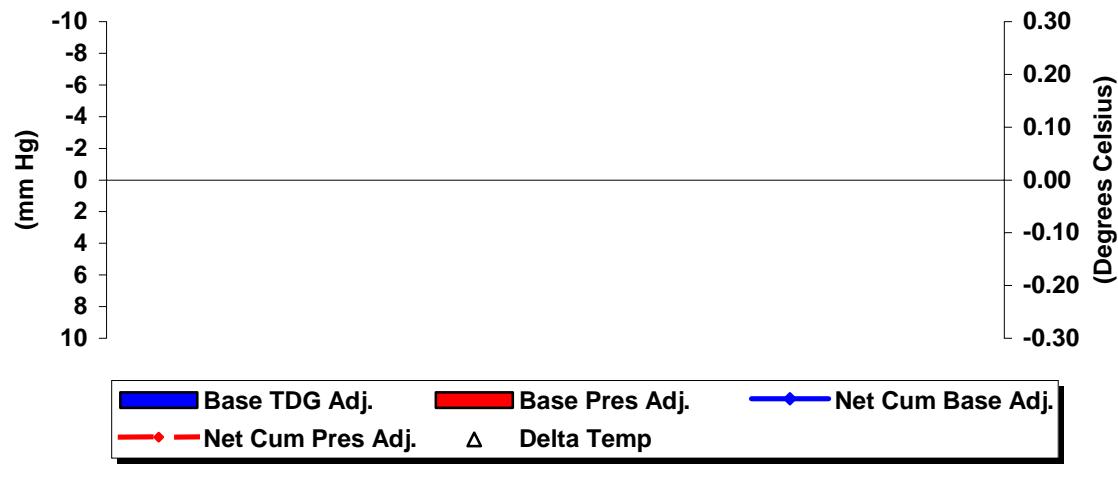


Calibration Date	Base TDG Adj	Pres TDG Adj	Net Cum Base Adj.	Net Cum Pres Adj.	Delta Temp
19-Nov-02	0	-2	0	-2	-0.20
16-Dec-02	-1	-1	-1	-1	-0.20
14-Jan-03	1	1	1	1	-0.10
24-Feb-03	1	1	1	1	0.20
24-Mar-03	0	0	0	0	-0.20
10-Apr-03	0	-1	0	-1	-0.10
05-May-03	1	1	1	1	0.00
20-May-03	0	0	0	0	-0.20
24-Jun-03	-1	-1	-1	-1	-0.20
29-Jul-03	1	-1	1	-1	-0.20
12-Aug-03	0	0	0	0	-0.10
28-Aug-03	-1	-1	-1	-1	-0.10

Status: This sonde is in good working condition and will continue to be active in the next quarter. It provided high quality data throughout the year and did not require any non-routine maintenance.

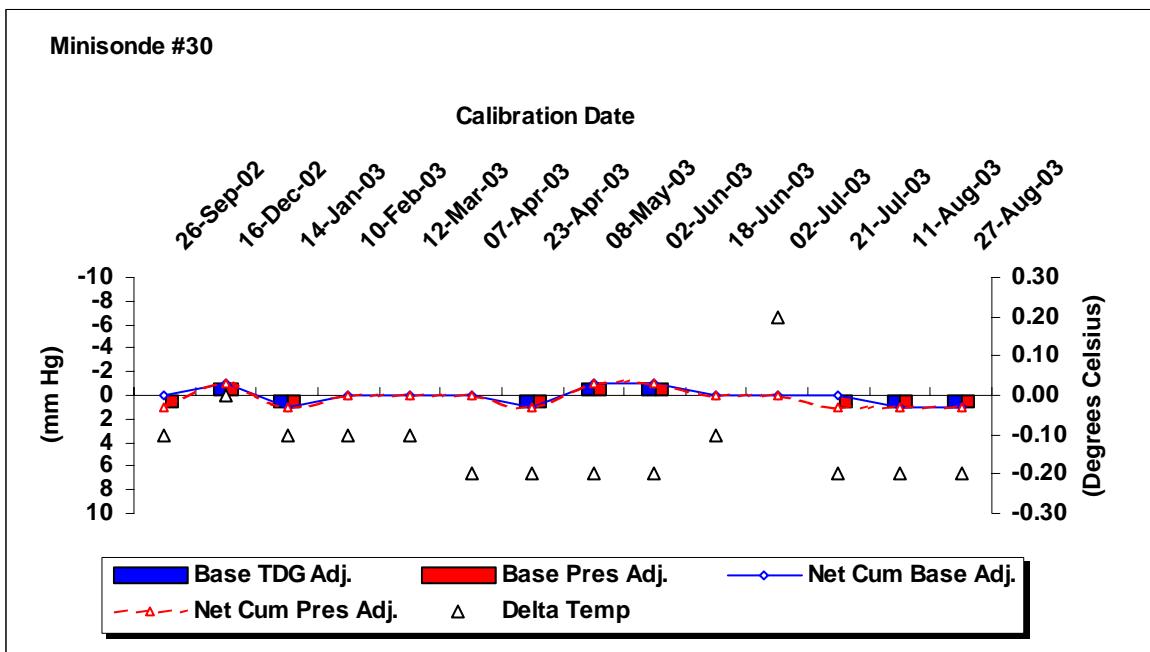
Minisonde #29

Calibration Date



Calibration Date	Base TDG Adj.	Base Pres Adj.	Net Cum Base Adj.	Net Cum Pres Adj.	Delta Temp

Status: Was found to have flooded and is now being used for spare parts.

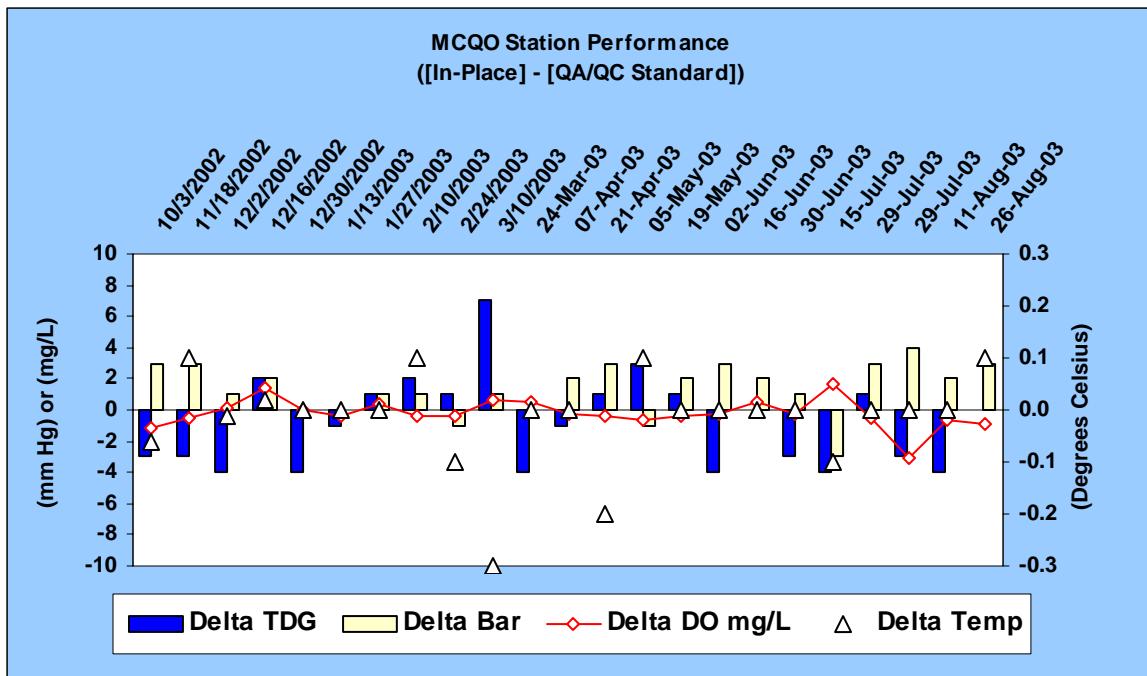


Calibration Date	Base TDG Adj.	Base Pres Adj.	Net Cum Base Adj.	Net Cum Pres Adj.	Delta Temp
26-Sep-02	0	1	0	1	-0.10
16-Dec-02	-1	-1	-1	-1	0.00
14-Jan-03	1	1	1	1	-0.10
10-Feb-03	0	0	0	0	-0.10
12-Mar-03	0	0	0	0	-0.10
07-Apr-03	0	0	0	0	-0.20
23-Apr-03	1	1	1	1	-0.20
08-May-03	-1	-1	-1	-1	-0.20
02-Jun-03	-1	-1	-1	-1	-0.20
18-Jun-03	0	0	0	0	-0.10
02-Jul-03	0	0	0	0	0.20
21-Jul-03	0	1	0	1	-0.20
11-Aug-03	1	1	1	1	-0.20
27-Aug-03	1	1	1	1	-0.20

Status: This sonde is in good working condition and will continue to be active in the next quarter. It provided high quality data throughout the year and did not require any non-routine maintenance.

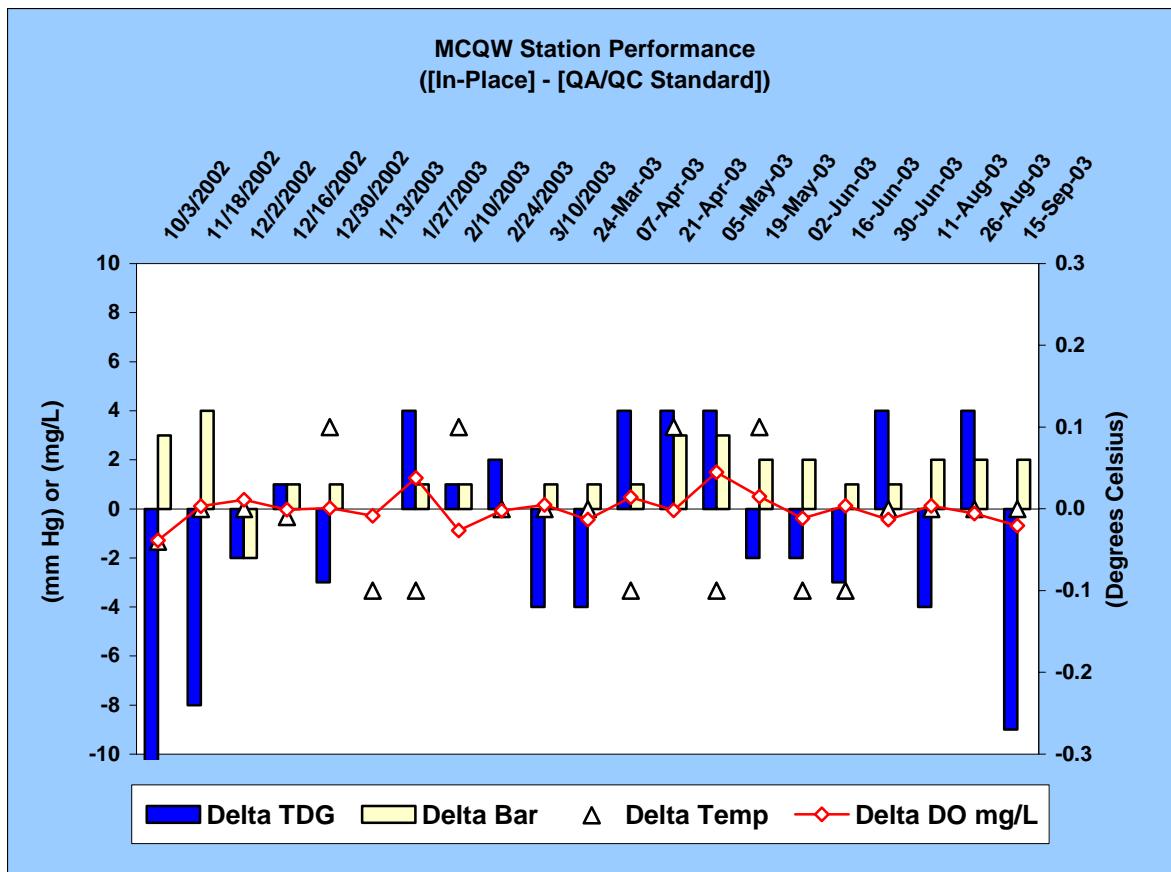
APPENDIX B

**Station-Specific Quality Assurance/Quality Control
Performance Charts
(HDR 2003)**

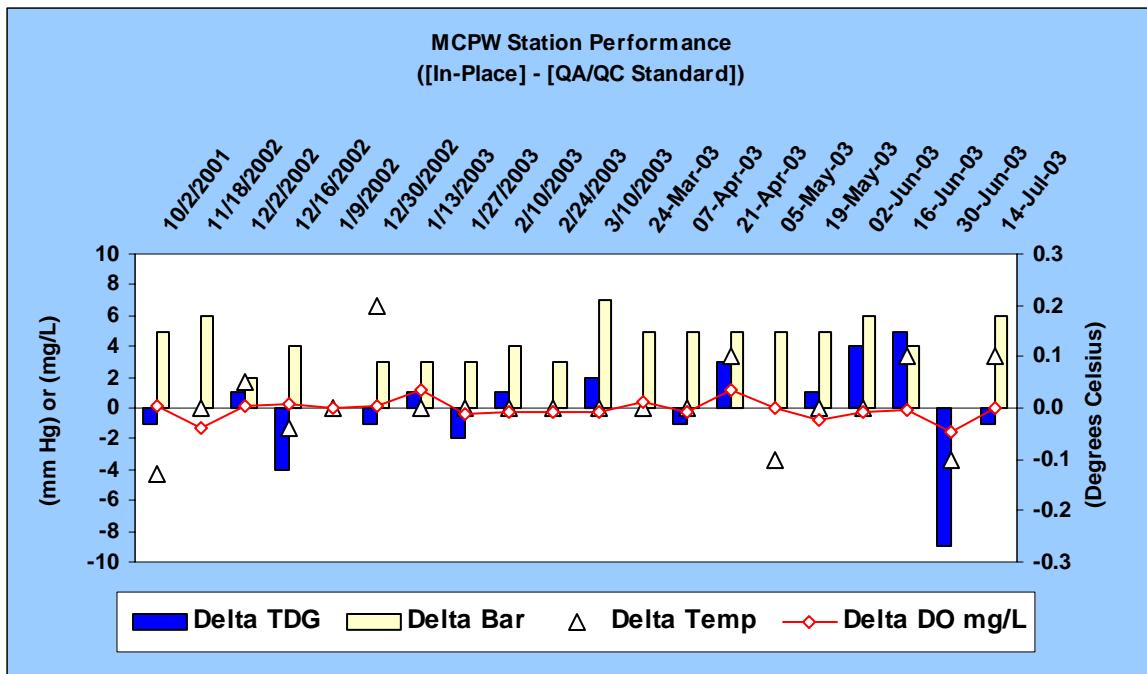


Station ID	QA/QC Sonde	In-Place Sonde	Deployment Date	Delta TDG	Delta Bar	Delta DO mg/L	Delta Temp
MCQO	20		03 Oct-02	-3	3	-1.21	-0.1
MCQO	10	20	18-Nov 02	-3	3	-0.54	0.1
MCQO	7	10	02-Dec-02	-4	1	0.14	0.0
MCQO	30	7	16-Dec-02	2	2	1.43	0.0
MCQO	1	30	30-Dec-02	-4	0	0.01	0.0
MCQO	10	1	13-Jan-03	-1	0	-0.33	0.0
MCQO	20	10	27-Jan-03	1	1	0.44	0.0
MCQO	26	20	10-Feb-03	2	1	-0.41	0.1
MCQO	16	26	24-Feb-03	1	-1	-0.44	-0.1
MCQO	5	16	10-Mar-03	7	1	0.68	-0.3
MCQO	16	5	24-Mar-03	-4	0	0.47	0.0
MCQO	27	16	07-Apr-03	-1	2	-0.32	0.0
MCQO	23	27	21-Apr-03	1	3	-0.41	-0.2
MCQO	27	23	05-May-03	3	-1	-0.60	0.1
MCQO	18	27	19-May-03	1	2	-0.34	0.0
MCQO	30	18	02-Jun-03	-4	3	-0.21	0.0
MCQO	20	30	16-Jun-03	0	2	0.52	0.0
MCQO	17	20	30-Jun-03	-3	1	-0.30	0.0
MCQO	6	17	15-Jul-03	-4	-3	1.72	-0.1
MCQO	14	21	29-Jul-03	1	3	-0.45	0.0
MCQO	18	6	29-Jul-03	-3	4	-3.13	0.0
MCQO	12	18	11-Aug-03	-4	2	-0.63	0.0
MCQO	7	12	26-Aug-03	0	3	-0.94	0.1

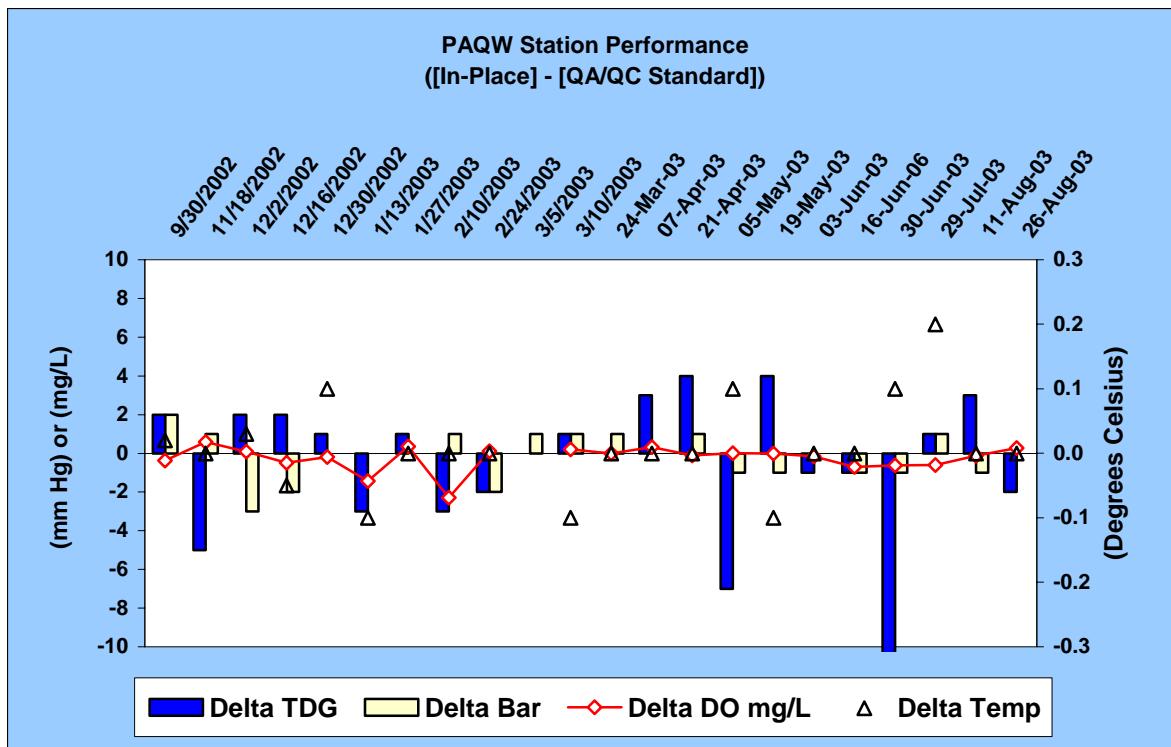
Blue - Outlying Data Point



Station ID	QA/QC Sonde	In-Place Sonde	Deployment Date	Delta TDG	Delta Bar	Delta DO mg/L	Delta Temp
MCQW	18		3-Oct-02	-12	3	-1.28	0.0
MCQW	15	4	18-Nov-02	-8	4	0.11	0.0
MCQW	11	15	2-Dec-02	-2	-2	0.37	0.0
MCQW	16	11	16-Dec-02	1	1	-0.03	0.0
MCQW	27	16	30-Dec-02	-3	1	0.03	0.1
MCQW	17	27	13-Jan-03	0	0	-0.28	-0.1
MCQW	7	17	27-Jan-03	4	1	1.26	-0.1
MCQW	27	7	10-Feb-03	1	1	-0.88	0.1
MCQW	7	27	24-Feb-03	2	0	-0.07	0.0
MCQW	23	7	10-Mar-03	-4	1	0.16	0.0
MCQW	25	23	24-Mar-03	-4	1	-0.44	0.0
MCQW	5	25	07-Apr-03	4	1	0.47	-0.1
MCQW	17	5	21-Apr-03	4	3	-0.06	0.1
MCQW	6	17	05-May-03	4	3	1.49	-0.1
MCQW	14	6	19-May-03	-2	2	0.50	0.1
MCQW	25	14	02-Jun-03	-2	2	-0.38	-0.1
MCQW	7	25	16-Jun-03	-3	1	0.12	-0.1
MCQW	10	7	30-Jun-03	4	1	-0.44	0.0
MCQW	15	14	11-Aug-03	-4	2	0.12	0.0
MCQW	21	15	26-Aug-03	4	2	-0.19	0.0
MCQW	21	10	15-Sep-03	-9	2	-0.68	0.0



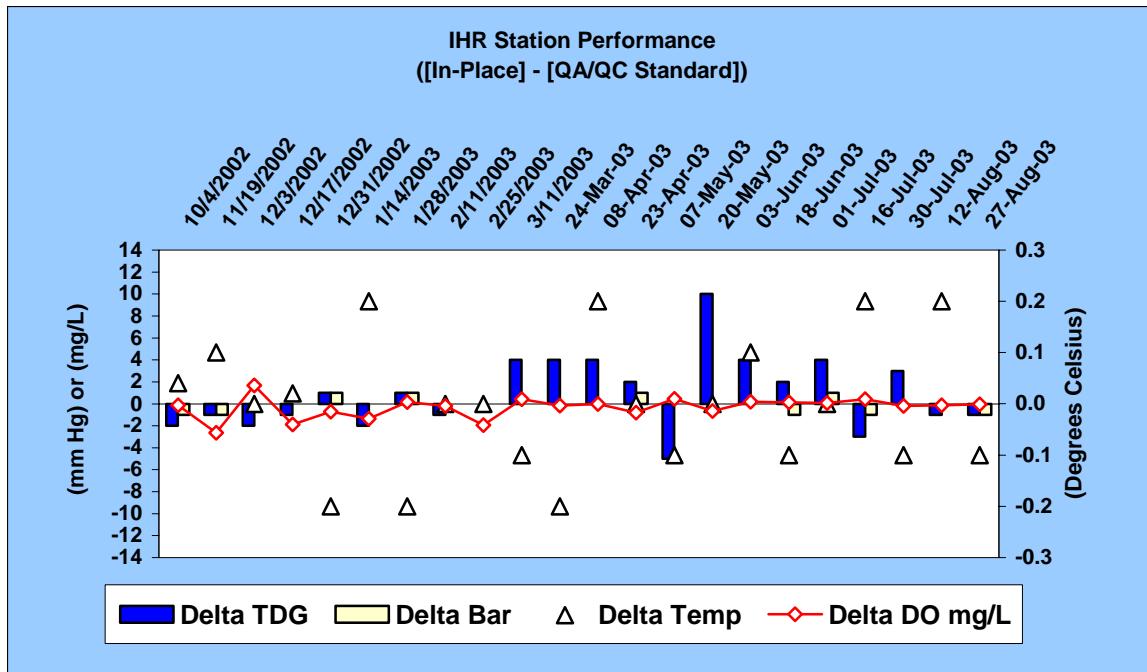
Station ID	QA/QC Sonde	In-Place Sonde	Deployment Date	Delta TDG	Delta Bar	Delta DO mg/L	Delta Temp
MCPW	12		20-Oct-01	-1	5	0.13	-0.1
MCPW	5		18-Nov-02	0	6	-1.26	0.0
MCPW	1	5	2-Dec-02	1	2	0.10	0.0
MCPW	12	1	16-Dec-02	-4	4	0.29	0.0
MCPW	5	23	9-Jan-02	0	0	0.00	0.0
MCPW	23	12	30-Dec-02	-1	3	0.13	0.2
MCPW	12	5	13-Jan-03	1	3	1.11	0.0
MCPW	15	12	27-Jan-03	-2	3	-0.43	0.0
MCPW	12	15	10-Feb-03	1	4	-0.27	0.0
MCPW	1	12	24-Feb-03	0	3	-0.23	0.0
MCPW	17	1	10-Mar-03	2	7	-0.28	0.0
MCPW	2	17	24-Mar-03	0	5	0.39	0.0
MCPW	30	2	07-Apr-03	-1	5	-0.31	0.0
MCPW	26	30	21-Apr-03	3	5	1.18	0.1
MCPW	7	26	05-May-03	0	5	0.01	-0.1
MCPW	16	7	19-May-03	1	5	-0.77	0.0
MCPW	12	16	02-Jun-03	4	6	-0.31	0.0
MCPW	8	12	16-Jun-03	5	4	-0.14	0.1
MCPW	23	8	30-Jun-03	-9	nd	-1.53	-0.1
MCPW	1	23	14-Jul-03	-1	6	0.06	0.1
MCPW	16	1	29-Jul-03	-3	5	-1.42	-0.1
MCPW	25	16	11-Aug-03	-6	4	-0.07	0.1
MCPW	13	25	26-Aug-03	-1	4	-0.35	-0.1



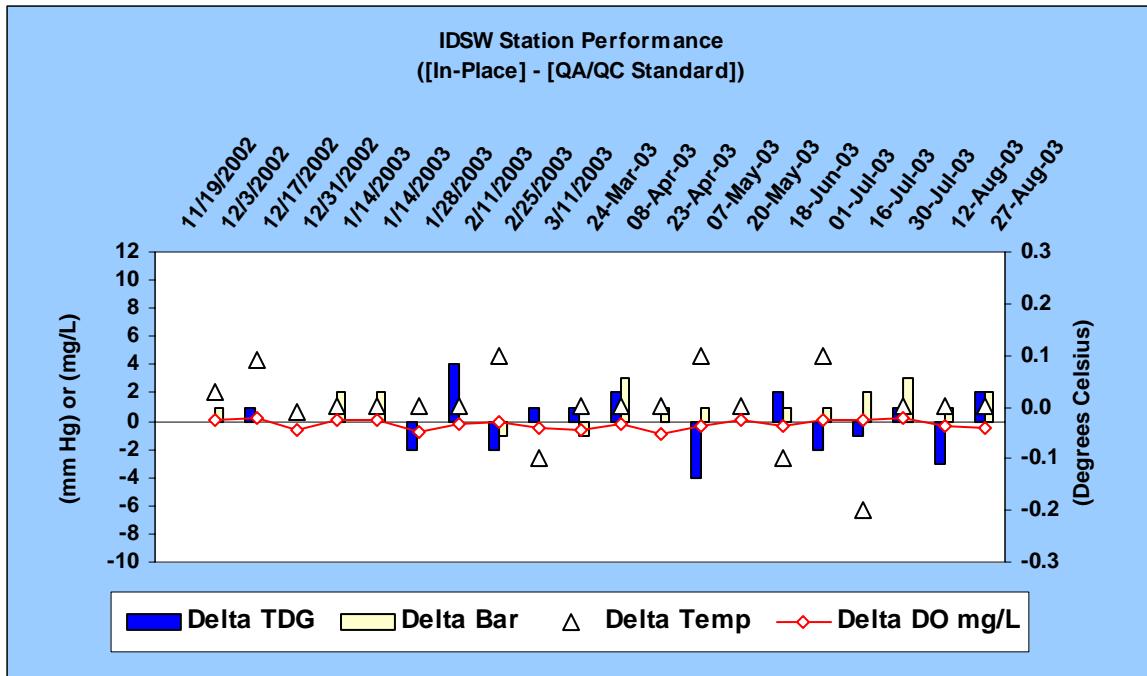
Station ID	QA/QC Sonde	In-Place Sonde	Deployment Date	Delta TDG	Delta Bar	Delta DO mg/L	Delta Temp
PAQW	30	11	30-Sep-02	2	2	-0.37	0.0
PAQW	2	30	18-Nov-02	-5	1	0.58	0.0
PAQW	26	2	2-Dec-02	2	-3	0.09	0.0
PAQW	10	26	16-Dec-02	2	-2	-0.48	-0.1
PAQW	8	10	30-Dec-02	1	0	-0.19	0.1
PAQW	23	8	13-Jan-03	-3	0	-1.43	-0.1
PAQW	1	23	27-Jan-03	1	0	0.36	0.0
PAQW	10	1	10-Feb-03	-3	1	-2.29	0.0
PAQW	15	10	24-Feb-03	-2	-2	0.10	0.0
PAQW	20		5-Mar-03		1		
PAQW	19	20	10-Mar-03	1	1	0.20	-0.1
PAQW	14	19	24-Mar-03		1		
PAQW	15	14	07-Apr-03	3	0	0.32	0.0
PAQW	3	15	21-Apr-03	4	1	-0.10	0.0
PAQW	28	3	05-May-03	-7	-1	0.01	0.1
PAQW	3	28	19-May-03	4	-1	-0.01	-0.1
PAQW	18	3	03-Jun-03	-1	0	-0.15	0.0
PAQW	15	18	16-Jun-06	-1	-1	-0.70	0.0
PAQW	26	15	30-Jun-03	-20	-1	-0.62	0.1
PAQW	28	3	29-Jul-03	1	1	-0.60	0.2
PAQW	30	28	11-Aug-03	3	-1	-0.13	0.0
PAQW	27	30	26-Aug-03	-2	0	0.28	0.0

Data missing on March 5, 2003, due to new sonde after station rebuild.

Data missing on March 24, 2003, due to sonde # 19 not working.

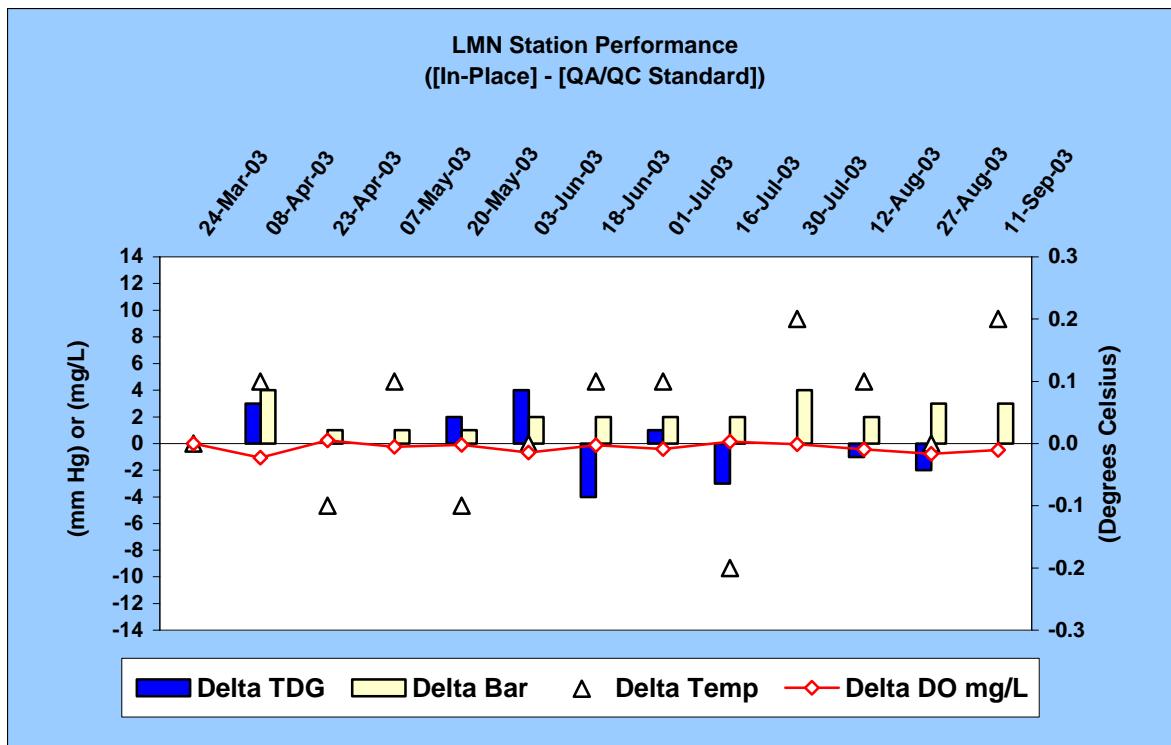


Station ID	QA/QC Sonde	In-Place Sonde	Deployment Date	Delta TDG	Delta Bar	Delta DO mg/L	Delta Temp
IHR	11		4-Oct-02	-2	-1	-0.13	0.0
IHR	25	11	19-Nov-02	-1	-1	-2.65	0.1
IHR	21	25	3-Dec-02	-2	0	1.67	0.0
IHR	28	21	17-Dec-02	-1	0	-1.89	0.0
IHR	4	28	31-Dec-02	1	1	-0.70	-0.2
IHR	21	4	14-Jan-03	-2	0	-1.35	0.2
IHR	6	21	28-Jan-03	1	1	0.17	-0.2
IHR	23	6	1-Feb-03	-1	0	-0.20	0.0
IHR	25	23	25-Feb-03	0	0	-1.94	0.0
IHR	21	25	11-Mar-03	4	0	0.43	-0.1
IHR	6	21	24-Mar-03	4	0	-0.17	-0.2
IHR	21	6	08-Apr-03	4	0	-0.01	0.2
IHR	30	21	23-Apr-03	2	1	-0.79	0.0
IHR	23	30	07-May-03	-5	0	0.46	-0.1
IHR	6	23	20-May-03	10	0	-0.66	0.0
IHR	21	6	03-Jun-03	4	0	0.20	0.1
IHR	12	21	18-Jun-03	2	-1	0.13	-0.1
IHR	13	12	01-Jul-03	4	1	0.06	0.0
IHR	26	13	16-Jul-03	-3	-1	0.41	0.2
IHR	6	26	30-Jul-03	3	0	-0.18	-0.1
IHR	28	6	12-Aug-03	-1	0	-0.13	0.2
IHR	15	28	27-Aug-03	-1	-1	-0.04	-0.1

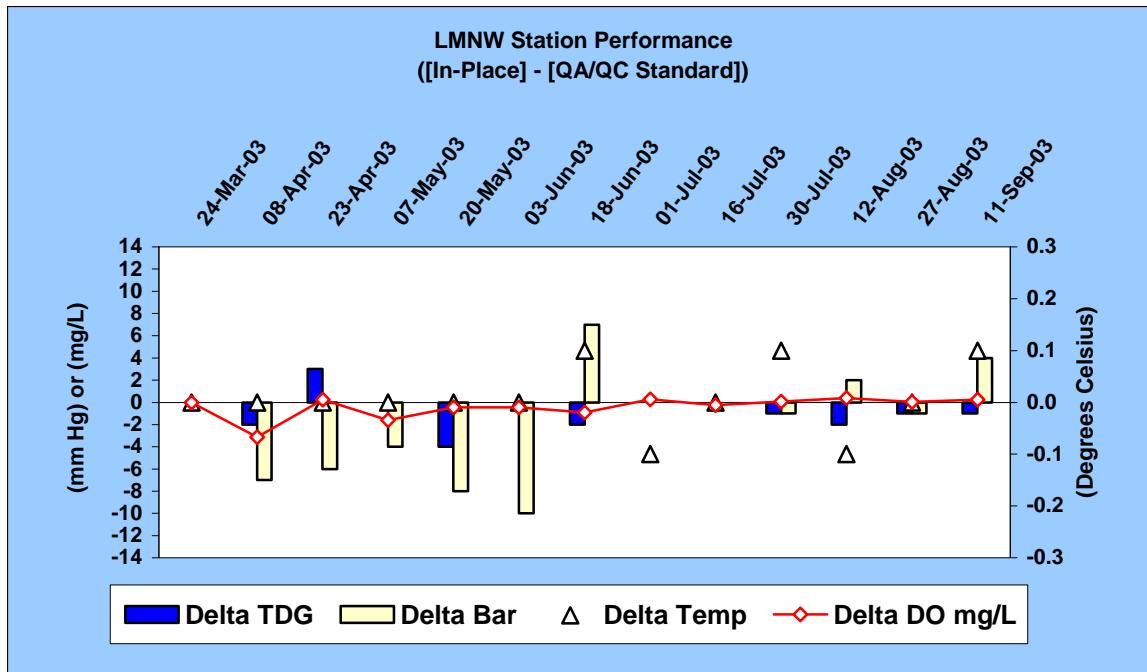


Station ID	QA/QC Sonde	In-Place Sonde	Deployment Date	Delta TDG	Delta Bar	Delta DO mg/L	Delta Temp
IDSW	3	29	19-Nov-02	0	0	0.05	0.0
IDSW	20	3	3-Dec-02	0	1	0.05	0.0
IDSW	25	20	17-Dec-02	1	0	0.18	0.1
IDSW	20	25	31-Dec-02	0	0	-0.57	0.0
IDSW	16	20	14-Jan-03	0	2	0.06	0.0
IDSW	16	20	14-Jan-03	0	2	0.06	0.0
IDSW	11	16	28-Jan-03	-2	0	-0.84	0.0
IDSW	30	11	11-Feb-03	4	0	-0.14	0.0
IDSW	28	30	25-Feb-03	-2	-1	-0.08	0.1
IDSW	15	28	11-Mar-03	1	0	-0.48	-0.1
IDSW	1	15	24-Mar-03	1	-1	-0.65	0.0
IDSW	11	1	08-Apr-03	2	3	-0.25	0.0
IDSW	15	11	23-Apr-03	0	1	-0.89	0.0
IDSW	17	15	07-May-03	-4	1	-0.38	0.1
IDSW	28	17	20-May-03	0	0	0.03	0.0
IDSW	18	28	18-Jun-03	2	1	-0.41	-0.1
IDSW	7	18	01-Jul-03	-2	1	0.04	0.1
IDSW	10	7	16-Jul-03	-1	2	0.09	-0.2
IDSW	3	10	30-Jul-03	1	3	0.17	0.0
IDSW	14	3	12-Aug-03	-3	1	-0.28	0.0
IDSW	25	14	27-Aug-03	2	2	-0.49	0.0

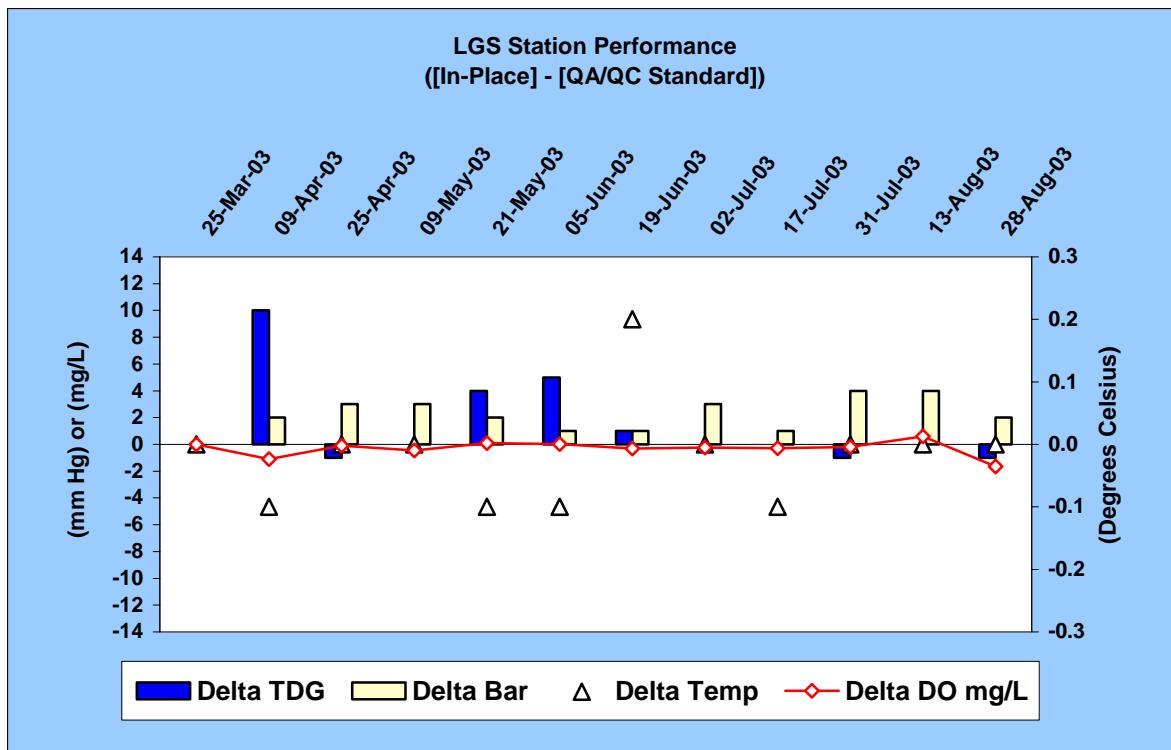
Data missing on November 19, 2002, sonde # 29 was found not to be working.



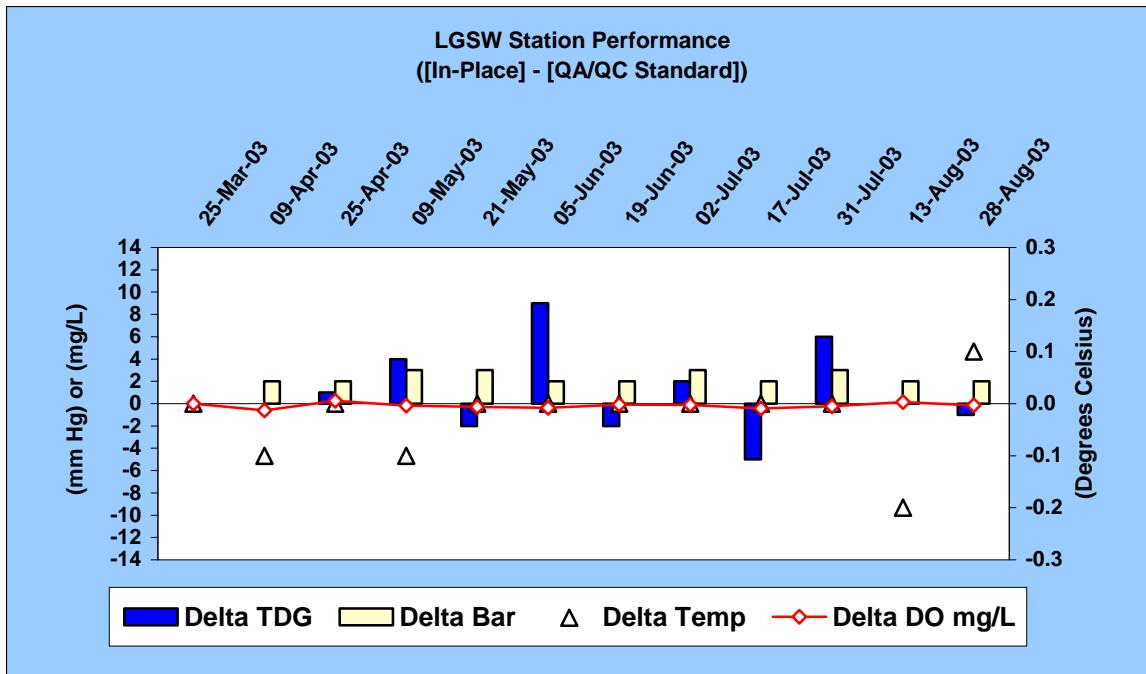
Station ID	QA/QC Sonde	In-Place Sonde	Deployment Date	Delta TDG	Delta Bar	Delta DO mg/L	Delta Temp
LMN	20		24-Mar-03	0			
LMN	25	20	08-Apr-03	3	4	-1.06	0.1
LMN	4	25	23-Apr-03	0	1	0.23	-0.1
LMN	26	4	07-May-03	0	1	-0.24	0.1
LMN	27	26	20-May-03	2	1	-0.10	-0.1
LMN	16	27	03-Jun-03	4	2	-0.67	0.0
LMN	30	16	18-Jun-03	-4	2	-0.11	0.1
LMN	8	30	01-Jul-03	1	2	-0.40	0.1
LMN	23	8	16-Jul-03	-3	2	0.15	-0.2
LMN	21	23	30-Jul-03	0	4	-0.05	0.2
LMN	16	21	12-Aug-03	-1	2	-0.44	0.1
LMN	12	16	27-Aug-03	-2	3	-0.77	0.0
LMN	21	12	11-Sep-03	0	3	-0.49	0.2



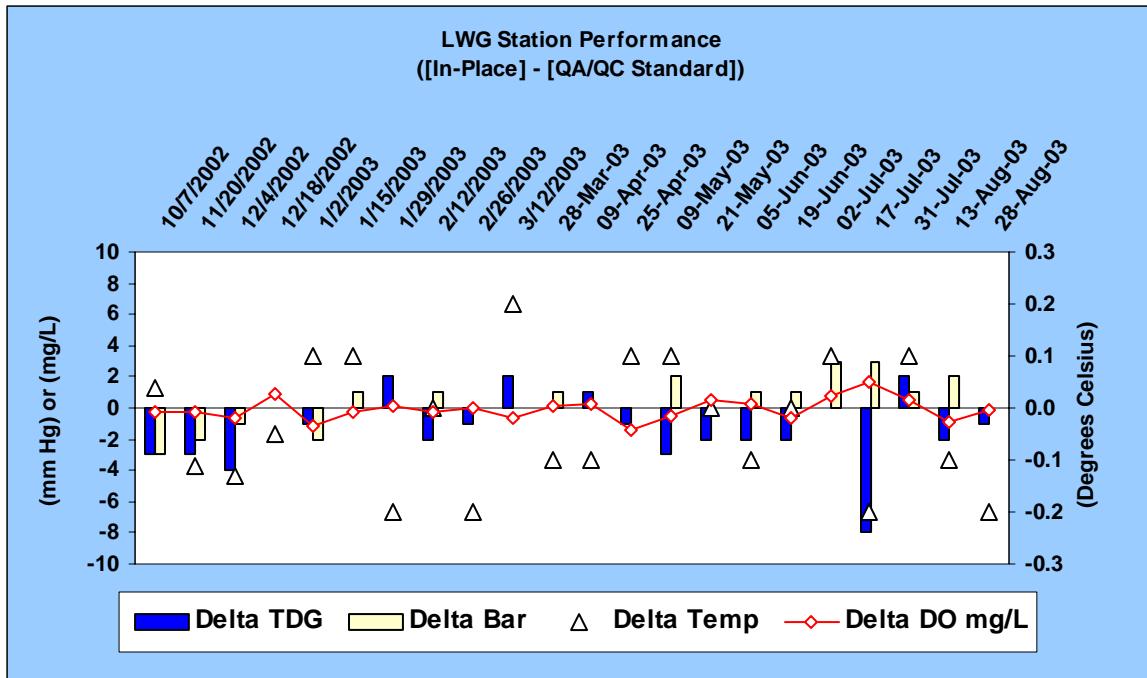
Station ID	QA/QC Sonde	In-Place Sonde	Deployment Date	Delta TDG	Delta Bar	Delta DO mg/L	Delta Temp
LMNW	3		24-Mar-03		0		
LMNW	12	3	08-Apr-03	-2	-7	-3.13	0.0
LMNW	8	12	23-Apr-03	3	-6	0.25	0.0
LMNW	20	8	07-May-03	0	-4	-1.61	0.0
LMNW	1	20	20-May-03	-4	-8	-0.45	0.0
LMNW	14	1	03-Jun-03	0	-10	-0.46	0.0
LMNW	25	14	18-Jun-03	-2	7	-0.91	0.1
LMNW	20	25	01-Jul-03	0	0	0.26	-0.1
LMNW	17	20	16-Jul-03	0	0	-0.25	0.0
LMNW	1	17	30-Jul-03	-1	-1	0.06	0.1
LMNW	18	1	12-Aug-03	-2	2	0.40	-0.1
LMNW	30	18	27-Aug-03	-1	-1	0.05	0.0
LMNW	25	30	11-Sep-03	-1	4	0.25	0.1



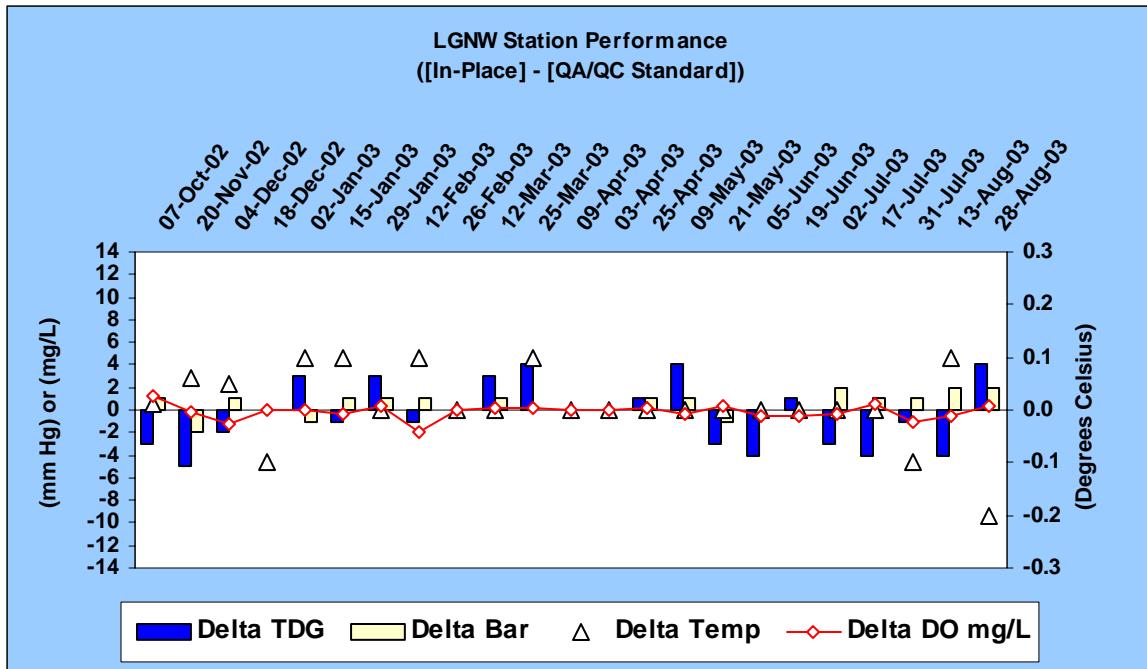
Station ID	QA/QC Sonde	In-Place Sonde	Deployment Date	Delta TDG	Delta Bar	Delta DO mg/L	Delta Temp
LGS	8		25-Mar-03	0			
LGS	16	8	09-Apr-03	10	2	-1.09	-0.1
LGS	21	16	25-Apr-03	-1	3	-0.09	0.0
LGS	8	21	09-May-03	0	3	-0.45	0.0
LGS	17	8	21-May-03	4	2	0.10	-0.1
LGS	6	17	05-Jun-03	5	1	0.02	-0.1
LGS	21	6	19-Jun-03	1	1	-0.32	0.2
LGS	30	21	02-Jul-03	0	3	-0.25	0.0
LGS	7	30	17-Jul-03	0	1	-0.28	-0.1
LGS	10	7	31-Jul-03	-1	4	-0.18	0.0
LGS	1	10	13-Aug-03	0	4	0.60	0.0
LGS	14	1	28-Aug-03	-1	2	-1.66	0.0



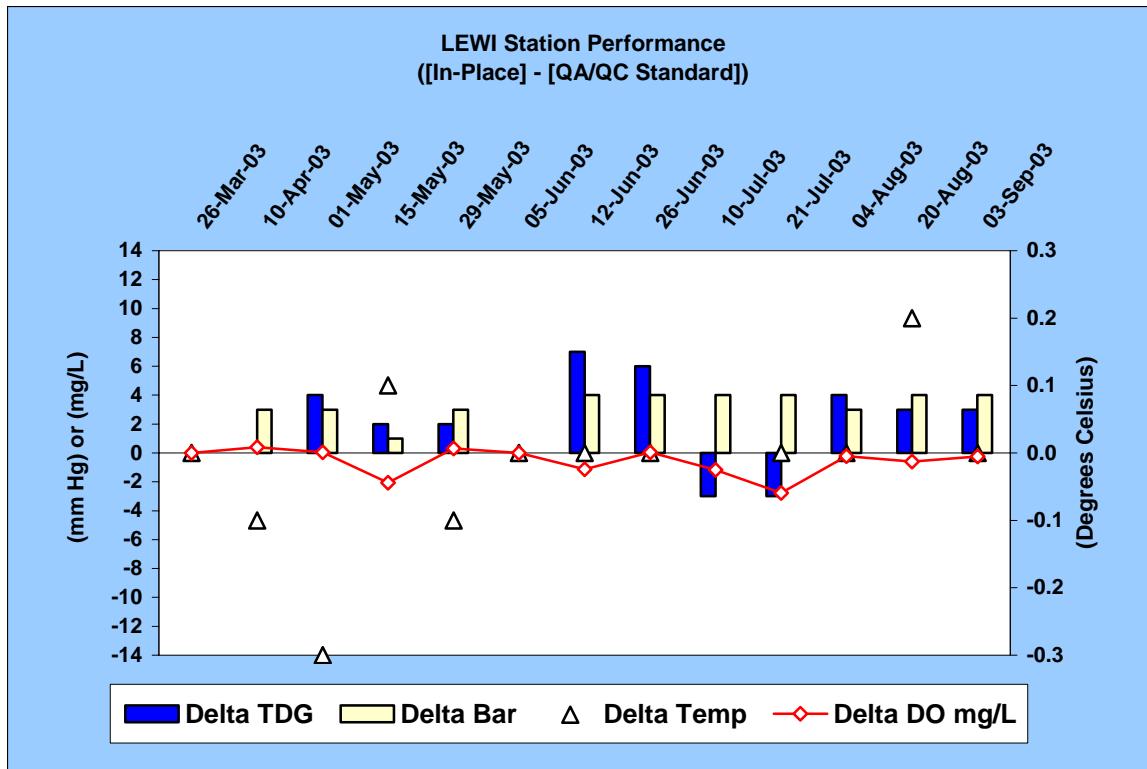
Station ID	QA/QC Sonde	In-Place Sonde	Deployment Date	Delta TDG	Delta Bar	Delta DO mg/L	Delta Temp
LGSW	28		25-Mar-03	0			
LGSW	1	28	09-Apr-03	0	2	-0.60	-0.1
LGSW	25	1	25-Apr-03	1	2	0.25	0.0
LGSW	15	25	09-May-03	4	3	-0.18	-0.1
LGSW	20	15	21-May-03	-2	3	-0.30	0.0
LGSW	27	20	05-Jun-03	9	2	-0.36	0.0
LGSW	14	27	19-Jun-03	-2	2	-0.10	0.0
LGSW	25	14	02-Jul-03	2	3	-0.11	0.0
LGSW	20	25	17-Jul-03	-5	2	-0.44	0.0
LGSW	17	20	31-Jul-03	6	3	-0.22	0.0
LGSW	6	17	13-Aug-03	0	2	0.15	-0.2
LGSW	16	6	28-Aug-03	-1	2	-0.13	0.1



Station ID	QA/QC Sonde	In-Place Sonde	Deployment Date	Delta TDG	Delta Bar	Delta DO mg/L	Delta Temp
LWG	27	25	7-Oct-02	-3	-3	-0.31	0.0
LWG	28	27	20-Nov-02	-3	-2	-0.20	-0.1
LWG	4	28	4-Dec-02	-4	-1	-0.58	-0.1
LWG	6	4	18-Dec-02	0	0	0.94	-0.1
LWG	7	6	2-Jan-03	-1	-2	-1.14	0.1
LWG	28	7	15-Jan-03	0	1	-0.26	0.1
LWG	4	28	29-Jan-03	2	0	0.19	-0.2
LWG	21	4	12-Feb-03	-2	1	-0.21	0.0
LWG	6	21	26-Feb-03	-1	0	0.06	-0.2
LWG	30	6	12-Mar-03	2	0	-0.66	0.2
LWG	7	30	28-Mar-03	0	1	0.13	-0.1
LWG	6	7	09-Apr-03	1	0	0.28	-0.1
LWG	12	6	25-Apr-03	-1	0	-1.37	0.1
LWG	30	12	09-May-03	-3	2	-0.53	0.1
LWG	26	30	21-May-03	-2	0	0.50	0.0
LWG	1	26	05-Jun-03	-2	1	0.28	-0.1
LWG	27	1	19-Jun-03	-2	1	-0.63	0.0
LWG	12	27	02-Jul-03	0	3	0.79	0.1
LWG	13	12	17-Jul-03	-8	3	1.70	-0.2
LWG	26	13	31-Jul-03	2	1	0.47	0.1
LWG	8	26	13-Aug-03	-2	2	-0.90	-0.1
LWG	28	8	28-Aug-03	-1	0	-0.15	-0.2

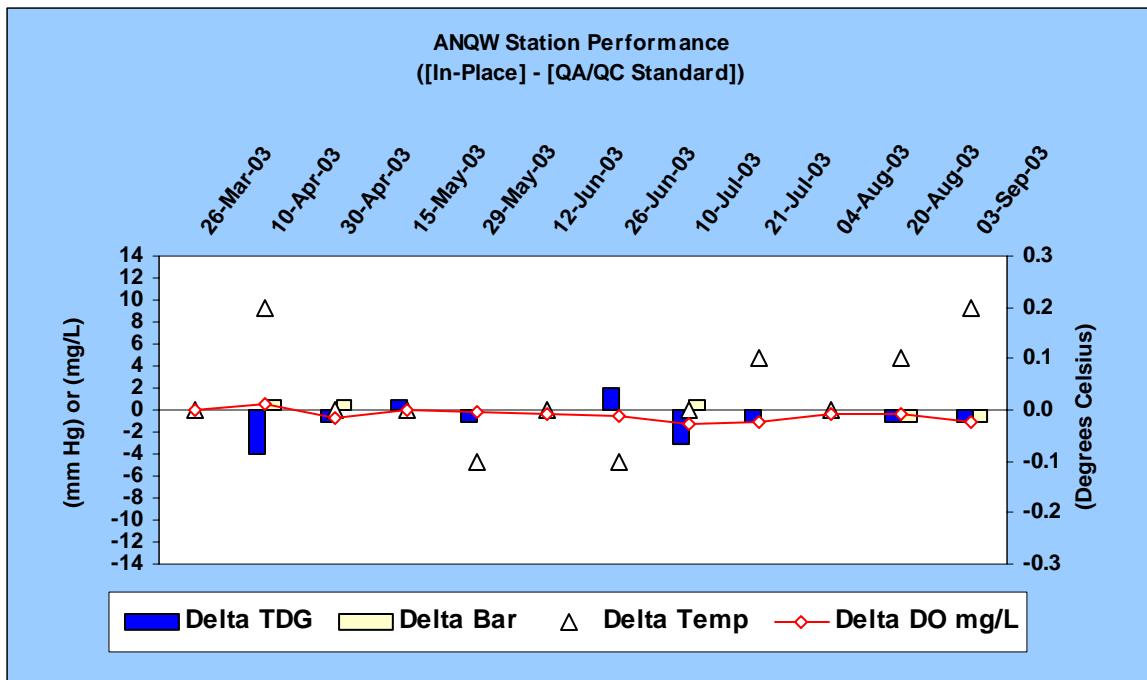


Station ID	QA/QC Sonde	In-Place Sonde	Deployment Date	Delta TDG	Delta Bar	Delta DO mg/L	Delta Temp
LGNW	16		07-Oct-02	-3	1	1.27	0.0
LGNW	17	16	20-Nov-02	-5	-2	-0.18	0.1
LGNW	27	17	04-Dec-02	-2	1	-1.17	0.1
LGNW	3	27	18-Dec-02	0	0	-0.03	-0.1
LGNW	11	3	02-Jan-03	3	-1	-0.05	0.1
LGNW	25	11	15-Jan-03	-1	1	-0.38	0.1
LGNW	3	25	29-Jan-03	3	1	0.29	0.0
LGNW	17	3	12-Feb-03	-1	1	-1.97	0.1
LGNW	11	17	26-Feb-03	0	0	0.06	0.0
LGNW	12	11	12-Mar-03	3	1	0.13	0.0
LGNW	11	12	25-Mar-03	4	nd	0.13	0.1
LGNW	14	10	09-Apr-03	0	0	0.00	0.0
LGNW	10		03-Apr-03	nd	0	nd	nd
LGNW	11	14	25-Apr-03	1	1	0.11	0.0
LGNW	4	11	09-May-03	4	1	-0.27	0.0
LGNW	23	4	21-May-03	-3	-1	0.35	0.0
LGNW	3	23	05-Jun-03	-4	0	-0.58	0.0
LGNW	16	3	19-Jun-03	1	0	-0.54	0.0
LGNW	15	16	02-Jul-03	-3	2	-0.41	0.0
LGNW	8	15	17-Jul-03	-4	1	0.50	0.0
LGNW	23	8	31-Jul-03	-1	1	-1.04	-0.1
LGNW	17	23	13-Aug-03	-4	2	-0.49	0.1
LGNW	18	17	28-Aug-03	4	2	0.44	-0.2

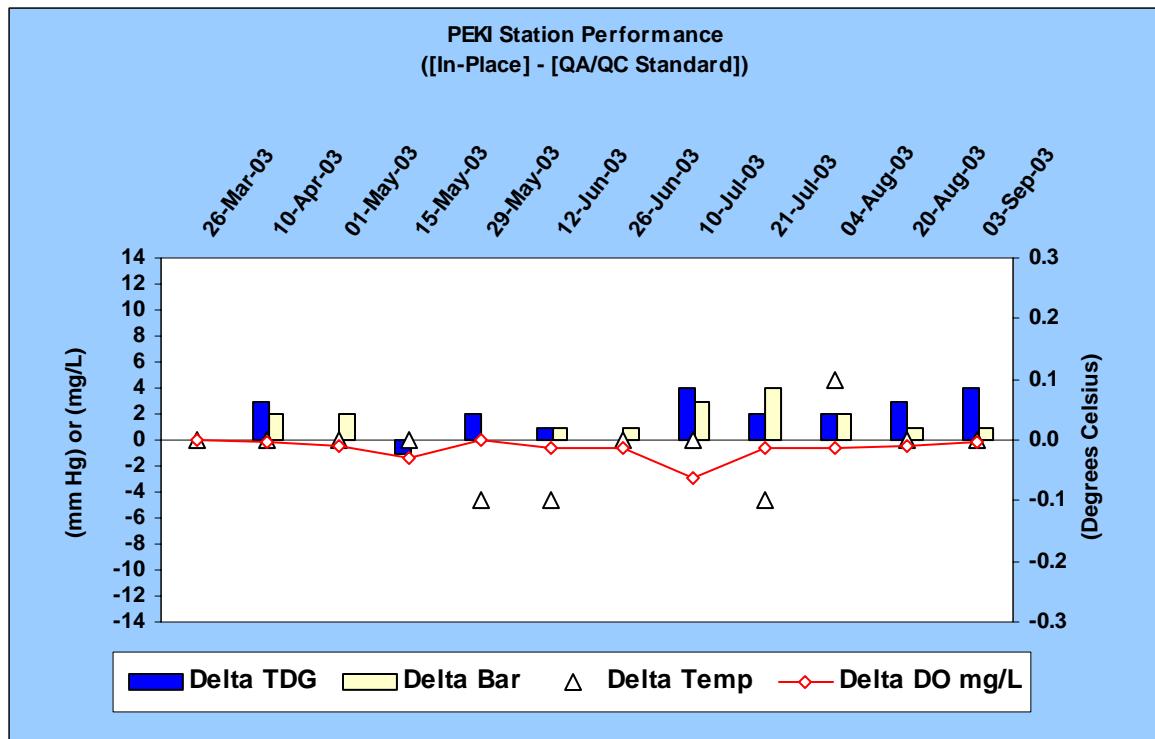


Station ID	QA/QC Sonde	In-Place Sonde	Deployment Date	Delta TDG	Delta Bar	Delta DO mg/L	Delta Temp
LEWI	26		26-Mar-03	0	0	0.39	-0.1
LEWI	10	26	10-Apr-03	0	3	0.04	-0.3
LEWI	18	10	01-May-03	4	3	-2.06	0.1
LEWI	21	18	15-May-03	2	1	-1.12	0.0
LEWI	4	21	29-May-03	2	3	0.04	-0.1
LEWI	20	4	05-Jun-03	0	0	0.0	0.0
LEWI	4	20	12-Jun-03	7	4	-1.18	0.0
LEWI	6	13	26-Jun-03	6	4	-2.77	-0.4
LEWI	16	6	10-Jul-03	-3	4	-0.23	0.0
LEWI	15	16	21-Jul-03	-3	4	-0.59	0.2
LEWI	13	15	04-Aug-03	4	3	0.0	0.0
LEWI	16	13	20-Aug-03	3	4	0.0	0.0
LEWI	6	10	03-Sep-03	3	4	-0.25	0.0

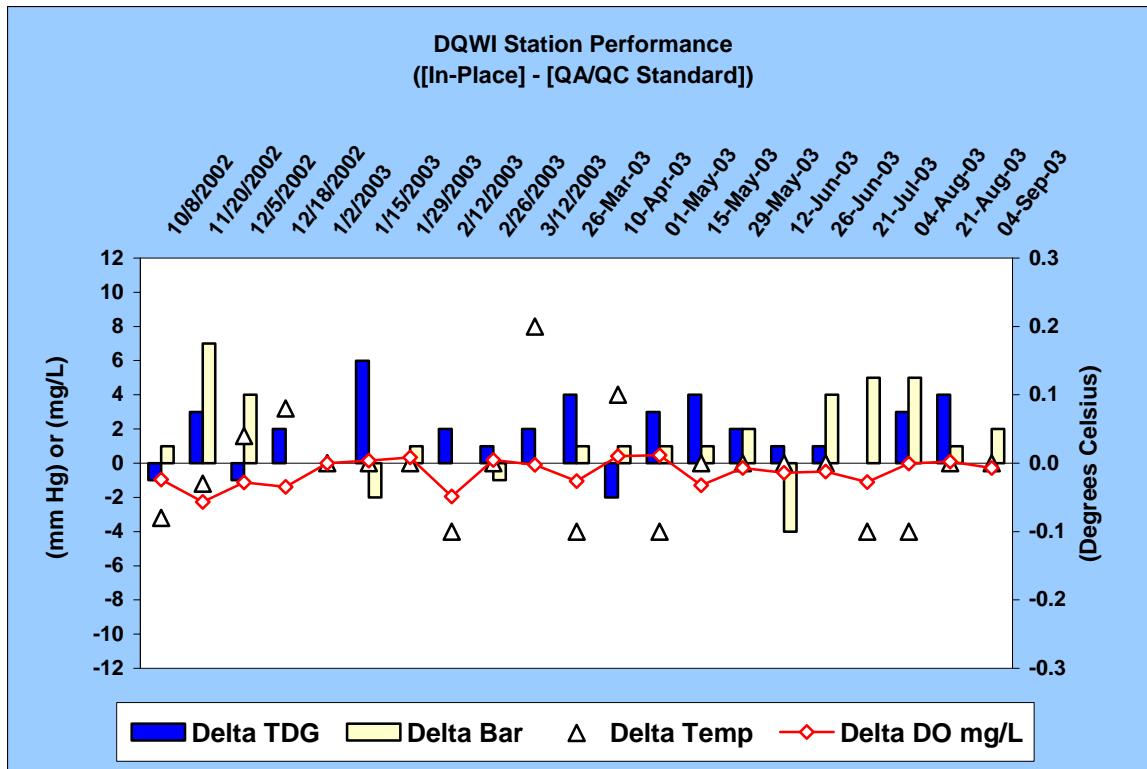
Data missing on June 5, 2003, due to Sonde # 4 going down.



Station ID	QA/QC Sonde	In-Place Sonde	Deployment Date	Delta TDG	Delta Bar	Delta DO mg/L	Delta Temp
ANQW	17		26-Mar-03	0			
ANQW	20	17	10-Apr-03	-4	1	0.55	0.2
ANQW	16	20	30-Apr-03	-1	1	-0.65	0.0
ANQW	12	16	15-May-03	1	0	0.01	0.0
ANQW	15	12	29-May-03	-1	0	-0.18	-0.1
ANQW	17	15	12-Jun-03	0	0	-0.41	0.0
ANQW	3	17	26-Jun-03	2	0	-0.51	-0.1
ANQW	18	3	10-Jul-03	-3	1	-1.22	0.0
ANQW	30	18	21-Jul-03	-1	0	-1.00	0.1
ANQW	7	30	04-Aug-03	0	0	-0.28	0.0
ANQW	20	7	20-Aug-03	-1	-1	-0.32	0.1
ANQW	17	26	03-Sep-03	-1	-1	-1.03	0.2



Station ID	QA/QC Sonde	In-Place Sonde	Deployment Date	Delta TDG	Delta Bar	Delta DO mg/L	Delta Temp
PEKI	23		26-Mar-03	0			
PEKI	7	23	10-Apr-03	3	2	-0.23	0.0
PEKI	14	7	01-May-03	0	2	-0.42	0.0
PEKI	25	14	15-May-03	-1	0	-1.43	0.0
PEKI	8	25	29-May-03	2	0	0.05	-0.1
PEKI	23	8	12-Jun-03	1	1	-0.65	-0.1
PEKI	1	23	26-Jun-03	0	1	-0.64	0.0
PEKI	14	1	10-Jul-03	4	3	-2.85	0.0
PEKI	12	14	21-Jul-03	2	4	-0.59	-0.1
PEKI	20	12	04-Aug-03	2	2	-0.61	0.1
PEKI	23	20	20-Aug-03	3	1	-0.47	0.0
PEKI	1	23	03-Sep-03	4	1	-0.17	0.0



Station ID	QA/QC Sonde	In-Place Sonde	Deployment Date	Delta TDG	Delta Bar	Delta DO mg/L	Delta Temp
DWQI	23		8-Oct-02	-1	1	-0.96	-0.1
DWQI	6	23	20-Nov-02	3	7	-2.27	0.0
DWQI	23	6	5-Dec-02	-1	4	-1.12	0.0
DWQI	17	23	18-Dec-02	2	0	-1.39	0.1
DWQI	26	17	2-Jan-03	0	0	0.00	0.0
DWQI	30	26	15-Jan-03	6	-2	0.15	0.0
DWQI	8	30	29-Jan-03	0	1	0.34	0.0
DWQI	5	8	12-Feb-03	2	0	-1.95	-0.1
DWQI	3	5	26-Feb-03	1	-1	0.18	0.0
DWQI	27	3	12-Mar-03	2	0	-0.10	0.2
DWQI	4	27	26-Mar-03	4	1	-1.04	-0.1
DWQI	28	4	10-Apr-03	-2	1	0.42	0.1
DWQI	1	28	01-May-03	3	1	0.46	-0.1
DWQI	11	1	15-May-03	4	1	-1.30	0.0
DWQI	7	11	29-May-03	2	2	-0.28	0.0
DWQI	26	7	12-Jun-03	1	-4	-0.57	0.0
DWQI	28	26	26-Jun-03	1	4	-0.49	0.0
DWQI	25	28	21-Jul-03	0	5	-1.10	-0.1
DWQI	27	25	04-Aug-03	3	5	-0.01	-0.1
DWQI	20	27	21-Aug-03	4	1	0.09	0.0
DWQI	8	20	04-Sep-03	0	2	-0.29	0.0

APPENDIX C

**2003 Outlying, Invalid, and Missing
Sonde Quality Assurance/Quality Control
Calibration Delta Values
(HDR 2003)**

**2003 Outlying, Invalid, and Missing Sonde
Quality Assurance/Quality Control Calibration Delta Values**

Delta Base TDG		
Entry Number	Sonde Admin #	Delta Base TDG
201	27	nd
173	20	nd
248	27	nd
264	17	nd
271	20	nd
192	8	8
232	-8	8

Delta Pressure TDG		
Entry Number	Sonde Admin #	Delta Pres TDG
201	27	nd
173	20	nd
248	27	nd
264	17	nd
271	20	nd
192	8	8

Delta Temperature		
Entry Number	Sonde Admin #	Delta Temp
201	27	nd
173	20	nd
248	27	nd
264	17	nd
271	20	nd

TDG - Total Dissolved Gas

nd - no data

blue - outlying data point

red - invalid data point

APPENDIX D

**2003 Outlying, Invalid, and Missing
Station Quality Assurance/Quality Control
Comparison Values
(HDR 2003)**

2003 Outlying, Invalid, and Missing Station
Quality Assurance/Quality Control Comparison Values

Delta Total Dissolved Gas					Delta Bar		
Entry Number	Station ID	QA/QC Sonde	In-Place Sonde	Delta TDG	Entry Number	Station ID	Delta Bar
3	LGNW	17	16	-5	1	DWQI	7
21	MCQW	18		-12	37	MCPW	5
39	MCQW	15	4	-8	54	MCPW	6
38	PAQW	2	30	-5	86	MCPW	7
84	MCQO	5	16	7	108	PEKI	nd
52	DWQI	30	26	6	99	MCPW	5
108	PEKI	23		nd	112	MCPW	5
97	PAQW	14	19	nd	128	MCPW	5
144	PAQW	28	3	-7	142	MCPW	5
192	MCPW	8	12	5	160	MCPW	5
105	LMNW	3		nd	176	MCPW	6
102	LMN	20		nd	105	LMNW	nd
104	LGSW	28		nd	117	LMNW	-7
189	LGSW	27	20	9	133	LMNW	-6
103	LGS	8		nd	163	LMNW	-8
118	LGS	16	8	10	178	LMNW	-10
184	LGS	6	17	5	197	LMNW	7
107	LGNW	10		nd	102	LMN	nd
106	LEWI	26		nd	104	LGSW	nd
173	LEWI	20	4	nd	103	LGS	nd
188	LEWI	4	20	7	107	LGNW	nd
203	LEWI	6	13	6	106	LEWI	nd
161	IHR	6	23	10	173	LEWI	nd
109	ANQW	17		nd	109	ANQW	nd
233	PAQW	26	15	-20	235	MCPW	nd
209	MCQW	21	10	-9	207	MCPW	6
235	MCPW	23	8	-9	237	MCPW	5
255	MCPW	25	16	-6	220	DWQI	5
217	LWG	13	12	-8	248	DWQI	5
218	LGSW	20	25	-5			
265	LGSW	17	20	6			

nd - no data

blue - outlying data point

red - invalid data point

Delta Temperature					Delta Dissolved Oxygen Milligrams per Liter				
Entry Number	Station ID	QA/QC Sonde	In-Place Sonde	Delta Temp	Entry Number	Station ID	QA/QC Sonde	In-Place Sonde	Delta D.O. mg/L
108	PEKI	23		nd	109	ANQW	17		nd
97	PAQW	14	19	nd	122	ANQW	20	17	0.55
105	LMNW	3		nd	140	ANQW	16	20	-0.65
102	LMN	20		nd	202	ANQW	3	17	-0.51
104	LGSW	28		nd	223	ANQW	18	3	-1.22
103	LGS	8		nd	221	ANQW	30	18	-1.00
107	LGNW	10		nd	289	ANQW	17	26	-1.03
106	LEWI	26		nd	12	DWQI	23		-0.96
173	LEWI	20	4	nd	1	DWQI	6	23	-2.27
109	ANQW	17		nd	13	DWQI	23	6	-1.12
84	MCQO	5	16	-0.3	14	DWQI	17	23	-1.39
138	LEWI	18	10	-0.3	94	DWQI	4	27	-1.04
					154	DWQI	11	1	-1.30
					185	DWQI	26	7	-0.57
					69	DWQI	5	8	-1.95
					220	DWQI	25	28	-1.10
					9	IDSW	3	29	nd
					93	IDSW	1	15	-0.65
					131	IDSW	15	11	-0.89
					42	IDSW	20	25	-0.57
					60	IDSW	11	16	-0.84
					5	IHR	25	11	-2.65
					4	IHR	21	25	1.67
					6	IHR	28	21	-1.89
					130	IHR	30	21	-0.79
					161	IHR	6	23	-0.66
					41	IHR	4	28	-0.70
					50	IHR	21	4	-1.35
					75	IHR	25	23	-1.94

nd - no data

blue - outlying data point

red - invalid data point

Delta Dissolve Oxygen Milligrams Per Liter					Delta Dissolve Oxygen Milligrams Per Liter				
Entry Number	Station ID	QA/QC Sonde	In-Place Sonde	Delta D.O. mg/L	Entry Number	Station ID	QA/QC Sonde	In-Place Sonde	Delta D.O. mg/L
106	LEWI	26		nd	54	MCPW	5		-1.26
157	LEWI	21	18	-2.06	128	MCPW	26	30	1.18
173	LEWI	20	4	nd	160	MCPW	16	7	-0.77
188	LEWI	4	20	-1.12	48	MCPW	12	5	1.11
224	LEWI	16	6	-1.18	235	MCPW	23	8	-1.53
219	LEWI	15	16	-2.77	237	MCPW	16	1	-1.42
270	LEWI	16	13	-0.59	53	MCQO	20		-1.21
7	LGNW	16		1.27	36	MCQO	10	20	-0.54
8	LGNW	27	17	-1.17	19	MCQO	30	7	1.43
182	LGNW	3	23	-0.58	145	MCQO	27	23	-0.60
199	LGNW	16	3	-0.54	191	MCQO	20	30	0.52
107	LGNW	10		nd	84	MCQO	5	16	0.68
70	LGNW	17	3	-1.97	210	MCQO	6	17	1.72
247	LGNW	23	8	-1.04	239	MCQO	18	6	-3.13
103	LGS	8		nd	257	MCQO	12	18	-0.63
118	LGS	16	8	-1.09	273	MCQO	7	12	-0.94
262	LGS	1	10	0.60	21	MCQW	18		-1.28
280	LGS	14	1	-1.66	143	MCQW	6	17	1.49
104	LGSW	28		nd	57	MCQW	7	17	1.26
119	LGSW	1	28	-0.60	66	MCQW	27	7	-0.88
102	LMN	20		nd	209	MCQW	21	10	-0.68
116	LMN	25	20	-1.06	38	PAQW	2	30	0.58
179	LMN	16	27	-0.67	97	PAQW	14	19	nd
276	LMN	12	16	-0.77	190	PAQW	15	18	-0.70
105	LMNW	3		nd	47	PAQW	23	8	-1.43
117	LMNW	12	3	-3.13	67	PAQW	10	1	-2.29
148	LMNW	20	8	-1.61	78	PAQW	20	nd	nd
197	LMNW	25	14	-0.91	233	PAQW	26	15	-0.62
31	LWG	4	28	-0.58	238	PAQW	28	3	-0.60
28	LWG	6	4	0.94	108	PEKI	23		nd
136	LWG	12	6	-1.37	156	PEKI	25	14	-1.43
153	LWG	30	12	-0.53	187	PEKI	23	8	-0.65
201	LWG	27	1	-0.63	204	PEKI	1	23	-0.64
45	LWG	7	6	-1.14	206	PEKI	14	1	-2.85
89	LWG	30	6	-0.66	221	PEKI	12	14	-0.59
226	LWG	12	27	0.79	267	PEKI	20	12	-0.61
217	LWG	13	12	1.70					
266	LWG	8	26	-0.90					

nd - no data

blue - outlying data point

red - invalid data point

APPENDIX E

Description of Invalid Quality Assurance/Quality Control Sonde Values (HDR 2003)

Description of Invalid Quality Assurance/Quality Control Sonde Values

Sonde Data

Reporting Period	Entry #	Calibration Date	Sonde ID	Parameter	Value	Comment
First Quarter						No invalid values
Second Quarter						No invalid values
Third Quarter						No invalid values
Fourth Quarter						No invalid values

Station Data

Reporting Period	Entry #	Deployment Date	Station ID	Parameter	Value	Comment
First Quarter						No invalid values
Second Quarter						No invalid values
Third Quarter						No invalid values
Fourth Quarter						No invalid values

APPENDIX F

Description of Missing Quality Assurance/Quality Control Station Values (HDR 2003)

Sonde Calibration Data

Reporting Period	Entry Number	Calibration Date	Sonde ID	Missing Parameters				Explanation
				TDG	DO	Temp	Bar	
First Quarter								No missing values
Second Quarter								No missing values
Third Quarter				X	X	X	X	Calibration was done In the field due to sonde failure
	173	05-Jun-03	20	X	X	X	X	Calibration was done In the field due to sonde failure
	201	19-Jun-03	27	X	X	X	X	Calibration was done In the field due to sonde failure
Fourth Quarter				X	X	X	X	Calibration was done In the field due to sonde failure
	248	04-Aug-03	27	X	X	X	X	Calibration was done In the field due to sonde failure
	264	13-Aug-03	17	X	X	X	X	Calibration was done In the field due to sonde failure
	271	21-Aug-03	20	X	X	X	X	Calibration was done In the field due to sonde failure

Station Comparison Data

Reporting Period	Entry Number	Deployment Date	Station ID	Missing Parameters				Explanation
				TDG	DO	Temp	Bar	
First Quarter	9	19-Nov-02	IDSW	x	x	x		Sonde # 29 was not working.
Second Quarter	78	5-Mar-03	PAQW	x	x	x		New sonde for the PAQW station after rebuild.
Third Quarter	108	26-Mar-03	PEKI	x	x	x	x	Spring Start up
	97	24-Mar-03	PAQW	x	x	x	x	Sonde was not working
	105	24-Mar-03	LMNW	x	x	x	x	Spring Start up
	102	24-Mar-03	LMN	x	x	x	x	Spring Start up
	104	25-Mar-03	LGSW	x	x	x	x	Spring Start up
	103	25-Mar-03	LGS	x	x	x	x	Spring Start up
	107	03-Apr-05	LGNW	x	x	x	x	Spring Start up
	106	26-Mar-03	LEWI	x	x	x	x	Spring Start up
	173	05-Jun-03	LEWI	x	x	x	x	Sonde was not working
	109	26-Mar-03	ANQW	x	x	x	x	Spring Start up
Fourth Quarter								No missing values

APPENDIX G

Problems, Probable Causes, and Repairs at the Fixed Monitoring Stations

Table G-1. Problems, probable causes, and repairs at the Anatone (ANQW) Fixed-Monitoring System (FMS) Station.

Date	Time	Problem	Probable Cause	Repair
1-Apr-03	0700	Bad Gas Pressure and Gas Percent	Unknown	
1-Apr-03	1300	Bad Temperature Data	Unknown	
3-Apr-03	2200	Bad Data	Unknown	
4-Apr-03	1800	Bad Data	Unknown	
5-Apr-03	1200 & 1400	Bad Gas Percent	Unknown	
6-Apr-03	2100	Bad Gas Percent	Unknown	
7-Apr-03	2100	Bad Gas Percent	Unknown	
8-Apr-03	2300	Gas Spike (-5%)	Unknown	
10-Apr-03	1300	Low Gas Pressure & Gas Percent	Due to Maintenance (HDR)	
21-Apr-03	1600	Bad Barometer Reading & Gas Percent	Unknown	
9-May-03	2000	Bad Barometer Reading & Gas Percent	Unknown	
15-May-03	2000	Bad Temperature Data	Unknown	
16-May-03	2300	Bad Barometer Reading & Gas Percent	Unknown	
22-May-03	1800	Bad Barometer Reading & Gas Percent	Unknown	
8-Jun-03	0300 & 0500	Bad Gas Percent	Unknown	
8-Jun-03	0700-0900	Bad Gas Percent	Unknown	
9-Jun-03	0400-0500	Bad Gas Percent	Unknown	
12-Jun-03	1300	Gas & Temperature Spike (gas -3%, tmp +6f)	Due to Maintenance (HDR)	
19-Jun-03	0100	Bad Temperature Data	Unknown	
19-Jun-03	2100	Bad Gas Pressure and Gas Percent	Unknown	
20-Jun-03	1000	Bad Gas Pressure and Gas Percent	Unknown	
22-Jun-03	0100 & 0300	Bad Temperature Data	Unknown	
22-Jun-03	2000	Bad Barometer Reading & Gas Percent	Unknown	
22-Jun-03	2200-2400	No Data	Unknown	
23-Jun-03	0500	Bad Barometer Reading & Gas Percent	Unknown	
21-Jul-03	1200	Bad Probe Data	Due to Maintenance (HDR)	
27-Jul-03	2000	Bad Barometer Reading & Gas Percent	Unknown	
13-Aug-03	0300-0400	Bad Gas Percent	Unknown	
2-Sep-03	0400	Bad Data or No Data	Unknown	
2-Sep-03	0500	Bad Temperature Data	Unknown	
2-Sep-03	0700-0800	Bad Temp, Barometer & Gas Percent	Unknown	
2-Sep-03	0900	Bad Temp, Gas Pressure & Gas Percent	Unknown	
9-Sep-03	2200	Bad Barometer Reading & Gas Percent	Unknown	
13-Sep-03	1500	Bad Barometer Reading & Gas Percent	Unknown	

Table G-2. Problems, probable causes, and repairs at the Dworshak (DWQI) FMS station.

Date	Time	Problem	Probable Cause	Repair
8-Oct-02	0900	Bad Probe Data	Due to Maintenance (HDR)	
16-Jan-03	1100-1300	Gas Spike (-4%)	Unknown	
12-Mar-03	1700	Bad Probe Data	Due to Maintenance (HDR)	
29-Mar-03	1700-2400	No Data	Unknown	
18-May-03	1700-1800	Suspicious Probe Data {temp -1f, pres -40, % (-6%)}	Unknown	
22-May-03	1800-2400	No Data	Sutron set to "Transmit Off"	
23-May-03	0100-0700	No Data	Sutron set to "Transmit Off"	Turned Sutron to "On and TX"
1-Jun-03	0200-2400	No Data	Sutron set to "Transmit Off"	
2-Jun-03	0100-0715	No Data	Sutron set to "Transmit Off"	Turned Sutron to "On and TX"
2-Jun-03	0100-2400	No Data	Blown Transmitter	
3-Jun-03	0100-2400	No Data	Blown Transmitter	
4-Jun-03	0100-1600	No Data	Blown Transmitter	Replaced Sutron @ 1600
4-Jun-03	1600-2400	Barometer out of Calibration (Gas 3% low)	Slope not set to replacement barometer	
5-Jun-03	0700-1700	Barometer not logging	Unknown	Calibrated barometer
14-Jun-03	0100-0200	Bad Gas Percent (+9%)	Unknown	
16-Jun-03	0200-0600	Bad Temperature & Gas Percent	Unknown	
17-Jun-03	0600	Gas Spike (+6%)	Unknown	
19-Jun-03	0700	Gas Spike (+6%)	Unknown	
20-Jun-03	0600	Gas Spike (+6%)	Unknown	
27-Jun-03	0200-1500	Bad Data or No Data	Scrambled Data	Re-programmed Sutron
28-Jun-03	1400 & 1600	Bad Gas Pressure and Gas Percent	Unknown	
29-Jun-03	1800	Bad Gas Pressure and Gas Percent	Unknown	
29-Jun-03	2100-2400	No Data	Scrambled Data	Re-programmed Sutron
30-Jun-03	0100-1300	Bad Data or No Data	Blown Transmitter	Replaced Sutron
30-Jun-03	1500	No Data	Unknown	
4-Jul-03	1800-2400	Sutron Quit Working	Unknown	
5-Jul-03	0100-2400	Sutron Quit Working	Scrambled Data	Replaced Sutron
6-Jul-03	0100-2400	Sutron Quit Working	Bad battery cells overcharging Sutron	Replaced Battery and bad charger
7-Jul-03	0100-1300	Sutron Quit Working	Replacement Charger Bad (Fast Charge Only)	Replaced Charger 2 more times for good one
11-Jul-03	0900	Bad Probe Data	Suspect Due to Maintenance (HDR)	Suspect Missing Calibration Record
21-Jul-03	1400-1500	Gas Spike (+6%)	Spill, Gate Adjustments, or air injection from dam	HDR on site 1730-1840 for maintenance
22-Jul-03	1000-1100	Bad Data or No Data	Unknown	
2-Aug-03	1000-1100	No Data	Unknown	
2-Aug-03	1200	Bad Gas Pressure and Gas Percent	Unknown	
11-Aug-03	1100-1300	No Data	Unknown	
20-Aug-03	0200-0900	No Data	Unknown	
9-Sep-03	1200	Bad Gas Pressure and Gas Percent	Unknown	

Table G-2. Problems, probable causes, and repairs at the Peck (PEKI) FMS station (Continued).

Date	Time	Problem	Probable Cause	Repair
10-Apr-03	1700	Bad Probe Data	Due to Maintenance (HDR)	
12-Jun-03	1800	Bad Probe Data	Due to Maintenance (HDR)	
26-Jun-03	1700	Bad Probe Data	Due to Maintenance (HDR)	
10-Jul-03	1700	Bad Probe Data	Due to Maintenance (HDR)	
19-Jul-03	500	Bad Gas Pressure & Gas Percent	Unknown	
21-Jul-03	1600-1700	Bad Probe Data	Due to Maintenance (HDR)	

Table G-3. Problems, probable causes, and repairs at the Lewiston (LEWI) FMS station.

Date	Time	Problem	Probable Cause	Repair
10-Apr-03	1500	Gas Pres & % Spike (+7% > +3%) Stayed up	Due to Maintenance (HDR)	Site probe drift out of calibration
31-May-03	0200-2400	Bad Probe Data	Pinched Hydrolab Cable	
1-Jun-03	0100-2400	Bad Probe Data	Pinched Hydrolab Cable	
2-Jun-03	0100-1200	Bad Probe Data	Pinched Hydrolab Cable	Replaced Cable
3-Jun-03	1100-2400	Bad Gas Pressure and Gas Percent		
4-Jun-03	0100-2400	Bad Gas Pressure and Gas Percent		
5-Jun-03	0100-1400	Bad Gas Pressure and Gas Percent	Bad Hydrolab TDG Sensor	Replaced Probe
12-Jun-03	1600	Bad Probe Data	Due to Maintenance (HDR)	
12-Jun-03	1800-2400	Bad Probe Data		
13-Jun-03	0100-2400	Bad Probe Data		
14-Jun-03	0100-2400	Bad Probe Data		
15-Jun-03	0100-2400	Bad Probe Data		
16-Jun-03	0100-1600	Bad Probe Data	Cable shorts, pinches, connections	
18-Jun-03	1600-2400	Bad Probe Data		
19-Jun-03	0100-2400	Bad Probe Data		
20-Jun-03	0100-2400	Bad Probe Data		
21-Jun-03	0100-2400	Bad Probe Data		
22-Jun-03	0100-2400	Bad Probe Data		
23-Jun-03	0100-1300	Bad Probe Data	Cable shorts, pinches, connections	
24-Jun-03	2000-2400	Bad Gas Pressure and Gas Percent		
25-Jun-03	0100-1200	Bad Gas Pressure and Gas Percent	Bad TDG Sensor	Replaced Probe
26-Jun-03	1500	Bad Probe Data	Due to Maintenance (HDR)	
10-Jul-03	1500	Bad Probe Data	Due to Maintenance (HDR)	
30-Jul-03	2200-2400	Bad Probe Data		
1-Aug-03	0100-1500	Bad Probe Data	Severed Hydrolab Cable	Replaced Cable
3-Sep-03	1600	Bad Probe Data	Due to Maintenance (HDR)	

Table G-4. Problems, probable causes, and repairs at the Lower Granite forebay (LWG) FMS station.

Date	Time	Problem	Probable Cause	Repair
26-Nov-02	1700	No Data	Unknown	
27-Nov-02	0100	Bad Gas Percent	Unknown	
9-May-03	1500	Bad Probe Data	Due to Maintenance (HDR)	
22-Sep-03	1600	Bad Probe Data	DTM?	No Calibration Records Past 11 Sep 03

Table G-5. Problems, probable causes, and repairs at the Lower Granite tailwater (LGNW) FMS station.

Date	Time	Problem	Probable Cause	Repair
7-Oct-02	1400	Bad Probe Data	Due to Maintenance (HDR)	
6-Nov-02	2100	Bad Gas Percent	Unknown	
20-Nov-02	0900-2400	No Data	Unknown	HDR was here from 1110-1310, looked OK when calibrated
21-Nov-02	0100-0800	No Data	Unknown	
21-Nov-02	1400	No Data	Unknown	
26-Nov-02	1000-1700	Gas Spike (+10%)	Caused by Spill	
3-Dec-02	1000-2000	Gas Spike (+37%)	Possibly caused by lockages	
4-Dec-02	1400	Bad Probe Data	Due to Maintenance (HDR)	
18-Dec-02	1100	Bad Probe Data	Due to Maintenance (HDR)	
24-Dec-02	0100	Bad Probe Data	Unknown	
5-Jan-03	1200	Gas Spike (+11%)	Possibly lockage or maintenance	
17-Jan-03	0400	Bad Gas Percent	Unknown	
19-Jan-03	1700	Gas Spike (+5%)	Lockages at low flow	
21-Jan-03	1000	Gas Spike (+14%)	Lockages at low flow	
22-Jan-03	1300	Gas Spike (+10%)	Lockages at low flow	
23-Jan-03	2300	Bad Temperature Data	Unknown	
24-Jan-03	1600	Gas Spike (+3%)	Lockages at low flow	
26-Jan-03	0300	Bad Gas Pressure & Gas Percent	Unknown	
12-Feb-03	1300	Bad Probe Data	Due To Maintenance (HDR)	
14-Feb-03	Unknown	Battery Overcharging	Charger Stuck on Fast Charge	Replaced Charger
20-Feb-03	1200 & 1900	Gas Spikes (+4 & 10%)	Could be Lockages at low flow	
12-Mar-03	1300	Bad Probe Data	Due To Maintenance (HDR)	
18-Mar-03	0200	Gas Spike (+4%)	Could be Lockages at low flow	
21-Mar-03	1000	Gas Spike (+2%)	Could be Lockages at low flow	
22-Mar-03	1400	Gas Spike (+4%)	Could be Lockages at low flow	
25-Mar-03	1500-2400	Bad Probe Data	Possible Connector Problem	
26-Mar-03	0100-1600	Bad Probe Data	Possible Connector Problem	Checked System
29-Mar-03	2100-2400	No Data	Unknown	

Table G-6. Problems, probable causes, and repairs at the Lower Granite tailwater (LGNW) FMS station.

Date	Time	Problem	Probable Cause	Repair
2-Apr-03	1300-2400	Rope stuck in pipe at 6' since 3/26/03 (No Probe Data)	Unknown	Cut Rope and Removed Probe
3-Apr-03	0100-1300	Rope stuck in pipe at 6' since 3/26/03 (No Probe Data)	Unknown	Repaired Rope & re-deployed at 1400
9-Apr-03	1500	Bad Probe Data	Due To Maintenance (HDR)	
10-Apr-03	1200	Bad Gas Pressure & Gas Percent	Unknown	
9-May-03	1400	Bad Temperature Data	Due To Maintenance (HDR)	
28-Apr-03	1200	Bad Temperature Data	Unknown	
3-Jun-03	1200	Gas Spike (+7%)	Unknown	
5-Jun-03	1200	Bad Barometer Data & Gas Percent	Unknown	
5-Jun-03	1300	Bad Probe Data	Due To Maintenance (HDR)	
10-Jun-03	0200	Bad Gas Percent	Unknown	
17-Jun-03	0900	Bad Barometer Data & Gas Percent	Unknown	
29-Jun-03	0200	Bad Gas Pressure & Gas Percent	Unknown	
2-Jul-03	1500	Bad Probe Data	Due To Maintenance (HDR)	
7-Jul-03	0600	Bad Gas Pressure & Gas Percent	Unknown	
14-Jul-03	0200	Bad Gas Pressure & Gas Percent	Unknown	
21-Jul-03	0500	Bad Temperature Data	Unknown	
21-Jul-03	1000	Bad Gas Pressure & Gas Percent	Unknown	
30-Jul-03	1800-1900	Gas Spike (+9%)	Caused by Spill	
13-Aug-03	1700-2400	Elevated Gas Readings (111.8-126.3%)	See Aug 18	HDR on site 1415-1500 for maintenance
14-Aug-03	0100-2400	Elevated Gas Readings (114.0-130.9%)	See Aug 18	Site visit 1300-1400 (All 3 probes measured the same)
15-Aug-03	0100-2400	Elevated Gas Readings (118.0-132.8%)	See Aug 18	
16-Aug-03	0100-2400	Elevated Gas Readings (122.3-131.8%)	See Aug 18	
17-Aug-03	0100-2400	Elevated Gas Readings (117.6-131.1%)	See Aug 18	
18-Aug-03	0100-1400	Elevated Gas Readings (110-134.2%)	Project conducted "Speed no Load" test on unit 5	Project test unit 5 Aug 13-18
19-Aug-03	0700	Gas Spike (+7%)	Unknown	Increased total outflow at this time
21-Aug-03	0800	Gas Spike (+8%)	Unknown	
28-Aug-03	1400	Bad Probe Data	Due To Maintenance (HDR)	
13-Sep-03	1200	Bad Gas Pressure & Gas Percent	Unknown	

Table G-7. Problems, probable causes, and repairs at the Little Goose forebay (LGS) FMS station.

Date	Time	Problem	Probable Cause	Repair
9-May-03	1200	Bad Probe Data	Due to Maintenance (HDR)	
5-Jun-03	1000	Bad Probe Data	Due to Maintenance (HDR)	
19-Jun-03	1100	Bad Probe Data	Due to Maintenance (HDR)	
2-Jul-03	1200	Bad Probe Data	Due to Maintenance (HDR)	

Table G-8. Problems, probable causes, and repairs at the Little Goose tailwater (LGSW) FMS station.

Date	Time	Problem	Probable Cause	Repair
9-Apr-03	1100	Bad Probe Data	Due to Maintenance (HDR)	
2-May-03	1000-1300	Gas Spike (+7%)	Unknown	
9-May-03	1100	Bad Probe Data	Due to Maintenance (HDR)	
3-Jun-03	1900-2000	Gas Spike (+32%)	Project greatly increased spill for debris passage	
11-Jun-03	2200-2400	Gas Spike (+30%)	Project greatly increased spill for debris passage	
4-Aug-03	2100-2300	Gas Spike (+8%)	Project greatly increased total outflow	
28-Aug-03	1100	Bad Probe Data	Due to Maintenance (HDR)	
21-Sep-03	1600	Bad Barometer & Gas Percent	Unknown	

Table G-9. Problems, probable causes, and repairs at the Lower Monumental forebay (LMN) FMS station.

Date	Time	Problem	Probable Cause	Repair
5-Jun-03	2100	Bad Probe Data	Unknown	
27-Jun-03	1400-2400	No Data	Unknown	
28-Jun-03	0100-2400	No Data	Unknown	
29-Jun-03	0100-1300	No Data	Unknown	Problem fixed itself somehow
12-Aug-03	1300	Bad Gas Pressure & Gas Percent	Due to Maintenance	
29-Aug-03	2100	Bad Temperature Data	Unknown	

Table G-10. Problems, probable causes, and repairs at the Lower Monumental tailwater (LMNW) FMS station.

Date	Time	Problem	Probable Cause	Repair
31-Mar-03	1100	Temperature Spike (+8F)	Due to Maintenance (HDR)	
8-Apr-03	1400	Bad Probe Data	Due to Maintenance (HDR)	
23-Apr-03	1300	Bad Probe Data	Due to Maintenance (HDR)	
3-Jun-03	1400	Bad Probe Data	Due to Maintenance (HDR)	
10-Jun-03	2100 & 2400	Bad Temperature Data	Unknown	
11-Jun-03	0600	Bad Gas Percent	Unknown	
12-Jun-03	2200-2400	Bad Temerature & Gas Percent	Unknown	
13-Jun-03	2000	Bad Temperature Data	Unknown	
14-Jun-03	0600-1300	Bad Gas Percent	Unknown	
14-Jun-03	2200	Bad Gas Percent	Unknown	
14-Jun-03	0600-0700	Bad Temperature Data	Unknown	
14-Jun-03	1000-1300	Bad Temperature Data	Unknown	
15-Jun-03	0600-0800	Bad Temperature & Gas Percent	Unknown	
15-Jun-03	1500 & 1800	Bad Gas Percent	Unknown	
15-Jun-03	1800-1900	Bad Temperature Data	Unknown	
16-Jun-03	0200-0900	Bad Temperature & Gas Percent	Unknown	
16-Jun-03	1000	Bad Temperature Data	Unknown	
16-Jun-03	1400-2400	Bad Temperature & Gas Percent	Unknown	
17-Jun-03	0100-0200	Bad Barometer & Gas Percent	Unknown	
17-Jun-03	0100	Bad Temperature Data	Unknown	
17-Jun-03	0600-1500	No Data	Unknown	
17-Jun-03	1600	Bad Gas Pressure & Gas Percent	Unknown	
17-Jun-03	2200-2400	Bad Temperature & Gas Percent	Unknown	
18-Jun-03	0100-2300	Bad Barometer, Gas Pressure & Gas Percent	Unknown	HDR on site 1110-1210 for maintenance
18-Jun-03	0100-1200	Bad Temperature Data	Unknown	HDR on site 1110-1210 for maintenance
18-Jun-03	1400-2200	Bad Temperature Data	Unknown	HDR on site 1110-1210 for maintenance
19-Jun-03	0200-2400	No Data or Bad Data	Unknown	
20-Jun-03	0100-0800	No Data or Bad Data	Unknown	
20-Jun-03	1400-2100	No Data or Bad Data	Unknown	
20-Jun-03	2400	Bad Gas Pressure & Gas Percent	Unknown	
21-Jun-03	1000-2400	No Data	Unknown	
22-Jun-03	0100	No Data	Unknown	
22-Jun-03	1400-2400	No Data	Antenna Vandalism, Turned 180 degrees	Corrected antenna orientation
30-Jun-03	1500	Bad Temperature Data	Unknown	
14-Jul-03	1700	Bad Gas Pressure & Gas Percent	Unknown	
23-Jul-03	1500	Gas Spike (+6%)	Unknown	
25-Jul-03	1900	Bad Gas Pressure & Gas Percent	Unknown	
26-Jul-03	13, 15, 1700	Bad Temperature Data	Unknown	
27-Jul-03	0800 & 1700	Bad Barometer & Gas Percent	Unknown	
29-Jul-03	1500	Bad Barometer & Gas Percent	Unknown	
31-Jul-03	1400	Bad Barometer & Gas Percent	Unknown	
31-Jul-03	1500	Bad Gas Pressure & Gas Percent	Unknown	

Table G-11. Problems, probable causes, and repairs at the Lower Monumental tailwater (LMNW) FMS station.

Date	Time	Problem	Probable Cause	Repair
1-Aug-03	1400 & 1800	Bad Barometer & Gas Percent	Unknown	
2-Aug-03	0900	Bad Temperature Data	Unknown	
4-Aug-03	1300	Bad Gas Pressure & Gas Percent	Unknown	
4-Aug-03	1700	Bad Temperature Data	Unknown	
4-Aug-03	2300	Bad Barometer & Gas Percent	Unknown	
5-Aug-03	1200	Bad Gas Pressure & Gas Percent	Unknown	
6-Aug-03	0700	Bad Temperature Data	Unknown	
6-Aug-03	1300	Bad Gas Pressure & Gas Percent	Unknown	
10-Aug-03	1700	Bad Barometer & Gas Percent	Unknown	
11-Aug-03	0900	Bad Temperature Data	Unknown	
15-Aug-03	1200	Bad Temperature Data	Unknown	
15-Aug-03	1700	Bad Gas Pressure & Gas Percent	Unknown	
16-Aug-03	1200	Bad Temperature Data	Unknown	
17-Aug-03	1300	Bad Barometer, Gas Pressure & Gas Percent	Unknown	
18-Aug-03	1000	Bad Gas Pressure & Gas Percent	Unknown	
21-Aug-03	1300	Bad Gas Pressure & Gas Percent	Unknown	
23-Aug-03	1300	Bad Gas Percent	Unknown	
24-Aug-03	2100	Bad Gas Percent	Unknown	
25-Aug-03	1300	Bad Temperature Data	Unknown	
27-Aug-03	1700	Bad Temperature Data	Unknown	
29-Aug-03	1000	Bad Temperature Data	Unknown	
29-Aug-03	1100	Bad Gas Percent	Unknown	
1-Sep-03	1600	Bad Temperature Data	Unknown	
4-Sep-03	1300	Bad Temperature Data	Unknown	
5-Sep-03	1300	Bad Barometer & Gas Percent	Unknown	
5-Sep-03	1500	Bad Gas Pressure & Gas Percent	Unknown	
6-Sep-03	0900	Bad Barometer & Gas Percent	Unknown	
12-Sep-03	1800	Gas Spike (+10%)	Unknown	

Table G-12. Problems, probable causes, and repairs at the Ice Harbor forebay (IHR) FMS station.

Date	Time	Problem	Probable Cause	Repair
19-Nov-02	0900-1000	Gas Jumped 1.9%	Due to Maintenance (HDR)	Probe Drift - Replaced with calibrated probe
3-Dec-02	1300	Bad Probe Data	Due to Maintenance (HDR)	
31-Dec-02	0900	Bad Probe Data	Due to Maintenance (HDR)	
11-Feb-03	1500	Gas Spike (+2%)	Unknown	
25-Feb-03	1300	Bad Probe Data	Due to Maintenance (HDR)	
11-Mar-03	0900	Bad Probe Data	Due to Maintenance (HDR)	
10-May-03	1400	Bad Barometer Data & Gas Percent	Unknown	
20-May-03	1200	Bad Probe Data	Due to Maintenance (HDR)	
18-Jun-03	0600-0900	No Data	Unknown	HDR on site 0744 to 0850, looked OK when calibrated
12-Aug-03	1800	Bad Probe Data	Unknown	HDR on site 0835-0920 for maintenance
8-Sep-03	1600	Bad Probe Data	DTM?	No calibration record after 11 Sep 03

Table G-13. Problems, probable causes, and repairs at the Ice Harbor tailwater (IDSW) FMS station.

Date	Time	Problem	Probable Cause	Repair
19-Nov-02	1100	Bad Probe Data	Due to Maintenance (HDR)	
24-Nov-02	0500-2400	No Data	Blown Sutron Transmitter	
25-Nov-02	0100-2400	No Data	Blown Sutron Transmitter	
26-Nov-02	0100-2400	No Data	Blown Sutron Transmitter	
27-Nov-02	0100-0800	No Data	Blown Sutron Transmitter	Replaced Sutron
27-Nov-02	0900-2400	Scrambled Data		
28-Nov-02	0100-2400	Scrambled Data		
29-Nov-02	0100-2400	Scrambled Data		
30-Nov-02	0100-2400	Scrambled Data		
1-Dec-02	0100-2400	Scrambled Data		
2-Dec-02	0100-0900	Scrambled Data	Depth not programmed into sutron	Re-programmed Sutron
3-Dec-02	1100	Bad Probe Data	Due to Maintenance (HDR)	
31-Dec-02	1100	Bad Probe Data	Due to Maintenance (HDR)	
28-Jan-03	1000	Bad Probe Data	Due to Maintenance (HDR)	
11-Feb-03	0900	Bad Probe Data	Due to Maintenance (HDR)	
27-Mar-03	0400	Bad Gas Pressure and Percent	Unknown	
23-Apr-03	1100	Bad Probe Data	Due to Maintenance (HDR)	
3-Jun-03	1200	Bad Probe Data	Suspect Due to Maintenance (HDR)	Missing data calibration sheet
18-Jun-03	1000	Bad Probe Data	Due to Maintenance (HDR)	
18-Jun-03	1000	Probe stuck in pipe at 5.5 feet depth	rope knot, rope twist or bad pulley	See 29 June 2003
29-Jun-03	1200	Temperature Spike (+15f) & Gas Spike (-12%)	Due to Maintenance (HDR)	Deployed probe out of pipe (14' depth)
30-Jul-03	1200	Bad Probe Data	Due to Maintenance (HDR)	
13-Sep-03	1700-2400	Bad Probe Data		
14-Sep-03	0100-2400	Bad Probe Data		
15-Sep-03	0100-2400	Bad Probe Data		
16-Sep-03	0100-1500	Bad Probe Data	Bad Sonde Cable	Using check cable for now

Table G-14. Problems, probable causes, and repairs at the Pasco (PAQW) FMS station.

Date	Time	Problem	Probable Cause	Repair
9-Oct-02	0600-0900	Bad Barometer & Gas Percent	New SDI Barometer Sync Problem	
18-Nov-02	1500	Bad Probe Data	Due to Maintenance (HDR)	
16-Dec-02	1500	Bad Probe Data	Due to Maintenance (HDR)	
30-Dec-02	1600	Bad Probe Data	Due to Maintenance (HDR)	
24-Jan-03	2100-2400	Dropped 4 Hour Cycle	Unknown Transmission Problem	
24-Feb-03	0900 & 1400	Bad Probe Data	Due to Maintenance (HDR)	
4-Mar-03	1700-2400	No Data	Station Down for Rebuild	
5-Mar-03	0100-1200	No Data	Station Down for Rebuild	Restarted at 1300
24-Mar-03	1000-1400	Bad Probe Data	Unknown	
21-Apr-03	1600	Gas Spike (-3%)	Due to Maintenance (HDR)	
19-May-03	1500	Bad Probe Data	Due to Maintenance (HDR)	
27-Jun-03	0800-1000	Bad Barometer & Gas Percent	New SDI Barometer Sync Problem	
29-Jun-03	0300-0500	Bad Barometer & Gas Percent	New SDI Barometer Sync Problem	
4-Jul-03	0900-1100	Bad Barometer & Gas Percent	New SDI Barometer Sync Problem	
7-Jul-03	1000-1200	Bad Barometer & Gas Percent	New SDI Barometer Sync Problem	
9-Jul-03	1500-1700	Bad Barometer & Gas Percent	New SDI Barometer Sync Problem	
25-Jul-03	1800-2200	Bad Barometer & Gas Percent	New SDI Barometer Sync Problem	
27-Jul-03	0300-0500	Bad Barometer & Gas Percent	New SDI Barometer Sync Problem	
30-Jul-03	1500-1700	Bad Barometer & Gas Percent	New SDI Barometer Sync Problem	
11-Aug-03	1600	Bad Probe Data	Due to Maintenance (HDR)	
14-Aug-03	1100-1300	Bad Barometer & Gas Percent	New SDI Barometer Sync Problem	
15-Aug-03	2000-2200	Bad Barometer & Gas Percent	New SDI Barometer Sync Problem	
18-Aug-03	2100-2400	Bad Barometer & Gas Percent	New SDI Barometer Sync Problem	
19-Aug-03	0100-0200	Bad Barometer & Gas Percent	New SDI Barometer Sync Problem	
25-Aug-03	0900-1100	Bad Barometer & Gas Percent	New SDI Barometer Sync Problem	
2-Sep-03	1000-1200	Bad Barometer & Gas Percent	New SDI Barometer Sync Problem	
28-Sep-03	0200-0500	No Data	Unknown	

Table G-15. Problems, probable causes, and repairs at the McNary forebay, Oregon side (MCQO) FMS station.

Date	Time	Problem	Probable Cause	Repair
3-Oct-02	1400	Bad Probe Data	Due to Maintenance (HDR)	
18-Nov-02	1300	Bad Probe Data	Due to Maintenance (HDR)	
16-Dec-02	1200	Bad Probe Data	Due to Maintenance (HDR)	
30-Dec-02	1400	Bad Probe Data	Due to Maintenance (HDR)	
27-Jan-03	1500	Bad Probe Data	Due to Maintenance (HDR)	
6-Feb-03 - 12-Feb-03	Mid Day	Gas & Temp Spikes	Hot Days and Cool Nights	HDR on site 2/10/03, performed regular maintenance
24-Feb-03	1200	Bad Probe Data	Due to Maintenance (HDR)	
7-Apr-03	1200	Bad Probe Data	Due to Maintenance (HDR)	
19-May-03	1300	Bad Probe Data	Due to Maintenance (HDR)	
21-May-03	1600	Suspicious Probe Data {temp -4f, pres -40, % (-4%)}	Unknown	
29-Jul-03	1200	Bad Probe Data	Due to Maintenance (HDR)	
8-Sep-03	1400	Bad Probe Data	DTM?	Very few data records for September

Table G-16. Problems, probable causes, and repairs at the McNary forebay, Washington side (MCQW) FMS station.

Date	Time	Problem	Probable Cause	Repair
3-Oct-02	1500	Bad Probe Data	Due to Maintenance (HDR)	
4-Oct-02	0900-2400	Gas Percent Gradually Increasing	Bad TDG Membrane or Sensor	
5-Oct-02	0100-2400	Gas Percent Gradually Increasing	Bad TDG Membrane or Sensor	
6-Oct-02	0100-2400	Gas Percent Gradually Increasing	Bad TDG Membrane or Sensor	
7-Oct-02	0100-1700	Gas Percent Gradually Increasing	Bad TDG Membrane or Sensor	Replaced entire probe at 1700
18-Nov-02	1200	Bad Probe Data	Due to Maintenance (HDR)	
28-Jan-03	2200-2400	Bad Data	Unknown	
29-Jan-03	0100-0500	Bad Data	Unknown	
3-Feb-03	1300	Bad Probe Data	Unknown	
10-Feb-03	1300	Bad Probe Data	Due to Maintenance (HDR)	
21-Apr-03	1400	Bad Probe Data	Due to Maintenance (HDR)	
23-Jun-03	0000-1400	Bad Gas Pressure & Gas Percent	Bad TDG Membrane (Leaking)	Replaced membrane
11-Aug-03	1200	Bad Probe Data	Due to Maintenance (HDR)	
25-Aug-03	1400-2400	Elevated Gas Readings (113.5-120.9%)	Unknown, Could be upstream project spill	
26-Aug-03	0100-1000	Elevated Gas Readings (117.4-123.7%)	Unknown, Could be upstream project spill	HDR on site 1030-1145 for maintenance

Table G-17. Problems, probable causes, and repairs at the McNary tailwater (MCPW) FMS station.

Date	Time	Problem	Probable Cause	Repair
16-Dec-02	1400	Bad Probe Data	Due to Maintenance (HDR)	
30-Dec-02	1500	Bad Probe Data	Due to Maintenance (HDR)	Broken motor repaired
8-Jan-03	1600	Gas & Temp Blip	Station Rebuild/Maintenance	
9-Jan-03	1000	Bad Probe Data	Station Rebuild/Maintenance	
10-Jan-03	1000	Bad Probe Data	Station Rebuild/Maintenance	
10-Mar-03	1500-2400	Bad Probe Data	Bad Cable Connection	
11-Mar-03	0100-1100	Bad Probe Data	Bad Cable Connection	Reconnected cable
24-Mar-03	1300	Bad Probe Data	Due to Maintenance (HDR)	
5-May-03	1300-1400	Bad Probe Data	Due to Maintenance (HDR)	
31-May-03	1400-1700	No Data	Unknown	
2-Jun-03	1400	Bad Probe Data	Due to Maintenance (HDR)	
3-Jun-03	2100-2200	Bad Barometer Data & Gas Percent	Unknown	
4-Jun-03	0300-1700	Bad Barometer Data & Gas Percent	Unknown	
5-Jun-03	0100-1400	Bad Barometer Data & Gas Percent	Broken wire on Connection to Barometer	Replaced barometer
15-Jun-03	0100-1700	Bad Gas Percent	Unknown	
27-Jun-03	0200-1300	No Data	Sutron Not Working Properly	Checked Sutron program
27-Jun-03	1400-2400	Bad Gas Pressure and Gas Percent	Unknown	
28-Jun-03	0100-2400	Bad Gas Pressure and Gas Percent	Unknown	
29-Jun-03	0100-2400	Bad Gas Pressure and Gas Percent	Unknown	
30-Jun-03	0100-1100	Bad Gas Pressure and Gas Percent	Sutron Programming Error	Checked Sutron program
15-Jul-03	0900	Bad Probe Data	Due to Maintenance (HDR)	
8-Sep-03	1200	Bad Probe Data	DTM?	Very few data records for September

Table G-18. Problems and probable causes at the Division CHROMS website.

Date	Time	Problem	Probable Cause	Repair
2-Oct-02	0500-2000	No Data on Web for all Stations	Computer or Reception Problems	Unknown (at Division)
28 Dec 02 - 30 Dec 02	0800-2400	No Data in CHROMS for all Stations	Unknown	All data was on Division Web Page
11-Mar-03	1700-2400	No Data on Web for all Stations	Computer or Reception Problems	Unknown (at Division)
12-Mar-03	0100-0400	No Data on Web for dwqi, lwg, lgnw, mcpw	Computer or Reception Problems	Unknown (at Division)
15-Mar-03	0100-2400	No Data on Web for all Stations	Power outage @ Division Domsat link down	
16-Mar-03	0100-2400	No Data on Web for all Stations	Power outage @ Division Domsat link down	Reboot at Division
30-Mar-03	0900-1200	No Data on Web for IHR, LGS, LMN	Computer or Reception Problems	Unknown (at Division)
30-Mar-03	0500-1600	No Data on Web for MCQO & MCQW	Computer or Reception Problems	Unknown (at Division)
5-Apr-03	1800-1900	No Data on Web for all Stations	Computer or Reception Problems	Unknown (at Division)
26-May-03	200	DWQI recorded at 0201, causing data shift of 1 hour	Unknown	Apparently fixed itself
24-Jun-03	0200-0800	DWQI missing data 0200-0800, listed on previous day	Unknown	Have data but did not list on page
27-Jun-03	1600-2400	DWQI gas % cals wrong on Division page	Unknown	
28-Jun-03	13 out of 24	DWQI gas % cals wrong on Division page	Unknown	
29-Jun-03	17 out of 24	DWQI gas % cals wrong on Division page	Unknown	
31-Jul-03	2400	LMNW data good on 7/31, bad on 8/1.	Unknown	
19-Sep-03	1800-2100	No Data lgs, lwg, lgnw, lmw, mcqo, mcqw, paqw idsw	Transmission problem, interference?	
19-Sep-03	1400-2100	No Data anqw, ihr, lmnw	Transmission problem, interference?	
19-Sep-03	1700-2100	No Data lgs	Transmission problem, interference?	

APPENDIX H

Photos of the Tailwater and Run-of-River Station Installations



Photo H-1. Lower Monumental tailwater (LMNW). Cutting a hole in the junction box prior to installation of the 8-inch HDPE pipe. The junction box is made from plastic polymer impregnated cement.



Photo H-2. Lower Monumental tailwater (LMNW). Preparing the pipe for installation by attaching a rope loop around the pulley rod. The boat was used to winch the pipe onto the bow and place the end of the pipe to the desired location. Just before the pipe was lowered, the anchor lines were removed from the temporary floats and attached to the pipe with stainless steel quick-links.



Photo H-3. Lower Monumental tailwater (LMNW). View of anchor cable leader line and quick-link attachment. The long end of the leader line was attached to an anchor point on shore.



Photo H-4. Lower Monumental tailwater (LMNW). Attaching anchor point leader lines to 3-foot long, 3/4-inch rebar stakes and concrete reinforced anchor points.



Photo H-5. Lower Monumental tailwater (LMNW). Using a 12-pound sledge hammer to install 3/4-inch rebar retaining stakes near the water edge. Note: Not all of the sites had optimal substrate and some areas could not be staked – concrete or steel anchors were used as substitutes in these cases.



Photo H-6. Lower Monumental tailwater. Image of the pulley system located at the lower end of the HDPE pipe that is used to raise and lower the probes. Stainless steel was used throughout.



Photo H-7. Clearwater River at Peck (PEKI). Using expansion concrete to fill holes used to embed the cable anchor points into natural structure points (view one).



Photo H-8. Clearwater River at Peck (PEKI). Using expansion concrete to fill holes used to embed the cable anchor points into natural structure points (view two).



Photo H-9. Clearwater station at Peck (PEKI). Photograph showing cutting preparation of the 8-inch HDPE pipe for joining by electrically coupled heat coil welding.



Photo H-10. Clearwater River at Peck (PEKI). Photograph showing the end of the pipe wedged between anchors and boulders. The boulder is downstream of the pipe. This illustrates the preferred use of natural structure to anchor the pipe in a place where high flows cannot shift the installation.



Photo H-11. Clearwater River at Peck (PEKI). Using “come-along” devices to tighten cable anchors that were drilled and seated with expansion concrete tamped into the adjacent boulders. The cable was fixed to the pipe with eyes, chain, and “quick-links.”



Photo H-12. Clearwater River at Peck (PEKI). Photograph showing the upper portion of the wood frame used to embed the junction box onto the concrete slab.



Photo H-13. Clearwater River at Peck (PEKI). Installing the pipe sections through an opening cut into the tree-line with chain saws.



Photo H-14. Lower Granite tailwater (LGNW). Using rope to tie off a slip knot to an I-beam anchor. The rope was used to lower the anchor to the bottom and later retrieved by dropping one running end and pulling it through a hole cut through the I-beam.



Photo H-15. Little Goose tailwater (LGSW). Photograph showing the final installation and placement of the junction box and flex conduit in relation to the instrumentation box.



Photo H-16. Clearwater River at Lewiston (LEWI). Dragging out the air hose to operate the pneumatic hammer drill. An additional 200 feet of air hose were required to reach the furthest points.



Photo H-17. Clearwater River at Lewiston (LEWI). Using a pneumatic hammer drill to bore anchor points to rock submerged boulders. Note: The personnel were wearing dry-suits to protect them against water temperatures that were near 3-4 degrees Celsius ($^{\circ}\text{C}$).



Photo H-18. Clearwater River at Lewiston (LEWI). Preparing the junction box for final fitting of the HDPE pipe.



Photo H-19. Clearwater River at Lewiston (LEWI). Close-up of the system used to attach the 1/2-inch chain and stainless steel cable to the 8-inch HDPE pipe.



Photo H-20. Clearwater River at Lewiston (LEWI). Example of pipe with several chain and cable attachments extending upstream.



Photo H-21. Example of the I-beam anchors used at all of the tailwater and run-of-the-river stations. The approximate weight of the anchors varied from about 150 kilograms to 225 kilograms.

APPENDIX I

**As-Built Drawings For the Tailwater and
Run-of-River Station Modifications**

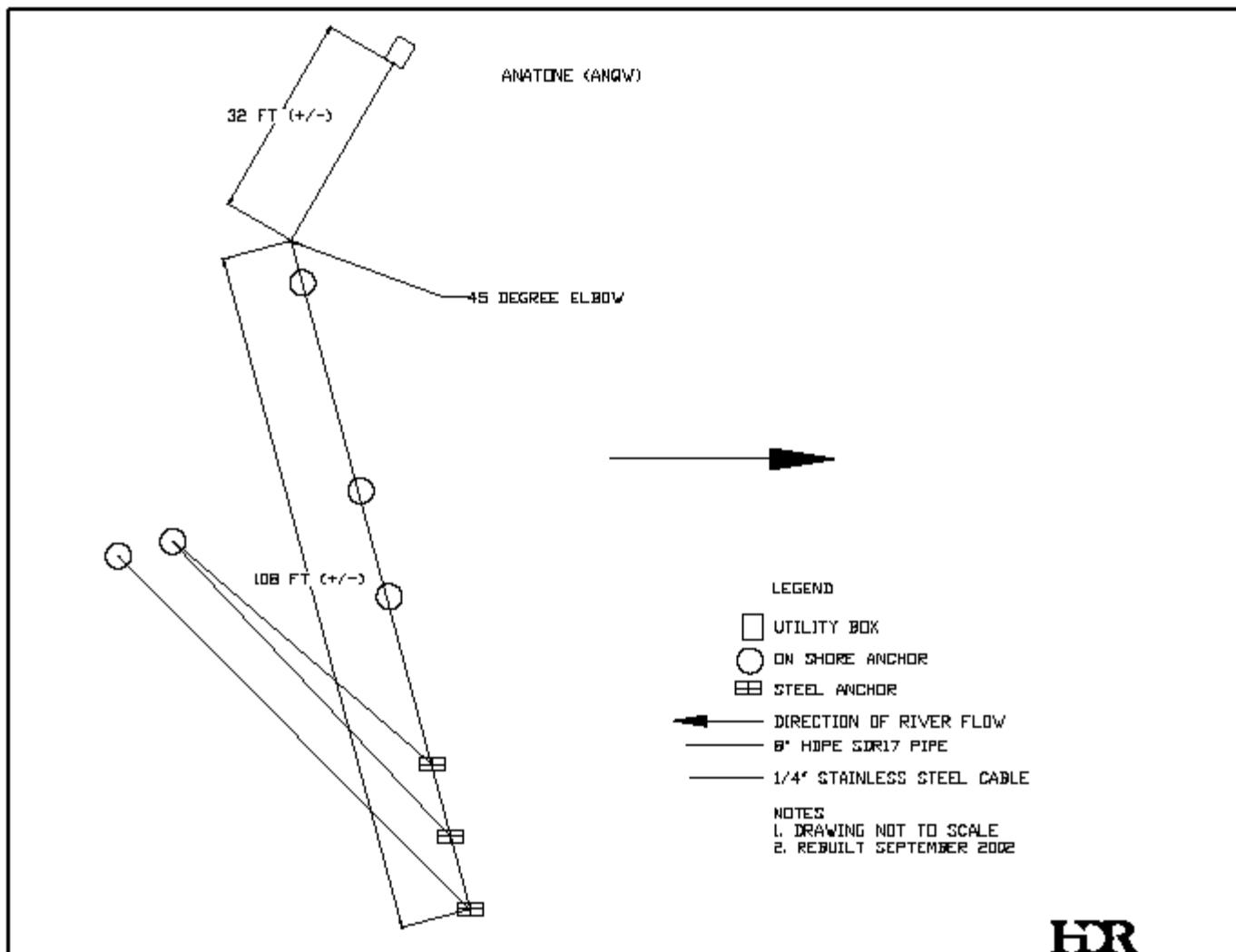


Figure I-1. As-built drawing for the Anatone Fixed-Monitoring System (FMS) Station.

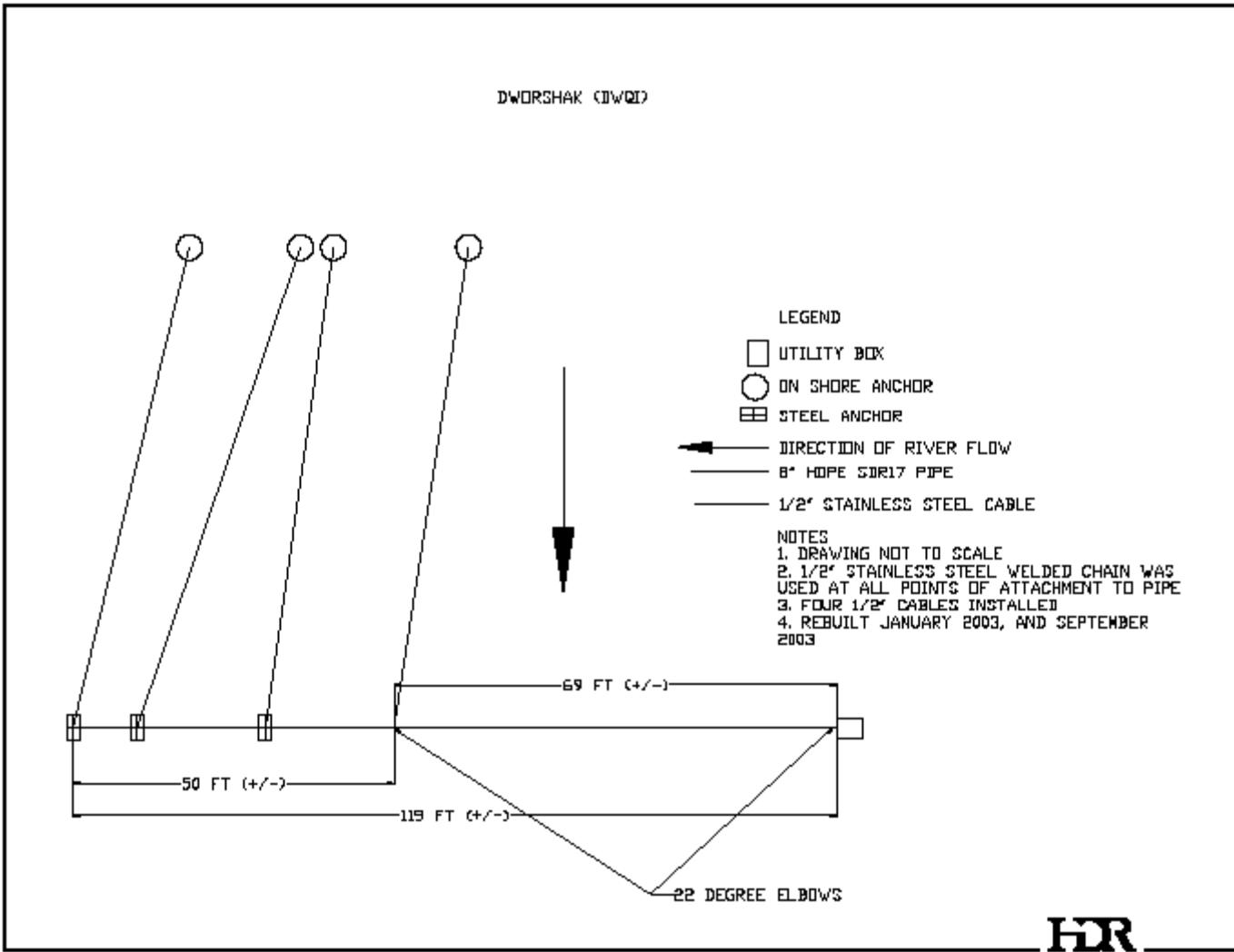


Figure I-2. As-built drawing for the Dworshak FMS station.

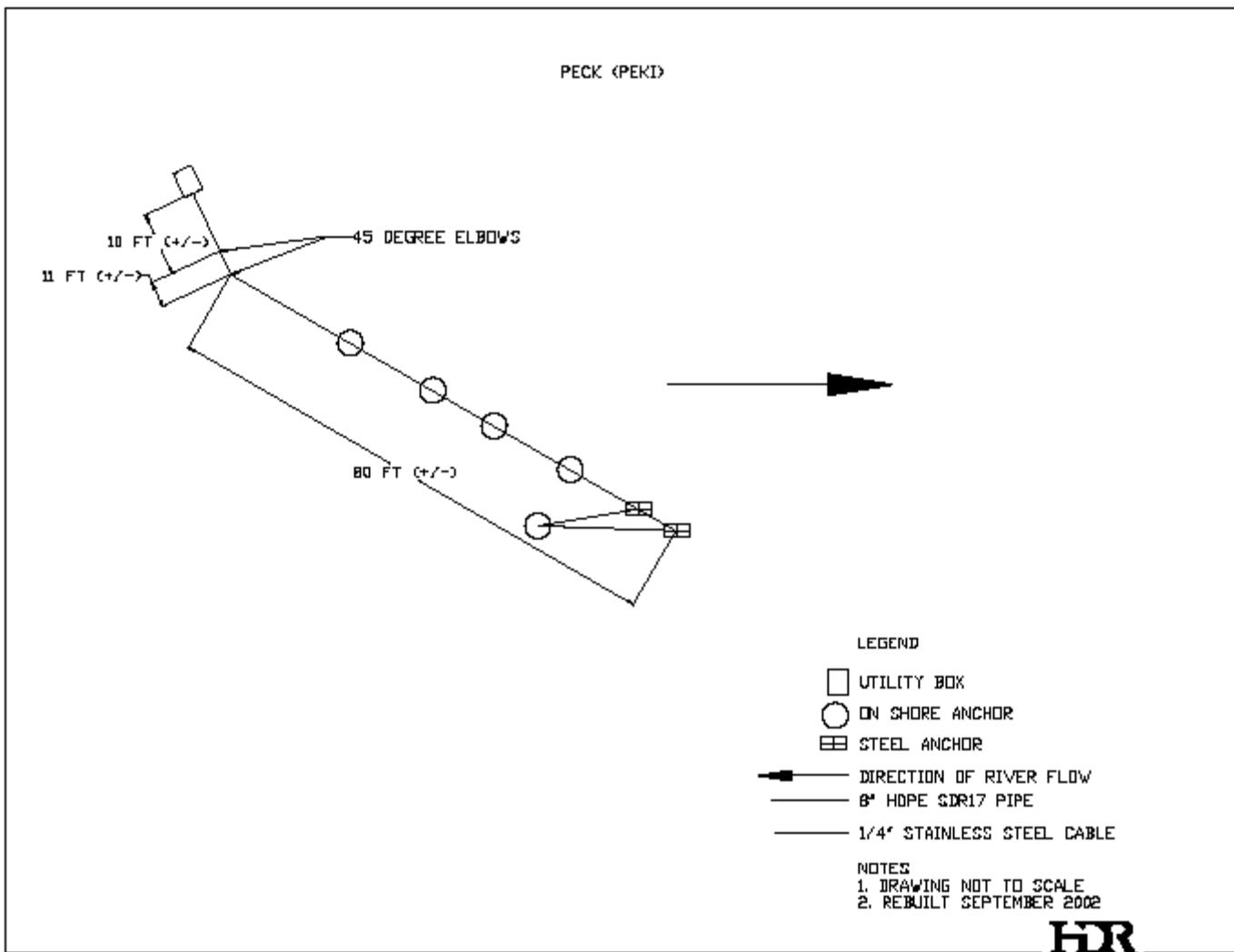


Figure I-3. As-built drawing for the Peck FMS station.

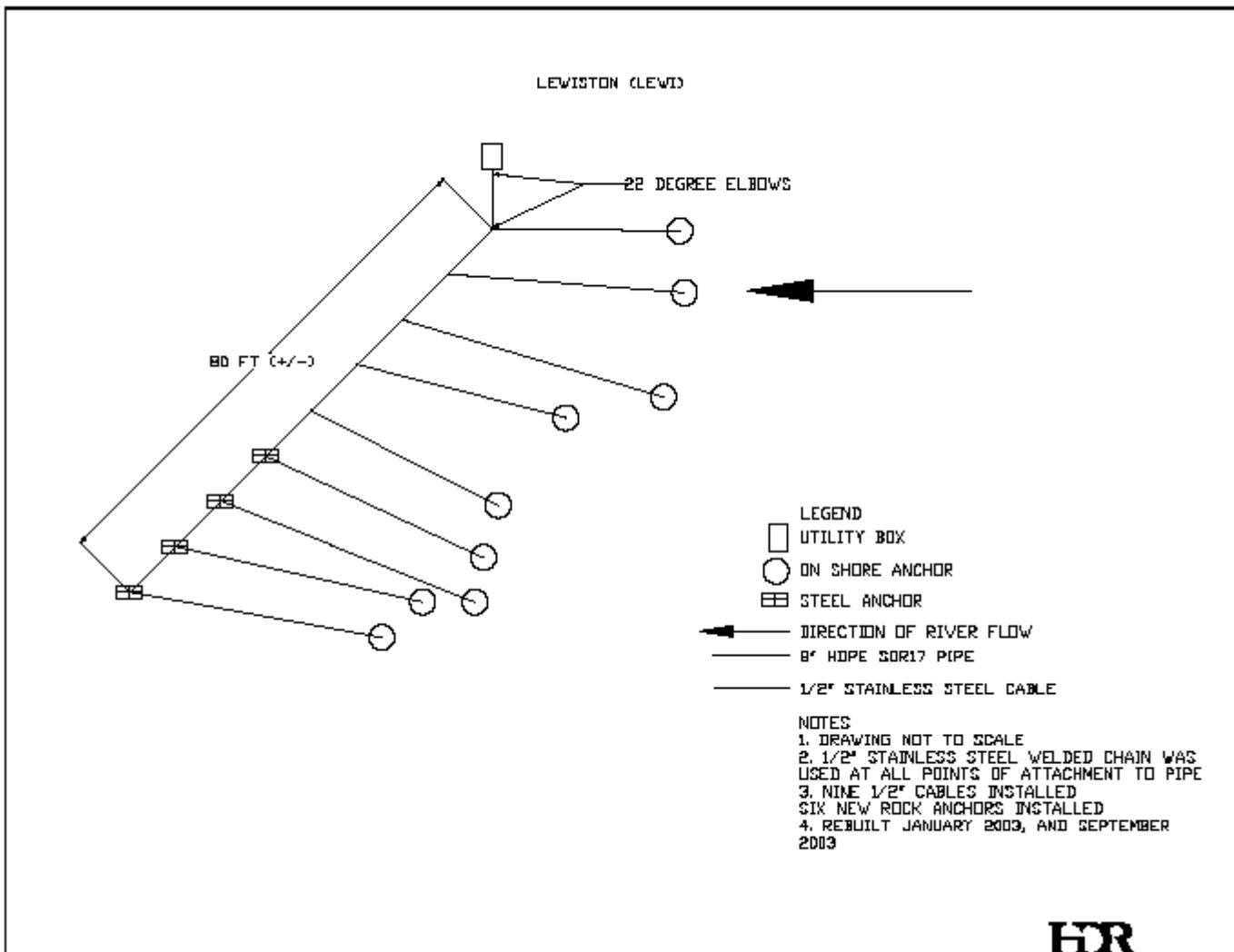


Figure I-4. As-built drawing for the Lewiston FMS station.

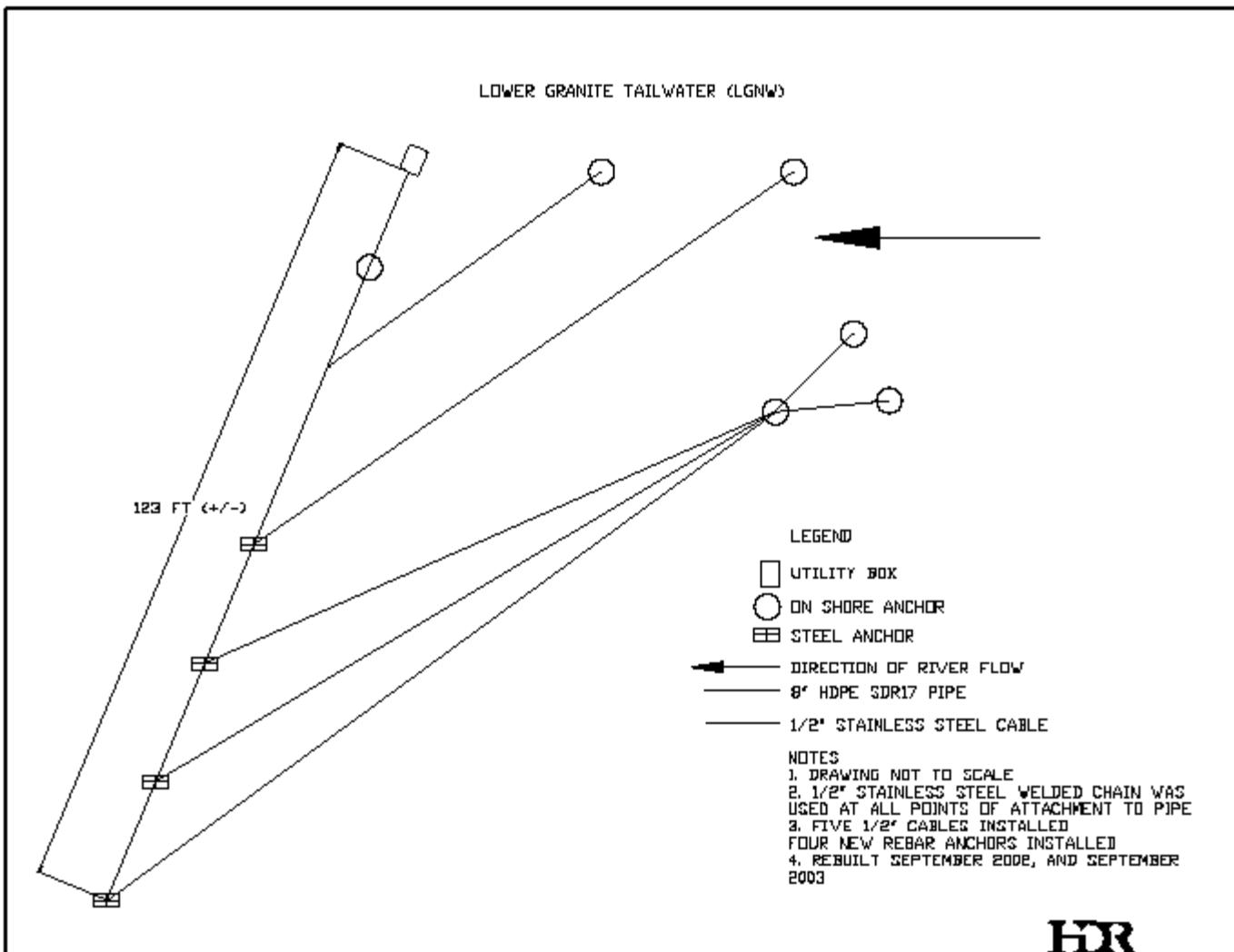


Figure I-5. As-built drawing for the Lower Granite tailwater FMS station.

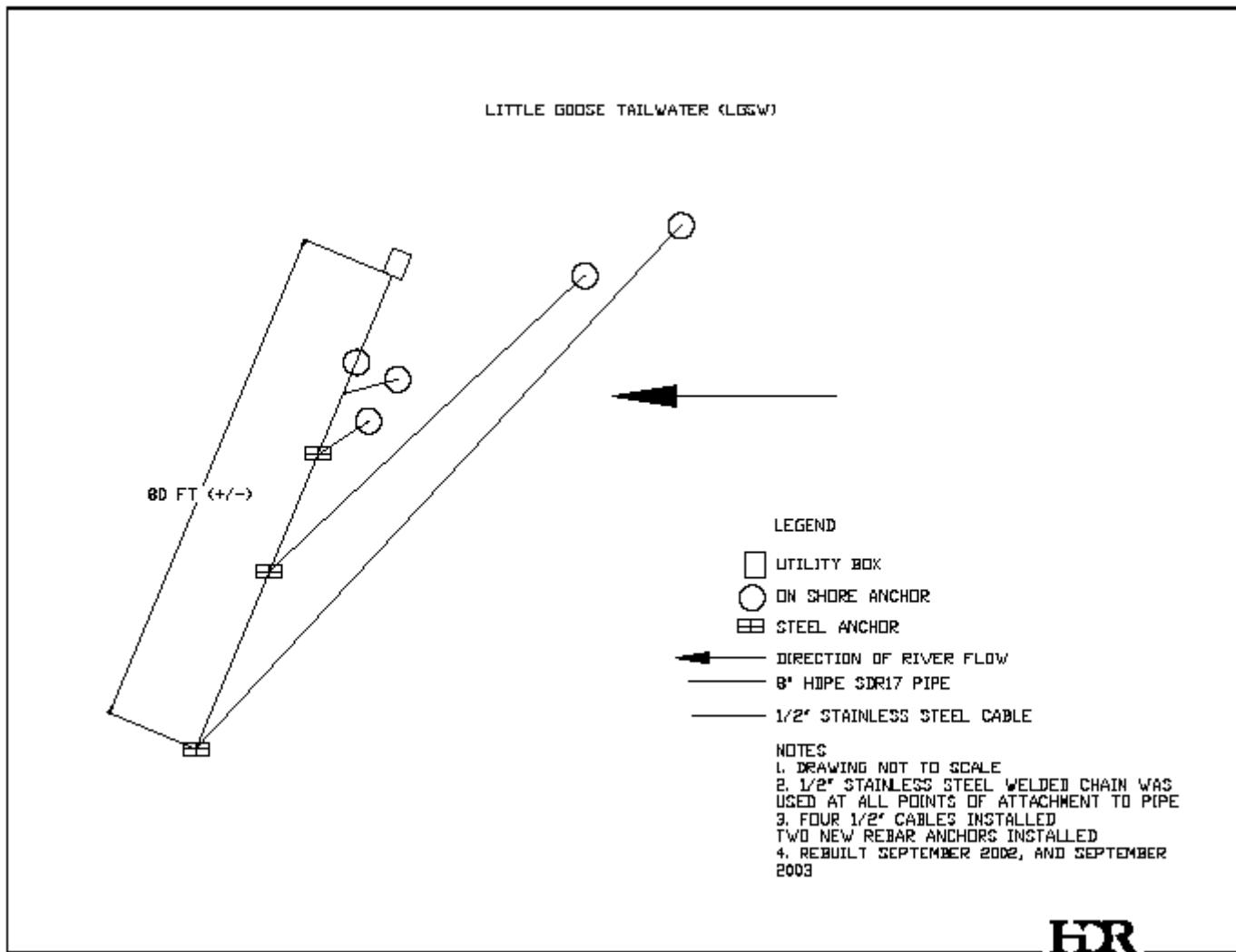


Figure I-6. As-built drawing for the Little Goose tailwater FMS station.

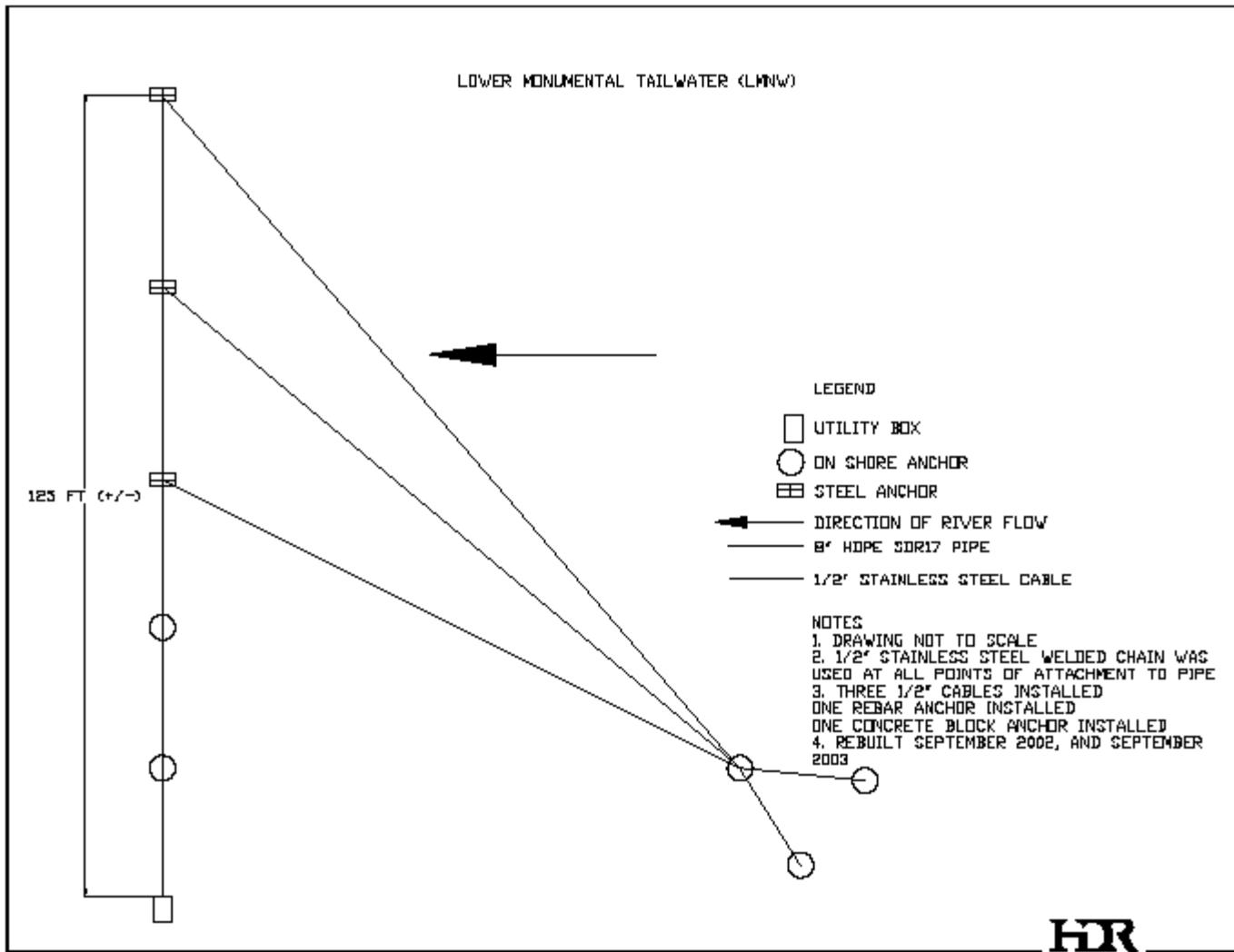


Figure I-7. As-built drawing for the Lower Monumental tailwater FMS station.

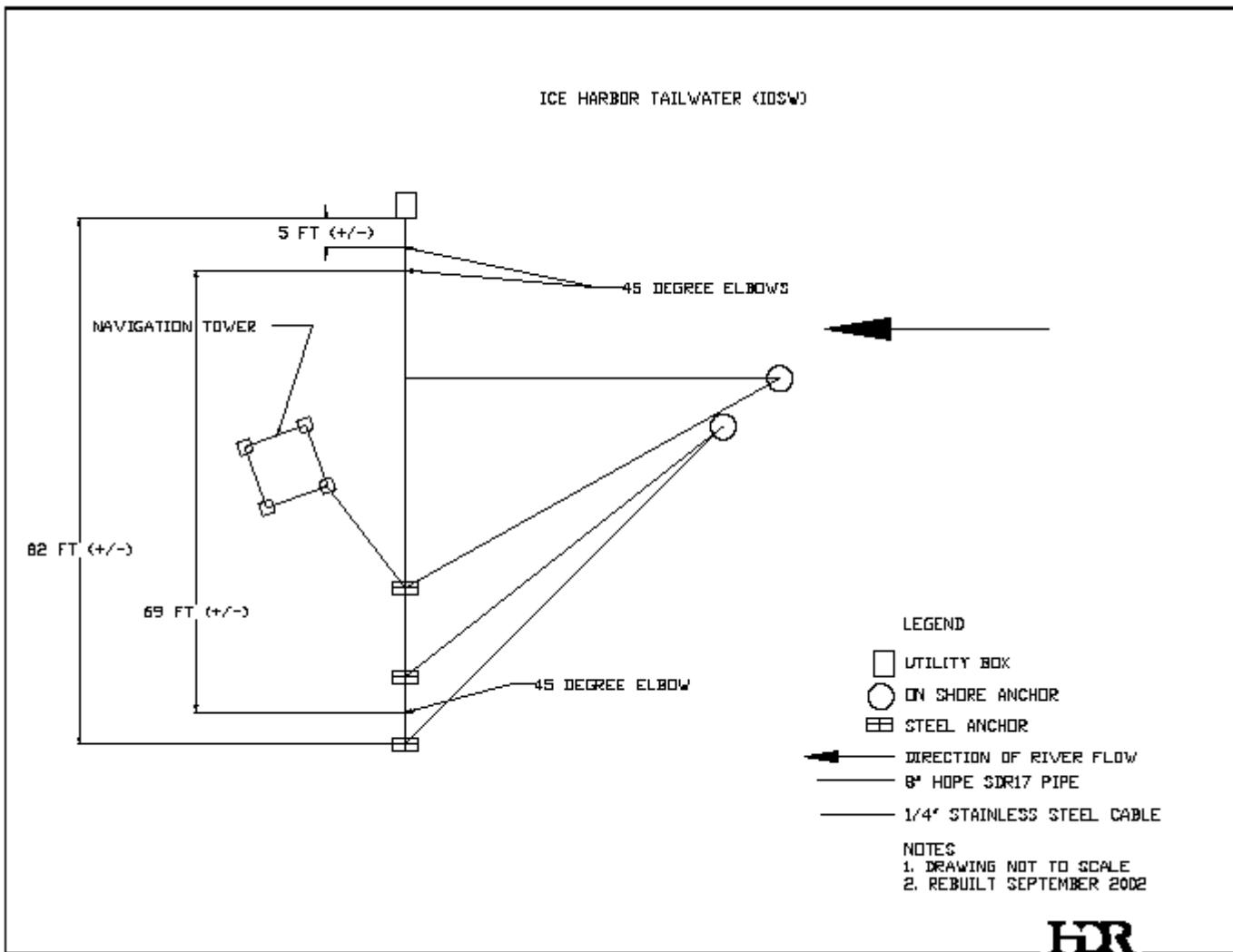


Figure I-8. As-built drawing for the Ice Harbor tailwater FMS station.

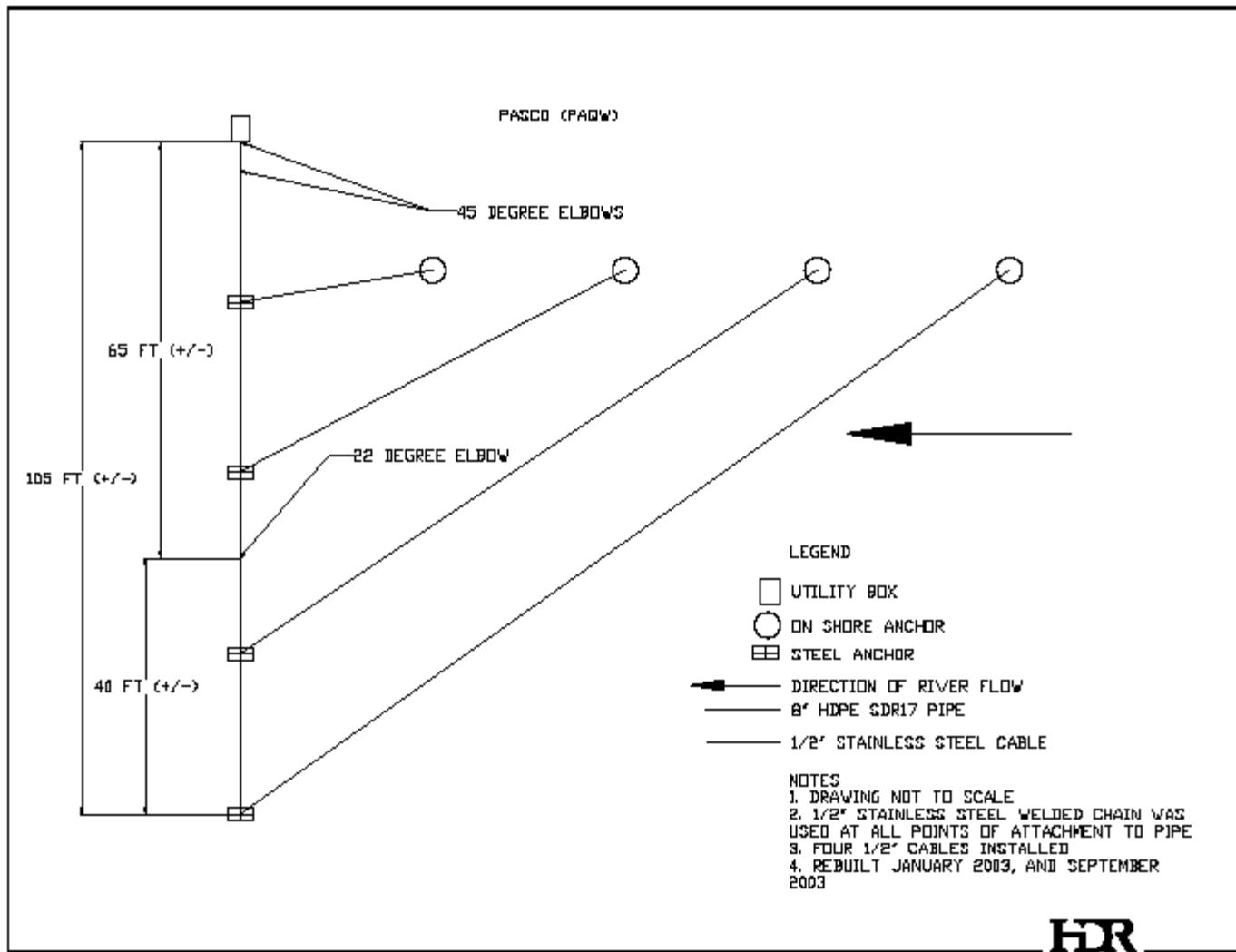


Figure I-9. As-built drawing for the Pasco FMS station.

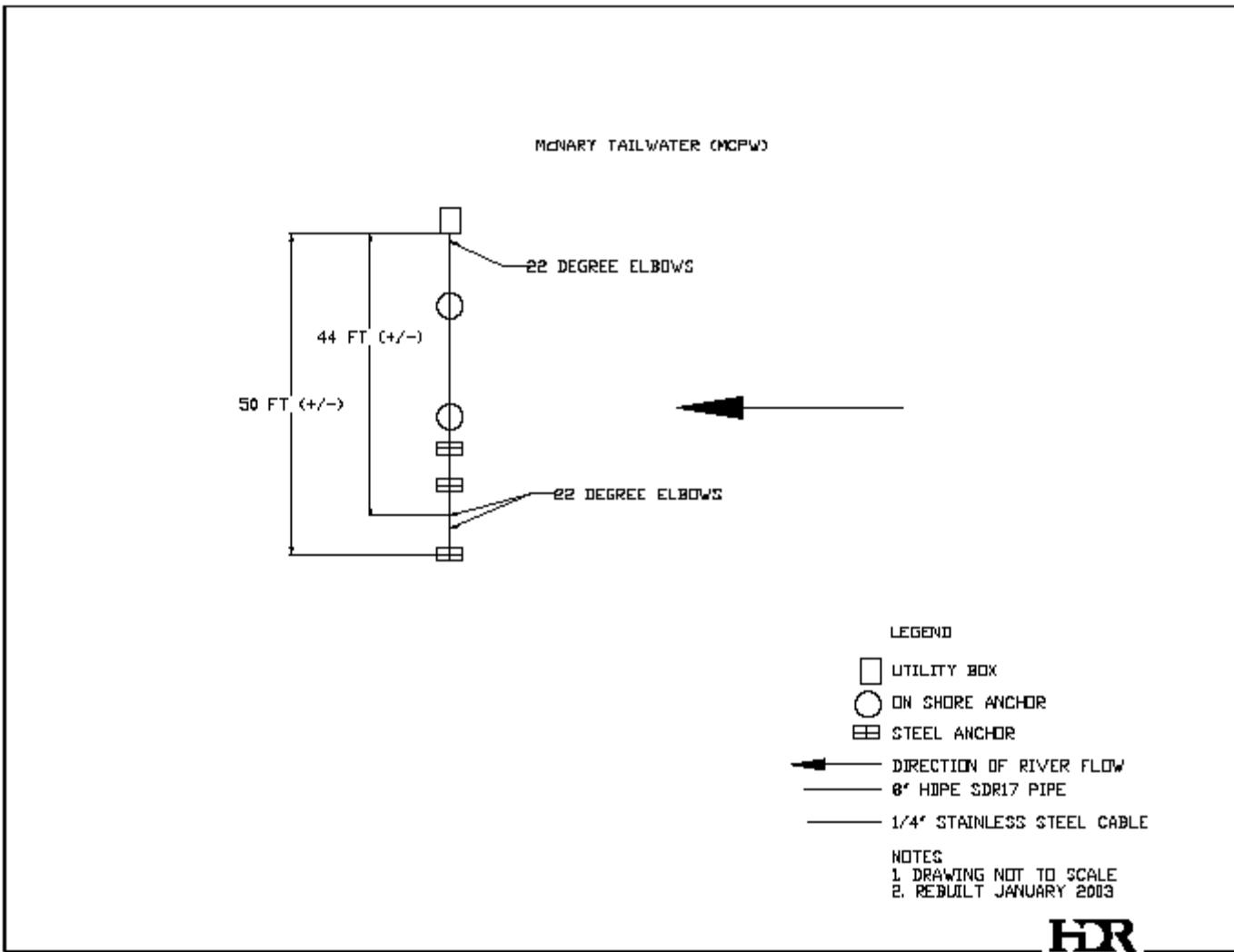


Figure I-10. As-built drawing for the McNary FMS station.

APPENDIX J

**Sonde-Specific Quality Assurance/Quality Control
Performance Charts
(HDR 2003)**

01 OCT 2002

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

01 OCT 2002

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB %SAT.	TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB %SAT.	TAILW.	
1	1.50	0.00	103.70	-999.00	100.30	99.20	17.30	0.00	96.20	96.10	26.30	0.00	95.90	96.40	
2	1.50	0.00	103.80	-999.00	100.00	98.70	17.00	0.00	96.00	96.00	19.30	0.00	95.70	96.10	
3	1.50	0.00	104.30	-999.00	99.70	98.60	18.60	0.00	96.10	95.90	16.20	0.00	95.50	96.20	
4	1.50	0.00	104.50	-999.00	99.70	98.20	17.10	0.00	95.90	96.80	14.70	0.00	95.50	96.20	
5	1.50	0.00	104.80	-999.00	99.70	97.80	25.80	0.00	95.90	96.10	14.80	0.00	95.60	96.10	
6	1.50	0.00	104.70	-999.00	99.60	97.60	31.00	0.00	95.90	96.10	17.10	0.00	95.30	96.00	
7	1.50	0.00	104.50	-999.00	99.60	97.40	30.00	0.00	95.60	95.80	19.00	0.00	95.30	95.90	
8	1.50	0.00	104.60	-999.00	99.80	97.10	30.90	0.00	95.70	95.60	27.40	0.00	95.10	96.30	
9	1.50	0.00	105.50	-999.00	100.50	97.80	31.00	0.00	95.80	95.60	30.60	0.00	95.10	95.90	
10	1.50	0.00	106.30	-999.00	101.30	98.90	29.60	0.00	96.10	95.60	29.90	0.00	95.00	96.00	
11	1.50	0.00	106.60	-999.00	102.00	100.20	31.40	0.00	95.80	95.70	32.70	0.00	95.00	96.00	
12	1.50	0.00	106.90	-999.00	102.30	101.60	31.00	0.00	96.10	95.70	33.50	0.00	94.90	96.20	
13	1.50	0.00	107.40	-999.00	102.70	103.10	29.70	0.00	95.70	95.90	32.10	0.00	94.90	96.10	
14	1.50	0.00	108.30	-999.00	103.10	104.10	29.60	0.00	95.80	96.40	32.00	0.00	95.20	96.20	
15	1.50	0.00	108.30	-999.00	103.50	104.90	30.00	0.00	95.80	96.10	32.00	0.00	95.20	96.20	
16	1.50	0.00	107.90	-999.00	103.90	105.20	25.00	0.00	96.80	96.00	30.60	0.00	94.90	96.00	
17	1.50	0.00	107.60	-999.00	103.90	105.00	24.70	0.00	97.40	95.90	29.70	0.00	95.10	95.90	
18	1.50	0.00	107.00	-999.00	103.60	104.50	23.20	0.00	96.50	96.20	24.80	0.00	94.90	95.80	
19	1.50	0.00	106.50	-999.00	103.00	103.40	18.70	0.00	95.80	95.80	18.90	0.00	94.70	95.60	
20	1.50	0.00	106.00	-999.00	102.50	102.30	20.70	0.00	95.30	95.70	21.60	0.00	95.10	95.60	
21	1.50	0.00	105.70	-999.00	101.90	101.30	18.70	0.00	95.30	95.60	23.60	0.00	95.00	95.50	
22	1.50	0.00	105.50	-999.00	101.50	100.60	17.40	0.00	95.40	95.80	19.30	0.00	94.80	95.50	
23	1.50	0.00	105.40	-999.00	101.10	100.10	14.50	0.00	95.20	95.40	14.40	0.00	94.80	95.50	
24	1.50	0.00	105.30	-999.00	100.80	99.60	14.30	0.00	95.20	95.40	14.10	0.00	94.80	95.50	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH KCFS	SPILL KCFS	GAS FB %SAT.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB %SAT.	TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB %SAT.	WA TAILW.	TOTAL DISCH KCFS	SPILL OR FB	GAS FB %SAT.	SAT
1	28.10	0.00	95.70	95.70	33.60	0.00	96.60	97.20	60.60	0.00	97.90	97.70	97.50	0.00	96.40
2	27.40	0.00	95.40	95.70	32.70	0.00	96.50	97.10	66.10	0.00	97.70	97.60	97.30	0.00	96.40
3	17.00	0.00	95.60	95.60	28.00	0.00	96.30	97.10	67.00	0.00	97.70	97.70	97.20	0.00	96.10
4	14.20	0.00	95.40	95.60	18.40	0.00	96.20	96.90	80.50	0.00	97.60	97.50	97.40	0.00	96.10
5	14.00	0.00	95.30	98.00	12.30	0.00	96.00	96.70	107.40	0.00	97.20	97.50	97.30	0.00	96.20
6	14.00	0.00	95.20	96.70	13.50	0.00	95.70	96.60	118.80	0.00	97.40	97.70	97.20	0.00	96.40
7	15.70	0.00	95.20	95.90	12.30	0.00	95.60	96.60	119.20	0.00	97.40	97.50	97.30	0.00	96.40
8	21.60	0.00	95.20	98.50	17.30	0.00	95.50	97.00	110.20	0.00	97.30	97.40	97.30	0.00	96.40
9	29.80	0.00	95.00	96.70	18.50	0.00	95.60	97.30	109.40	0.00	97.30	97.30	97.20	0.00	96.50
10	30.20	0.00	94.90	95.90	25.60	0.00	95.90	98.30	99.80	0.00	97.20	97.10	97.30	0.00	96.30
11	33.00	0.00	95.10	95.70	30.50	0.00	95.70	97.80	98.90	0.00	97.50	97.10	97.30	0.00	96.40
12	35.50	0.00	95.80	95.80	36.90	0.00	95.70	98.20	98.90	0.00	98.30	97.20	97.50	0.00	96.40
13	35.50	0.00	96.00	95.90	35.60	0.00	95.60	97.90	99.20	0.00	99.00	97.30	97.70	0.00	96.40
14	35.20	0.00	95.60	96.20	35.60	0.00	95.80	97.80	98.80	0.00	99.30	97.50	97.70	0.00	96.60
15	35.80	0.00	95.60	96.10	35.60	0.00	95.60	97.30	98.70	0.00	99.40	97.60	97.90	0.00	96.90
16	36.50	0.00	95.60	96.10	36.30	0.00	95.60	97.30	98.40	0.00	99.50	97.50	97.90	0.00	97.10
17	33.20	0.00	95.60	95.90	35.40	0.00	95.70	97.10	98.50	0.00	99.60	97.50	97.90	0.00	97.30
18	30.80	0.00	95.50	95.70	30.60	0.00	95.40	96.80	98.70	0.00	99.70	97.60	97.80	0.00	97.20
19	26.30	0.00	95.50	95.60	23.90	0.00	95.50	96.80	99.40	0.00	99.60	97.70	97.70	0.00	97.20
20	26.20	0.00	95.60	95.60	23.50	0.00	95.70	96.80	117.20	0.00	99.60	97.60	97.70	0.00	97.20
21	26.50	0.00	95.60	95.50	23.40	0.00	95.70	96.70	123.40	0.00	99.40	97.70	97.50	0.00	97.20
22	20.80	0.00	95.30	95.40	19.80	0.00	95.50	96.70	121.60	0.00	98.80	97.60	97.50	0.00	97.30
23	14.60	0.00	95.50	95.20	16.30	0.00	95.40	96.60	81.20	0.00	98.80	97.40	97.50	0.00	97.40
24	15.90	0.00	95.80	95.30	12.00	0.00	95.20	96.50	69.80	0.00	97.60	97.20	97.50	0.00	97.60

02 OCT 2002

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

02 OCT 2002

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.			
1	1.50	0.00	105.10	-999.00	100.40	99.30	16.00	0.00	95.20	95.80	14.30	0.00	94.70	95.30	
2	1.50	0.00	105.10	-999.00	100.20	98.80	14.30	0.00	95.10	96.40	13.90	0.00	94.70	95.30	
3	1.50	0.00	105.00	-999.00	100.10	98.60	14.60	0.00	95.00	96.20	14.20	0.00	94.90	95.20	
4	1.50	0.00	105.00	-999.00	100.00	98.20	17.40	0.00	95.10	95.40	15.60	0.00	94.90	95.40	
5	1.50	0.00	105.10	-999.00	99.80	98.00	17.40	0.00	95.10	95.50	14.10	0.00	94.70	95.30	
6	1.50	0.00	-999.00	-999.00	-999.00	-999.00	17.40	0.00	-999.00	-999.00	15.70	0.00	-999.00	-999.00	
7	1.50	0.00	-999.00	-999.00	-999.00	-999.00	20.60	0.00	-999.00	-999.00	14.00	0.00	-999.00	-999.00	
8	1.50	0.00	-999.00	-999.00	-999.00	-999.00	24.30	0.00	-999.00	-999.00	14.20	0.00	-999.00	-999.00	
9	1.50	0.00	-999.00	-999.00	-999.00	-999.00	25.40	0.00	-999.00	-999.00	20.30	0.00	-999.00	-999.00	
10	1.50	0.00	-999.00	-999.00	-999.00	-999.00	25.50	0.00	-999.00	-999.00	25.00	0.00	-999.00	-999.00	
11	1.50	0.00	-999.00	-999.00	-999.00	-999.00	25.50	0.00	-999.00	-999.00	25.90	0.00	-999.00	-999.00	
12	1.50	0.00	-999.00	-999.00	-999.00	-999.00	25.50	0.00	-999.00	-999.00	25.40	0.00	-999.00	-999.00	
13	1.50	0.00	-999.00	-999.00	-999.00	-999.00	25.50	0.00	-999.00	-999.00	25.40	0.00	-999.00	-999.00	
14	1.50	0.00	-999.00	-999.00	-999.00	-999.00	26.90	0.00	-999.00	-999.00	25.50	0.00	-999.00	-999.00	
15	1.50	0.00	-999.00	-999.00	-999.00	-999.00	21.60	0.00	-999.00	-999.00	25.70	0.00	-999.00	-999.00	
16	1.50	0.00	-999.00	-999.00	-999.00	-999.00	20.10	0.00	-999.00	-999.00	21.80	0.00	-999.00	-999.00	
17	1.50	0.00	-999.00	-999.00	-999.00	-999.00	19.90	0.00	-999.00	-999.00	21.60	0.00	-999.00	-999.00	
18	1.50	0.00	-999.00	-999.00	-999.00	-999.00	14.60	0.00	-999.00	-999.00	14.70	0.00	-999.00	-999.00	
19	1.50	0.00	-999.00	-999.00	-999.00	-999.00	14.50	0.00	-999.00	-999.00	14.30	0.00	-999.00	-999.00	
20	1.50	0.00	-999.00	-999.00	-999.00	-999.00	14.60	0.00	-999.00	-999.00	14.60	0.00	-999.00	-999.00	
21	1.50	0.00	-999.00	-999.00	-999.00	-999.00	14.30	0.00	-999.00	-999.00	14.60	0.00	-999.00	-999.00	
22	1.50	0.00	106.30	-999.00	101.80	101.30	17.30	0.00	96.10	96.20	17.90	0.00	94.70	95.50	
23	1.50	0.00	106.30	-999.00	101.40	100.90	17.50	0.00	96.00	96.00	18.20	0.00	94.80	95.50	
24	1.50	0.00	106.30	-999.00	101.30	100.60	17.80	0.00	95.90	95.80	18.30	0.00	94.70	95.50	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	
1	14.40	0.00	95.60	95.40	12.00	0.00	95.20	96.60	69.50	0.00	97.30	97.00	97.30	0.00	97.60
2	14.40	0.00	95.40	95.40	12.00	0.00	95.30	96.90	69.50	0.00	97.00	96.90	97.30	0.00	97.90
3	16.00	0.00	95.40	95.20	13.50	0.00	95.40	98.00	85.80	0.00	97.00	97.30	97.30	0.00	98.00
4	14.70	0.00	95.30	98.90	12.20	0.00	95.50	97.40	105.50	0.00	97.00	97.50	97.20	0.00	98.00
5	14.50	0.00	95.20	97.60	12.00	0.00	95.50	97.20	108.30	0.00	96.90	97.30	97.20	0.00	98.00
6	14.50	0.00	-999.00	-999.00	12.00	0.00	-999.00	-999.00	122.00	0.00	-999.00	-999.00	-999.00	0.00	-999.00
7	14.50	0.00	-999.00	-999.00	12.00	0.00	-999.00	-999.00	121.90	0.00	-999.00	-999.00	-999.00	0.00	-999.00
8	14.50	0.00	-999.00	-999.00	12.00	0.00	-999.00	-999.00	119.90	0.00	-999.00	-999.00	-999.00	0.00	-999.00
9	14.50	0.00	-999.00	-999.00	12.00	0.00	-999.00	-999.00	110.30	0.00	-999.00	-999.00	-999.00	0.00	-999.00
10	22.40	0.00	-999.00	-999.00	12.70	0.00	-999.00	-999.00	109.60	0.00	-999.00	-999.00	-999.00	0.00	-999.00
11	20.90	0.00	-999.00	-999.00	19.80	0.00	-999.00	-999.00	109.30	0.00	-999.00	-999.00	-999.00	0.00	-999.00
12	26.70	0.00	-999.00	-999.00	19.90	0.00	-999.00	-999.00	108.80	0.00	-999.00	-999.00	-999.00	0.00	-999.00
13	26.90	0.00	-999.00	-999.00	24.60	0.00	-999.00	-999.00	99.00	0.00	-999.00	-999.00	-999.00	0.00	-999.00
14	26.70	0.00	-999.00	-999.00	30.10	0.00	-999.00	-999.00	98.60	0.00	-999.00	-999.00	-999.00	0.00	-999.00
15	26.50	0.00	-999.00	-999.00	31.00	0.00	-999.00	-999.00	98.50	0.00	-999.00	-999.00	-999.00	0.00	-999.00
16	27.00	0.00	-999.00	-999.00	29.00	0.00	-999.00	-999.00	98.40	0.00	-999.00	-999.00	-999.00	0.00	-999.00
17	26.60	0.00	-999.00	-999.00	29.00	0.00	-999.00	-999.00	98.50	0.00	-999.00	-999.00	-999.00	0.00	-999.00
18	16.70	0.00	-999.00	-999.00	24.00	0.00	-999.00	-999.00	98.70	0.00	-999.00	-999.00	-999.00	0.00	-999.00
19	14.30	0.00	-999.00	-999.00	18.40	0.00	-999.00	-999.00	99.80	0.00	-999.00	-999.00	-999.00	0.00	-999.00
20	14.40	0.00	-999.00	-999.00	17.90	0.00	-999.00	-999.00	122.60	0.00	-999.00	-999.00	-999.00	0.00	-999.00
21	14.60	0.00	-999.00	-999.00	17.60	0.00	-999.00	-999.00	123.80	0.00	-999.00	-999.00	-999.00	0.00	-999.00
22	18.50	0.00	95.40	95.90	17.80	0.00	96.10	97.20	122.90	0.00	98.60	97.90	98.00	0.00	98.20
23	18.40	0.00	95.50	95.90	18.40	0.00	96.40	97.30	105.00	0.00	97.40	98.20	97.80	0.00	98.20
24	18.20	0.00	95.70	95.90	18.40	0.00	96.20	98.40	86.80	0.00	97.20	98.20	97.90	0.00	98.50

03 OCT 2002

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

03 OCT 2002

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	LITTLE GOOSE	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.		
1	1.50	0.00	106.40	-999.00	101.10	100.40	17.50	0.00	95.70	17.80	0.00	94.90	95.40		
2	1.50	0.00	106.40	-999.00	100.80	99.90	17.50	0.00	95.80	16.80	0.00	94.80	95.40		
3	1.50	0.00	106.40	-999.00	100.70	99.70	19.10	0.00	95.80	17.40	0.00	94.80	95.40		
4	1.50	0.00	106.30	-999.00	100.60	99.40	17.30	0.00	95.70	17.80	0.00	94.90	95.50		
5	1.50	0.00	106.30	-999.00	100.70	99.40	19.30	0.00	95.80	18.90	0.00	95.00	95.50		
6	1.50	0.00	106.30	-999.00	100.50	99.20	18.90	0.00	95.70	19.40	0.00	95.00	95.50		
7	1.50	0.00	106.30	-999.00	100.50	99.00	19.00	0.00	95.70	21.40	0.00	95.00	95.40		
8	1.50	0.00	106.20	-999.00	100.50	99.00	20.70	0.00	95.70	21.80	0.00	94.80	95.40		
9	1.50	0.00	106.60	-999.00	101.00	99.20	20.90	0.00	95.60	22.30	0.00	94.90	95.60		
10	1.50	0.00	107.20	-999.00	101.80	99.60	21.80	0.00	95.80	22.00	0.00	94.90	95.60		
11	1.50	0.00	107.10	-999.00	102.60	100.20	22.20	0.00	95.90	22.00	0.00	94.90	95.60		
12	1.50	0.00	108.00	-999.00	103.40	100.90	21.80	0.00	96.10	22.40	0.00	94.90	95.70		
13	1.50	0.00	108.60	-999.00	104.20	101.70	21.80	0.00	96.20	21.90	0.00	94.90	96.10		
14	1.50	0.00	108.80	-999.00	104.70	102.40	21.70	0.00	96.20	21.90	0.00	95.00	96.30		
15	1.50	0.00	108.80	-999.00	105.00	102.90	21.90	0.00	96.20	21.50	0.00	94.90	97.50		
16	1.50	0.00	108.50	-999.00	105.00	103.00	22.20	0.00	96.20	21.30	0.00	94.80	96.80		
17	1.50	0.00	108.10	-999.00	104.90	103.00	21.70	0.00	96.30	20.80	0.00	95.00	96.60		
18	1.50	0.00	107.80	-999.00	104.30	102.70	16.60	0.00	96.20	17.90	0.00	94.80	96.20		
19	1.50	0.00	107.20	-999.00	103.50	102.00	16.30	0.00	96.20	17.30	0.00	94.70	96.10		
20	1.50	0.00	106.90	-999.00	102.60	101.30	17.50	0.00	96.40	19.80	0.00	94.70	95.80		
21	1.50	0.00	106.70	-999.00	102.20	100.90	17.60	0.00	96.50	18.50	0.00	94.50	95.80		
22	1.50	0.00	106.60	-999.00	101.90	100.40	17.70	0.00	96.30	18.40	0.00	94.50	95.60		
23	1.50	0.00	106.60	-999.00	101.50	100.10	17.40	0.00	96.20	18.40	0.00	94.30	95.50		
24	1.50	0.00	106.40	-999.00	101.40	100.00	19.10	0.00	95.80	17.10	0.00	94.40	95.30		

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB	WA TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT.		
	KCFS	KCFS		KCFS	KCFS		KCFS	KCFS	FB		KCFS	KCFS	SAT		
1	21.10	0.00	95.70	96.00	18.40	96.20	97.90	87.10	0.00	97.10	98.40	98.10	98.60		
2	16.80	0.00	95.70	95.80	20.20	96.10	97.60	81.00	0.00	97.00	98.10	98.00	98.80		
3	17.40	0.00	95.70	96.00	18.50	96.10	97.50	98.30	0.00	97.20	98.10	98.20	99.00		
4	17.70	0.00	95.50	96.00	18.40	96.10	97.40	98.80	0.00	97.00	98.10	98.10	99.00		
5	18.70	0.00	95.50	95.90	17.80	96.10	97.80	82.20	0.00	96.90	97.90	98.00	99.00		
6	19.10	0.00	95.50	95.90	17.80	96.10	97.60	107.30	0.00	96.90	97.70	97.80	98.80		
7	19.40	0.00	95.50	95.80	17.80	96.20	97.30	109.40	0.00	97.10	97.80	97.70	98.70		
8	21.50	0.00	95.60	95.80	20.70	95.90	97.20	98.90	0.00	97.10	97.60	97.70	98.70		
9	21.60	0.00	95.50	96.00	20.50	95.90	97.40	98.00	0.00	97.10	97.50	97.70	98.60		
10	21.60	0.00	95.70	96.20	20.60	96.00	97.60	98.00	0.00	98.10	97.50	97.80	98.60		
11	22.00	0.00	95.60	96.10	20.60	96.00	97.60	89.10	0.00	98.70	97.40	98.00	98.50		
12	21.60	0.00	95.60	96.20	22.10	96.20	97.60	88.60	0.00	98.70	97.40	98.00	98.40		
13	21.60	0.00	95.60	96.20	20.90	96.10	97.70	89.30	0.00	98.50	97.40	98.00	98.50		
14	21.60	0.00	95.80	96.20	20.50	96.40	97.90	96.80	0.00	100.00	97.50	97.90	98.50		
15	21.50	0.00	95.80	96.20	20.50	96.50	97.90	97.10	0.00	99.70	98.20	97.90	98.50		
16	26.70	0.00	95.80	97.70	20.50	96.50	97.90	97.10	0.00	99.70	98.20	97.90	98.70		
17	28.10	0.00	95.80	98.20	20.50	96.30	97.90	98.40	0.00	99.40	97.90	97.80	98.70		
18	26.50	0.00	95.80	100.50	22.40	96.70	97.70	116.70	0.00	99.30	97.90	97.80	98.60		
19	19.90	0.00	95.90	98.00	20.60	96.40	97.70	128.20	0.00	99.20	97.70	97.70	98.60		
20	18.80	0.00	95.90	97.10	18.70	96.40	97.60	128.20	0.00	98.80	98.00	97.60	98.50		
21	18.80	0.00	95.80	96.50	18.60	96.50	97.30	127.70	0.00	98.30	97.90	97.60	98.40		
22	18.70	0.00	95.80	96.10	21.00	96.30	97.30	112.30	0.00	98.10	98.10	97.50	98.40		
23	19.10	0.00	95.80	96.10	18.50	96.30	97.80	111.40	0.00	98.00	98.40	97.70	98.30		
24	17.30	0.00	95.60	96.10	18.60	96.10	97.40	98.80	0.00	97.80	98.60	97.60	98.30		

04 OCT 2002

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

04 OCT 2002

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	LOWER GRANITE	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.		
1	1.50	0.00	106.40	-999.00	101.10	99.90	17.30	0.00	95.90	96.70	19.20	0.00	94.50	95.30	
2	1.50	0.00	106.30	-999.00	101.10	99.70	14.40	0.00	95.90	96.00	13.40	0.00	94.30	95.30	
3	1.50	0.00	106.40	-999.00	100.90	99.60	14.20	0.00	95.80	95.70	13.20	0.00	94.40	95.10	
4	1.50	0.00	106.40	-999.00	100.80	99.60	16.40	0.00	95.70	97.20	14.40	0.00	94.10	95.10	
5	1.50	0.00	106.40	-999.00	100.70	99.40	14.40	0.00	95.40	96.20	15.20	0.00	94.00	95.00	
6	1.50	0.00	106.50	-999.00	100.50	99.40	14.50	0.00	95.50	95.80	16.20	0.00	-999.00	95.00	
7	1.50	0.00	106.50	-999.00	100.60	99.30	20.30	0.00	95.60	95.50	17.60	0.00	-999.00	95.00	
8	1.50	0.00	106.40	-999.00	100.70	99.20	24.50	0.00	95.60	95.50	21.40	0.00	-999.00	94.90	
9	1.50	0.00	106.60	-999.00	101.30	99.60	25.80	0.00	95.50	95.50	25.40	0.00	-999.00	100.30	
10	1.50	0.00	107.00	-999.00	102.40	100.30	26.70	0.00	95.80	95.40	27.40	0.00	-999.00	-999.00	
11	1.50	0.00	107.60	-999.00	103.70	101.10	26.70	0.00	96.20	97.10	27.40	0.00	-999.00	-999.00	
12	1.50	0.00	108.40	-999.00	104.30	102.00	26.30	0.00	96.00	97.20	26.80	0.00	-999.00	-999.00	
13	1.50	0.00	109.00	-999.00	105.10	103.00	25.50	0.00	96.40	98.30	26.60	0.00	-999.00	-999.00	
14	1.50	0.00	108.90	-999.00	105.70	104.30	20.00	0.00	96.10	96.70	25.30	0.00	-999.00	-999.00	
15	1.50	0.00	108.70	-999.00	105.80	105.00	17.00	0.00	95.80	96.70	19.00	0.00	-999.00	-999.00	
16	1.50	0.00	108.70	-999.00	105.40	105.60	15.30	0.00	96.00	96.50	15.80	0.00	-999.00	-999.00	
17	1.50	0.00	108.50	-999.00	105.20	105.50	12.80	0.00	95.90	96.30	13.50	0.00	-999.00	-999.00	
18	1.50	0.00	108.00	-999.00	105.00	105.00	14.40	0.00	95.70	96.00	13.80	0.00	-999.00	-999.00	
19	1.50	0.00	107.40	-999.00	104.00	104.10	14.20	0.00	95.60	95.80	13.70	0.00	-999.00	-999.00	
20	1.50	0.00	106.90	-999.00	103.10	103.10	20.20	0.00	95.70	95.70	17.70	0.00	-999.00	-999.00	
21	1.50	0.00	106.80	-999.00	102.40	102.30	28.50	0.00	95.50	95.70	21.20	0.00	-999.00	-999.00	
22	1.50	0.00	106.60	-999.00	102.00	101.70	28.30	0.00	96.30	95.90	21.20	0.00	-999.00	-999.00	
23	1.50	0.00	106.60	-999.00	101.80	101.30	26.50	0.00	95.30	95.60	21.70	0.00	-999.00	-999.00	
24	1.50	0.00	106.70	-999.00	101.60	101.00	15.20	0.00	95.30	95.50	20.90	0.00	-999.00	-999.00	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	MCNARY	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	PASCO	
1	19.50	0.00	95.60	96.10	18.50	0.00	96.10	97.50	98.00	97.40	98.70	97.60	98.30		
2	13.70	0.00	95.50	95.90	17.90	0.00	96.10	97.50	97.60	97.40	99.30	97.60	98.30		
3	13.70	0.00	95.70	95.80	12.50	0.00	95.90	97.50	72.40	97.30	99.70	97.60	98.20		
4	15.00	0.00	95.70	95.90	12.30	0.00	95.80	97.40	101.60	97.20	100.00	97.80	98.10		
5	16.40	0.00	95.70	95.90	12.50	0.00	95.60	97.30	104.40	97.20	100.70	97.80	98.10		
6	16.50	0.00	95.60	96.00	12.10	0.00	95.60	97.10	126.90	97.20	100.90	97.60	98.00		
7	16.30	0.00	95.50	95.90	12.10	0.00	95.90	97.40	127.80	96.90	101.40	97.60	97.90		
8	18.40	0.00	95.50	95.90	12.50	0.00	95.60	97.50	123.50	96.90	101.90	97.60	97.90		
9	25.40	0.00	95.20	95.70	19.90	0.00	95.80	97.40	118.90	96.80	102.30	97.50	97.70		
10	28.90	0.00	-999.00	-999.00	23.90	0.00	95.70	97.70	108.80	96.80	102.80	97.70	97.70		
11	29.30	0.00	-999.00	-999.00	28.20	0.00	95.80	99.00	99.90	96.70	103.50	97.90	97.50		
12	28.80	0.00	-999.00	-999.00	29.90	0.00	95.90	97.50	94.20	97.80	104.00	98.10	97.60		
13	28.80	0.00	-999.00	-999.00	28.40	0.00	95.80	97.80	94.10	99.60	104.60	98.30	97.80		
14	26.60	0.00	-999.00	-999.00	28.40	0.00	97.40	98.40	94.20	100.30	105.20	98.30	97.80		
15	20.60	0.00	-999.00	-999.00	28.20	0.00	98.00	97.90	94.00	100.30	105.70	98.30	98.00		
16	17.80	0.00	-999.00	-999.00	21.80	0.00	97.90	97.80	102.00	99.80	106.20	98.40	98.10		
17	14.50	0.00	-999.00	-999.00	17.90	0.00	97.90	97.60	107.60	100.00	106.70	98.30	98.10		
18	15.10	0.00	-999.00	-999.00	19.40	0.00	97.50	97.60	122.80	99.60	107.00	98.50	98.30		
19	17.80	0.00	-999.00	-999.00	17.90	0.00	97.30	98.40	124.60	98.20	107.20	98.20	98.30		
20	17.90	0.00	-999.00	-999.00	17.90	0.00	97.10	97.60	124.00	97.80	107.70	98.00	98.30		
21	20.90	0.00	-999.00	-999.00	18.30	0.00	96.80	97.90	96.60	97.60	108.10	97.90	98.20		
22	21.10	0.00	-999.00	-999.00	18.80	0.00	96.90	98.00	83.50	97.80	108.20	97.70	98.10		
23	21.90	0.00	-999.00	-999.00	18.90	0.00	96.70	97.50	68.50	99.00	108.80	97.80	98.10		
24	21.10	0.00	-999.00	-999.00	18.90	0.00	96.40	97.60	61.50	99.10	109.10	97.90	98.00		

05 OCT 2002

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

05 OCT 2002

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. TAI LW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAI LW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAI LW.			
1	1.50	0.00	106.70	-999.00	101.20	100.70	15.80	0.00	95.30	95.50	13.90	0.00	-999.00	-999.00	
2	1.50	0.00	106.50	-999.00	101.10	100.40	14.00	0.00	95.10	96.50	13.60	0.00	-999.00	-999.00	
3	1.50	0.00	106.50	-999.00	101.00	100.10	14.30	0.00	95.10	96.10	13.60	0.00	-999.00	-999.00	
4	1.50	0.00	106.60	-999.00	100.80	99.90	14.30	0.00	95.10	95.80	13.80	0.00	-999.00	-999.00	
5	1.50	0.00	106.60	-999.00	100.80	99.70	14.00	0.00	95.00	95.50	13.60	0.00	-999.00	-999.00	
6	1.50	0.00	106.50	-999.00	100.80	99.50	14.00	0.00	94.80	95.30	13.60	0.00	-999.00	-999.00	
7	1.50	0.00	106.40	-999.00	100.60	99.30	14.00	0.00	94.80	95.00	14.80	0.00	-999.00	-999.00	
8	1.50	0.00	106.50	-999.00	100.70	99.10	14.50	0.00	94.60	94.90	14.60	0.00	-999.00	-999.00	
9	1.50	0.00	106.80	-999.00	101.60	99.40	18.40	0.00	94.50	95.10	20.60	0.00	-999.00	-999.00	
10	1.50	0.00	107.30	-999.00	102.50	99.90	20.00	0.00	94.50	94.80	20.10	0.00	-999.00	-999.00	
11	1.50	0.00	107.70	-999.00	103.40	101.10	19.90	0.00	94.60	94.80	19.90	0.00	-999.00	-999.00	
12	1.50	0.00	107.80	-999.00	104.30	102.30	20.30	0.00	95.00	94.90	19.90	0.00	-999.00	-999.00	
13	1.50	0.00	107.80	-999.00	104.30	103.60	21.00	0.00	95.00	94.80	20.30	0.00	-999.00	-999.00	
14	1.50	0.00	107.90	-999.00	104.60	104.80	21.10	0.00	94.90	94.70	21.60	0.00	-999.00	-999.00	
15	1.50	0.00	108.10	-999.00	105.00	105.20	21.40	0.00	94.80	94.90	21.70	0.00	-999.00	-999.00	
16	1.50	0.00	107.80	-999.00	105.00	105.40	21.10	0.00	95.00	94.90	21.70	0.00	-999.00	-999.00	
17	1.60	0.00	106.70	-999.00	104.90	105.00	21.10	0.00	94.80	94.70	22.10	0.00	-999.00	-999.00	
18	1.50	0.00	105.80	-999.00	104.20	104.40	21.10	0.00	94.50	94.70	21.70	0.00	-999.00	-999.00	
19	1.60	0.00	105.00	-999.00	103.40	103.40	21.60	0.00	94.30	94.50	21.60	0.00	-999.00	-999.00	
20	1.50	0.00	104.60	-999.00	102.30	102.30	26.50	0.00	94.70	94.60	22.10	0.00	-999.00	-999.00	
21	1.60	0.00	104.30	-999.00	101.80	101.40	30.10	0.00	94.60	95.90	22.00	0.00	-999.00	-999.00	
22	1.50	0.00	104.30	-999.00	101.50	100.60	27.50	0.00	94.70	94.90	22.40	0.00	-999.00	-999.00	
23	1.60	0.00	104.20	-999.00	101.20	100.10	17.70	0.00	94.50	94.60	21.90	0.00	-999.00	-999.00	
24	1.50	0.00	104.20	-999.00	100.80	99.80	15.80	0.00	94.30	94.50	16.80	0.00	-999.00	-999.00	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAI LW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAI LW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. WA FB TAI LW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT
1	13.80	0.00	-999.00	-999.00	18.00	0.00	96.30	97.60	0.00	61.60	0.00	99.00	109.40	97.90	98.00
2	13.40	0.00	-999.00	-999.00	12.40	0.00	96.20	97.40	0.00	61.10	0.00	98.80	109.70	97.90	97.80
3	13.40	0.00	-999.00	-999.00	9.90	0.00	96.10	97.20	0.00	60.50	0.00	98.80	110.30	97.70	97.90
4	13.40	0.00	-999.00	-999.00	9.70	0.00	96.10	97.20	0.00	61.10	0.00	98.80	110.70	97.70	98.00
5	13.60	0.00	-999.00	-999.00	10.10	0.00	96.10	97.20	0.00	68.00	0.00	98.80	111.00	97.70	98.20
6	13.40	0.00	-999.00	-999.00	10.20	0.00	96.00	97.00	0.00	78.80	0.00	98.70	110.90	97.60	98.30
7	13.70	0.00	-999.00	-999.00	10.40	0.20	96.10	97.10	0.00	79.80	0.00	98.50	111.20	97.70	98.30
8	14.20	0.00	-999.00	-999.00	12.70	0.00	95.90	97.40	0.00	82.10	0.00	98.30	111.50	97.60	98.30
9	20.90	0.00	-999.00	-999.00	19.10	0.00	95.90	97.90	0.00	89.30	0.00	98.00	111.70	97.70	98.20
10	19.90	0.00	-999.00	-999.00	19.60	0.10	96.00	98.30	0.00	89.20	0.00	98.00	112.00	97.70	98.10
11	20.50	0.00	-999.00	-999.00	20.00	0.00	96.00	98.30	0.00	91.60	0.00	98.30	112.30	97.80	98.00
12	21.60	0.00	-999.00	-999.00	21.50	0.00	96.00	98.00	0.00	90.90	0.00	98.90	111.90	98.20	98.20
13	20.10	0.00	-999.00	-999.00	20.10	0.00	96.20	97.90	0.00	91.80	0.00	99.20	112.20	98.30	98.30
14	21.40	0.00	-999.00	-999.00	21.00	0.00	96.00	98.40	0.00	97.00	0.00	99.50	112.60	98.20	98.30
15	21.40	0.00	-999.00	-999.00	21.40	0.00	95.90	98.30	0.00	94.00	0.00	99.50	113.00	98.20	98.70
16	21.30	0.00	-999.00	-999.00	22.40	0.00	95.90	98.00	0.00	83.30	0.00	99.60	113.20	98.00	98.90
17	22.70	0.00	-999.00	-999.00	21.00	0.00	96.00	97.70	0.00	83.70	0.00	99.80	114.00	98.10	99.20
18	27.40	0.00	-999.00	-999.00	23.60	0.00	96.00	97.50	0.00	84.90	0.00	100.00	114.10	97.90	99.30
19	27.60	0.00	-999.00	-999.00	23.70	0.00	95.90	97.90	0.00	85.30	0.00	100.00	114.30	97.70	99.00
20	27.40	0.00	-999.00	-999.00	24.80	0.00	95.80	96.70	0.00	89.60	0.00	100.00	114.50	97.60	98.70
21	27.50	0.00	-999.00	-999.00	24.40	0.00	95.80	96.50	0.00	89.80	0.00	99.80	114.90	97.70	98.40
22	27.40	0.00	-999.00	-999.00	24.20	0.00	95.70	96.50	0.00	89.10	0.00	99.60	115.10	97.60	98.20
23	22.10	0.00	-999.00	-999.00	24.00	0.00	95.70	96.50	0.00	86.40	0.00	98.20	115.50	97.50	98.00
24	14.10	0.00	-999.00	-999.00	20.10	0.00	95.70	96.40	0.00	67.40	0.00	98.00	115.50	97.50	97.80

06 OCT 2002

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

06 OCT 2002

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.			
1	1.60	0.00	104.00	-999.00	100.60	99.40	14.50	0.00	94.10	94.30	13.80	0.00	-999.00	-999.00	
2	1.50	0.00	103.90	-999.00	100.50	99.00	14.70	0.00	94.10	94.20	13.70	0.00	-999.00	-999.00	
3	1.60	0.00	103.90	-999.00	100.30	98.80	14.40	0.00	94.20	94.10	13.90	0.00	-999.00	-999.00	
4	1.60	0.00	103.90	-999.00	100.10	98.70	14.50	0.00	94.00	94.00	13.70	0.00	-999.00	-999.00	
5	1.50	0.00	103.80	-999.00	100.10	98.50	14.40	0.00	93.90	94.30	13.70	0.00	-999.00	-999.00	
6	1.50	0.00	103.80	-999.00	100.00	98.30	13.10	0.00	93.80	94.20	12.80	0.00	-999.00	-999.00	
7	1.60	0.00	103.70	-999.00	99.80	98.10	13.50	0.00	93.70	94.10	13.00	0.00	-999.00	-999.00	
8	1.50	0.00	103.80	-999.00	99.90	98.00	21.00	0.00	94.10	94.00	13.00	0.00	-999.00	-999.00	
9	1.60	0.00	104.00	-999.00	100.50	98.70	21.20	0.00	94.10	93.90	21.10	0.00	-999.00	-999.00	
10	1.50	0.00	104.50	-999.00	101.00	99.90	21.40	0.00	94.30	94.00	25.40	0.00	-999.00	-999.00	
11	1.60	0.00	104.80	-999.00	101.80	101.20	21.10	0.00	94.80	94.00	25.50	0.00	-999.00	-999.00	
12	1.50	0.00	105.40	-999.00	102.40	102.50	21.20	0.00	95.20	94.00	26.00	0.00	-999.00	-999.00	
13	1.60	0.00	106.10	-999.00	103.10	104.10	21.60	0.00	96.00	94.10	26.90	0.00	-999.00	-999.00	
14	1.50	0.00	106.70	-999.00	103.70	105.30	21.40	0.00	95.50	94.40	25.50	0.00	-999.00	-999.00	
15	1.60	0.00	107.00	-999.00	104.00	106.10	21.10	0.00	96.80	94.50	25.70	0.00	-999.00	-999.00	
16	1.50	0.00	107.00	-999.00	104.40	106.50	22.80	0.00	97.50	94.60	25.70	0.00	-999.00	-999.00	
17	1.60	0.00	106.50	-999.00	104.80	106.60	21.50	0.00	97.40	95.00	26.10	0.00	-999.00	-999.00	
18	1.50	0.00	105.90	-999.00	104.50	106.10	23.00	0.00	95.70	94.80	27.10	0.00	-999.00	-999.00	
19	1.60	0.00	104.90	-999.00	103.50	104.90	21.60	0.00	96.00	95.20	25.60	0.00	-999.00	-999.00	
20	1.50	0.00	104.30	-999.00	102.70	103.60	26.30	0.00	95.10	94.90	25.70	0.00	-999.00	-999.00	
21	1.60	0.00	104.10	-999.00	102.30	102.50	26.70	0.00	95.30	95.30	28.50	0.00	-999.00	-999.00	
22	1.50	0.00	104.10	-999.00	102.00	101.90	17.20	0.00	95.40	95.20	19.60	0.00	-999.00	-999.00	
23	1.50	0.00	103.90	-999.00	101.60	101.40	17.30	0.00	94.80	95.00	19.20	0.00	-999.00	-999.00	
24	1.60	0.00	103.90	-999.00	101.20	101.00	14.40	0.00	96.70	94.90	15.60	0.00	-999.00	-999.00	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT
1	13.80	0.00	-999.00	-999.00	17.30	0.00	95.60	96.40	65.30	0.00	98.10	116.00	97.50	0.00	97.70
2	13.80	0.00	-999.00	-999.00	12.00	0.00	95.40	96.30	63.70	0.00	98.40	116.10	97.40	0.00	97.50
3	15.30	0.00	-999.00	-999.00	11.50	0.00	95.30	96.20	63.70	0.00	98.60	116.40	97.20	0.00	97.30
4	13.80	0.00	-999.00	-999.00	11.60	0.00	95.20	96.30	64.40	0.00	98.50	116.50	97.20	0.00	97.10
5	14.10	0.00	-999.00	-999.00	13.00	0.00	95.20	96.40	65.10	0.00	98.50	116.60	97.00	0.00	97.00
6	13.90	0.00	-999.00	-999.00	10.50	0.00	95.30	96.70	61.20	0.00	98.60	116.70	97.00	0.00	96.80
7	13.90	0.00	-999.00	-999.00	10.90	0.00	95.10	96.70	62.90	0.00	98.60	116.90	96.90	0.00	96.60
8	14.20	0.00	-999.00	-999.00	13.00	0.00	94.90	97.00	88.50	0.00	98.50	117.20	97.20	0.00	96.50
9	21.20	0.00	-999.00	-999.00	19.60	0.00	95.00	97.00	85.00	0.00	98.20	117.50	97.50	0.00	96.40
10	28.40	0.00	-999.00	-999.00	25.60	0.00	95.30	97.90	83.60	0.00	98.20	117.80	97.60	0.00	96.30
11	28.20	0.00	-999.00	-999.00	27.80	0.00	95.70	97.60	89.50	0.00	98.80	118.10	97.90	0.00	96.40
12	27.70	0.00	-999.00	-999.00	28.40	0.00	95.70	97.00	82.20	0.00	99.70	118.60	98.10	0.00	96.60
13	27.80	0.00	-999.00	-999.00	28.90	0.00	95.80	97.40	80.40	0.00	100.10	118.80	98.50	0.00	97.00
14	27.90	0.00	-999.00	-999.00	28.30	0.00	95.80	98.00	88.10	0.00	99.80	119.30	98.60	0.00	97.60
15	28.10	0.00	-999.00	-999.00	28.40	0.00	95.90	97.80	87.10	0.00	100.60	119.60	98.70	0.00	98.00
16	29.60	0.00	-999.00	-999.00	29.90	0.00	95.80	97.50	86.30	0.00	101.00	119.90	98.50	0.00	98.30
17	28.60	0.00	-999.00	-999.00	28.50	0.00	95.70	97.40	87.90	0.00	101.10	120.30	98.70	0.00	98.50
18	28.00	0.00	-999.00	-999.00	32.10	0.00	95.80	97.90	88.90	0.00	101.10	120.60	98.70	0.00	98.60
19	28.00	0.00	-999.00	-999.00	31.00	0.00	95.80	97.00	91.60	0.00	101.20	120.50	98.50	0.00	98.60
20	27.60	0.00	-999.00	-999.00	28.70	0.00	95.80	97.20	114.00	0.00	101.40	120.60	98.10	0.00	98.50
21	27.80	0.00	-999.00	-999.00	28.60	0.00	95.90	96.70	111.20	0.00	100.90	121.00	97.90	0.00	98.30
22	29.40	0.00	-999.00	-999.00	28.50	0.00	95.90	96.80	91.80	0.00	100.70	121.50	98.10	0.00	98.20
23	28.20	0.00	-999.00	-999.00	27.30	0.00	96.00	96.70	84.90	0.00	100.50	121.30	98.10	0.00	98.20
24	15.70	0.00	-999.00	-999.00	12.50	0.00	96.10	96.60	62.30	0.00	100.30	121.70	98.00	0.00	98.00

07 OCT 2002

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

07 OCT 2002

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	LOWER GRANITE	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.		
1	1.50	0.00	104.00	-999.00	101.00	100.60	14.20	0.00	96.40	94.80	13.80	0.00	-999.00	-999.00	
2	1.60	0.00	103.90	-999.00	100.60	100.20	14.10	0.00	97.60	94.60	14.00	0.00	-999.00	-999.00	
3	1.50	0.00	104.00	-999.00	100.50	99.80	12.50	0.00	97.30	95.30	13.80	0.00	-999.00	-999.00	
4	1.60	0.00	103.90	-999.00	100.40	99.60	14.40	0.00	97.20	95.20	12.70	0.00	-999.00	-999.00	
5	1.50	0.00	103.90	-999.00	100.30	99.30	12.50	0.00	97.50	96.10	12.70	0.00	-999.00	-999.00	
6	1.50	0.00	103.90	-999.00	100.10	99.00	12.50	0.00	97.50	95.10	12.70	0.00	-999.00	-999.00	
7	1.60	0.00	102.60	-999.00	100.00	98.70	12.50	0.00	97.10	95.00	12.80	0.00	-999.00	-999.00	
8	1.50	0.00	103.80	-999.00	100.30	98.60	12.60	0.00	96.60	94.90	12.60	0.00	-999.00	-999.00	
9	1.60	0.00	104.40	-999.00	100.70	99.10	15.60	0.00	97.00	94.80	12.60	0.00	-999.00	-999.00	
10	1.50	0.00	104.90	-999.00	101.20	100.20	15.60	0.00	96.30	94.80	14.70	0.00	-999.00	-999.00	
11	1.60	0.00	105.70	-999.00	101.90	101.50	18.70	0.00	96.80	95.00	17.40	0.00	-999.00	-999.00	
12	1.50	0.00	106.10	-999.00	102.60	102.90	15.20	0.00	97.40	95.90	17.30	0.00	-999.00	-999.00	
13	1.60	0.00	106.80	-999.00	103.50	104.20	14.40	0.00	97.80	95.40	15.20	0.00	-999.00	-999.00	
14	1.50	0.00	107.30	-999.00	104.30	105.20	14.40	0.00	97.10	0.00	14.40	0.00	-999.00	-999.00	
15	1.60	0.00	107.60	-999.00	104.60	106.00	14.60	0.00	97.30	95.40	14.40	0.00	-999.00	-999.00	
16	1.50	0.00	107.60	-999.00	104.60	106.40	14.70	0.00	96.10	96.70	13.30	0.00	-999.00	-999.00	
17	1.60	0.00	107.30	-999.00	104.70	106.40	13.00	0.00	96.10	95.80	13.10	0.00	-999.00	-999.00	
18	1.50	0.00	106.50	-999.00	104.40	-999.00	13.00	0.00	96.10	95.20	13.10	0.00	-999.00	-999.00	
19	1.60	0.00	105.70	-999.00	103.30	-999.00	12.90	0.00	96.70	95.10	13.10	0.00	-999.00	-999.00	
20	1.50	0.00	105.10	-999.00	102.70	-999.00	14.70	0.00	96.90	95.10	13.60	0.00	-999.00	-999.00	
21	1.60	0.00	104.90	-999.00	102.10	-999.00	13.20	0.00	96.60	96.10	21.30	0.00	-999.00	-999.00	
22	1.50	0.00	104.80	-999.00	101.80	-999.00	12.40	0.00	95.50	95.20	13.60	0.00	-999.00	-999.00	
23	1.60	0.00	104.80	-999.00	101.50	-999.00	14.10	0.00	95.70	96.00	13.10	0.00	-999.00	-999.00	
24	1.50	0.00	104.80	-999.00	100.90	-999.00	12.40	0.00	95.60	95.70	14.10	0.00	-999.00	-999.00	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. OR FB	WA TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB		
1	13.80	0.00	-999.00 -999.00	11.80	0.00	96.00 96.70	57.80	0.00	100.50	122.00	98.10	0.00	-97.80		
2	13.80	0.00	-999.00 -999.00	12.00	0.00	95.90 96.50	64.80	0.00	99.90	122.30	98.00	0.00	-97.50		
3	13.90	0.00	-999.00 -999.00	12.00	0.00	95.80 96.50	64.60	0.00	98.70	122.50	98.20	0.00	-97.50		
4	14.10	0.00	-999.00 -999.00	12.20	0.00	95.70 96.90	77.20	0.00	98.20	123.10	98.20	0.00	-97.40		
5	14.00	0.00	-999.00 -999.00	12.00	0.00	95.70 97.20	86.00	0.00	98.00	123.30	98.20	0.00	-97.20		
6	14.00	0.00	-999.00 -999.00	12.00	0.00	95.80 97.30	104.10	0.00	98.20	123.30	98.30	0.00	-97.20		
7	13.90	0.00	-999.00 -999.00	12.00	0.00	95.80 97.30	105.40	0.00	98.00	123.70	98.30	0.00	-97.40		
8	13.90	0.00	-999.00 -999.00	12.00	0.00	95.70 97.40	102.40	0.00	97.90	124.00	98.30	0.00	-97.60		
9	13.60	0.00	-999.00 -999.00	12.00	0.00	95.80 97.30	118.50	0.00	97.80	123.90	98.40	0.00	-97.70		
10	13.40	0.00	-999.00 -999.00	12.20	0.00	96.10 97.80	118.20	0.00	97.90	124.30	98.50	0.00	-97.80		
11	13.60	0.00	-999.00 -999.00	12.00	0.00	96.20 97.80	107.20	0.00	98.20	124.40	98.80	0.00	-98.10		
12	13.40	0.00	-999.00 -999.00	11.90	0.00	96.40 98.00	99.40	0.00	99.20	124.70	99.10	0.00	-98.30		
13	13.40	0.00	-999.00 -999.00	11.90	0.00	96.30 98.40	99.80	0.00	101.30	124.80	99.40	0.00	-98.50		
14	13.40	0.00	-999.00 -999.00	12.00	0.00	96.40 99.10	86.40	0.00	102.40	125.30	99.60	0.00	-98.70		
15	13.40	0.00	-999.00 -999.00	12.20	0.00	96.30 98.90	86.00	0.00	103.10	125.50	99.60	0.00	-98.90		
16	13.30	0.00	-999.00 -999.00	11.90	0.00	96.20 98.90	88.90	0.00	103.50	126.00	99.50	0.00	-99.20		
17	14.80	0.00	-999.00 -999.00	11.90	0.00	96.10 98.90	89.40	0.00	103.90	0.00	99.60	0.00	-99.40		
18	13.60	0.00	-999.00 -999.00	13.50	0.00	96.30 98.80	89.90	0.00	103.50	100.70	99.60	0.00	-99.40		
19	13.80	0.00	-999.00 -999.00	17.60	0.00	96.50 98.40	102.80	0.00	103.60	100.70	99.50	0.00	-99.40		
20	13.80	0.00	-999.00 -999.00	19.50	0.00	96.60 98.20	117.50	0.00	103.90	101.90	99.60	0.00	-99.40		
21	18.80	0.00	-999.00 -999.00	24.50	0.00	96.70 98.90	134.70	0.00	103.70	102.30	99.40	0.00	-99.20		
22	15.30	0.00	-999.00 -999.00	18.40	0.20	96.70 98.50	133.70	0.00	102.20	102.10	99.40	0.00	-99.20		
23	14.00	0.00	-999.00 -999.00	18.00	0.10	96.50 97.50	100.20	0.00	99.10	101.70	99.20	0.00	-99.00		
24	13.60	0.00	-999.00 -999.00	12.50	0.00	96.40 97.00	79.80	0.00	98.30	101.90	99.20	0.00	-99.10		

08 OCT 2002

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

08 OCT 2002

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. TAI LW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAI LW.	LOWER GRANITE	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAI LW.		
1	1.50	0.00	104.80	-999.00	100.70	-999.00	14.10	0.00	95.30	96.40	14.40	0.00	-999.00	-999.00	
2	1.60	0.00	104.80	-999.00	100.40	-999.00	12.70	0.00	95.30	95.70	12.80	0.00	-999.00	-999.00	
3	1.50	0.00	104.70	-999.00	100.30	-999.00	12.50	0.00	95.50	94.90	12.70	0.00	-999.00	-999.00	
4	1.60	0.00	104.70	-999.00	100.10	-999.00	12.50	0.00	95.30	94.80	12.70	0.00	-999.00	-999.00	
5	1.50	0.00	104.60	-999.00	99.90	-999.00	12.40	0.00	95.40	94.70	12.80	0.00	-999.00	-999.00	
6	1.60	0.00	104.60	-999.00	100.00	-999.00	13.90	0.00	95.30	94.70	14.40	0.00	-999.00	-999.00	
7	1.50	0.00	104.40	-999.00	99.80	-999.00	15.10	0.00	95.30	94.70	14.10	0.00	-999.00	-999.00	
8	1.60	0.00	104.60	-999.00	100.00	-999.00	25.10	0.00	95.30	95.00	12.70	0.00	-999.00	-999.00	
9	1.50	0.00	0.00	-999.00	100.30	-999.00	25.20	0.00	95.30	94.80	13.10	0.00	-999.00	-999.00	
10	1.60	0.00	106.10	-999.00	99.90	-999.00	25.20	0.00	95.30	94.70	21.20	0.00	-999.00	-999.00	
11	1.50	0.00	106.20	-999.00	99.90	-999.00	25.20	0.00	95.90	94.90	21.40	0.00	-999.00	-999.00	
12	1.60	0.00	106.80	-999.00	99.90	-999.00	25.60	0.00	96.60	95.00	21.20	0.00	-999.00	-999.00	
13	1.50	0.00	107.60	-999.00	99.90	-999.00	21.90	0.00	97.10	95.20	21.20	0.00	-999.00	-999.00	
14	1.60	0.00	108.00	-999.00	99.90	-999.00	21.80	0.00	96.70	95.30	21.20	0.00	-999.00	-999.00	
15	1.50	0.00	108.20	-999.00	99.90	-999.00	20.10	0.00	98.00	95.40	20.80	0.00	-999.00	-999.00	
16	1.60	0.00	108.10	-999.00	99.90	-999.00	19.90	0.00	98.30	95.40	20.20	0.00	-999.00	-999.00	
17	1.50	0.00	107.70	-999.00	99.90	-999.00	19.90	0.00	97.90	95.40	18.80	0.00	-999.00	-999.00	
18	1.60	0.00	106.90	-999.00	99.90	-999.00	18.30	0.00	97.90	96.10	17.10	0.00	-999.00	-999.00	
19	1.50	0.00	106.10	-999.00	99.90	-999.00	17.00	0.00	97.90	95.50	17.10	0.00	-999.00	-999.00	
20	1.60	0.00	105.60	-999.00	99.90	-999.00	26.00	0.00	99.60	95.70	21.80	0.00	-999.00	-999.00	
21	1.50	0.00	105.40	-999.00	99.90	-999.00	30.50	0.00	99.10	95.60	31.20	0.00	-999.00	-999.00	
22	1.60	0.00	105.20	-999.00	99.90	-999.00	35.00	0.00	99.40	95.50	30.00	0.00	-999.00	-999.00	
23	1.50	0.00	105.00	-999.00	99.90	-999.00	26.00	0.00	99.60	95.50	29.50	0.00	-999.00	-999.00	
24	1.60	0.00	104.90	-999.00	99.90	-999.00	14.50	0.00	96.50	95.80	14.80	0.00	-999.00	-999.00	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAI LW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAI LW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB	MCNARY	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAI LW.	PASCO	
1	13.70	0.00	-999.00	-999.00	12.20	0.00	96.40	97.00	0.00	98.00	101.90	99.00	0.00	99.10	
2	13.70	0.00	-999.00	-999.00	12.40	0.00	96.50	97.10	0.00	97.80	101.70	99.00	0.00	99.20	
3	13.60	0.00	-999.00	-999.00	12.30	0.00	96.50	97.10	0.00	97.90	101.60	98.90	0.00	99.40	
4	15.10	0.00	-999.00	-999.00	12.30	0.00	96.40	97.30	0.00	98.10	101.40	98.70	0.00	99.50	
5	13.90	0.00	-999.00	-999.00	12.40	0.00	96.40	97.50	0.00	98.20	100.90	98.70	0.00	99.40	
6	13.70	0.00	-999.00	-999.00	13.80	0.00	96.20	97.50	0.00	98.00	100.70	98.90	0.00	99.40	
7	13.60	0.00	-999.00	-999.00	13.80	0.00	96.10	97.50	0.00	98.00	100.80	98.80	0.00	99.20	
8	13.90	0.00	-999.00	-999.00	13.80	0.00	96.10	97.60	0.00	97.90	100.50	98.80	0.00	98.90	
9	14.30	0.00	-999.00	-999.00	12.00	0.00	96.00	97.60	0.00	97.70	100.60	99.00	0.00	98.90	
10	14.30	0.00	-999.00	-999.00	12.00	0.00	96.00	98.00	0.00	98.00	100.20	99.20	0.00	98.80	
11	14.30	0.00	-999.00	-999.00	12.10	0.00	96.20	99.00	0.00	98.60	100.00	99.30	0.00	98.90	
12	17.00	0.00	-999.00	-999.00	18.70	0.00	96.70	98.90	0.00	100.10	100.50	99.60	0.00	99.10	
13	16.20	0.00	-999.00	-999.00	18.90	0.00	96.90	99.10	0.00	100.90	100.40	99.80	0.00	99.20	
14	19.30	0.00	-999.00	-999.00	19.20	0.00	97.10	99.50	0.00	100.20	100.40	100.20	0.00	99.30	
15	17.70	0.00	-999.00	-999.00	20.40	0.00	97.10	99.20	0.00	102.50	100.70	100.40	0.00	99.50	
16	19.80	0.00	-999.00	-999.00	20.60	0.00	97.00	98.90	0.00	102.90	100.50	100.20	0.00	99.70	
17	21.80	0.00	-999.00	-999.00	19.00	0.00	96.90	98.70	0.00	103.10	100.20	100.00	0.00	99.70	
18	21.50	0.00	-999.00	-999.00	18.80	0.00	97.00	99.30	0.00	103.50	100.40	99.90	0.00	99.90	
19	21.50	0.00	-999.00	-999.00	21.00	0.00	97.00	98.40	0.00	103.40	100.60	99.70	0.00	99.90	
20	25.60	0.00	-999.00	-999.00	24.20	0.00	97.20	98.40	0.00	102.90	101.10	99.60	0.00	99.90	
21	30.30	0.00	-999.00	-999.00	24.60	0.00	97.40	98.10	0.00	101.50	100.80	99.60	0.00	99.70	
22	31.00	0.00	-999.00	-999.00	24.50	0.00	97.50	98.30	0.00	117.00	0.00	99.90	100.70	99.30	
23	30.20	0.00	-999.00	-999.00	24.10	0.00	97.30	97.80	0.00	117.80	0.00	99.60	100.50	99.40	
24	16.60	0.00	-999.00	-999.00	18.40	0.00	97.60	97.60	0.00	117.30	0.00	100.80	100.40	99.20	

09 OCT 2002

WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT

09 OCT 2002

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.			
1	1.50	0.00	104.80	-999.00	-999.00	-999.00	13.90	0.00	97.20	13.70	0.00	-999.00	-999.00	-999.00	-999.00
2	1.60	0.00	104.20	-999.00	-999.00	-999.00	13.90	0.00	97.50	15.20	0.00	-999.00	-999.00	-999.00	-999.00
3	1.50	0.00	104.30	-999.00	-999.00	-999.00	15.50	0.00	97.70	13.40	0.00	-999.00	-999.00	-999.00	-999.00
4	1.60	0.00	103.90	-999.00	-999.00	-999.00	13.90	0.00	97.90	13.50	0.00	-999.00	-999.00	-999.00	-999.00
5	1.50	0.00	103.40	-999.00	-999.00	-999.00	14.10	0.00	98.00	13.90	0.00	-999.00	-999.00	-999.00	-999.00
6	1.60	0.00	105.20	-999.00	-999.00	-999.00	14.10	0.00	98.00	15.20	0.00	-999.00	-999.00	-999.00	-999.00
7	1.50	0.00	105.10	-999.00	-999.00	-999.00	14.20	0.00	97.80	13.90	0.00	-999.00	-999.00	-999.00	-999.00
8	1.60	0.00	105.30	-999.00	-999.00	-999.00	26.10	0.00	97.30	24.40	0.00	-999.00	-999.00	-999.00	-999.00
9	1.50	0.00	105.60	-999.00	-999.00	-999.00	26.00	0.00	97.10	25.30	0.00	-999.00	-999.00	-999.00	-999.00
10	1.60	0.00	105.90	-999.00	-999.00	-999.00	26.50	0.00	97.60	28.30	0.00	-999.00	-999.00	-999.00	-999.00
11	1.50	0.00	106.40	-999.00	-999.00	-999.00	27.90	0.00	98.00	27.40	0.00	-999.00	-999.00	-999.00	-999.00
12	1.60	0.00	107.10	-999.00	-999.00	-999.00	26.10	0.00	98.50	27.10	0.00	-999.00	-999.00	-999.00	-999.00
13	1.50	0.00	107.90	-999.00	-999.00	-999.00	19.90	0.00	98.70	25.70	0.00	-999.00	-999.00	-999.00	-999.00
14	1.60	0.00	108.50	-999.00	-999.00	-999.00	19.80	0.00	98.70	22.50	0.00	-999.00	-999.00	-999.00	-999.00
15	1.50	0.00	108.70	-999.00	-999.00	-999.00	20.10	0.00	99.60	21.00	0.00	-999.00	-999.00	-999.00	-999.00
16	1.60	0.00	108.50	-999.00	-999.00	-999.00	19.70	0.00	100.30	20.90	0.00	-999.00	-999.00	-999.00	-999.00
17	1.50	0.00	108.10	-999.00	-999.00	-999.00	20.50	0.00	99.50	20.90	0.00	-999.00	-999.00	-999.00	-999.00
18	1.60	0.00	107.10	-999.00	-999.00	-999.00	20.00	0.00	98.40	21.10	0.00	-999.00	-999.00	-999.00	-999.00
19	1.50	0.00	106.30	-999.00	-999.00	-999.00	16.00	0.00	98.00	20.50	0.00	-999.00	-999.00	-999.00	-999.00
20	1.60	0.00	105.80	-999.00	-999.00	-999.00	19.80	0.00	98.90	20.10	0.00	-999.00	-999.00	-999.00	-999.00
21	1.50	0.00	105.70	-999.00	-999.00	-999.00	18.40	0.00	99.00	20.10	0.00	-999.00	-999.00	-999.00	-999.00
22	1.60	0.00	105.60	-999.00	-999.00	-999.00	17.60	0.00	98.70	20.10	0.00	-999.00	-999.00	-999.00	-999.00
23	1.50	0.00	105.60	-999.00	-999.00	-999.00	17.50	0.00	98.60	20.30	0.00	-999.00	-999.00	-999.00	-999.00
24	1.60	0.00	105.70	-999.00	-999.00	-999.00	14.30	0.00	98.10	14.10	0.00	-999.00	-999.00	-999.00	-999.00

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.			
1	13.70	0.00	-999.00	12.50	0.00	97.40	117.60	0.00	99.10	101.30	99.50		99.10		
2	13.50	0.00	-999.00	12.30	0.00	97.10	115.80	0.00	99.90	101.00	99.60		99.30		
3	13.80	0.00	-999.00	13.80	0.00	96.80	122.40	0.00	99.20	100.80	99.40		99.40		
4	13.50	0.00	-999.00	12.30	0.00	96.50	119.50	0.00	99.50	100.80	99.40		99.40		
5	13.70	0.00	-999.00	12.70	0.00	96.50	127.90	0.00	99.20	100.90	99.50		99.40		
6	13.90	0.00	-999.00	12.50	0.00	96.40	144.20	0.00	98.90	101.00	99.70		-999.00		
7	14.10	0.00	-999.00	13.50	0.00	96.40	146.50	0.00	98.50	100.90	99.70		-999.00		
8	25.90	0.00	-999.00	20.00	0.00	96.50	146.30	0.00	98.40	100.80	99.80		-999.00		
9	26.90	0.00	-999.00	28.20	0.00	96.60	147.10	0.00	98.20	100.80	99.60		-999.00		
10	27.90	0.00	-999.00	30.20	0.00	96.80	147.20	0.00	98.30	100.60	99.80		99.10		
11	27.80	0.00	-999.00	29.80	0.00	97.10	147.20	0.00	98.70	100.40	100.10		99.00		
12	27.70	0.00	-999.00	29.70	0.00	97.10	146.40	0.00	100.00	100.50	100.30		99.20		
13	27.00	0.00	-999.00	23.90	0.00	97.20	147.10	0.00	100.50	100.70	100.60		99.40		
14	24.30	0.00	-999.00	20.20	0.00	97.30	146.90	0.00	101.00	101.00	100.70		99.80		
15	21.50	0.00	-999.00	20.00	0.00	97.30	146.30	0.00	101.50	100.80	100.50		100.10		
16	20.90	0.00	-999.00	20.60	0.00	97.30	146.70	0.00	101.30	100.70	100.30		100.40		
17	22.60	0.00	-999.00	20.20	0.00	97.30	146.50	0.00	101.60	100.70	100.30		100.80		
18	22.60	0.00	-999.00	21.70	0.00	97.30	146.20	0.00	101.10	100.80	100.20		100.90		
19	21.00	0.00	-999.00	20.20	0.00	97.50	146.80	0.00	101.00	100.50	100.00		101.10		
20	21.00	0.00	-999.00	20.30	0.00	97.40	147.20	0.00	101.20	100.50	100.10		101.10		
21	21.30	0.00	-999.00	20.90	0.00	97.40	147.30	0.00	101.10	100.30	100.00		101.10		
22	20.90	0.00	-999.00	20.70	0.00	97.40	146.00	0.00	101.20	100.20	99.90		100.90		
23	20.70	0.00	-999.00	21.90	0.00	97.40	143.70	0.00	100.80	100.20	99.90		100.90		
24	14.30	0.00	-999.00	17.90	0.00	97.40	144.80	0.00	100.50	100.20	99.90		100.80		

10 OCT 2002

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

10 OCT 2002

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	LOWER GRANITE	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.		
1	1.50	0.00	105.70	-999.00	-999.00	-999.00	14.00	0.00	98.10	96.50	13.80	0.00	-999.00	-999.00	
2	1.50	0.00	105.80	-999.00	-999.00	-999.00	14.10	0.00	97.90	96.60	13.30	0.00	-999.00	-999.00	
3	1.50	0.00	105.90	-999.00	-999.00	-999.00	15.70	0.00	98.00	96.60	13.30	0.00	-999.00	-999.00	
4	1.50	0.00	105.80	-999.00	-999.00	-999.00	14.10	0.00	97.70	97.20	13.50	0.00	-999.00	-999.00	
5	1.50	0.00	105.80	-999.00	-999.00	-999.00	14.10	0.00	97.60	97.10	13.20	0.00	-999.00	-999.00	
6	1.50	0.00	105.90	-999.00	-999.00	-999.00	14.20	0.00	97.40	96.70	13.20	0.00	-999.00	-999.00	
7	1.50	0.00	105.70	-999.00	-999.00	-999.00	13.90	0.00	97.20	96.60	15.10	0.00	-999.00	-999.00	
8	1.60	0.00	105.80	-999.00	-999.00	-999.00	13.80	0.00	96.90	96.50	13.70	0.00	-999.00	-999.00	
9	1.60	0.00	106.30	-999.00	-999.00	-999.00	18.30	0.00	96.80	96.30	13.90	0.00	-999.00	-999.00	
10	1.60	0.00	106.90	-999.00	-999.00	-999.00	20.40	0.00	96.50	96.30	13.70	0.00	-999.00	-999.00	
11	1.60	0.00	107.10	-999.00	-999.00	-999.00	20.70	0.00	96.80	96.40	13.70	0.00	-999.00	-999.00	
12	1.60	0.00	107.40	-999.00	-999.00	-999.00	26.30	0.00	96.80	96.70	13.70	0.00	-999.00	-999.00	
13	1.60	0.00	107.50	-999.00	-999.00	-999.00	24.70	0.00	96.80	96.70	14.20	0.00	-999.00	-999.00	
14	1.60	0.00	107.50	-999.00	-999.00	-999.00	24.70	0.00	96.60	96.60	26.70	0.00	-999.00	-999.00	
15	1.60	0.00	107.30	-999.00	-999.00	-999.00	24.40	0.00	96.80	96.60	24.80	0.00	-999.00	-999.00	
16	1.60	0.00	107.20	-999.00	-999.00	-999.00	22.00	0.00	96.90	96.40	24.70	0.00	-999.00	-999.00	
17	1.60	0.00	107.20	-999.00	-999.00	-999.00	21.10	0.00	96.90	96.20	24.90	0.00	-999.00	-999.00	
18	1.60	0.00	106.70	-999.00	-999.00	-999.00	21.20	0.00	96.90	96.20	25.30	0.00	-999.00	-999.00	
19	1.60	0.00	105.90	-999.00	-999.00	-999.00	20.90	0.00	96.50	96.10	24.80	0.00	-999.00	-999.00	
20	1.60	0.00	105.60	-999.00	-999.00	-999.00	21.70	0.00	96.20	96.10	26.30	0.00	-999.00	-999.00	
21	1.60	0.00	105.40	-999.00	-999.00	-999.00	28.20	0.00	96.30	96.40	27.70	0.00	-999.00	-999.00	
22	1.60	0.00	105.40	-999.00	-999.00	-999.00	27.50	0.00	96.20	96.20	27.70	0.00	-999.00	-999.00	
23	1.60	0.00	105.40	-999.00	-999.00	-999.00	15.00	0.00	96.30	96.40	28.00	0.00	-999.00	-999.00	
24	1.50	0.00	105.50	-999.00	-999.00	-999.00	14.40	0.00	96.20	96.30	16.30	0.00	-999.00	-999.00	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB	WA TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB	GAS %SAT	
1	13.80	0.00	-999.00	-999.00	12.50	0.00	97.40	98.10	139.40	0.00	100.10	100.10	100.10	100.50	
2	13.90	0.00	-999.00	-999.00	12.20	0.00	97.40	97.90	130.80	0.00	99.70	99.90	99.70	100.30	
3	13.90	0.00	-999.00	-999.00	12.40	0.00	97.30	98.50	130.30	0.00	99.60	100.00	99.80	100.00	
4	14.20	0.00	-999.00	-999.00	12.20	0.00	97.20	98.50	131.80	0.00	99.30	100.00	99.60	99.70	
5	14.00	0.00	-999.00	-999.00	12.20	0.00	97.20	98.00	134.50	0.00	99.10	99.90	99.70	99.50	
6	13.90	0.00	-999.00	-999.00	12.20	0.00	97.30	98.10	133.50	0.00	98.90	99.90	99.60	99.30	
7	13.60	0.00	-999.00	-999.00	12.40	0.00	97.10	98.20	126.20	0.00	98.90	99.80	99.60	99.20	
8	13.80	0.00	-999.00	-999.00	12.40	0.00	97.10	98.30	116.50	0.00	98.80	99.60	99.40	99.00	
9	14.00	0.00	-999.00	-999.00	12.60	0.00	97.00	98.20	109.90	0.00	98.80	99.90	99.40	98.80	
10	13.80	0.00	-999.00	-999.00	12.40	0.00	97.10	98.30	110.60	0.00	98.90	99.70	99.40	98.70	
11	13.80	0.00	-999.00	-999.00	12.40	0.00	97.10	98.40	131.70	0.00	98.90	99.70	99.40	98.60	
12	13.80	0.00	-999.00	-999.00	12.50	0.00	97.10	98.50	128.20	0.00	98.90	99.80	99.60	98.60	
13	13.70	0.00	-999.00	-999.00	12.50	0.00	97.10	98.80	120.30	0.00	99.00	99.70	99.70	98.60	
14	13.70	0.00	-999.00	-999.00	12.60	0.00	97.10	99.30	127.20	0.00	99.00	99.70	99.80	98.50	
15	14.10	0.00	-999.00	-999.00	12.30	0.00	97.30	99.20	121.10	0.00	99.50	99.60	99.80	98.60	
16	26.50	0.00	-999.00	-999.00	13.20	0.00	97.20	99.40	120.20	0.00	99.80	99.70	99.80	98.60	
17	28.00	0.00	-999.00	-999.00	23.10	0.00	97.10	99.30	121.40	0.00	99.90	99.70	99.60	98.80	
18	26.30	0.00	-999.00	-999.00	23.70	0.00	97.00	98.90	122.50	0.00	100.00	99.80	99.50	98.80	
19	27.00	0.00	-999.00	-999.00	25.10	0.00	97.00	98.50	123.90	0.00	99.70	99.40	99.20	98.90	
20	27.00	0.00	-999.00	-999.00	24.60	0.00	97.00	97.70	135.90	0.00	99.50	99.30	98.90	98.70	
21	31.20	0.00	-999.00	-999.00	29.40	0.00	96.90	97.50	141.20	0.00	99.50	99.20	98.90	98.50	
22	31.80	0.00	-999.00	-999.00	29.70	0.00	96.80	97.90	108.20	0.00	99.20	99.00	98.70	98.50	
23	35.00	0.00	-999.00	-999.00	32.90	0.00	96.80	97.60	96.00	0.00	99.00	99.00	98.70	98.30	
24	33.90	0.00	-999.00	-999.00	33.20	0.00	96.70	97.30	97.40	0.00	99.00	98.90	98.60	98.20	

11 OCT 2002

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

11 OCT 2002

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	LOWER GRANITE	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.		
1	1.60	0.00	105.30	-999.00	-999.00	-999.00	17.10	0.00	96.10	96.20	14.60	0.00	-999.00	-999.00	
2	1.60	0.00	105.00	-999.00	-999.00	-999.00	17.30	0.00	96.20	96.10	14.60	0.00	-999.00	-999.00	
3	1.60	0.00	105.00	-999.00	-999.00	-999.00	17.00	0.00	96.20	96.10	14.90	0.00	-999.00	-999.00	
4	1.60	0.00	104.90	-999.00	-999.00	-999.00	17.00	0.00	96.10	96.00	14.80	0.00	-999.00	-999.00	
5	1.60	0.00	104.70	-999.00	-999.00	-999.00	20.20	0.00	96.00	96.10	16.80	0.00	-999.00	-999.00	
6	1.60	0.00	104.50	-999.00	-999.00	-999.00	20.30	0.00	95.90	95.80	19.90	0.00	-999.00	-999.00	
7	1.60	0.00	104.40	-999.00	-999.00	-999.00	20.60	0.00	95.90	95.80	19.80	0.00	-999.00	-999.00	
8	1.60	0.00	104.40	-999.00	-999.00	-999.00	20.70	0.00	95.70	95.70	20.20	0.00	-999.00	-999.00	
9	1.60	0.00	104.80	-999.00	-999.00	-999.00	20.60	0.00	95.80	95.60	19.80	0.00	-999.00	-999.00	
10	1.60	0.00	105.30	-999.00	-999.00	-999.00	20.80	0.00	95.70	95.60	21.40	0.00	-999.00	-999.00	
11	1.60	0.00	106.00	-999.00	-999.00	-999.00	25.80	0.00	96.00	95.60	25.60	0.00	-999.00	-999.00	
12	1.60	0.00	106.30	-999.00	-999.00	-999.00	27.30	0.00	95.90	95.60	27.20	0.00	-999.00	-999.00	
13	1.60	0.00	106.70	-999.00	-999.00	-999.00	27.90	0.00	95.90	95.50	28.20	0.00	-999.00	-999.00	
14	1.60	0.00	106.60	-999.00	-999.00	-999.00	24.90	0.00	95.70	95.60	26.10	0.00	-999.00	-999.00	
15	1.60	0.00	106.80	-999.00	-999.00	-999.00	24.70	0.00	95.70	95.50	27.40	0.00	-999.00	-999.00	
16	1.60	0.00	106.40	-999.00	-999.00	-999.00	24.70	0.00	95.70	95.50	25.90	0.00	-999.00	-999.00	
17	1.50	0.00	105.80	-999.00	-999.00	-999.00	20.60	0.00	96.20	95.70	26.30	0.00	-999.00	-999.00	
18	1.50	0.00	105.20	-999.00	-999.00	-999.00	20.10	0.00	96.00	95.60	25.80	0.00	-999.00	-999.00	
19	1.50	0.00	104.60	-999.00	-999.00	-999.00	17.20	0.00	95.80	95.50	22.00	0.00	-999.00	-999.00	
20	1.50	0.00	104.10	-999.00	-999.00	-999.00	17.50	0.00	95.90	95.40	18.70	0.00	-999.00	-999.00	
21	1.50	0.00	103.80	-999.00	-999.00	-999.00	17.10	0.00	95.80	95.40	17.30	0.00	-999.00	-999.00	
22	1.50	0.00	103.70	-999.00	-999.00	-999.00	14.50	0.00	95.60	95.50	13.60	0.00	-999.00	-999.00	
23	1.50	0.00	103.70	-999.00	-999.00	-999.00	14.60	0.00	95.70	95.30	13.40	0.00	-999.00	-999.00	
24	1.60	0.00	103.70	-999.00	-999.00	-999.00	14.40	0.00	95.50	95.20	13.50	0.00	-999.00	-999.00	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB	WA TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB	GAS %SAT	
1	20.50	0.00	-999.00	-999.00	29.90	0.00	96.60	97.20	0.00	98.90	98.80	98.70	0.00	98.00	
2	15.80	0.00	-999.00	-999.00	36.20	0.00	96.40	97.00	0.00	98.80	98.90	98.80	0.00	98.00	
3	13.90	0.00	-999.00	-999.00	17.90	0.00	96.30	97.00	0.00	98.60	98.70	98.70	0.00	97.80	
4	13.80	0.00	-999.00	-999.00	13.10	0.00	96.20	97.00	0.00	98.50	98.50	98.70	0.00	97.60	
5	14.20	0.00	-999.00	-999.00	12.20	0.00	96.00	96.90	0.00	98.30	98.40	98.60	0.00	97.20	
6	18.00	0.00	-999.00	-999.00	12.20	0.00	95.90	97.00	0.00	98.10	98.40	98.50	0.00	97.00	
7	18.10	0.00	-999.00	-999.00	14.00	0.00	95.90	97.00	0.00	98.00	98.30	98.30	0.00	96.60	
8	17.50	0.00	-999.00	-999.00	18.30	0.00	95.80	97.30	0.00	97.90	98.10	98.20	0.00	96.40	
9	17.40	0.00	-999.00	-999.00	19.50	0.00	95.80	97.40	0.00	97.80	98.20	98.10	0.00	96.20	
10	21.40	0.00	-999.00	-999.00	17.90	0.00	95.90	97.90	0.00	97.90	98.20	98.50	0.00	96.10	
11	25.80	0.00	-999.00	-999.00	22.50	0.00	96.00	98.20	0.00	98.00	98.10	98.40	0.00	96.00	
12	28.10	0.00	-999.00	-999.00	23.10	0.00	95.80	98.20	0.00	98.30	98.20	98.50	0.00	96.00	
13	30.40	0.00	-999.00	-999.00	24.60	0.00	95.90	97.70	0.00	98.60	98.40	98.70	0.00	96.20	
14	27.50	0.00	-999.00	-999.00	24.50	0.00	95.90	98.00	0.00	98.80	98.40	98.70	0.00	96.20	
15	27.50	0.00	-999.00	-999.00	24.60	0.00	95.80	97.50	0.00	98.90	98.50	98.70	0.00	96.20	
16	27.40	0.00	-999.00	-999.00	24.60	0.00	95.90	97.50	0.00	99.00	98.40	98.60	0.00	96.20	
17	27.00	0.00	-999.00	-999.00	24.60	0.00	95.70	97.30	0.00	99.10	98.40	98.60	0.00	96.40	
18	26.80	0.00	-999.00	-999.00	26.10	0.00	95.70	97.00	0.00	99.10	98.40	98.50	0.00	96.60	
19	26.90	0.00	-999.00	-999.00	25.00	0.00	95.70	96.60	0.00	99.10	98.40	98.30	0.00	96.50	
20	26.60	0.00	-999.00	-999.00	24.60	0.00	95.60	96.70	0.00	99.00	98.20	98.00	0.00	96.50	
21	21.40	0.00	-999.00	-999.00	24.40	0.00	95.70	96.70	0.00	98.80	98.10	97.80	0.00	96.40	
22	15.40	0.00	-999.00	-999.00	19.10	0.00	95.60	96.30	0.00	98.60	97.90	97.70	0.00	96.40	
23	13.60	0.00	-999.00	-999.00	18.80	0.00	95.40	96.20	0.00	98.50	97.90	97.60	0.00	96.50	
24	13.50	0.00	-999.00	-999.00	18.60	0.00	95.40	96.10	0.00	98.30	97.80	97.60	0.00	96.70	

12 OCT 2002

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

12 OCT 2002

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB	TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB	TAILW.	
1	1.60	0.00	103.60	-999.00	-999.00	-999.00	14.40	0.00	95.50	95.00	14.90	0.00	-999.00	-999.00	
2	1.60	0.00	103.50	-999.00	-999.00	-999.00	14.40	0.00	95.30	95.00	13.70	0.00	-999.00	-999.00	
3	1.50	0.00	103.40	-999.00	-999.00	-999.00	14.40	0.00	95.30	94.90	13.40	0.00	-999.00	-999.00	
4	1.60	0.00	103.50	-999.00	-999.00	-999.00	16.30	0.00	95.30	96.20	13.40	0.00	-999.00	-999.00	
5	1.50	0.00	103.40	-999.00	-999.00	-999.00	16.20	0.00	95.20	95.70	13.40	0.00	-999.00	-999.00	
6	1.60	0.00	103.40	-999.00	-999.00	-999.00	14.30	0.00	95.10	96.90	13.70	0.00	-999.00	-999.00	
7	1.50	0.00	103.30	-999.00	-999.00	-999.00	14.30	0.00	95.00	95.10	13.30	0.00	-999.00	-999.00	
8	1.50	0.00	103.60	-999.00	-999.00	-999.00	14.70	0.00	95.10	94.90	13.40	0.00	-999.00	-999.00	
9	1.50	0.00	103.80	-999.00	-999.00	-999.00	14.40	0.00	94.90	94.90	13.40	0.00	-999.00	-999.00	
10	1.50	0.00	104.00	-999.00	-999.00	-999.00	14.40	0.00	95.00	94.80	14.90	0.00	-999.00	-999.00	
11	1.60	0.00	104.20	-999.00	-999.00	-999.00	14.40	0.00	95.20	94.90	13.60	0.00	-999.00	-999.00	
12	1.60	0.00	104.70	-999.00	-999.00	-999.00	14.40	0.00	95.50	94.90	13.40	0.00	-999.00	-999.00	
13	1.60	0.00	105.30	-999.00	-999.00	-999.00	14.30	0.00	95.80	95.10	13.40	0.00	-999.00	-999.00	
14	1.60	0.00	106.00	-999.00	-999.00	-999.00	14.40	0.00	96.10	95.40	15.60	0.00	-999.00	-999.00	
15	1.60	0.00	106.10	-999.00	-999.00	-999.00	14.20	0.00	96.00	95.40	14.10	0.00	-999.00	-999.00	
16	1.50	0.00	105.90	-999.00	-999.00	-999.00	14.30	0.00	96.10	95.40	14.40	0.00	-999.00	-999.00	
17	1.50	0.00	105.60	-999.00	-999.00	-999.00	14.80	0.00	96.80	95.40	14.70	0.00	-999.00	-999.00	
18	1.50	0.00	104.80	-999.00	-999.00	-999.00	27.50	0.00	96.60	95.50	27.90	0.00	-999.00	-999.00	
19	1.60	0.00	104.00	-999.00	-999.00	-999.00	28.00	0.00	96.30	95.40	28.20	0.00	-999.00	-999.00	
20	1.60	0.00	103.80	-999.00	-999.00	-999.00	28.40	0.00	95.90	95.20	27.50	0.00	-999.00	-999.00	
21	1.60	0.00	103.90	-999.00	-999.00	-999.00	29.90	0.00	95.80	95.90	26.90	0.00	-999.00	-999.00	
22	1.60	0.00	104.20	-999.00	-999.00	-999.00	17.30	0.00	95.90	95.80	24.80	0.00	-999.00	-999.00	
23	1.60	0.00	104.00	-999.00	-999.00	-999.00	16.90	0.00	95.90	95.60	24.80	0.00	-999.00	-999.00	
24	1.50	0.00	103.90	-999.00	-999.00	-999.00	16.90	0.00	95.90	95.40	22.00	0.00	-999.00	-999.00	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. OR FB WA TAILW.	FBC	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB	TAILW.	
1	13.40	0.00	-999.00 -999.00	11.90	0.00	95.20 96.10	98.50	0.00	98.10 97.60 97.50		96.70				
2	13.40	0.00	-999.00 -999.00	11.30	0.00	95.30 96.20	88.10	0.00	98.00 97.40 97.30		96.80				
3	13.50	0.00	-999.00 -999.00	11.30	0.00	95.10 96.10	75.70	0.00	97.80 97.70 97.20		96.80				
4	13.50	0.00	-999.00 -999.00	11.30	0.00	95.10 96.00	72.90	0.00	97.70 97.60 97.00		96.70				
5	13.70	0.00	-999.00 -999.00	11.30	0.00	95.10 95.90	69.70	0.00	97.50 97.40 97.00		96.50				
6	13.50	0.00	-999.00 -999.00	11.50	0.00	94.90 96.20	70.20	0.00	97.30 97.40 97.00		96.40				
7	13.40	0.00	-999.00 -999.00	11.50	0.00	94.80 96.30	73.40	0.00	97.10 97.40 96.90		96.10				
8	13.50	0.00	-999.00 -999.00	11.50	0.00	94.70 96.50	74.00	0.00	97.10 97.20 96.90		95.90				
9	15.10	0.00	-999.00 -999.00	11.50	0.00	94.70 96.40	100.50	0.00	96.90 97.20 97.00		95.80				
10	14.00	0.00	-999.00 -999.00	11.40	0.00	94.50 96.90	98.20	0.00	96.90 97.30 97.40		95.60				
11	14.00	0.00	-999.00 -999.00	11.60	0.00	94.70 96.90	93.30	0.00	97.20 97.30 97.70		95.60				
12	14.20	0.00	-999.00 -999.00	12.90	0.00	94.90 97.10	94.00	0.00	97.50 97.40 97.70		95.60				
13	15.70	0.00	-999.00 -999.00	11.50	0.00	95.00 97.60	109.30	0.00	97.70 97.60 97.80		95.80				
14	14.20	0.00	-999.00 -999.00	12.70	0.00	95.20 98.20	109.90	0.00	97.80 97.90 97.90		95.90				
15	14.30	0.00	-999.00 -999.00	12.80	0.00	95.00 98.20	111.00	0.00	98.00 98.20 98.00		96.30				
16	14.40	0.00	-999.00 -999.00	12.80	0.00	95.00 98.30	110.60	0.00	98.10 98.30 97.90		96.50				
17	14.70	0.00	-999.00 -999.00	13.80	0.00	95.30 99.00	111.20	0.00	98.30 98.30 98.00		96.80				
18	27.10	0.00	-999.00 -999.00	23.00	0.00	95.30 98.10	108.40	0.00	98.20 98.10 98.00		96.80				
19	27.50	0.00	-999.00 -999.00	25.10	0.00	95.40 97.50	101.30	0.00	98.10 98.50 98.00		97.00				
20	27.60	0.00	-999.00 -999.00	24.20	0.00	95.50 97.00	102.70	0.00	98.00 98.20 97.80		97.10				
21	27.40	0.00	-999.00 -999.00	24.30	0.00	96.30 96.90	98.70	0.00	97.90 98.10 97.70		97.10				
22	26.50	0.00	-999.00 -999.00	24.30	0.00	96.70 96.60	97.70	0.00	97.80 98.10 97.70		97.10				
23	26.60	0.00	-999.00 -999.00	23.80	0.00	96.60 96.40	97.30	0.00	97.80 98.10 97.80		97.00				
24	18.60	0.00	-999.00 -999.00	23.80	0.00	96.50 96.40	88.10	0.00	97.50 98.20 97.70		96.90				

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**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

13 OCT 2002

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	LOWER GRANITE	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.		
1	1.50	0.00	103.80	-999.00	-999.00	-999.00	14.50	0.00	95.90	95.40	13.20	0.00	-999.00	-999.00	
2	1.50	0.00	103.80	-999.00	-999.00	-999.00	14.20	0.00	95.80	95.40	12.80	0.00	-999.00	-999.00	
3	1.60	0.00	103.90	-999.00	-999.00	-999.00	14.30	0.00	95.60	95.40	12.90	0.00	-999.00	-999.00	
4	1.50	0.00	103.80	-999.00	-999.00	-999.00	14.60	0.00	95.60	95.30	12.80	0.00	-999.00	-999.00	
5	1.60	0.00	103.80	-999.00	-999.00	-999.00	14.50	0.00	95.70	95.70	12.80	0.00	-999.00	-999.00	
6	1.50	0.00	103.80	-999.00	-999.00	-999.00	14.60	0.00	95.70	95.60	13.00	0.00	-999.00	-999.00	
7	1.60	0.00	103.70	-999.00	-999.00	-999.00	14.20	0.00	95.70	95.40	12.60	0.00	-999.00	-999.00	
8	1.50	0.00	103.60	-999.00	-999.00	-999.00	12.90	0.00	95.80	95.40	12.60	0.00	-999.00	-999.00	
9	1.60	0.00	104.20	-999.00	-999.00	-999.00	14.50	0.00	95.90	95.60	12.60	0.00	-999.00	-999.00	
10	1.50	0.00	104.50	-999.00	-999.00	-999.00	12.80	0.00	96.00	96.40	12.80	0.00	-999.00	-999.00	
11	1.60	0.00	104.80	-999.00	-999.00	-999.00	12.80	0.00	96.10	95.80	12.60	0.00	-999.00	-999.00	
12	1.50	0.00	105.40	-999.00	-999.00	-999.00	13.00	0.00	96.40	95.80	14.10	0.00	-999.00	-999.00	
13	1.60	0.00	106.30	-999.00	-999.00	-999.00	12.80	0.00	96.90	96.10	12.60	0.00	-999.00	-999.00	
14	1.50	0.00	107.00	-999.00	-999.00	-999.00	12.80	0.00	97.30	96.10	12.60	0.00	-999.00	-999.00	
15	1.60	0.00	107.30	-999.00	-999.00	-999.00	12.80	0.00	97.20	96.20	12.80	0.00	-999.00	-999.00	
16	1.50	0.00	107.20	-999.00	-999.00	-999.00	14.50	0.00	97.80	96.20	12.60	0.00	-999.00	-999.00	
17	1.60	0.00	106.80	-999.00	-999.00	-999.00	13.00	0.00	97.20	97.00	12.60	0.00	-999.00	-999.00	
18	1.50	0.00	105.90	-999.00	-999.00	-999.00	12.80	0.00	97.00	96.10	12.60	0.00	-999.00	-999.00	
19	1.60	0.00	105.20	-999.00	-999.00	-999.00	12.80	0.00	96.30	96.00	12.60	0.00	-999.00	-999.00	
20	1.50	0.00	104.60	-999.00	-999.00	-999.00	13.30	0.00	96.00	95.90	12.80	0.00	-999.00	-999.00	
21	1.60	0.00	104.40	-999.00	-999.00	-999.00	13.90	0.00	95.80	96.00	14.10	0.00	-999.00	-999.00	
22	1.50	0.00	104.40	-999.00	-999.00	-999.00	15.00	0.00	96.10	96.00	14.70	0.00	-999.00	-999.00	
23	1.60	0.00	104.30	-999.00	-999.00	-999.00	14.90	0.00	95.90	95.60	14.60	0.00	-999.00	-999.00	
24	1.50	0.00	104.40	-999.00	-999.00	-999.00	14.10	0.00	95.70	95.60	14.30	0.00	-999.00	-999.00	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB	WA TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB	GAS %SAT	
1	17.00	0.00	-999.00	-999.00	23.80	0.00	96.20	96.40	0.00	97.40	98.00	97.50	0.00	96.80	
2	16.90	0.00	-999.00	-999.00	23.30	0.00	96.10	96.30	0.00	97.40	97.80	97.40	0.00	96.90	
3	16.10	0.00	-999.00	-999.00	18.50	0.00	95.90	96.40	0.00	97.40	97.80	97.50	0.00	97.00	
4	14.30	0.00	-999.00	-999.00	18.30	0.00	95.70	96.40	0.00	97.50	97.70	97.60	0.00	97.10	
5	14.30	0.00	-999.00	-999.00	20.20	0.00	95.60	96.30	0.00	97.40	97.70	97.60	0.00	97.20	
6	14.30	0.00	-999.00	-999.00	12.50	0.00	95.60	96.60	0.00	97.40	97.80	97.50	0.00	97.10	
7	14.30	0.00	-999.00	-999.00	11.90	0.00	95.60	96.80	0.00	97.40	97.80	97.50	0.00	97.00	
8	13.60	0.00	-999.00	-999.00	11.90	0.00	95.40	96.80	0.00	97.40	97.70	97.70	0.00	97.00	
9	13.70	0.00	-999.00	-999.00	12.60	0.00	95.40	96.80	0.00	97.30	97.80	97.80	0.00	96.90	
10	13.50	0.00	-999.00	-999.00	12.60	0.00	95.60	98.20	0.00	97.50	97.70	98.10	0.00	96.80	
11	13.50	0.00	-999.00	-999.00	12.60	0.00	95.60	97.90	0.00	97.70	97.80	98.40	0.00	96.80	
12	13.50	0.00	-999.00	-999.00	12.80	0.00	95.80	98.00	0.00	98.00	98.00	98.50	0.00	96.80	
13	13.50	0.00	-999.00	-999.00	14.10	0.00	96.00	98.30	0.00	98.50	98.00	98.70	0.00	97.20	
14	13.70	0.00	-999.00	-999.00	12.60	0.00	96.00	98.40	0.00	98.80	98.30	98.90	0.00	97.50	
15	13.40	0.00	-999.00	-999.00	12.60	0.00	96.10	99.00	0.00	99.20	98.30	98.80	0.00	97.80	
16	14.90	0.00	-999.00	-999.00	12.50	0.00	96.00	98.90	0.00	99.40	98.20	98.50	0.00	98.00	
17	13.40	0.00	-999.00	-999.00	12.80	0.00	95.90	99.30	0.00	99.40	98.20	98.60	0.00	98.20	
18	15.00	0.00	-999.00	-999.00	14.10	0.00	96.00	99.10	0.00	99.30	98.10	98.40	0.00	98.30	
19	13.50	0.00	-999.00	-999.00	12.60	0.00	96.50	98.40	0.00	99.30	98.00	98.30	0.00	98.20	
20	13.80	0.00	-999.00	-999.00	12.60	0.00	96.90	97.90	0.00	99.20	97.80	98.10	0.00	98.00	
21	13.60	0.00	-999.00	-999.00	14.10	0.00	97.30	97.60	0.00	99.40	99.10	97.70	0.00	97.90	
22	15.30	0.00	-999.00	-999.00	12.60	0.00	97.40	98.10	0.00	99.10	97.60	97.70	0.00	97.70	
23	13.90	0.00	-999.00	-999.00	12.50	0.00	97.40	97.60	0.00	98.70	97.60	97.60	0.00	97.50	
24	14.00	0.00	-999.00	-999.00	12.80	0.00	97.40	97.20	0.00	98.60	97.40	97.40	0.00	97.30	

14 OCT 2002

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

14 OCT 2002

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. TAI LW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAI LW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAI LW.			
1	1.60	0.00	104.50	-999.00	-999.00	-999.00	15.80	0.00	95.70	15.60	0.00	-999.00	-999.00		
2	1.50	0.00	104.00	-999.00	-999.00	-999.00	14.10	0.00	95.60	13.90	0.00	-999.00	-999.00		
3	1.60	0.00	103.80	-999.00	-999.00	-999.00	14.30	0.00	95.60	15.40	0.00	-999.00	-999.00		
4	1.50	0.00	104.00	-999.00	-999.00	-999.00	14.10	0.00	95.40	14.00	0.00	-999.00	-999.00		
5	1.60	0.00	103.80	-999.00	-999.00	-999.00	16.10	0.00	95.40	14.30	0.00	-999.00	-999.00		
6	1.50	0.00	103.60	-999.00	-999.00	-999.00	13.80	0.00	95.40	14.10	0.00	-999.00	-999.00		
7	1.60	0.00	103.40	-999.00	-999.00	-999.00	13.80	0.00	95.40	14.10	0.00	-999.00	-999.00		
8	1.50	0.00	103.50	-999.00	-999.00	-999.00	12.60	0.00	95.40	12.60	0.00	-999.00	-999.00		
9	1.60	0.00	103.70	-999.00	-999.00	-999.00	12.30	0.00	95.30	12.50	0.00	-999.00	-999.00		
10	1.50	0.00	104.20	-999.00	-999.00	-999.00	12.40	0.00	95.40	12.70	0.00	-999.00	-999.00		
11	1.60	0.00	104.80	-999.00	-999.00	-999.00	12.30	0.00	95.40	12.50	0.00	-999.00	-999.00		
12	1.50	0.00	105.40	-999.00	-999.00	-999.00	12.30	0.00	95.50	14.00	0.00	-999.00	-999.00		
13	1.60	0.00	106.20	-999.00	-999.00	-999.00	12.40	0.00	96.00	14.00	0.00	-999.00	-999.00		
14	1.50	0.00	106.80	-999.00	-999.00	-999.00	12.70	0.00	96.50	12.80	0.00	-999.00	-999.00		
15	1.60	0.00	106.80	-999.00	-999.00	-999.00	12.50	0.00	97.00	12.50	0.00	-999.00	-999.00		
16	1.50	0.00	106.90	-999.00	-999.00	-999.00	14.20	0.00	97.30	12.50	0.00	-999.00	-999.00		
17	1.60	0.00	106.30	-999.00	-999.00	-999.00	12.50	0.00	97.50	14.00	0.00	-999.00	-999.00		
18	1.50	0.00	105.60	-999.00	-999.00	-999.00	12.50	0.00	97.80	12.50	0.00	-999.00	-999.00		
19	1.60	0.00	104.90	-999.00	-999.00	-999.00	13.10	0.00	97.90	12.80	0.00	-999.00	-999.00		
20	1.50	0.00	104.50	-999.00	-999.00	-999.00	21.90	0.00	97.90	14.10	0.00	-999.00	-999.00		
21	1.60	0.00	104.30	-999.00	-999.00	-999.00	17.50	0.00	97.80	16.80	0.00	-999.00	-999.00		
22	1.50	0.00	104.20	-999.00	-999.00	-999.00	17.50	0.00	97.70	16.80	0.00	-999.00	-999.00		
23	1.60	0.00	104.10	-999.00	-999.00	-999.00	17.50	0.00	97.60	18.40	0.00	-999.00	-999.00		
24	1.60	0.00	104.20	-999.00	-999.00	-999.00	14.30	0.00	97.40	14.80	0.00	-999.00	-999.00		

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAI LW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAI LW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. WA FB TAI LW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT
1	15.20	0.00	-999.00	-999.00	12.50	0.00	97.20	97.70	0.00	98.20	97.20	97.30	0.00	97.20	97.20
2	13.90	0.00	-999.00	-999.00	12.40	0.00	97.10	97.50	0.00	98.10	97.00	97.20	0.00	97.00	97.00
3	13.60	0.00	-999.00	-999.00	12.50	0.00	96.80	97.10	0.00	97.90	97.30	97.10	0.00	96.80	96.80
4	13.70	0.00	-999.00	-999.00	13.90	0.00	96.40	97.10	0.00	97.80	97.10	97.10	0.00	96.70	96.70
5	13.80	0.00	-999.00	-999.00	12.70	0.00	95.90	97.10	0.00	97.60	97.10	97.00	0.00	96.70	96.70
6	13.70	0.00	-999.00	-999.00	13.90	0.00	95.80	97.00	0.00	97.30	97.10	97.00	0.00	96.90	96.90
7	13.80	0.00	-999.00	-999.00	12.40	0.00	95.60	97.00	0.00	97.20	97.20	97.00	0.00	96.90	96.90
8	14.00	0.00	-999.00	-999.00	12.00	0.00	95.50	97.70	0.00	97.00	97.10	97.00	0.00	97.10	97.10
9	15.30	0.00	-999.00	-999.00	12.00	0.00	95.40	97.40	0.00	97.00	97.20	97.20	0.00	97.10	97.10
10	15.50	0.00	-999.00	-999.00	12.00	0.00	95.40	98.20	0.00	96.80	97.30	97.20	0.00	97.10	97.10
11	13.90	0.00	-999.00	-999.00	12.10	0.00	95.50	97.60	0.00	97.10	97.10	97.50	0.00	96.90	96.90
12	14.00	0.00	-999.00	-999.00	12.00	0.00	95.50	97.60	0.00	97.60	97.50	97.50	0.00	97.10	97.10
13	13.90	0.00	-999.00	-999.00	12.00	0.00	95.60	97.80	0.00	98.20	97.60	97.70	0.00	97.20	97.20
14	14.20	0.00	-999.00	-999.00	12.00	0.00	95.50	98.40	0.00	98.50	98.00	97.80	0.00	97.30	97.30
15	14.00	0.00	-999.00	-999.00	12.00	0.00	95.60	98.40	0.00	98.80	98.20	97.90	0.00	97.50	97.50
16	14.00	0.00	-999.00	-999.00	12.20	0.00	95.70	98.60	0.00	98.90	98.40	97.90	0.00	97.70	97.70
17	15.50	0.00	-999.00	-999.00	12.00	0.00	95.70	98.40	0.00	99.10	98.80	97.90	0.00	97.80	97.80
18	14.00	0.00	-999.00	-999.00	13.50	0.00	95.70	98.30	0.00	122.80	0.00	99.00	0.00	98.10	98.10
19	14.00	0.00	-999.00	-999.00	12.10	0.00	95.70	98.10	0.00	129.00	0.00	98.80	0.00	98.20	98.20
20	14.20	0.00	-999.00	-999.00	17.90	0.00	95.80	97.80	0.00	126.80	0.00	98.30	0.00	98.40	98.40
21	14.00	0.00	-999.00	-999.00	18.00	0.00	95.70	98.00	0.00	124.90	0.00	97.90	0.00	98.00	99.00
22	16.70	0.00	-999.00	-999.00	19.80	0.00	95.50	97.70	0.00	122.80	0.00	97.80	0.00	99.40	99.40
23	15.20	0.00	-999.00	-999.00	17.80	0.00	95.60	97.30	0.00	95.40	0.00	97.60	0.00	99.70	99.70
24	14.10	0.00	-999.00	-999.00	12.10	0.00	95.50	97.10	0.00	79.30	0.00	97.50	0.00	99.80	99.80

15 OCT 2002

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

15 OCT 2002

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	LITTLE GOOSE	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.		
1	1.60	0.00	104.20	-999.00	-999.00	-999.00	15.60	0.00	96.90	97.00	13.10	0.00	-999.00	-999.00	-999.00
2	1.50	0.00	104.10	-999.00	-999.00	-999.00	14.00	0.00	96.60	96.60	13.10	0.00	-999.00	-999.00	-999.00
3	1.60	0.00	104.00	-999.00	-999.00	-999.00	15.70	0.00	96.50	97.50	13.10	0.00	-999.00	-999.00	-999.00
4	1.50	0.00	104.10	-999.00	-999.00	-999.00	15.90	0.00	96.40	96.20	13.30	0.00	-999.00	-999.00	-999.00
5	1.60	0.00	104.10	-999.00	-999.00	-999.00	14.30	0.00	96.30	96.60	13.20	0.00	-999.00	-999.00	-999.00
6	1.50	0.00	103.90	-999.00	-999.00	-999.00	13.60	0.00	96.10	96.30	14.70	0.00	-999.00	-999.00	-999.00
7	1.60	0.00	103.90	-999.00	-999.00	-999.00	13.70	0.00	96.00	95.90	14.60	0.00	-999.00	-999.00	-999.00
8	1.50	0.00	104.00	-999.00	-999.00	-999.00	13.70	0.00	95.90	95.70	13.10	0.00	-999.00	-999.00	-999.00
9	1.60	0.00	104.40	-999.00	-999.00	-999.00	13.70	0.00	95.80	95.70	13.40	0.00	-999.00	-999.00	-999.00
10	1.50	0.00	104.80	-999.00	-999.00	-999.00	13.70	0.00	95.80	95.90	13.70	0.00	-999.00	-999.00	-999.00
11	1.60	0.00	105.30	-999.00	-999.00	-999.00	18.80	0.00	96.10	95.80	15.60	0.00	-999.00	-999.00	-999.00
12	1.50	0.00	105.80	-999.00	-999.00	-999.00	17.00	0.00	96.20	97.00	15.70	0.00	-999.00	-999.00	-999.00
13	1.50	0.00	106.70	-999.00	-999.00	-999.00	17.00	0.00	96.40	96.10	16.00	0.00	-999.00	-999.00	-999.00
14	1.50	0.00	107.30	-999.00	-999.00	-999.00	16.70	0.00	96.90	96.30	15.70	0.00	-999.00	-999.00	-999.00
15	1.50	0.00	107.50	-999.00	-999.00	-999.00	15.00	0.00	97.20	96.30	14.40	0.00	-999.00	-999.00	-999.00
16	1.60	0.00	106.90	-999.00	-999.00	-999.00	16.80	0.00	97.30	96.30	14.40	0.00	-999.00	-999.00	-999.00
17	1.50	0.00	106.60	-999.00	-999.00	-999.00	16.50	0.00	97.60	96.80	14.40	0.00	-999.00	-999.00	-999.00
18	1.50	0.00	105.70	-999.00	-999.00	-999.00	14.30	0.00	97.70	97.00	14.60	0.00	-999.00	-999.00	-999.00
19	1.60	0.00	105.00	-999.00	-999.00	-999.00	14.20	0.00	97.70	96.50	14.50	0.00	-999.00	-999.00	-999.00
20	1.50	0.00	104.60	-999.00	-999.00	-999.00	14.80	0.00	97.70	96.40	14.50	0.00	-999.00	-999.00	-999.00
21	1.50	0.00	104.40	-999.00	-999.00	-999.00	18.30	0.00	97.30	96.50	18.50	0.00	-999.00	-999.00	-999.00
22	1.50	0.00	104.60	-999.00	-999.00	-999.00	14.10	0.00	97.10	97.10	17.50	0.00	-999.00	-999.00	-999.00
23	1.50	0.00	104.80	-999.00	-999.00	-999.00	14.00	0.00	96.80	96.30	13.00	0.00	-999.00	-999.00	-999.00
24	1.60	0.00	104.60	-999.00	-999.00	-999.00	14.00	0.00	96.70	96.20	12.80	0.00	-999.00	-999.00	-999.00

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	PASCO	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	GAS %SAT	
1	14.50	0.00	-999.00	-999.00	11.80	0.00	95.30	97.10	97.40	98.40	97.60	0.00	-999.00	-999.00	99.80
2	15.30	0.00	-999.00	-999.00	11.80	0.00	95.20	97.50	97.30	98.10	97.50	0.00	-999.00	-999.00	99.70
3	13.90	0.00	-999.00	-999.00	12.00	0.00	95.30	96.80	97.30	97.90	97.60	0.00	-999.00	-999.00	99.60
4	13.90	0.00	-999.00	-999.00	13.30	0.00	95.30	96.90	97.10	98.10	97.60	0.00	-999.00	-999.00	99.30
5	13.90	0.00	-999.00	-999.00	11.90	0.00	95.50	97.00	97.10	98.00	97.60	0.00	-999.00	-999.00	98.90
6	13.70	0.00	-999.00	-999.00	11.90	0.00	95.40	96.90	97.10	97.90	97.70	0.00	-999.00	-999.00	98.80
7	15.40	0.00	-999.00	-999.00	11.80	0.00	95.40	96.90	96.90	98.00	97.50	0.00	-999.00	-999.00	98.50
8	13.70	0.00	-999.00	-999.00	11.90	0.00	95.30	97.10	96.90	98.10	97.40	0.00	-999.00	-999.00	98.30
9	13.70	0.00	-999.00	-999.00	13.50	0.00	95.20	97.60	97.00	98.10	97.50	0.00	-999.00	-999.00	98.30
10	13.70	0.00	-999.00	-999.00	11.90	0.00	95.40	97.60	97.20	98.10	97.70	0.00	-999.00	-999.00	98.30
11	13.70	0.00	-999.00	-999.00	13.30	0.00	95.70	97.40	97.30	98.20	97.80	0.00	-999.00	-999.00	98.40
12	15.20	0.00	-999.00	-999.00	11.70	0.00	95.90	97.70	97.80	98.00	98.00	0.00	-999.00	-999.00	98.40
13	13.90	0.00	-999.00	-999.00	11.70	0.00	95.80	98.40	98.80	99.50	98.20	0.00	-999.00	-999.00	98.50
14	15.40	0.00	-999.00	-999.00	12.50	0.00	95.80	98.70	100.70	99.10	98.30	0.00	-999.00	-999.00	98.60
15	13.90	0.00	-999.00	-999.00	12.80	0.00	95.70	99.20	101.30	99.60	98.30	0.00	-999.00	-999.00	98.70
16	15.50	0.00	-999.00	-999.00	14.20	0.00	95.90	99.30	101.50	99.80	98.20	0.00	-999.00	-999.00	98.70
17	13.90	0.00	-999.00	-999.00	12.70	0.10	95.90	98.70	102.10	100.10	98.10	0.00	-999.00	-999.00	99.00
18	15.60	0.00	-999.00	-999.00	14.10	0.00	95.80	98.40	116.40	99.80	98.00	0.00	-999.00	-999.00	99.30
19	13.90	0.00	-999.00	-999.00	12.60	0.10	95.80	98.00	118.90	99.70	98.10	0.00	-999.00	-999.00	99.30
20	14.00	0.00	-999.00	-999.00	13.00	0.00	95.80	98.00	119.40	99.60	98.00	0.00	-999.00	-999.00	99.30
21	17.10	0.00	-999.00	-999.00	18.10	0.00	95.70	98.00	118.00	99.30	98.50	0.00	-999.00	-999.00	99.20
22	17.20	0.00	-999.00	-999.00	18.90	0.00	95.60	98.10	86.70	98.90	97.60	0.00	-999.00	-999.00	99.20
23	17.40	0.00	-999.00	-999.00	18.70	0.00	95.80	97.60	70.20	98.40	99.10	0.00	-999.00	-999.00	99.10
24	15.50	0.00	-999.00	-999.00	18.40	0.00	95.80	97.40	67.90	97.90	98.80	0.00	-999.00	-999.00	99.00

16 OCT 2002

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

16 OCT 2002

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	LOWER GRANITE	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.		
1	1.50	0.00	104.30	-999.00	-999.00	-999.00	14.00	0.00	96.50	96.20	12.50	0.00	-999.00	-999.00	
2	1.50	0.00	104.20	-999.00	-999.00	-999.00	14.00	0.00	96.60	95.80	14.00	0.00	-999.00	-999.00	
3	1.60	0.00	104.30	-999.00	-999.00	-999.00	14.20	0.00	96.70	95.90	12.70	0.00	-999.00	-999.00	
4	1.50	0.00	104.30	-999.00	-999.00	-999.00	15.70	0.00	96.80	97.40	12.50	0.00	-999.00	-999.00	
5	1.50	0.00	104.40	-999.00	-999.00	-999.00	14.20	0.00	96.60	96.80	12.50	0.00	-999.00	-999.00	
6	1.60	0.00	104.40	-999.00	-999.00	-999.00	13.70	0.00	96.30	96.00	12.50	0.00	-999.00	-999.00	
7	1.50	0.00	104.30	-999.00	-999.00	-999.00	13.70	0.00	96.20	95.80	14.40	0.00	-999.00	-999.00	
8	1.60	0.00	104.40	-999.00	-999.00	-999.00	13.90	0.00	96.00	95.80	12.60	0.00	-999.00	-999.00	
9	1.50	0.00	104.80	-999.00	-999.00	-999.00	17.10	0.00	95.90	96.70	14.10	0.00	-999.00	-999.00	
10	1.50	0.00	105.10	-999.00	-999.00	-999.00	13.70	0.00	96.00	96.70	12.70	0.00	-999.00	-999.00	
11	1.60	0.00	105.40	-999.00	-999.00	-999.00	13.70	0.00	96.00	96.00	12.80	0.00	-999.00	-999.00	
12	1.50	0.00	106.00	-999.00	-999.00	-999.00	17.00	0.00	96.40	96.60	17.70	0.00	-999.00	-999.00	
13	1.60	0.00	106.60	-999.00	-999.00	-999.00	17.90	0.00	96.90	96.70	17.70	0.00	-999.00	-999.00	
14	1.50	0.00	107.10	-999.00	-999.00	-999.00	17.70	0.00	97.40	96.40	17.70	0.00	-999.00	-999.00	
15	1.60	0.00	107.40	-999.00	-999.00	-999.00	17.70	0.00	97.50	96.50	17.70	0.00	-999.00	-999.00	
16	1.50	0.00	107.20	-999.00	-999.00	-999.00	17.30	0.00	97.80	96.40	18.00	0.00	-999.00	-999.00	
17	1.60	0.00	106.80	-999.00	-999.00	-999.00	15.50	0.00	98.10	97.80	17.70	0.00	-999.00	-999.00	
18	1.50	0.00	105.90	-999.00	-999.00	-999.00	15.70	0.00	98.10	96.60	17.60	0.00	-999.00	-999.00	
19	1.50	0.00	105.20	-999.00	-999.00	-999.00	15.30	0.00	98.10	96.60	17.60	0.00	-999.00	-999.00	
20	1.60	0.00	105.00	-999.00	-999.00	-999.00	15.60	0.00	98.10	96.40	17.50	0.00	-999.00	-999.00	
21	1.50	0.00	104.80	-999.00	-999.00	-999.00	15.80	0.00	98.10	96.80	19.40	0.00	-999.00	-999.00	
22	1.60	0.00	104.70	-999.00	-999.00	-999.00	14.20	0.00	98.00	96.70	14.50	0.00	-999.00	-999.00	
23	1.50	0.00	104.80	-999.00	-999.00	-999.00	14.30	0.00	98.00	96.50	14.40	0.00	-999.00	-999.00	
24	1.50	0.00	104.70	-999.00	-999.00	-999.00	14.30	0.00	97.80	96.40	14.40	0.00	-999.00	-999.00	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB	WA TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB	GAS % SAT	
1	13.60	0.00	-999.00	-999.00	10.10	0.00	95.70	97.00	0.00	97.70	98.60	97.70	0.00	99.00	
2	13.70	0.00	-999.00	-999.00	9.60	0.00	95.70	96.80	0.00	97.50	98.40	97.90	0.00	98.80	
3	13.70	0.00	-999.00	-999.00	11.00	0.10	95.70	96.70	0.00	97.40	98.20	97.60	0.00	99.00	
4	13.90	0.00	-999.00	-999.00	9.40	0.00	95.60	96.60	0.00	97.20	97.90	97.40	0.00	98.90	
5	13.70	0.00	-999.00	-999.00	12.30	0.00	95.50	96.60	0.00	97.20	97.60	97.40	0.00	98.90	
6	13.80	0.00	-999.00	-999.00	12.50	0.00	95.50	96.80	0.00	97.10	97.60	97.90	0.00	98.90	
7	13.70	0.00	-999.00	-999.00	12.50	0.00	95.40	97.30	0.00	97.10	97.60	97.80	0.00	98.60	
8	15.20	0.00	-999.00	-999.00	12.70	0.00	95.30	97.80	0.00	97.00	97.60	97.60	0.00	98.20	
9	13.70	0.00	-999.00	-999.00	12.70	0.00	95.30	97.30	0.00	96.90	97.40	97.70	0.00	97.90	
10	14.00	0.00	-999.00	-999.00	17.90	0.00	95.30	97.50	0.00	96.90	97.40	97.90	0.00	97.80	
11	13.70	0.00	-999.00	-999.00	17.90	0.00	95.40	97.30	0.00	97.30	97.30	98.00	0.00	97.80	
12	13.70	0.00	-999.00	-999.00	17.90	0.00	95.50	97.70	0.00	97.90	97.50	98.20	0.00	97.70	
13	13.70	0.00	-999.00	-999.00	19.70	0.00	95.50	97.90	0.00	98.70	97.60	98.20	0.00	97.90	
14	16.80	0.00	-999.00	-999.00	19.40	0.00	95.60	98.10	0.00	98.60	97.70	98.30	0.00	98.30	
15	15.70	0.00	-999.00	-999.00	18.10	0.00	95.70	98.40	0.00	99.30	97.80	98.40	0.00	98.60	
16	17.00	0.00	-999.00	-999.00	18.10	0.00	95.60	98.00	0.00	99.60	98.00	98.40	0.00	99.00	
17	17.20	0.00	-999.00	-999.00	18.00	0.00	95.80	98.50	0.00	100.10	98.30	98.40	0.00	99.30	
18	17.30	0.00	-999.00	-999.00	18.30	0.00	95.70	98.20	0.00	99.50	99.90	98.30	0.00	99.50	
19	17.30	0.00	-999.00	-999.00	19.50	0.00	95.90	97.70	0.00	100.10	0.00	99.40	0.00	98.30	
20	19.00	0.00	-999.00	-999.00	18.00	0.00	95.90	97.50	0.00	98.70	99.60	98.30	0.00	99.80	
21	17.00	0.00	-999.00	-999.00	18.10	0.00	96.00	97.20	0.00	96.60	0.00	98.30	0.00	99.80	
22	13.60	0.00	-999.00	-999.00	18.10	0.00	95.90	97.40	0.00	78.90	0.00	98.10	0.00	99.80	
23	13.50	0.00	-999.00	-999.00	19.50	0.00	95.90	97.50	0.00	72.10	0.00	97.90	0.00	99.80	
24	13.50	0.00	-999.00	-999.00	10.30	0.00	95.90	97.10	0.00	63.60	0.00	97.80	0.00	99.80	

17 OCT 2002

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

17 OCT 2002

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	LOWER GRANITE	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.		
1	1.60	0.00	104.70	-999.00	-999.00	-999.00	13.90	0.00	97.60	96.30	13.00	0.00	-999.00	-999.00	
2	1.50	0.00	104.70	-999.00	-999.00	-999.00	14.00	0.00	97.40	96.30	13.20	0.00	-999.00	-999.00	
3	1.60	0.00	104.70	-999.00	-999.00	-999.00	14.00	0.00	97.10	96.20	13.00	0.00	-999.00	-999.00	
4	1.50	0.00	104.80	-999.00	-999.00	-999.00	14.00	0.00	97.00	96.30	13.00	0.00	-999.00	-999.00	
5	1.50	0.00	104.60	-999.00	-999.00	-999.00	15.30	0.00	96.90	96.30	13.00	0.00	-999.00	-999.00	
6	1.60	0.00	104.70	-999.00	-999.00	-999.00	16.10	0.00	96.80	96.30	14.70	0.00	-999.00	-999.00	
7	1.50	0.00	104.70	-999.00	-999.00	-999.00	16.80	0.00	96.70	96.20	14.20	0.00	-999.00	-999.00	
8	1.60	0.00	104.60	-999.00	-999.00	-999.00	16.60	0.00	96.50	96.50	15.90	0.00	-999.00	-999.00	
9	1.50	0.00	105.10	-999.00	-999.00	-999.00	16.30	0.00	96.50	96.40	15.90	0.00	-999.00	-999.00	
10	1.50	0.00	105.40	-999.00	-999.00	-999.00	16.20	0.00	96.70	96.60	15.90	0.00	-999.00	-999.00	
11	1.60	0.00	105.40	-999.00	-999.00	-999.00	16.30	0.00	96.90	96.50	16.20	0.00	-999.00	-999.00	
12	1.50	0.00	105.90	-999.00	-999.00	-999.00	16.30	0.00	97.00	96.70	15.90	0.00	-999.00	-999.00	
13	1.80	0.00	106.60	-999.00	-999.00	-999.00	16.50	0.00	97.10	96.80	15.90	0.00	-999.00	-999.00	
14	1.60	0.00	107.30	-999.00	-999.00	-999.00	16.70	0.00	97.50	96.90	15.90	0.00	-999.00	-999.00	
15	1.50	0.00	107.60	-999.00	-999.00	-999.00	16.90	0.00	97.70	97.00	15.90	0.00	-999.00	-999.00	
16	1.60	0.00	107.40	-999.00	-999.00	-999.00	16.30	0.00	97.80	97.00	16.20	0.00	-999.00	-999.00	
17	1.50	0.00	106.90	-999.00	-999.00	-999.00	18.00	0.00	97.90	97.90	15.90	0.00	-999.00	-999.00	
18	1.60	0.00	106.20	-999.00	-999.00	-999.00	16.00	0.00	98.00	97.30	17.40	0.00	-999.00	-999.00	
19	1.50	0.00	105.60	-999.00	-999.00	-999.00	16.20	0.00	98.00	97.20	17.90	0.00	-999.00	-999.00	
20	1.50	0.00	105.30	-999.00	-999.00	-999.00	16.90	0.00	97.80	97.10	16.80	0.00	-999.00	-999.00	
21	1.60	0.00	105.00	-999.00	-999.00	-999.00	15.70	0.00	97.80	97.30	14.50	0.00	-999.00	-999.00	
22	1.50	0.00	104.40	-999.00	-999.00	-999.00	14.50	0.00	97.80	97.30	14.40	0.00	-999.00	-999.00	
23	1.60	0.00	104.60	-999.00	-999.00	-999.00	14.50	0.00	97.60	97.10	14.50	0.00	-999.00	-999.00	
24	1.50	0.00	104.10	-999.00	-999.00	-999.00	14.10	0.00	97.40	96.90	15.20	0.00	-999.00	-999.00	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB	WA TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB	GAS %SAT	
1	13.70	0.00	-999.00	-999.00	9.60	0.00	95.70	97.00	0.00	97.60	99.10	98.10	0.00	99.80	
2	13.70	0.00	-999.00	-999.00	9.50	0.00	95.70	97.00	0.00	97.70	99.00	98.10	0.00	99.60	
3	13.70	0.00	-999.00	-999.00	9.80	0.00	95.70	96.90	0.00	97.70	98.80	98.10	0.00	99.60	
4	15.20	0.00	-999.00	-999.00	10.00	0.00	95.60	97.60	0.00	97.80	98.60	98.10	0.00	99.70	
5	13.70	0.00	-999.00	-999.00	10.50	0.00	95.60	97.50	0.00	97.70	98.60	98.10	0.00	99.70	
6	14.00	0.00	-999.00	-999.00	10.50	0.00	95.50	97.30	0.00	97.60	98.60	98.10	0.00	99.60	
7	13.80	0.00	-999.00	-999.00	11.90	0.00	95.50	97.40	0.00	97.60	98.50	98.00	0.00	99.40	
8	17.60	0.00	-999.00	-999.00	13.10	0.00	95.50	97.70	0.00	97.40	98.50	98.10	0.00	99.20	
9	17.90	0.00	-999.00	-999.00	20.00	0.00	95.50	97.70	0.00	97.40	98.50	98.10	0.00	99.00	
10	17.90	0.00	-999.00	-999.00	21.20	0.00	95.60	98.20	0.00	97.60	98.50	98.60	0.00	98.70	
11	18.20	0.00	-999.00	-999.00	20.90	0.00	95.90	98.20	0.00	98.00	98.60	98.90	0.00	98.50	
12	19.40	0.00	-999.00	-999.00	22.80	0.00	96.10	98.40	0.00	98.60	98.80	99.00	0.00	98.60	
13	17.80	0.00	-999.00	-999.00	21.30	0.00	96.00	98.30	0.00	99.30	98.90	99.20	0.00	98.70	
14	17.90	0.00	-999.00	-999.00	21.30	0.00	95.90	98.80	1.00	100.40	99.00	99.20	0.00	98.90	
15	17.80	0.00	-999.00	-999.00	21.20	0.00	96.00	99.10	1.00	100.70	99.10	99.20	0.00	99.30	
16	17.50	0.00	-999.00	-999.00	18.80	0.00	96.10	98.40	1.00	101.40	99.10	99.20	0.00	99.70	
17	17.50	0.00	-999.00	-999.00	18.80	0.00	95.90	98.20	1.00	101.70	99.20	99.10	0.00	99.90	
18	17.70	0.00	-999.00	-999.00	18.70	0.00	96.00	98.10	1.00	101.60	99.20	99.10	0.00	100.10	
19	17.40	0.00	-999.00	-999.00	18.00	0.00	95.80	97.90	1.00	101.40	99.20	99.00	0.00	100.20	
20	17.30	0.00	-999.00	-999.00	17.90	0.00	95.80	97.60	0.50	101.30	99.10	98.90	0.00	100.20	
21	13.90	0.00	-999.00	-999.00	12.50	0.00	95.90	97.50	0.00	101.20	99.10	98.80	0.00	100.10	
22	14.90	0.00	-999.00	-999.00	10.90	0.00	95.90	97.30	0.00	101.10	98.90	98.70	0.00	100.10	
23	13.70	0.00	-999.00	-999.00	10.10	0.00	96.00	97.10	0.00	99.30	98.90	98.60	0.00	100.00	
24	13.50	0.00	-999.00	-999.00	9.60	0.00	96.40	97.10	0.00	98.80	98.90	98.50	0.00	99.90	

18 OCT 2002

WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT

18 OCT 2002

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. TAI LW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAI LW.	LOWER GRANITE	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAI LW.		
1	1.50	0.00	104.40	-999.00	-999.00	-999.00	14.10	0.00	97.30	96.90	13.80	0.00	-999.00	-999.00	
2	1.60	0.00	104.30	-999.00	-999.00	-999.00	14.30	0.00	97.30	96.80	13.30	0.00	-999.00	-999.00	
3	1.50	0.00	104.20	-999.00	-999.00	-999.00	14.10	0.00	97.10	96.80	12.90	0.00	-999.00	-999.00	
4	1.60	0.00	104.10	-999.00	-999.00	-999.00	14.20	0.00	97.10	96.70	13.50	0.00	-999.00	-999.00	
5	1.50	0.00	104.20	-999.00	-999.00	-999.00	14.10	0.00	97.00	97.20	14.70	0.00	-999.00	-999.00	
6	1.50	0.00	104.40	-999.00	-999.00	-999.00	15.40	0.00	96.90	96.70	15.50	0.00	-999.00	-999.00	
7	1.60	0.90	104.50	-999.00	-999.00	-999.00	15.90	0.00	96.80	96.60	16.30	0.00	-999.00	-999.00	
8	1.20	0.80	104.70	-999.00	-999.00	-999.00	15.60	0.00	96.80	96.50	16.40	0.00	-999.00	-999.00	
9	1.50	0.00	111.30	-999.00	-999.00	-999.00	15.50	0.00	96.70	96.40	16.40	0.00	-999.00	-999.00	
10	1.60	0.00	109.40	-999.00	-999.00	-999.00	15.50	0.00	96.70	96.30	16.70	0.00	-999.00	-999.00	
11	1.50	0.00	105.20	-999.00	-999.00	-999.00	15.50	0.00	96.80	96.50	16.40	0.00	-999.00	-999.00	
12	1.60	0.00	104.40	-999.00	-999.00	-999.00	15.50	0.00	97.00	96.50	16.40	0.00	-999.00	-999.00	
13	1.50	0.00	104.10	-999.00	-999.00	-999.00	15.80	0.00	97.20	96.70	16.40	0.00	-999.00	-999.00	
14	1.60	0.00	104.70	-999.00	-999.00	-999.00	15.50	0.00	97.40	96.70	16.60	0.00	-999.00	-999.00	
15	1.50	0.00	105.20	-999.00	-999.00	-999.00	15.50	0.00	97.50	96.80	16.40	0.00	-999.00	-999.00	
16	1.60	0.00	105.10	-999.00	-999.00	-999.00	15.50	0.00	97.60	96.80	16.60	0.00	-999.00	-999.00	
17	1.50	0.00	104.80	-999.00	-999.00	-999.00	15.50	0.00	97.70	96.80	16.40	0.00	-999.00	-999.00	
18	1.50	0.00	104.20	-999.00	-999.00	-999.00	15.60	0.00	97.70	96.80	16.60	0.00	-999.00	-999.00	
19	1.60	0.00	103.50	-999.00	-999.00	-999.00	16.30	0.00	97.80	96.70	16.30	0.00	-999.00	-999.00	
20	1.50	0.00	103.00	-999.00	-999.00	-999.00	16.80	0.00	97.60	96.60	16.40	0.00	-999.00	-999.00	
21	1.60	0.00	102.40	-999.00	-999.00	-999.00	16.50	0.00	97.60	96.80	16.30	0.00	-999.00	-999.00	
22	1.50	0.00	102.80	-999.00	-999.00	-999.00	17.10	0.00	97.50	96.80	19.50	0.00	-999.00	-999.00	
23	1.60	0.00	102.10	-999.00	-999.00	-999.00	17.30	0.00	97.50	96.60	17.60	0.00	-999.00	-999.00	
24	1.50	0.00	102.40	-999.00	-999.00	-999.00	14.20	0.00	97.40	96.40	12.90	0.00	-999.00	-999.00	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAI LW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAI LW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB	MCNARY	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAI LW.	PASCO	
1	13.80	0.00	-999.00	-999.00	9.50	0.00	96.30	97.00	0.00	98.60	99.10	98.40	0.00	99.90	
2	13.70	0.00	-999.00	-999.00	9.40	0.00	96.30	97.20	0.00	98.50	99.50	98.50	0.00	99.90	
3	13.70	0.00	-999.00	-999.00	9.60	0.00	96.20	97.20	0.00	98.30	99.80	98.30	0.00	99.90	
4	13.90	0.00	-999.00	-999.00	9.40	0.00	95.90	97.30	0.00	98.20	99.70	98.50	0.00	99.80	
5	15.30	0.00	-999.00	-999.00	9.50	0.00	95.70	97.40	0.00	98.10	99.40	98.40	0.00	99.60	
6	13.80	0.00	-999.00	-999.00	11.70	0.00	95.40	97.50	0.00	98.10	99.30	98.50	0.00	99.50	
7	15.90	0.00	-999.00	-999.00	11.80	0.00	95.30	97.40	0.00	97.90	99.10	98.60	0.00	99.20	
8	16.00	0.00	-999.00	-999.00	13.30	0.00	95.20	97.60	0.00	97.70	99.00	98.40	0.00	98.80	
9	16.10	0.00	-999.00	-999.00	14.30	0.00	95.10	97.60	0.00	97.50	98.90	98.40	0.00	98.30	
10	16.30	0.00	-999.00	-999.00	14.10	0.00	95.20	97.90	0.00	97.60	98.90	98.50	0.00	98.20	
11	16.10	0.00	-999.00	-999.00	14.50	0.00	95.30	97.60	0.00	98.10	99.20	98.80	0.00	98.20	
12	16.10	0.00	-999.00	-999.00	19.30	0.00	95.60	98.30	0.00	98.90	99.20	98.80	0.00	98.20	
13	16.00	0.00	-999.00	-999.00	17.90	0.00	95.70	99.00	0.00	99.60	99.20	99.10	0.00	98.40	
14	15.90	0.00	-999.00	-999.00	18.20	0.00	95.60	99.30	0.00	99.90	99.50	99.30	0.00	98.70	
15	16.20	0.00	-999.00	-999.00	19.40	0.00	95.50	100.00	0.00	100.20	99.40	99.30	0.00	99.10	
16	15.90	0.00	-999.00	-999.00	17.80	0.00	95.30	98.70	0.00	100.10	99.40	99.20	0.00	99.30	
17	17.40	0.00	-999.00	-999.00	19.30	0.00	95.20	98.20	0.00	100.00	100.30	99.20	0.00	99.50	
18	15.90	0.00	-999.00	-999.00	19.30	0.00	95.20	98.00	0.00	99.90	100.90	99.20	0.00	99.50	
19	16.70	0.00	-999.00	-999.00	18.10	0.00	95.10	97.90	0.00	99.60	100.80	99.10	0.00	99.50	
20	18.50	0.00	-999.00	-999.00	17.80	0.00	95.20	97.60	0.00	99.50	100.80	98.90	0.00	99.30	
21	16.70	0.00	-999.00	-999.00	17.80	0.00	95.20	97.70	0.00	99.30	100.80	98.70	0.00	99.30	
22	17.40	0.00	-999.00	-999.00	17.80	0.00	95.30	97.40	0.00	99.10	100.60	98.70	0.00	99.10	
23	18.70	0.00	-999.00	-999.00	19.30	0.00	95.70	96.90	0.00	98.90	100.60	98.60	0.00	99.10	
24	13.60	0.00	-999.00	-999.00	10.90	0.00	95.80	96.80	0.00	99.20	100.40	98.60	0.00	99.00	

19 OCT 2002

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

19 OCT 2002

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	LOWER GRANITE	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.		
1	1.50	0.00	102.50	-999.00	-999.00	-999.00	14.00	0.00	97.30	96.40	12.80	0.00	-999.00	-999.00	
2	1.60	0.00	102.50	-999.00	-999.00	-999.00	15.70	0.00	97.00	97.30	12.70	0.00	-999.00	-999.00	
3	1.50	0.00	102.40	-999.00	-999.00	-999.00	15.70	0.00	96.90	98.00	13.00	0.00	-999.00	-999.00	
4	1.50	0.00	102.40	-999.00	-999.00	-999.00	14.10	0.00	96.90	97.10	12.80	0.00	-999.00	-999.00	
5	1.60	0.00	102.40	-999.00	-999.00	-999.00	14.20	0.00	96.70	96.90	12.80	0.00	-999.00	-999.00	
6	1.50	0.00	102.20	-999.00	-999.00	-999.00	13.80	0.00	96.60	96.50	12.80	0.00	-999.00	-999.00	
7	1.60	0.00	102.10	-999.00	-999.00	-999.00	15.40	0.00	96.50	96.40	15.30	0.00	-999.00	-999.00	
8	1.50	0.00	102.30	-999.00	-999.00	-999.00	15.40	0.00	96.50	96.40	15.90	0.00	-999.00	-999.00	
9	1.50	0.00	102.70	-999.00	-999.00	-999.00	14.20	0.00	96.50	96.30	14.30	0.00	-999.00	-999.00	
10	1.60	0.00	103.20	-999.00	-999.00	-999.00	14.40	0.00	96.30	96.20	14.20	0.00	-999.00	-999.00	
11	1.50	0.00	103.50	-999.00	-999.00	-999.00	14.00	0.00	96.30	96.30	14.20	0.00	-999.00	-999.00	
12	1.60	0.00	104.10	-999.00	-999.00	-999.00	14.00	0.00	96.50	96.30	14.50	0.00	-999.00	-999.00	
13	1.50	0.00	104.30	-999.00	-999.00	-999.00	14.00	0.00	96.80	96.40	15.70	0.00	-999.00	-999.00	
14	1.60	0.00	104.80	-999.00	-999.00	-999.00	14.00	0.00	97.00	96.50	14.20	0.00	-999.00	-999.00	
15	1.70	0.00	104.90	-999.00	-999.00	-999.00	14.20	0.00	97.10	96.60	14.20	0.00	-999.00	-999.00	
16	1.50	0.00	106.70	-999.00	-999.00	-999.00	14.00	0.00	97.30	96.40	14.20	0.00	-999.00	-999.00	
17	1.60	0.00	106.70	-999.00	-999.00	-999.00	14.00	0.00	97.30	96.50	14.50	0.00	-999.00	-999.00	
18	1.50	0.00	104.60	-999.00	-999.00	-999.00	15.80	0.00	97.20	96.60	14.20	0.00	-999.00	-999.00	
19	1.50	0.00	103.20	-999.00	-999.00	-999.00	14.20	0.00	97.30	97.30	14.30	0.00	-999.00	-999.00	
20	1.60	0.00	102.70	-999.00	-999.00	-999.00	14.40	0.00	97.20	96.40	14.30	0.00	-999.00	-999.00	
21	1.50	0.00	102.20	-999.00	-999.00	-999.00	16.30	0.00	97.10	97.50	14.50	0.00	-999.00	-999.00	
22	1.50	0.00	102.20	-999.00	-999.00	-999.00	14.30	0.00	97.10	97.20	14.30	0.00	-999.00	-999.00	
23	1.60	0.00	102.10	-999.00	-999.00	-999.00	14.10	0.00	97.10	97.00	14.20	0.00	-999.00	-999.00	
24	1.50	0.00	102.20	-999.00	-999.00	-999.00	14.20	0.00	97.10	96.30	14.80	0.00	-999.00	-999.00	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB	WA TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB	GAS % SAT	
1	13.40	0.00	-999.00	-999.00	9.30	0.00	95.80	96.70	0.00	99.20	100.10	98.60	0.00	98.90	
2	13.60	0.00	-999.00	-999.00	9.20	0.00	95.60	96.70	0.00	99.00	100.30	98.60	0.00	98.90	
3	13.40	0.00	-999.00	-999.00	9.20	0.00	95.50	96.50	0.00	98.90	100.10	98.70	0.00	98.90	
4	13.40	0.00	-999.00	-999.00	9.20	0.00	95.50	97.00	0.00	98.90	100.10	98.70	0.00	98.80	
5	13.50	0.00	-999.00	-999.00	9.20	0.00	95.30	97.30	0.00	98.80	100.00	98.80	0.00	98.70	
6	16.10	0.00	-999.00	-999.00	10.80	0.00	95.30	97.10	0.00	98.70	100.00	98.80	0.00	98.70	
7	16.50	0.00	-999.00	-999.00	11.90	0.00	95.10	97.20	0.00	98.70	100.00	98.80	0.00	98.70	
8	16.30	0.00	-999.00	-999.00	11.80	0.00	95.10	97.30	0.00	98.60	99.90	99.00	0.00	98.50	
9	16.00	0.00	-999.00	-999.00	13.60	0.00	94.90	97.50	0.00	98.60	99.90	99.10	0.00	98.50	
10	14.10	0.00	-999.00	-999.00	12.20	0.00	95.00	97.90	0.00	98.60	99.90	99.20	0.00	98.30	
11	14.10	0.00	-999.00	-999.00	12.40	0.00	95.00	97.60	0.00	98.90	99.80	99.30	0.00	98.20	
12	14.40	0.00	-999.00	-999.00	13.70	0.00	95.10	97.90	0.00	99.60	100.30	99.70	0.00	98.20	
13	14.10	0.00	-999.00	-999.00	12.20	0.00	95.20	98.60	0.00	100.10	100.30	99.90	0.00	98.30	
14	14.10	0.00	-999.00	-999.00	12.10	0.00	95.30	98.50	0.00	100.50	100.30	99.90	0.00	98.50	
15	14.10	0.00	-999.00	-999.00	12.10	0.00	95.20	98.70	0.00	100.80	100.30	100.10	0.00	99.00	
16	14.20	0.00	-999.00	-999.00	13.90	0.00	95.30	99.00	0.00	101.00	100.30	100.10	0.00	99.20	
17	14.40	0.00	-999.00	-999.00	12.20	0.00	95.20	98.80	0.00	101.40	100.10	99.90	0.00	99.60	
18	14.20	0.00	-999.00	-999.00	13.20	0.00	95.10	98.20	0.00	101.40	100.40	99.60	0.00	99.70	
19	15.70	0.00	-999.00	-999.00	18.30	0.00	94.90	98.10	0.00	104.60	100.30	99.50	0.00	99.50	
20	14.20	0.00	-999.00	-999.00	22.40	0.00	95.00	98.00	0.00	104.80	100.40	99.40	0.00	99.40	
21	14.20	0.00	-999.00	-999.00	19.80	0.00	95.50	97.70	0.00	105.50	100.20	100.30	0.00	99.20	
22	14.20	0.00	-999.00	-999.00	18.30	0.00	95.50	97.20	0.00	106.10	100.00	99.50	0.00	99.10	
23	14.20	0.00	-999.00	-999.00	18.30	0.00	95.70	97.00	0.00	106.40	99.80	99.80	0.00	99.10	
24	13.90	0.00	-999.00	-999.00	19.70	0.00	96.10	97.30	0.00	109.60	99.90	99.10	0.00	98.90	

20 OCT 2002

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

20 OCT 2002

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	LOWER GRANITE	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.		
1	1.60	0.00	102.40	-999.00	-999.00	-999.00	14.40	0.00	97.00	96.30	12.70	0.00	-999.00	-999.00	
2	1.50	0.00	102.10	-999.00	-999.00	-999.00	14.10	0.00	96.90	96.30	12.80	0.00	-999.00	-999.00	
3	1.50	0.00	102.10	-999.00	-999.00	-999.00	14.20	0.00	96.80	96.00	14.60	0.00	-999.00	-999.00	
4	1.60	0.00	102.10	-999.00	-999.00	-999.00	14.30	0.00	96.80	95.90	12.90	0.00	-999.00	-999.00	
5	1.50	0.00	102.00	-999.00	-999.00	-999.00	14.60	0.00	96.60	96.20	12.90	0.00	-999.00	-999.00	
6	1.50	0.00	101.90	-999.00	-999.00	-999.00	14.50	0.00	96.60	95.80	12.90	0.00	-999.00	-999.00	
7	1.60	0.00	102.00	-999.00	-999.00	-999.00	13.80	0.00	96.50	95.80	13.10	0.00	-999.00	-999.00	
8	1.50	0.00	102.20	-999.00	-999.00	-999.00	13.00	0.00	96.40	95.90	13.10	0.00	-999.00	-999.00	
9	1.60	0.00	102.60	-999.00	-999.00	-999.00	19.60	0.00	96.40	95.70	19.70	0.00	-999.00	-999.00	
10	1.50	0.00	103.20	-999.00	-999.00	-999.00	17.70	0.00	96.30	95.70	17.80	0.00	-999.00	-999.00	
11	1.60	0.00	103.80	-999.00	-999.00	-999.00	13.60	0.00	96.40	95.90	14.10	0.00	-999.00	-999.00	
12	1.50	0.00	104.20	-999.00	-999.00	-999.00	13.70	0.00	96.60	95.90	14.40	0.00	-999.00	-999.00	
13	1.60	0.00	104.40	-999.00	-999.00	-999.00	13.40	0.00	96.60	95.80	14.00	0.00	-999.00	-999.00	
14	1.50	0.00	104.70	-999.00	-999.00	-999.00	13.40	0.00	96.90	95.90	14.00	0.00	-999.00	-999.00	
15	1.50	0.00	104.90	-999.00	-999.00	-999.00	13.40	0.00	96.90	96.10	15.50	0.00	-999.00	-999.00	
16	1.60	0.00	105.00	-999.00	-999.00	-999.00	13.40	0.00	97.10	95.90	14.10	0.00	-999.00	-999.00	
17	1.50	0.00	104.50	-999.00	-999.00	-999.00	13.60	0.00	97.10	95.90	14.30	0.00	-999.00	-999.00	
18	1.60	0.00	103.70	-999.00	-999.00	-999.00	14.30	0.00	97.10	95.90	14.40	0.00	-999.00	-999.00	
19	1.50	0.00	103.00	-999.00	-999.00	-999.00	25.30	0.00	97.40	96.20	25.00	0.00	-999.00	-999.00	
20	1.60	0.00	104.20	-999.00	-999.00	-999.00	27.40	0.00	97.60	95.90	27.50	0.00	-999.00	-999.00	
21	1.50	0.00	104.50	-999.00	-999.00	-999.00	26.30	0.00	97.20	96.10	26.20	0.00	-999.00	-999.00	
22	1.50	0.00	104.10	-999.00	-999.00	-999.00	18.70	0.00	96.90	96.40	22.10	0.00	-999.00	-999.00	
23	1.60	0.00	103.70	-999.00	-999.00	-999.00	16.90	0.00	96.80	95.90	16.60	0.00	-999.00	-999.00	
24	1.50	0.00	103.50	-999.00	-999.00	-999.00	18.00	0.00	96.70	96.30	14.00	0.00	-999.00	-999.00	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB	WA TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB	GAS %SAT	
1	13.60	0.00	-999.00	-999.00	20.00	0.00	96.20	96.90	0.00	99.70	100.00	99.00	0.00	98.80	
2	13.60	0.00	-999.00	-999.00	20.00	0.00	96.20	96.80	0.00	99.70	100.20	98.80	0.00	98.80	
3	15.20	0.00	-999.00	-999.00	11.60	0.00	96.00	96.90	0.00	99.70	100.20	98.80	0.00	98.60	
4	13.70	0.00	-999.00	-999.00	9.30	0.00	96.00	97.40	0.00	99.50	100.20	98.80	0.00	98.50	
5	14.00	0.00	-999.00	-999.00	9.20	0.00	96.00	97.10	0.00	99.40	100.10	98.90	0.00	98.40	
6	13.70	0.00	-999.00	-999.00	10.90	0.00	96.00	96.70	0.00	99.20	100.10	99.30	0.00	98.40	
7	15.20	0.00	-999.00	-999.00	9.20	0.00	95.80	96.70	0.00	99.10	100.10	99.40	0.00	98.40	
8	13.90	0.00	-999.00	-999.00	10.80	0.00	95.70	96.70	0.00	99.00	100.20	99.00	0.00	98.40	
9	19.40	0.00	-999.00	-999.00	12.50	0.00	95.50	97.10	0.00	99.00	100.10	99.00	0.00	98.30	
10	17.50	0.00	-999.00	-999.00	12.70	0.00	95.30	97.60	0.00	99.00	99.80	99.10	0.00	98.00	
11	14.10	0.00	-999.00	-999.00	14.00	0.00	95.10	98.30	0.00	99.00	99.60	99.20	0.00	98.10	
12	13.60	0.00	-999.00	-999.00	12.70	0.00	95.00	98.50	0.00	100.20	99.40	99.20	0.00	97.90	
13	15.10	0.00	-999.00	-999.00	12.50	0.00	95.10	98.70	0.00	100.40	99.30	99.40	0.00	97.70	
14	13.80	0.00	-999.00	-999.00	12.70	0.00	95.10	98.40	0.00	100.80	99.40	99.40	0.00	97.80	
15	13.90	0.00	-999.00	-999.00	12.70	0.00	95.00	98.00	0.00	101.30	99.70	99.60	0.00	98.00	
16	13.80	0.00	-999.00	-999.00	12.80	0.00	95.00	98.40	0.00	101.80	99.70	99.60	0.00	97.70	
17	15.60	0.00	-999.00	-999.00	12.90	0.00	94.90	98.50	0.00	101.60	100.90	99.50	0.00	97.70	
18	14.20	0.00	-999.00	-999.00	14.80	0.00	95.00	98.10	0.00	101.40	101.00	99.10	0.00	97.60	
19	25.80	0.00	-999.00	-999.00	24.50	0.00	94.90	97.70	0.00	101.00	101.40	99.00	0.00	97.80	
20	26.80	0.00	-999.00	-999.00	26.00	0.00	95.00	97.60	0.00	100.20	101.40	98.80	0.00	98.00	
21	29.60	0.00	-999.00	-999.00	32.20	0.00	95.30	97.50	0.00	99.50	101.10	98.90	0.00	98.30	
22	29.00	0.00	-999.00	-999.00	28.40	0.00	95.30	97.10	0.00	99.20	100.80	99.10	0.00	98.40	
23	26.70	0.00	-999.00	-999.00	28.30	0.00	95.40	96.90	0.00	99.20	100.80	99.30	0.00	98.50	
24	19.80	0.00	-999.00	-999.00	24.20	0.00	95.70	96.50	0.00	99.00	100.60	99.10	0.00	98.50	

21 OCT 2002

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

21 OCT 2002

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.			
1	1.60	0.00	103.50	-999.00	-999.00	-999.00	16.30	0.00	96.50	96.40	15.50	0.00	-999.00	-999.00	
2	1.50	0.00	103.30	-999.00	-999.00	-999.00	14.30	0.00	96.50	96.00	15.80	0.00	-999.00	-999.00	
3	1.50	0.00	103.20	-999.00	-999.00	-999.00	17.80	0.00	96.50	97.40	14.00	0.00	-999.00	-999.00	
4	1.60	0.00	103.30	-999.00	-999.00	-999.00	14.10	0.00	96.40	96.50	14.00	0.00	-999.00	-999.00	
5	1.50	0.00	103.30	-999.00	-999.00	-999.00	16.20	0.00	96.40	97.50	14.10	0.00	-999.00	-999.00	
6	1.60	0.00	103.60	-999.00	-999.00	-999.00	14.20	0.00	96.40	96.60	15.60	0.00	-999.00	-999.00	
7	1.50	0.00	103.90	-999.00	-999.00	-999.00	15.80	0.00	96.20	97.20	14.40	0.00	-999.00	-999.00	
8	1.50	0.00	103.80	-999.00	-999.00	-999.00	16.40	0.00	96.20	97.20	14.10	0.00	-999.00	-999.00	
9	1.60	0.00	104.10	-999.00	-999.00	-999.00	14.00	0.00	96.20	97.50	14.10	0.00	-999.00	-999.00	
10	1.50	0.00	104.50	-999.00	-999.00	-999.00	14.10	0.00	96.20	96.50	14.10	0.00	-999.00	-999.00	
11	1.50	0.00	105.00	-999.00	-999.00	-999.00	14.00	0.00	96.40	96.60	14.30	0.00	-999.00	-999.00	
12	1.50	0.00	105.30	-999.00	-999.00	-999.00	14.30	0.00	96.50	96.60	14.10	0.00	-999.00	-999.00	
13	1.40	0.00	106.80	-999.00	-999.00	-999.00	14.20	0.00	96.90	96.70	14.10	0.00	-999.00	-999.00	
14	1.50	0.00	108.40	-999.00	-999.00	-999.00	14.30	0.00	97.00	96.70	14.10	0.00	-999.00	-999.00	
15	1.40	0.00	109.00	-999.00	-999.00	-999.00	14.50	0.00	97.10	96.90	14.10	0.00	-999.00	-999.00	
16	1.50	0.00	108.90	-999.00	-999.00	-999.00	14.20	0.00	97.20	96.70	14.30	0.00	-999.00	-999.00	
17	1.40	0.00	108.60	-999.00	-999.00	-999.00	14.20	0.00	97.20	96.70	14.10	0.00	-999.00	-999.00	
18	1.40	0.00	107.70	-999.00	-999.00	-999.00	14.20	0.00	97.20	96.80	14.10	0.00	-999.00	-999.00	
19	1.50	0.00	107.10	-999.00	-999.00	-999.00	14.20	0.00	97.20	96.70	15.60	0.00	-999.00	-999.00	
20	1.40	0.00	106.70	-999.00	-999.00	-999.00	16.10	0.00	97.30	98.10	14.50	0.00	-999.00	-999.00	
21	1.50	0.00	106.60	-999.00	-999.00	-999.00	24.70	0.00	97.00	97.90	21.40	0.00	-999.00	-999.00	
22	1.40	0.00	106.30	-999.00	-999.00	-999.00	17.40	0.00	97.00	98.00	21.20	0.00	-999.00	-999.00	
23	1.40	0.00	106.30	-999.00	-999.00	-999.00	14.20	0.00	97.00	97.20	16.30	0.00	-999.00	-999.00	
24	1.50	0.00	106.20	-999.00	-999.00	-999.00	14.10	0.00	96.90	97.00	12.80	0.00	-999.00	-999.00	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.			
1	16.20	0.00	-999.00	-999.00	17.60	0.00	95.60	96.40	66.90	0.00	98.90	100.60	99.00	0.00	98.50
2	13.90	0.00	-999.00	-999.00	9.60	0.00	95.60	96.20	70.50	0.00	98.90	100.30	99.00	0.00	98.30
3	14.00	0.00	-999.00	-999.00	9.20	0.00	95.80	96.10	74.50	0.00	98.90	100.40	98.80	0.00	98.20
4	13.80	0.00	-999.00	-999.00	9.30	0.00	95.70	96.10	74.20	0.00	98.90	100.20	98.70	0.00	98.20
5	13.80	0.00	-999.00	-999.00	9.20	0.00	95.70	96.00	84.50	0.00	98.80	100.10	98.60	0.00	98.20
6	14.50	0.00	-999.00	-999.00	9.30	0.00	95.70	95.90	89.10	0.00	98.70	99.70	98.60	0.00	98.20
7	14.40	0.00	-999.00	-999.00	12.50	0.00	95.20	96.30	91.70	0.00	98.70	99.70	98.60	0.00	98.30
8	14.40	0.00	-999.00	-999.00	13.00	0.00	95.30	96.90	102.00	0.00	98.80	99.90	98.60	0.00	98.30
9	14.60	0.00	-999.00	-999.00	12.60	0.00	95.40	97.30	102.50	0.00	98.80	99.80	98.70	0.00	98.30
10	14.40	0.00	-999.00	-999.00	12.90	0.00	95.40	97.90	102.50	0.00	98.70	99.70	99.00	0.00	98.30
11	14.40	0.00	-999.00	-999.00	12.70	0.00	95.60	97.60	102.40	0.00	99.00	99.70	99.10	0.00	98.30
12	14.40	0.00	-999.00	-999.00	14.10	0.00	95.90	97.60	102.90	0.00	99.20	99.80	99.20	0.00	98.30
13	14.40	0.00	-999.00	-999.00	12.70	0.00	95.90	97.50	103.30	0.00	100.90	99.90	99.40	0.00	98.10
14	14.60	0.00	-999.00	-999.00	12.60	0.00	95.90	98.00	103.40	0.00	101.30	99.80	99.60	0.00	98.10
15	14.40	0.00	-999.00	-999.00	12.60	0.00	95.80	97.80	102.40	0.00	101.70	99.80	99.60	0.00	98.20
16	15.90	0.00	-999.00	-999.00	12.90	0.00	95.70	98.50	102.10	0.00	101.90	99.70	99.40	0.00	98.20
17	14.40	0.00	-999.00	-999.00	12.60	0.00	95.60	98.20	103.20	0.00	102.20	99.60	99.10	0.00	98.30
18	15.90	0.00	-999.00	-999.00	14.20	0.00	95.70	97.80	104.70	0.00	101.90	99.40	99.00	0.00	98.50
19	14.60	0.00	-999.00	-999.00	15.90	0.00	95.80	97.40	104.30	0.00	101.80	99.20	98.90	0.00	98.60
20	14.70	0.00	-999.00	-999.00	19.40	0.00	95.90	97.10	98.20	0.00	99.50	99.20	98.70	0.00	98.70
21	21.20	0.00	-999.00	-999.00	19.70	0.00	95.90	97.50	79.50	0.00	99.80	99.00	98.50	0.00	98.80
22	21.20	0.00	-999.00	-999.00	19.40	0.00	95.80	97.50	77.90	0.00	100.20	98.80	98.50	0.00	98.80
23	15.40	0.00	-999.00	-999.00	19.30	0.00	95.80	96.90	78.80	0.00	100.00	99.50	98.60	0.00	98.80
24	13.80	0.00	-999.00	-999.00	18.90	0.00	96.20	96.70	77.10	0.00	99.90	100.40	98.60	0.00	98.80

22 OCT 2002

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

22 OCT 2002

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.			
1	1.40	0.00	106.20	-999.00	-999.00	-999.00	14.10	0.00	96.80	12.90	0.00	-999.00	-999.00		
2	1.50	0.00	106.00	-999.00	-999.00	-999.00	14.10	0.00	96.70	12.90	0.00	-999.00	-999.00		
3	1.50	0.00	105.90	-999.00	-999.00	-999.00	15.80	0.00	96.80	14.20	0.00	-999.00	-999.00		
4	1.40	0.00	105.80	-999.00	-999.00	-999.00	14.40	0.00	96.70	12.80	0.00	-999.00	-999.00		
5	1.50	0.00	105.80	-999.00	-999.00	-999.00	14.00	0.00	96.60	12.70	0.00	-999.00	-999.00		
6	1.40	0.00	105.80	-999.00	-999.00	-999.00	13.70	0.00	96.60	14.50	0.00	-999.00	-999.00		
7	1.40	0.00	105.80	-999.00	-999.00	-999.00	16.10	0.00	96.60	16.50	0.00	-999.00	-999.00		
8	1.50	0.00	105.80	-999.00	-999.00	-999.00	15.60	0.00	96.30	15.70	0.00	-999.00	-999.00		
9	1.40	0.00	105.90	-999.00	-999.00	-999.00	15.60	0.00	96.30	15.80	0.00	-999.00	-999.00		
10	1.50	0.00	106.20	-999.00	-999.00	-999.00	15.80	0.00	96.20	15.80	0.00	-999.00	-999.00		
11	1.60	0.00	106.00	-999.00	-999.00	-999.00	15.50	0.00	96.30	16.10	0.00	-999.00	-999.00		
12	1.50	0.00	104.80	-999.00	-999.00	-999.00	15.50	0.00	96.40	15.90	0.00	-999.00	-999.00		
13	1.60	0.00	104.80	-999.00	-999.00	-999.00	15.50	0.00	96.70	15.80	0.00	-999.00	-999.00		
14	1.50	0.00	105.20	-999.00	-999.00	-999.00	15.60	0.00	96.90	15.70	0.00	-999.00	-999.00		
15	1.50	0.00	105.30	-999.00	-999.00	-999.00	15.60	0.00	97.00	15.70	0.00	-999.00	-999.00		
16	1.60	0.00	105.50	-999.00	-999.00	-999.00	15.80	0.00	97.00	16.00	0.00	-999.00	-999.00		
17	1.50	0.00	105.30	-999.00	-999.00	-999.00	18.90	0.00	96.80	17.20	0.00	-999.00	-999.00		
18	1.60	0.00	104.60	-999.00	-999.00	-999.00	17.20	0.00	96.80	15.70	0.00	-999.00	-999.00		
19	1.50	0.00	103.90	-999.00	-999.00	-999.00	15.60	0.00	96.70	14.40	0.00	-999.00	-999.00		
20	1.50	0.00	103.60	-999.00	-999.00	-999.00	15.30	0.00	96.60	14.40	0.00	-999.00	-999.00		
21	1.60	0.00	103.50	-999.00	-999.00	-999.00	15.80	0.00	96.40	16.00	0.00	-999.00	-999.00		
22	1.50	0.00	103.40	-999.00	-999.00	-999.00	17.50	0.00	96.40	14.30	0.00	-999.00	-999.00		
23	1.60	0.00	103.40	-999.00	-999.00	-999.00	14.00	0.00	96.40	14.30	0.00	-999.00	-999.00		
24	1.50	0.00	103.20	-999.00	-999.00	-999.00	14.00	0.00	96.40	14.30	0.00	-999.00	-999.00		

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.			
1	13.40	0.00	-999.00	12.80	0.00	96.30	96.60	77.00	0.00	99.20	100.40	98.60	98.80		
2	15.10	0.00	-999.00	12.70	0.00	96.30	96.50	66.90	0.00	99.40	100.20	98.70	98.70		
3	13.60	0.00	-999.00	12.50	0.00	96.20	96.40	63.50	0.00	99.30	99.90	98.50	98.70		
4	13.50	0.00	-999.00	14.10	0.00	95.80	96.50	63.90	0.00	98.60	99.80	98.40	98.70		
5	13.50	0.00	-999.00	12.60	0.00	95.80	96.60	68.20	0.00	98.60	99.70	98.40	98.80		
6	13.60	0.00	-999.00	14.30	0.00	95.70	96.70	99.20	0.00	98.30	99.60	98.30	98.80		
7	17.00	0.00	-999.00	19.40	0.00	95.60	96.80	126.80	0.00	98.40	99.40	98.60	98.70		
8	18.60	0.00	-999.00	21.30	0.00	95.60	97.30	120.70	0.00	98.50	99.40	98.40	98.60		
9	17.00	0.00	-999.00	20.90	0.00	95.50	97.90	109.50	0.00	98.30	99.20	98.30	98.30		
10	17.00	0.00	-999.00	20.50	0.00	95.30	97.50	103.60	0.00	98.10	99.20	98.50	98.20		
11	18.50	0.00	-999.00	20.00	0.00	95.30	97.30	102.70	0.00	99.00	99.10	98.80	98.20		
12	17.40	0.00	-999.00	19.50	0.00	95.40	97.20	102.00	0.00	99.70	99.00	98.80	98.30		
13	17.00	0.00	-999.00	19.40	0.00	95.40	97.80	96.00	0.00	100.00	99.40	98.90	98.40		
14	17.00	0.00	-999.00	19.40	0.00	95.50	97.80	95.40	0.00	100.30	99.90	99.10	98.50		
15	17.00	0.00	-999.00	19.40	0.00	95.50	97.50	95.90	0.00	100.60	100.30	99.00	98.70		
16	18.50	0.00	-999.00	21.30	0.00	95.60	97.60	95.80	0.00	99.90	100.10	98.90	98.70		
17	17.10	0.00	-999.00	21.00	0.00	95.70	97.30	87.00	0.00	99.10	100.10	98.80	98.70		
18	17.30	0.00	-999.00	24.00	0.00	95.50	97.10	86.60	0.00	98.20	100.30	98.80	99.10		
19	17.00	0.00	-999.00	19.50	0.00	95.50	97.20	80.30	0.00	99.30	100.30	98.80	99.10		
20	16.90	0.00	-999.00	19.60	0.00	95.50	96.90	71.70	0.00	98.80	100.10	98.70	99.20		
21	16.90	0.00	-999.00	19.70	0.00	95.40	96.80	70.20	0.00	98.50	100.10	98.60	99.20		
22	16.70	0.00	-999.00	19.70	0.00	95.40	96.80	69.80	0.00	98.40	100.00	98.80	99.20		
23	14.30	0.00	-999.00	12.80	0.00	95.20	96.20	68.80	0.00	98.40	99.70	98.50	99.00		
24	16.00	0.00	-999.00	12.90	0.00	95.10	96.10	69.30	0.00	98.40	99.70	98.50	99.00		

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**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

23 OCT 2002

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	LOWER GRANITE	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.		
1	1.50	0.00	103.20	-999.00	-999.00	-999.00	14.00	0.00	96.30	97.10	14.50	0.00	-999.00	-999.00	
2	1.60	0.00	103.10	-999.00	-999.00	-999.00	14.00	0.00	96.30	97.00	14.20	0.00	-999.00	-999.00	
3	1.50	0.00	103.00	-999.00	-999.00	-999.00	14.00	0.00	96.30	97.00	14.20	0.00	-999.00	-999.00	
4	1.50	0.00	103.00	-999.00	-999.00	-999.00	14.40	0.00	96.10	97.00	14.20	0.00	-999.00	-999.00	
5	1.60	0.00	102.90	-999.00	-999.00	-999.00	14.30	0.00	96.00	97.40	15.70	0.00	-999.00	-999.00	
6	1.50	0.00	102.80	-999.00	-999.00	-999.00	13.90	0.00	95.90	97.10	14.50	0.00	-999.00	-999.00	
7	1.60	0.00	103.40	-999.00	-999.00	-999.00	14.10	0.00	95.80	97.00	14.30	0.00	-999.00	-999.00	
8	1.50	0.00	103.40	-999.00	-999.00	-999.00	14.20	0.00	95.60	96.80	14.30	0.00	-999.00	-999.00	
9	1.60	0.00	103.70	-999.00	-999.00	-999.00	15.50	0.00	95.50	96.70	15.60	0.00	-999.00	-999.00	
10	1.50	0.00	104.00	-999.00	-999.00	-999.00	15.70	0.00	95.40	96.80	15.70	0.00	-999.00	-999.00	
11	1.50	0.00	104.40	-999.00	-999.00	-999.00	16.00	0.00	95.50	96.80	16.00	0.00	-999.00	-999.00	
12	1.60	0.00	104.70	-999.00	-999.00	-999.00	15.80	0.00	95.50	99.60	15.80	0.00	-999.00	-999.00	
13	1.50	0.00	105.30	-999.00	-999.00	-999.00	17.40	0.00	95.60	99.50	15.80	0.00	-999.00	-999.00	
14	1.60	0.00	105.60	-999.00	-999.00	-999.00	15.50	0.00	96.00	99.60	15.70	0.00	-999.00	-999.00	
15	1.50	0.00	106.00	-999.00	-999.00	-999.00	15.60	0.00	96.00	97.60	15.70	0.00	-999.00	-999.00	
16	1.50	0.00	105.90	-999.00	-999.00	-999.00	16.10	0.00	96.10	97.50	16.00	0.00	-999.00	-999.00	
17	1.60	0.00	105.50	-999.00	-999.00	-999.00	16.30	0.00	96.20	98.60	15.70	0.00	-999.00	-999.00	
18	1.50	0.00	104.80	-999.00	-999.00	-999.00	16.10	0.00	96.20	98.40	15.70	0.00	-999.00	-999.00	
19	1.60	0.00	104.20	-999.00	-999.00	-999.00	16.10	0.00	96.00	97.80	15.70	0.00	-999.00	-999.00	
20	1.50	0.00	103.90	-999.00	-999.00	-999.00	16.10	0.00	96.00	97.70	16.00	0.00	-999.00	-999.00	
21	1.50	0.00	103.90	-999.00	-999.00	-999.00	16.10	0.00	96.00	97.50	15.70	0.00	-999.00	-999.00	
22	1.60	0.00	103.70	-999.00	-999.00	-999.00	16.10	0.00	96.00	97.40	17.10	0.00	-999.00	-999.00	
23	1.50	0.00	103.70	-999.00	-999.00	-999.00	16.40	0.00	96.00	97.40	15.70	0.00	-999.00	-999.00	
24	1.60	0.00	103.70	-999.00	-999.00	-999.00	16.10	0.00	96.00	97.40	15.60	0.00	-999.00	-999.00	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB	WA TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB	GAS %SAT	
1	14.30	0.00	-999.00	-999.00	12.60	0.00	94.90	96.10	0.00	98.20	99.60	98.80	0.00	98.90	
2	14.30	0.00	-999.00	-999.00	13.50	0.00	94.90	95.90	0.00	98.20	99.40	98.60	0.00	98.80	
3	14.30	0.00	-999.00	-999.00	12.00	0.00	94.80	96.00	0.00	98.20	99.20	98.50	0.00	98.70	
4	14.30	0.00	-999.00	-999.00	12.00	0.00	94.80	96.00	0.00	98.10	99.10	98.00	0.00	98.80	
5	14.30	0.00	-999.00	-999.00	12.00	0.00	94.80	96.00	0.00	98.00	98.80	98.00	0.00	98.70	
6	14.30	0.00	-999.00	-999.00	12.30	0.00	94.70	95.90	0.00	97.80	98.60	98.20	0.00	98.50	
7	14.60	0.00	-999.00	-999.00	13.40	0.00	94.70	96.60	0.00	97.70	98.60	98.50	0.00	98.30	
8	14.40	0.00	-999.00	-999.00	12.30	0.00	94.60	96.50	0.00	97.50	98.40	98.60	0.00	98.00	
9	14.90	0.00	-999.00	-999.00	21.50	0.00	94.70	96.20	0.00	97.60	98.30	98.30	0.00	97.60	
10	15.30	0.00	-999.00	-999.00	22.60	0.00	94.70	96.70	0.00	97.60	98.30	98.20	0.00	97.40	
11	16.80	0.00	-999.00	-999.00	21.20	0.00	94.80	97.00	0.00	97.90	98.30	98.20	0.00	97.30	
12	15.70	0.00	-999.00	-999.00	20.90	0.00	94.80	96.60	0.00	98.20	98.30	98.30	0.00	97.20	
13	15.40	0.00	-999.00	-999.00	16.40	0.00	94.70	97.20	0.00	98.60	98.50	98.60	0.00	97.20	
14	16.80	0.00	-999.00	-999.00	12.40	0.00	94.80	97.60	0.00	99.00	98.70	98.50	0.00	97.50	
15	15.30	0.00	-999.00	-999.00	12.30	0.00	94.70	97.10	0.00	98.90	98.80	98.60	0.00	97.50	
16	15.30	0.00	-999.00	-999.00	12.50	0.00	94.60	97.00	0.00	98.60	98.80	98.50	0.00	97.70	
17	15.30	0.00	-999.00	-999.00	12.30	0.00	94.80	97.10	0.00	98.30	99.00	98.50	0.00	97.90	
18	15.60	0.00	-999.00	-999.00	12.40	0.00	94.80	97.00	0.00	98.10	99.10	98.70	0.00	98.20	
19	15.40	0.00	-999.00	-999.00	12.40	0.00	94.90	96.90	0.00	97.90	99.30	98.40	0.00	98.30	
20	15.40	0.00	-999.00	-999.00	12.40	0.00	94.90	97.40	0.00	97.70	99.40	98.30	0.00	98.40	
21	15.30	0.00	-999.00	-999.00	13.80	0.00	94.90	96.80	0.00	97.70	99.40	98.30	0.00	98.60	
22	15.30	0.00	-999.00	-999.00	12.60	0.00	94.90	96.50	0.00	97.70	99.40	98.20	0.00	98.60	
23	15.40	0.00	-999.00	-999.00	12.40	0.00	94.80	96.20	0.00	97.70	99.20	98.10	0.00	98.60	
24	15.60	0.00	-999.00	-999.00	12.30	0.00	94.90	96.20	0.00	97.70	99.10	97.90	0.00	98.60	

24 OCT 2002

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

24 OCT 2002

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.			
1	1.50	0.00	103.70	-999.00	-999.00	-999.00	14.10	0.00	96.00	97.20	13.90	0.00	-999.00	-999.00	
2	1.60	0.00	103.80	-999.00	-999.00	-999.00	13.90	0.00	96.00	97.20	13.50	0.00	-999.00	-999.00	
3	1.50	0.00	103.80	-999.00	-999.00	-999.00	13.90	0.00	96.00	97.30	13.50	0.00	-999.00	-999.00	
4	1.60	0.00	103.70	-999.00	-999.00	-999.00	14.00	0.00	96.00	97.30	13.50	0.00	-999.00	-999.00	
5	1.50	0.00	103.60	-999.00	-999.00	-999.00	14.20	0.00	95.80	97.20	15.20	0.00	-999.00	-999.00	
6	1.50	0.00	103.50	-999.00	-999.00	-999.00	14.50	0.00	95.90	97.50	13.60	0.00	-999.00	-999.00	
7	1.60	0.00	102.30	-999.00	-999.00	-999.00	15.50	0.00	95.80	97.40	15.70	0.00	-999.00	-999.00	
8	1.50	0.00	102.30	-999.00	-999.00	-999.00	15.70	0.00	95.80	97.20	16.00	0.00	-999.00	-999.00	
9	1.60	0.00	102.80	-999.00	-999.00	-999.00	19.80	0.00	95.80	97.10	19.70	0.00	-999.00	-999.00	
10	1.50	0.00	102.90	-999.00	-999.00	-999.00	20.10	0.00	96.00	97.10	20.20	0.00	-999.00	-999.00	
11	1.50	0.00	103.30	-999.00	-999.00	-999.00	19.90	0.00	96.20	97.00	19.70	0.00	-999.00	-999.00	
12	1.60	0.00	103.60	-999.00	-999.00	-999.00	20.20	0.00	96.30	97.10	19.70	0.00	-999.00	-999.00	
13	1.60	0.00	104.20	-999.00	-999.00	-999.00	14.50	0.00	96.50	97.30	19.70	0.00	-999.00	-999.00	
14	1.50	0.00	104.80	-999.00	-999.00	-999.00	14.30	0.00	96.90	97.30	16.20	0.00	-999.00	-999.00	
15	1.50	0.00	104.90	-999.00	-999.00	-999.00	14.30	0.00	97.10	97.40	14.40	0.00	-999.00	-999.00	
16	1.60	0.00	105.00	-999.00	-999.00	-999.00	14.20	0.00	97.00	97.30	15.90	0.00	-999.00	-999.00	
17	1.50	0.00	104.70	-999.00	-999.00	-999.00	14.40	0.00	97.20	97.40	14.40	0.00	-999.00	-999.00	
18	1.50	0.00	103.80	-999.00	-999.00	-999.00	14.10	0.00	97.30	97.40	16.10	0.00	-999.00	-999.00	
19	1.60	0.00	103.50	-999.00	-999.00	-999.00	14.20	0.00	97.40	97.30	14.50	0.00	-999.00	-999.00	
20	1.50	0.00	102.90	-999.00	-999.00	-999.00	15.90	0.00	97.50	97.30	15.70	0.00	-999.00	-999.00	
21	1.50	0.00	102.90	-999.00	-999.00	-999.00	16.90	0.00	97.50	97.60	17.00	0.00	-999.00	-999.00	
22	1.50	0.00	102.90	-999.00	-999.00	-999.00	16.10	0.00	97.30	98.60	17.20	0.00	-999.00	-999.00	
23	1.50	0.00	102.90	-999.00	-999.00	-999.00	14.50	0.00	97.20	97.70	14.90	0.00	-999.00	-999.00	
24	1.50	0.00	103.00	-999.00	-999.00	-999.00	14.30	0.00	97.10	97.40	14.40	0.00	-999.00	-999.00	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.			
1	13.90	0.00	-999.00	-999.00	12.00	0.00	94.80	96.40	79.60	0.00	97.70	99.00	97.80	0.00	98.40
2	13.80	0.00	-999.00	-999.00	11.90	0.00	94.80	96.70	79.60	0.00	97.40	98.70	97.90	0.00	98.40
3	13.80	0.00	-999.00	-999.00	12.10	0.00	94.80	96.20	79.70	0.00	97.50	98.50	97.80	0.00	98.30
4	13.80	0.00	-999.00	-999.00	12.00	0.00	94.80	95.90	79.80	0.00	97.60	98.60	97.80	0.00	98.30
5	15.30	0.00	-999.00	-999.00	12.10	0.00	94.60	95.90	80.70	0.00	97.60	98.60	98.00	0.00	98.10
6	14.00	0.00	-999.00	-999.00	12.10	0.00	94.60	95.80	107.20	0.00	97.50	98.40	98.40	0.00	98.00
7	15.20	0.00	-999.00	-999.00	12.10	0.00	94.60	95.80	108.90	0.00	97.20	98.30	98.10	0.00	97.80
8	15.70	0.00	-999.00	-999.00	12.30	0.00	94.50	95.90	109.40	0.00	97.20	98.10	97.90	0.00	97.40
9	19.50	0.00	-999.00	-999.00	12.20	0.00	94.40	95.80	115.00	0.00	97.50	98.10	97.90	0.00	97.20
10	19.70	0.00	-999.00	-999.00	13.70	0.00	94.50	96.20	116.30	0.00	97.60	98.00	98.30	0.00	96.90
11	19.80	0.00	-999.00	-999.00	12.40	0.00	94.50	96.20	116.30	0.00	97.80	98.20	98.50	0.00	96.90
12	19.80	0.00	-999.00	-999.00	21.30	0.00	94.50	96.50	116.40	0.00	98.30	98.20	98.70	0.00	96.90
13	20.10	0.00	-999.00	-999.00	20.50	0.00	94.60	97.20	116.40	0.00	99.00	98.60	98.70	0.00	97.00
14	19.70	0.00	-999.00	-999.00	20.10	0.00	94.70	98.40	116.50	0.00	99.60	98.70	98.70	0.00	97.20
15	16.10	0.00	-999.00	-999.00	20.10	0.00	94.90	98.00	116.50	0.00	99.60	98.70	98.80	0.00	97.40
16	18.30	0.00	-999.00	-999.00	21.60	0.00	94.90	97.30	116.90	0.00	99.70	98.90	98.70	0.00	97.60
17	14.80	0.00	-999.00	-999.00	20.00	0.00	95.10	97.00	116.80	0.00	99.70	99.20	98.80	0.00	97.80
18	14.60	0.00	-999.00	-999.00	12.50	0.00	95.10	96.80	116.30	0.00	99.30	99.30	98.60	0.00	97.90
19	14.90	0.00	-999.00	-999.00	12.30	0.00	95.10	96.50	116.70	0.00	98.80	99.30	98.40	0.00	98.10
20	18.20	0.00	-999.00	-999.00	12.10	0.00	95.00	96.30	116.90	0.00	98.50	99.30	98.30	0.00	98.10
21	18.70	0.00	-999.00	-999.00	12.10	0.00	95.00	96.90	116.50	0.00	98.20	99.10	98.30	0.00	98.20
22	18.80	0.00	-999.00	-999.00	12.10	0.00	94.90	96.40	109.10	0.00	98.00	99.00	98.20	0.00	98.10
23	18.60	0.00	-999.00	-999.00	12.10	0.00	94.80	96.10	89.30	0.00	97.90	98.90	98.00	0.00	98.00
24	15.20	0.00	-999.00	-999.00	13.80	0.00	94.70	96.00	70.80	0.00	97.80	99.00	97.90	0.00	97.90

25 OCT 2002

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

25 OCT 2002

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	LOWER GRANITE	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.		
1	1.50	0.00	102.90	-999.00	-999.00	-999.00	14.30	0.00	97.00	97.30	14.50	0.00	-999.00	-999.00	
2	1.50	0.00	103.00	-999.00	-999.00	-999.00	14.30	0.00	96.90	97.20	14.50	0.00	-999.00	-999.00	
3	1.60	0.00	103.00	-999.00	-999.00	-999.00	14.30	0.00	96.70	97.10	16.00	0.00	-999.00	-999.00	
4	1.50	0.00	102.80	-999.00	-999.00	-999.00	14.30	0.00	96.60	97.10	14.80	0.00	-999.00	-999.00	
5	1.50	0.00	102.80	-999.00	-999.00	-999.00	14.50	0.00	96.50	97.10	14.60	0.00	-999.00	-999.00	
6	1.60	0.00	102.60	-999.00	-999.00	-999.00	14.30	0.00	96.40	97.10	14.60	0.00	-999.00	-999.00	
7	1.50	0.00	102.20	-999.00	-999.00	-999.00	16.90	0.00	96.40	96.80	16.60	0.00	-999.00	-999.00	
8	1.60	0.00	103.80	-999.00	-999.00	-999.00	17.10	0.00	96.20	96.70	17.00	0.00	-999.00	-999.00	
9	1.50	0.00	104.00	-999.00	-999.00	-999.00	18.80	0.00	96.20	97.40	16.70	0.00	-999.00	-999.00	
10	1.50	0.00	104.20	-999.00	-999.00	-999.00	19.90	0.00	96.20	96.70	19.70	0.00	-999.00	-999.00	
11	1.60	0.00	104.50	-999.00	-999.00	-999.00	20.30	0.00	96.30	96.60	19.80	0.00	-999.00	-999.00	
12	1.50	0.00	105.00	-999.00	-999.00	-999.00	17.20	0.00	96.50	96.70	20.40	0.00	-999.00	-999.00	
13	1.60	0.00	105.40	-999.00	-999.00	-999.00	17.10	0.00	96.70	96.70	19.90	0.00	-999.00	-999.00	
14	1.50	0.00	105.70	-999.00	-999.00	-999.00	14.30	0.00	96.80	97.00	17.60	0.00	-999.00	-999.00	
15	1.50	0.00	105.90	-999.00	-999.00	-999.00	13.00	0.00	96.80	97.00	15.30	0.00	-999.00	-999.00	
16	1.60	0.00	105.80	-999.00	-999.00	-999.00	14.70	0.00	97.20	97.50	15.50	0.00	-999.00	-999.00	
17	1.50	0.00	105.40	-999.00	-999.00	-999.00	13.00	0.00	97.20	98.40	15.60	0.00	-999.00	-999.00	
18	1.50	0.00	104.70	-999.00	-999.00	-999.00	13.20	0.00	97.40	97.10	13.40	0.00	-999.00	-999.00	
19	1.60	0.00	104.10	-999.00	-999.00	-999.00	12.80	0.00	97.40	97.00	13.30	0.00	-999.00	-999.00	
20	1.50	0.00	104.00	-999.00	-999.00	-999.00	14.50	0.00	97.20	97.60	13.30	0.00	-999.00	-999.00	
21	1.60	0.00	103.90	-999.00	-999.00	-999.00	13.00	0.00	97.20	97.20	13.50	0.00	-999.00	-999.00	
22	1.50	0.00	103.70	-999.00	-999.00	-999.00	20.30	0.00	97.20	96.90	21.20	0.00	-999.00	-999.00	
23	1.50	0.00	103.70	-999.00	-999.00	-999.00	15.40	0.00	97.10	96.80	14.70	0.00	-999.00	-999.00	
24	1.60	0.00	103.70	-999.00	-999.00	-999.00	14.30	0.00	97.00	96.90	12.90	0.00	-999.00	-999.00	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB	WA TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB	GAS % SAT	
1	14.80	0.00	-999.00	-999.00	12.10	0.00	94.60	95.90	0.00	97.80	98.80	97.90	0.00	97.90	
2	13.80	0.00	-999.00	-999.00	12.10	0.00	94.60	95.90	0.00	97.70	98.70	97.80	0.00	97.70	
3	13.70	0.00	-999.00	-999.00	12.10	0.00	94.50	95.90	0.00	97.40	98.50	97.80	0.00	97.70	
4	13.80	0.00	-999.00	-999.00	12.10	0.00	94.40	96.40	0.00	97.50	98.50	97.80	0.00	97.70	
5	13.80	0.00	-999.00	-999.00	12.10	0.00	94.40	96.30	0.00	97.50	98.50	97.70	0.00	97.60	
6	13.90	0.00	-999.00	-999.00	13.40	0.00	94.40	95.90	0.00	97.40	98.30	97.90	0.00	97.60	
7	19.10	0.00	-999.00	-999.00	19.90	0.00	94.40	95.70	0.00	97.20	98.30	97.80	0.00	97.50	
8	19.00	0.00	-999.00	-999.00	20.00	0.00	94.40	95.90	0.00	97.00	98.10	97.70	0.00	97.20	
9	20.70	0.00	-999.00	-999.00	20.10	0.00	94.40	96.10	0.00	97.10	98.00	97.70	0.00	96.90	
10	19.10	0.00	-999.00	-999.00	20.00	0.00	94.50	96.20	0.00	97.40	97.90	97.70	0.00	96.60	
11	19.10	0.00	-999.00	-999.00	20.10	0.00	94.70	96.10	0.00	97.60	97.90	97.80	0.00	96.70	
12	21.20	0.00	-999.00	-999.00	22.60	0.00	94.70	96.30	0.00	98.10	97.80	98.00	0.00	96.80	
13	21.00	0.00	-999.00	-999.00	22.40	0.00	94.90	96.60	0.00	98.60	98.20	98.10	0.00	96.90	
14	20.90	0.00	-999.00	-999.00	23.90	0.00	94.80	97.10	0.00	98.90	98.40	98.20	0.00	97.10	
15	20.80	0.00	-999.00	-999.00	22.40	0.00	94.90	96.90	0.00	99.10	98.50	98.30	0.00	97.50	
16	21.00	0.00	-999.00	-999.00	20.10	0.00	94.80	97.10	0.00	99.20	98.60	98.30	0.00	97.60	
17	20.90	0.00	-999.00	-999.00	20.40	0.00	94.80	97.20	0.00	98.90	98.80	98.20	0.00	97.60	
18	15.60	0.00	-999.00	-999.00	21.50	0.00	94.80	96.60	0.00	98.40	98.80	98.20	0.00	97.80	
19	14.90	0.00	-999.00	-999.00	20.10	0.00	94.80	96.40	0.00	98.00	98.80	98.20	0.00	98.00	
20	14.20	0.00	-999.00	-999.00	20.00	0.00	94.80	96.20	0.00	97.80	98.60	97.90	0.00	98.10	
21	14.40	0.00	-999.00	-999.00	21.70	0.00	94.80	96.70	0.00	97.80	98.50	97.70	0.00	98.10	
22	21.90	0.00	-999.00	-999.00	25.60	0.00	94.70	96.20	0.00	97.80	98.30	97.70	0.00	98.00	
23	14.80	0.00	-999.00	-999.00	11.50	0.00	94.70	96.00	0.00	97.60	98.10	97.60	0.00	98.00	
24	13.90	0.00	-999.00	-999.00	9.30	0.00	94.60	95.90	0.00	97.40	98.00	97.50	0.00	97.90	

26 OCT 2002

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

26 OCT 2002

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	LOWER GRANITE	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.		
1	1.50	0.00	103.60	-999.00	-999.00	-999.00	14.40	0.00	96.80	96.80	12.90	0.00	-999.00	-999.00	
2	1.50	0.00	103.60	-999.00	-999.00	-999.00	14.30	0.00	96.80	96.80	13.10	0.00	-999.00	-999.00	
3	1.60	0.00	103.60	-999.00	-999.00	-999.00	14.30	0.00	96.80	96.60	14.20	0.00	-999.00	-999.00	
4	1.50	0.00	103.60	-999.00	-999.00	-999.00	16.10	0.00	96.70	96.60	14.10	0.00	-999.00	-999.00	
5	1.50	0.00	103.60	-999.00	-999.00	-999.00	14.60	0.00	96.70	97.60	12.70	0.00	-999.00	-999.00	
6	1.60	0.00	103.60	-999.00	-999.00	-999.00	14.30	0.00	96.70	97.10	12.80	0.00	-999.00	-999.00	
7	1.50	0.00	103.60	-999.00	-999.00	-999.00	12.50	0.00	96.60	96.80	13.00	0.00	-999.00	-999.00	
8	1.60	0.00	103.90	-999.00	-999.00	-999.00	12.40	0.00	96.50	96.60	13.00	0.00	-999.00	-999.00	
9	1.50	0.00	104.00	-999.00	-999.00	-999.00	12.60	0.00	96.40	96.50	16.00	0.00	-999.00	-999.00	
10	1.50	0.00	104.50	-999.00	-999.00	-999.00	16.80	0.00	96.40	96.40	15.70	0.00	-999.00	-999.00	
11	1.60	0.00	104.80	-999.00	-999.00	-999.00	17.30	0.00	96.40	96.50	15.90	0.00	-999.00	-999.00	
12	1.50	0.00	105.10	-999.00	-999.00	-999.00	17.00	0.00	96.40	96.60	15.50	0.00	-999.00	-999.00	
13	1.60	0.00	105.50	-999.00	-999.00	-999.00	17.10	0.00	96.60	96.90	15.60	0.00	-999.00	-999.00	
14	1.50	0.00	106.00	-999.00	-999.00	-999.00	16.60	0.00	96.80	96.90	15.70	0.00	-999.00	-999.00	
15	1.50	0.00	106.30	-999.00	-999.00	-999.00	16.70	0.00	96.90	96.90	15.60	0.00	-999.00	-999.00	
16	1.60	0.00	106.10	-999.00	-999.00	-999.00	16.80	0.00	97.10	96.80	15.90	0.00	-999.00	-999.00	
17	1.50	0.00	105.50	-999.00	-999.00	-999.00	17.10	0.00	97.10	96.80	15.60	0.00	-999.00	-999.00	
18	1.50	0.00	104.40	-999.00	-999.00	-999.00	16.80	0.00	97.30	96.50	15.60	0.00	-999.00	-999.00	
19	1.60	0.00	104.10	-999.00	-999.00	-999.00	17.00	0.00	97.40	97.30	17.00	0.00	-999.00	-999.00	
20	1.50	0.00	104.00	-999.00	-999.00	-999.00	18.70	0.00	97.20	97.40	17.30	0.00	-999.00	-999.00	
21	1.60	0.00	103.80	-999.00	-999.00	-999.00	14.40	0.00	97.10	97.10	21.70	0.00	-999.00	-999.00	
22	1.50	0.00	103.70	-999.00	-999.00	-999.00	14.30	0.00	96.90	96.50	21.70	0.00	-999.00	-999.00	
23	1.50	0.00	103.60	-999.00	-999.00	-999.00	14.10	0.00	96.70	96.40	22.90	0.00	-999.00	-999.00	
24	1.60	0.00	103.60	-999.00	-999.00	-999.00	14.10	0.00	96.60	96.30	14.00	0.00	-999.00	-999.00	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB	WA TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB	GAS %SAT	
1	15.20	0.00	-999.00	-999.00	9.30	0.00	94.60	96.50	0.00	97.40	98.00	97.60	0.00	97.90	
2	13.60	0.00	-999.00	-999.00	9.30	0.00	94.60	96.30	0.00	97.30	97.90	97.70	0.00	97.90	
3	13.70	0.00	-999.00	-999.00	9.30	0.00	94.50	95.70	0.00	97.30	97.70	97.70	0.00	97.90	
4	13.60	0.00	-999.00	-999.00	9.40	0.00	94.50	95.80	0.00	97.20	97.60	97.60	0.00	98.00	
5	13.70	0.00	-999.00	-999.00	9.30	0.00	94.40	95.70	0.00	97.00	97.60	97.50	0.00	97.80	
6	14.00	0.00	-999.00	-999.00	9.30	0.00	94.40	95.80	0.00	96.90	97.60	97.50	0.00	97.60	
7	13.80	0.00	-999.00	-999.00	9.30	0.00	94.40	95.80	0.00	96.90	97.40	97.50	0.00	97.50	
8	13.80	0.00	-999.00	-999.00	9.30	0.00	94.30	95.90	0.00	97.10	97.50	97.20	0.00	97.30	
9	15.40	0.00	-999.00	-999.00	9.40	0.00	94.10	95.90	0.00	97.00	97.40	97.40	0.00	97.10	
10	16.80	0.00	-999.00	-999.00	12.10	0.00	94.10	96.30	0.00	97.30	97.40	97.40	0.00	96.80	
11	17.10	0.00	-999.00	-999.00	12.10	0.00	94.10	96.30	0.00	97.40	97.60	97.60	0.00	96.90	
12	17.40	0.00	-999.00	-999.00	12.10	0.00	94.20	96.50	0.00	97.70	97.60	97.80	0.00	96.90	
13	17.10	0.00	-999.00	-999.00	12.20	0.00	94.30	97.20	0.00	98.00	97.80	97.80	0.00	96.90	
14	17.10	0.00	-999.00	-999.00	12.20	0.00	94.40	97.40	0.00	98.10	98.00	98.00	0.00	97.20	
15	17.10	0.00	-999.00	-999.00	13.80	0.00	94.40	97.10	0.00	97.90	97.90	98.00	0.00	97.50	
16	17.20	0.00	-999.00	-999.00	12.00	0.00	94.40	97.10	0.00	98.00	97.90	97.80	0.00	97.80	
17	17.10	0.00	-999.00	-999.00	12.70	0.00	94.30	96.90	0.00	98.30	98.00	97.70	0.00	98.00	
18	17.50	0.00	-999.00	-999.00	20.90	0.00	94.30	97.00	0.00	97.70	97.80	97.40	0.00	98.50	
19	17.20	0.00	-999.00	-999.00	21.10	0.00	94.20	96.40	0.00	97.50	97.60	97.20	0.00	98.40	
20	17.30	0.00	-999.00	-999.00	21.10	0.00	94.10	95.90	0.00	97.30	97.20	97.00	0.00	98.40	
21	20.80	0.00	-999.00	-999.00	24.60	0.00	94.10	95.70	0.00	97.10	97.00	96.90	0.00	98.30	
22	21.00	0.00	-999.00	-999.00	27.10	0.00	94.10	95.50	0.00	96.80	97.10	96.90	0.00	98.30	
23	20.90	0.00	-999.00	-999.00	25.40	0.00	94.10	96.10	0.00	96.70	97.10	96.70	0.00	98.10	
24	13.90	0.00	-999.00	-999.00	19.80	0.00	94.10	95.60	0.00	96.70	97.10	96.70	0.00	98.10	

27 OCT 2002

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

27 OCT 2002

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	LOWER GRANITE	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.		
1	1.50	0.00	103.60	-999.00	-999.00	-999.00	14.10	0.00	96.40	96.20	13.80	0.00	-999.00	-999.00	
2	1.50	0.00	103.70	-999.00	-999.00	-999.00	15.80	0.00	96.40	96.20	13.60	0.00	-999.00	-999.00	
3	1.60	0.00	103.50	-999.00	-999.00	-999.00	14.10	0.00	96.20	97.40	13.60	0.00	-999.00	-999.00	
4	1.50	0.00	103.50	-999.00	-999.00	-999.00	14.10	0.00	96.30	97.00	13.60	0.00	-999.00	-999.00	
5	1.50	0.00	103.60	-999.00	-999.00	-999.00	14.30	0.00	96.30	96.60	13.60	0.00	-999.00	-999.00	
6	1.60	0.00	103.60	-999.00	-999.00	-999.00	14.20	0.00	96.10	96.30	15.00	0.00	-999.00	-999.00	
7	1.50	0.00	103.60	-999.00	-999.00	-999.00	14.20	0.00	96.10	96.20	13.60	0.00	-999.00	-999.00	
8	1.60	0.00	104.10	-999.00	-999.00	-999.00	14.50	0.00	96.20	96.10	13.40	0.00	-999.00	-999.00	
9	1.50	0.00	104.50	-999.00	-999.00	-999.00	14.20	0.00	96.30	96.20	13.40	0.00	-999.00	-999.00	
10	1.50	0.00	105.00	-999.00	-999.00	-999.00	14.20	0.00	96.40	96.30	13.40	0.00	-999.00	-999.00	
11	1.60	0.00	105.40	-999.00	-999.00	-999.00	14.20	0.00	96.40	96.30	13.80	0.00	-999.00	-999.00	
12	1.50	0.00	105.70	-999.00	-999.00	-999.00	14.20	0.00	96.50	96.30	13.60	0.00	-999.00	-999.00	
13	1.60	0.00	105.80	-999.00	-999.00	-999.00	14.20	0.00	96.50	96.30	13.50	0.00	-999.00	-999.00	
14	1.50	0.00	105.70	-999.00	-999.00	-999.00	14.20	0.00	96.60	96.40	13.50	0.00	-999.00	-999.00	
15	1.50	0.00	105.30	-999.00	-999.00	-999.00	14.50	0.00	96.60	96.40	13.80	0.00	-999.00	-999.00	
16	1.60	0.00	105.10	-999.00	-999.00	-999.00	14.20	0.00	96.60	96.40	13.60	0.00	-999.00	-999.00	
17	1.50	0.00	104.60	-999.00	-999.00	-999.00	14.20	0.00	96.50	96.50	15.10	0.00	-999.00	-999.00	
18	1.60	0.00	104.20	-999.00	-999.00	-999.00	14.20	0.00	96.50	96.50	13.50	0.00	-999.00	-999.00	
19	1.50	0.00	104.00	-999.00	-999.00	-999.00	14.40	0.00	96.60	96.50	13.60	0.00	-999.00	-999.00	
20	1.50	0.00	104.00	-999.00	-999.00	-999.00	18.40	0.00	96.60	96.50	18.60	0.00	-999.00	-999.00	
21	1.60	0.00	103.80	-999.00	-999.00	-999.00	17.90	0.00	96.60	96.70	19.20	0.00	-999.00	-999.00	
22	1.50	0.00	103.80	-999.00	-999.00	-999.00	16.30	0.00	96.60	97.10	14.50	0.00	-999.00	-999.00	
23	1.50	0.00	103.80	-999.00	-999.00	-999.00	14.30	0.00	96.60	97.90	14.30	0.00	-999.00	-999.00	
24	1.60	0.00	103.90	-999.00	-999.00	-999.00	14.30	0.00	96.50	97.30	14.20	0.00	-999.00	-999.00	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB	MCNARY	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	PASCO	
1	13.70	0.00	-999.00	-999.00	11.70	0.00	94.00	95.20	0.00	96.70	97.00	96.50	0.00	97.90	
2	13.30	0.00	-999.00	-999.00	10.70	0.00	94.00	95.00	0.00	96.60	97.00	96.50	0.00	97.80	
3	13.50	0.00	-999.00	-999.00	12.20	0.00	94.20	95.10	0.00	96.70	96.90	96.70	0.00	97.60	
4	13.80	0.00	-999.00	-999.00	10.70	0.00	94.10	95.10	0.00	96.70	96.90	96.90	0.00	97.30	
5	13.60	0.00	-999.00	-999.00	10.70	0.00	94.10	95.30	0.00	96.60	96.80	96.80	0.00	97.00	
6	13.40	0.00	-999.00	-999.00	10.70	0.00	94.10	95.50	0.00	96.60	96.70	97.00	0.00	96.80	
7	13.40	0.00	-999.00	-999.00	10.70	0.00	94.00	95.40	0.00	96.40	96.60	96.90	0.00	96.50	
8	13.40	0.00	-999.00	-999.00	12.60	0.00	94.00	96.40	0.00	96.50	96.50	96.90	0.00	96.30	
9	13.60	0.00	-999.00	-999.00	14.10	0.00	94.10	96.00	0.00	96.50	96.60	96.70	0.00	96.20	
10	13.40	0.00	-999.00	-999.00	12.90	0.00	94.10	96.00	0.00	96.70	96.70	96.90	0.00	96.30	
11	13.50	0.00	-999.00	-999.00	12.60	0.00	94.20	96.20	0.00	96.80	96.80	96.90	0.00	96.40	
12	13.50	0.00	-999.00	-999.00	12.60	0.00	94.30	96.30	0.00	96.90	97.00	97.20	0.00	96.60	
13	13.50	0.00	-999.00	-999.00	12.60	0.00	94.30	96.70	0.00	97.00	97.00	97.30	0.00	96.60	
14	13.70	0.00	-999.00	-999.00	12.60	0.00	94.40	97.20	0.00	97.10	97.10	97.30	0.00	96.90	
15	15.00	0.00	-999.00	-999.00	14.10	0.00	94.50	96.80	0.00	97.10	97.10	97.20	0.00	97.00	
16	13.50	0.00	-999.00	-999.00	12.80	0.00	94.50	96.60	0.00	97.30	97.20	97.30	0.00	97.10	
17	13.60	0.00	-999.00	-999.00	12.60	0.00	94.60	96.50	0.00	97.20	97.20	97.20	0.00	97.40	
18	13.50	0.00	-999.00	-999.00	14.00	0.00	94.50	96.40	0.00	97.10	97.10	97.10	0.00	97.50	
19	13.50	0.00	-999.00	-999.00	13.10	0.00	94.50	96.30	0.00	97.10	97.10	97.30	0.00	97.70	
20	18.30	0.00	-999.00	-999.00	19.70	0.00	94.50	97.00	0.00	97.00	96.80	97.10	0.00	97.80	
21	18.80	0.00	-999.00	-999.00	19.90	0.00	94.40	96.70	0.00	97.00	96.80	96.60	0.00	97.70	
22	14.40	0.00	-999.00	-999.00	19.60	0.00	94.40	97.20	0.00	96.70	96.50	97.00	0.00	97.80	
23	15.80	0.00	-999.00	-999.00	13.10	0.00	94.40	96.50	0.00	96.70	96.60	97.10	0.00	97.70	
24	14.30	0.00	-999.00	-999.00	10.40	0.00	94.30	95.90	0.00	96.70	96.50	96.90	0.00	97.60	

28 OCT 2002

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

28 OCT 2002

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	LOWER GRANITE	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.		
1	1.50	0.00	104.00	-999.00	-999.00	-999.00	14.30	0.00	96.50	96.50	15.80	0.00	-999.00	-999.00	
2	1.60	0.00	103.90	-999.00	-999.00	-999.00	14.30	0.00	96.50	96.40	14.50	0.00	-999.00	-999.00	
3	1.50	0.00	103.40	-999.00	-999.00	-999.00	16.10	0.00	96.40	96.20	14.30	0.00	-999.00	-999.00	
4	1.50	0.00	102.70	-999.00	-999.00	-999.00	14.40	0.00	96.30	96.80	14.30	0.00	-999.00	-999.00	
5	1.60	0.00	102.60	-999.00	-999.00	-999.00	14.60	0.00	96.30	96.60	14.30	0.00	-999.00	-999.00	
6	1.50	0.00	102.50	-999.00	-999.00	-999.00	14.20	0.00	96.20	96.30	16.10	0.00	-999.00	-999.00	
7	1.50	0.00	102.40	-999.00	-999.00	-999.00	14.10	0.00	96.20	96.10	14.30	0.00	-999.00	-999.00	
8	1.60	0.00	102.80	-999.00	-999.00	-999.00	14.10	0.00	96.20	96.20	12.70	0.00	-999.00	-999.00	
9	1.50	0.00	103.30	-999.00	-999.00	-999.00	14.00	0.00	96.00	96.30	12.80	0.00	-999.00	-999.00	
10	1.60	0.00	103.70	-999.00	-999.00	-999.00	14.10	0.00	96.10	96.30	12.80	0.00	-999.00	-999.00	
11	1.50	0.00	104.20	-999.00	-999.00	-999.00	14.40	0.00	96.10	96.30	13.00	0.00	-999.00	-999.00	
12	1.60	0.00	104.40	-999.00	-999.00	-999.00	18.60	0.00	96.30	97.50	12.80	0.00	-999.00	-999.00	
13	1.50	0.00	104.60	-999.00	-999.00	-999.00	17.00	0.00	96.50	96.60	14.80	0.00	-999.00	-999.00	
14	1.50	0.00	104.30	-999.00	-999.00	-999.00	16.90	0.00	96.60	96.50	14.90	0.00	-999.00	-999.00	
15	1.60	0.00	103.80	-999.00	-999.00	-999.00	14.30	0.00	96.70	96.50	12.80	0.00	-999.00	-999.00	
16	1.50	0.00	103.20	-999.00	-999.00	-999.00	14.10	0.00	96.80	96.50	12.90	0.00	-999.00	-999.00	
17	1.60	0.00	102.90	-999.00	-999.00	-999.00	14.60	0.00	96.80	96.40	12.80	0.00	-999.00	-999.00	
18	1.50	0.00	102.60	-999.00	-999.00	-999.00	14.30	0.00	96.60	96.40	12.70	0.00	-999.00	-999.00	
19	1.50	0.00	102.60	-999.00	-999.00	-999.00	16.90	0.00	96.60	96.40	15.50	0.00	-999.00	-999.00	
20	1.60	0.00	102.60	-999.00	-999.00	-999.00	20.30	0.00	96.60	96.50	14.50	0.00	-999.00	-999.00	
21	1.50	0.00	102.50	-999.00	-999.00	-999.00	18.20	0.00	96.80	96.70	20.20	0.00	-999.00	-999.00	
22	1.60	0.00	102.50	-999.00	-999.00	-999.00	17.20	0.00	96.80	97.60	20.60	0.00	-999.00	-999.00	
23	1.50	0.00	102.60	-999.00	-999.00	-999.00	14.10	0.00	96.60	96.90	13.70	0.00	-999.00	-999.00	
24	1.50	0.00	102.40	-999.00	-999.00	-999.00	14.20	0.00	96.60	97.00	13.30	0.00	-999.00	-999.00	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB	WA TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB	GAS % SAT	
1	14.30	0.00	-999.00	-999.00	10.30	0.00	94.30	95.50	0.00	96.60	96.40	96.90	0.00	97.20	
2	14.30	0.00	-999.00	-999.00	10.40	0.00	94.20	95.40	0.00	96.70	96.40	96.70	0.00	97.10	
3	14.60	0.00	-999.00	-999.00	11.80	0.00	94.20	95.40	0.00	96.50	96.30	96.60	0.00	96.90	
4	14.30	0.00	-999.00	-999.00	11.80	0.00	94.30	95.40	0.00	96.30	96.20	96.50	0.00	96.60	
5	14.40	0.00	-999.00	-999.00	11.70	0.00	94.20	95.50	0.00	96.10	96.20	96.30	0.00	96.20	
6	14.50	0.00	-999.00	-999.00	11.80	0.00	94.20	95.60	0.00	96.30	96.10	96.50	0.00	96.10	
7	14.50	0.00	-999.00	-999.00	12.80	0.00	94.10	95.60	0.00	96.30	96.10	96.40	0.00	95.90	
8	13.90	0.00	-999.00	-999.00	12.60	0.00	94.00	95.70	0.00	96.30	96.10	96.40	0.00	95.90	
9	14.20	0.00	-999.00	-999.00	12.70	0.00	94.00	96.10	0.00	96.40	96.10	96.50	0.00	96.00	
10	13.80	0.00	-999.00	-999.00	12.80	0.00	94.10	96.00	0.00	96.70	96.10	96.70	0.00	96.00	
11	13.80	0.00	-999.00	-999.00	14.70	0.00	94.10	96.30	0.00	97.30	96.30	96.90	0.00	96.00	
12	13.70	0.00	-999.00	-999.00	13.00	0.00	94.20	96.60	0.00	97.60	96.40	97.20	0.00	96.30	
13	13.70	0.00	-999.00	-999.00	12.80	0.00	94.30	97.10	0.00	97.80	96.50	97.30	0.00	96.60	
14	13.80	0.00	-999.00	-999.00	12.80	0.00	94.20	97.00	0.00	98.10	96.60	97.20	0.00	96.80	
15	14.00	0.00	-999.00	-999.00	12.90	0.00	94.20	97.30	0.00	98.50	96.60	97.10	0.00	97.00	
16	15.30	0.00	-999.00	-999.00	14.20	0.00	94.30	97.70	0.00	98.60	96.70	97.00	0.00	97.10	
17	13.80	0.00	-999.00	-999.00	12.50	0.00	94.40	97.20	0.00	98.30	96.70	96.90	0.00	97.30	
18	13.80	0.00	-999.00	-999.00	13.90	0.00	94.30	96.80	0.00	98.30	96.70	96.90	0.00	97.50	
19	13.70	0.00	-999.00	-999.00	14.40	0.00	94.50	96.50	0.00	98.30	96.70	96.80	0.00	97.50	
20	13.80	0.00	-999.00	-999.00	12.70	0.00	94.30	97.00	0.00	98.30	96.70	96.80	0.00	97.60	
21	20.80	0.00	-999.00	-999.00	13.60	0.00	94.30	96.50	0.00	97.70	96.60	96.90	0.00	97.70	
22	21.90	0.00	-999.00	-999.00	19.30	0.00	94.40	96.90	0.40	97.30	96.50	96.70	0.00	97.80	
23	14.20	0.00	-999.00	-999.00	19.50	0.00	94.30	96.90	0.10	97.30	96.40	96.60	0.00	97.90	
24	14.00	0.00	-999.00	-999.00	22.60	0.00	94.20	96.40	0.00	97.20	96.30	96.90	0.00	97.90	

29 OCT 2002

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

29 OCT 2002

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.			
1	1.60	0.00	102.40	-999.00	-999.00	-999.00	14.00	0.00	96.60	96.60	13.60	0.00	-999.00	-999.00	
2	1.50	0.00	102.50	-999.00	-999.00	-999.00	14.10	0.00	96.60	96.40	13.50	0.00	-999.00	-999.00	
3	1.50	0.00	102.50	-999.00	-999.00	-999.00	16.90	0.00	96.60	96.40	17.10	0.00	-999.00	-999.00	
4	1.60	0.00	102.50	-999.00	-999.00	-999.00	15.80	0.00	96.40	97.00	13.50	0.00	-999.00	-999.00	
5	1.50	0.00	102.40	-999.00	-999.00	-999.00	14.40	0.00	96.40	97.00	13.60	0.00	-999.00	-999.00	
6	1.60	0.00	102.20	-999.00	-999.00	-999.00	14.10	0.00	96.40	96.50	15.10	0.00	-999.00	-999.00	
7	1.50	0.00	102.10	-999.00	-999.00	-999.00	20.00	0.00	96.30	96.30	21.30	0.00	-999.00	-999.00	
8	1.50	0.00	102.70	-999.00	-999.00	-999.00	16.50	0.00	96.30	96.20	18.80	0.00	-999.00	-999.00	
9	1.60	0.00	103.90	-999.00	-999.00	-999.00	16.30	0.00	96.20	96.00	18.70	0.00	-999.00	-999.00	
10	1.50	0.00	104.10	-999.00	-999.00	-999.00	16.40	0.00	96.20	95.90	19.00	0.00	-999.00	-999.00	
11	1.50	0.00	104.20	-999.00	-999.00	-999.00	15.70	0.00	96.10	95.90	17.00	0.00	-999.00	-999.00	
12	1.60	0.00	104.20	-999.00	-999.00	-999.00	12.60	0.00	96.10	95.90	14.60	0.00	-999.00	-999.00	
13	1.50	0.00	104.20	-999.00	-999.00	-999.00	12.40	0.00	96.00	95.80	12.70	0.00	-999.00	-999.00	
14	1.60	0.00	104.30	-999.00	-999.00	-999.00	12.60	0.00	95.90	95.80	12.90	0.00	-999.00	-999.00	
15	1.50	0.00	104.10	-999.00	-999.00	-999.00	12.40	0.00	95.90	95.80	14.10	0.00	-999.00	-999.00	
16	1.50	0.00	103.70	-999.00	-999.00	-999.00	12.40	0.00	96.00	95.80	12.60	0.00	-999.00	-999.00	
17	1.60	0.00	103.20	-999.00	-999.00	-999.00	16.00	0.00	95.80	95.70	12.80	0.00	-999.00	-999.00	
18	1.50	0.00	102.80	-999.00	-999.00	-999.00	21.10	0.00	95.70	95.90	17.60	0.00	-999.00	-999.00	
19	1.60	0.00	102.80	-999.00	-999.00	-999.00	22.40	0.00	95.70	95.60	26.00	0.00	-999.00	-999.00	
20	1.50	0.00	102.60	-999.00	-999.00	-999.00	23.70	0.00	95.70	95.90	26.20	0.00	-999.00	-999.00	
21	1.60	0.00	102.60	-999.00	-999.00	-999.00	17.50	0.00	95.50	97.80	29.10	0.00	-999.00	-999.00	
22	1.50	0.00	102.40	-999.00	-999.00	-999.00	18.50	0.00	95.50	95.90	17.60	0.00	-999.00	-999.00	
23	1.50	0.00	102.40	-999.00	-999.00	-999.00	14.10	0.00	95.50	96.60	15.00	0.00	-999.00	-999.00	
24	1.60	0.00	102.30	-999.00	-999.00	-999.00	14.00	0.00	95.30	96.50	13.30	0.00	-999.00	-999.00	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.			
1	14.10	0.00	-999.00	-999.00	13.70	0.00	94.10	95.80	69.00	0.00	96.90	96.20	97.00	:	97.90
2	14.20	0.00	-999.00	-999.00	14.10	0.00	94.10	95.70	81.40	0.00	97.00	96.70	96.90	:	97.90
3	17.20	0.00	-999.00	-999.00	12.40	0.00	94.20	95.70	62.50	0.00	97.10	96.80	96.70	:	97.90
4	13.90	0.00	-999.00	-999.00	12.50	0.00	94.10	95.50	66.00	0.00	96.80	96.70	96.50	:	97.70
5	13.40	0.00	-999.00	-999.00	12.40	0.00	94.30	95.60	89.70	0.00	96.70	96.70	96.50	:	97.60
6	13.70	0.00	-999.00	-999.00	12.60	0.00	94.50	95.60	121.30	0.00	96.60	96.60	96.70	:	97.40
7	19.20	0.00	-999.00	-999.00	19.60	0.00	94.60	96.50	140.10	0.00	96.50	96.50	96.50	:	97.20
8	18.50	0.00	-999.00	-999.00	19.90	0.00	94.50	95.90	141.90	0.00	96.50	96.40	96.30	:	97.00
9	27.30	0.00	-999.00	-999.00	19.70	0.00	94.70	96.10	141.70	0.00	96.40	96.30	96.30	:	96.80
10	26.60	0.00	-999.00	-999.00	24.00	0.00	94.60	95.60	140.70	0.00	96.30	96.20	96.30	:	96.60
11	25.40	0.00	-999.00	-999.00	24.20	0.00	94.70	95.40	97.20	0.00	96.30	96.30	96.30	:	96.40
12	20.00	0.00	-999.00	-999.00	24.20	0.00	94.70	95.50	94.40	0.00	96.20	96.30	96.50	:	96.20
13	13.80	0.00	-999.00	-999.00	24.20	0.00	94.70	95.40	89.20	0.00	96.20	96.30	96.70	:	96.20
14	13.80	0.00	-999.00	-999.00	22.10	0.00	94.60	95.40	79.60	0.00	96.20	96.10	96.40	:	96.20
15	13.80	0.00	-999.00	-999.00	17.10	0.00	94.50	95.40	87.20	0.00	96.20	96.10	96.20	:	96.00
16	14.10	0.00	-999.00	-999.00	12.30	0.00	94.40	95.40	84.00	0.00	96.20	96.20	96.00	:	96.00
17	13.80	0.00	-999.00	-999.00	12.40	0.00	94.20	95.20	102.30	1.00	96.10	96.00	95.90	:	95.80
18	14.00	0.00	-999.00	-999.00	13.20	0.00	94.20	95.20	128.60	1.00	96.10	96.00	95.90	:	95.80
19	21.50	0.00	-999.00	-999.00	20.80	0.00	94.10	96.20	129.80	1.00	96.10	96.00	95.90	:	95.60
20	26.00	0.00	-999.00	-999.00	24.60	0.00	94.20	95.90	127.20	1.00	96.10	96.00	95.90	:	95.50
21	25.90	0.00	-999.00	-999.00	24.20	0.00	94.30	95.50	127.00	1.00	96.10	96.00	96.00	:	95.30
22	17.70	0.00	-999.00	-999.00	19.80	0.00	94.30	95.10	127.20	1.00	96.10	96.00	95.90	:	95.30
23	14.20	0.00	-999.00	-999.00	13.10	0.00	94.50	95.10	106.70	1.00	96.00	95.80	95.90	:	95.10
24	15.40	0.00	-999.00	-999.00	12.10	0.00	94.60	94.90	94.90	1.00	96.00	95.80	95.70	:	95.00

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**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

30 OCT 2002

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	LOWER GRANITE	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.		
1	1.50	0.00	102.00	-999.00	-999.00	-999.00	14.30	0.00	95.40	96.10	13.30	0.00	-999.00	-999.00	
2	1.60	0.00	101.60	-999.00	-999.00	-999.00	14.00	0.00	95.40	95.40	13.50	0.00	-999.00	-999.00	
3	1.50	0.00	101.30	-999.00	-999.00	-999.00	14.00	0.00	95.20	95.30	13.40	0.00	-999.00	-999.00	
4	1.60	0.00	101.20	-999.00	-999.00	-999.00	14.00	0.00	95.20	95.10	13.40	0.00	-999.00	-999.00	
5	1.50	0.00	101.10	-999.00	-999.00	-999.00	14.20	0.00	95.20	95.30	15.20	0.00	-999.00	-999.00	
6	1.60	0.00	101.00	-999.00	-999.00	-999.00	14.30	0.00	95.10	95.30	13.70	0.00	-999.00	-999.00	
7	1.50	0.00	101.00	-999.00	-999.00	-999.00	20.60	0.00	95.10	95.00	21.30	0.00	-999.00	-999.00	
8	1.60	0.00	101.20	-999.00	-999.00	-999.00	20.00	0.00	95.10	95.00	37.90	0.00	-999.00	-999.00	
9	1.50	0.00	101.80	-999.00	-999.00	-999.00	15.90	0.00	95.10	95.00	29.90	0.00	-999.00	-999.00	
10	1.50	0.00	101.90	-999.00	-999.00	-999.00	15.70	0.00	95.10	95.00	17.80	0.00	-999.00	-999.00	
11	1.60	0.00	102.00	-999.00	-999.00	-999.00	15.70	0.00	95.00	95.10	16.60	0.00	-999.00	-999.00	
12	1.50	0.00	102.30	-999.00	-999.00	-999.00	15.60	0.00	95.20	95.20	12.70	0.00	-999.00	-999.00	
13	1.60	0.00	102.60	-999.00	-999.00	-999.00	15.90	0.00	95.20	95.30	12.50	0.00	-999.00	-999.00	
14	1.50	0.00	102.70	-999.00	-999.00	-999.00	15.60	0.00	95.30	95.30	12.70	0.00	-999.00	-999.00	
15	1.60	0.00	102.60	-999.00	-999.00	-999.00	15.60	0.00	95.20	95.10	12.50	0.00	-999.00	-999.00	
16	1.50	0.00	102.30	-999.00	-999.00	-999.00	15.60	0.00	95.20	95.10	12.60	0.00	-999.00	-999.00	
17	1.60	0.00	101.70	-999.00	-999.00	-999.00	15.60	0.00	95.20	95.00	16.10	0.00	-999.00	-999.00	
18	1.50	0.00	101.30	-999.00	-999.00	-999.00	15.90	0.00	95.00	94.90	17.90	0.00	-999.00	-999.00	
19	1.50	0.00	101.00	-999.00	-999.00	-999.00	15.70	0.00	95.10	94.90	16.50	0.00	-999.00	-999.00	
20	1.60	0.00	100.80	-999.00	-999.00	-999.00	16.10	0.00	95.10	94.90	16.20	0.00	-999.00	-999.00	
21	1.50	0.00	100.60	-999.00	-999.00	-999.00	15.50	0.00	95.10	94.90	13.40	0.00	-999.00	-999.00	
22	1.60	0.00	100.50	-999.00	-999.00	-999.00	15.50	0.00	94.90	95.10	13.30	0.00	-999.00	-999.00	
23	1.50	0.00	100.50	-999.00	-999.00	-999.00	16.20	0.00	94.90	96.30	12.80	0.00	-999.00	-999.00	
24	1.60	0.00	100.60	-999.00	-999.00	-999.00	14.10	0.00	94.80	95.00	12.80	0.00	-999.00	-999.00	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB	WA TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB	GAS %SAT	
1	14.00	0.00	-999.00	-999.00	13.90	0.00	94.60	94.70	1.00	95.90	95.70	95.60	1.00	94.80	
2	13.90	0.00	-999.00	-999.00	12.10	0.00	94.50	94.70	0.20	95.80	95.70	95.60	0.20	94.80	
3	14.00	0.00	-999.00	-999.00	13.60	0.00	94.50	94.80	0.00	95.70	95.70	95.40	0.00	94.70	
4	14.00	0.00	-999.00	-999.00	12.20	0.00	94.30	94.90	0.00	95.70	95.50	95.40	0.00	94.60	
5	14.20	0.00	-999.00	-999.00	13.90	0.00	94.30	95.00	0.00	95.60	95.50	95.30	0.00	94.40	
6	14.20	0.00	-999.00	-999.00	12.30	0.00	94.00	95.10	0.00	95.50	95.40	95.30	0.00	94.20	
7	21.00	0.00	-999.00	-999.00	12.40	0.00	94.00	96.20	0.00	95.50	95.30	95.60	0.00	94.20	
8	39.30	0.00	-999.00	-999.00	27.40	0.00	93.90	95.60	0.00	95.40	95.30	95.50	0.00	94.40	
9	30.20	0.00	-999.00	-999.00	32.00	0.20	93.70	96.20	0.00	95.60	95.30	95.60	0.00	94.30	
10	30.80	0.00	-999.00	-999.00	32.10	0.00	93.80	96.40	0.00	95.60	95.30	95.60	0.00	94.20	
11	21.40	0.00	-999.00	-999.00	31.70	0.00	93.90	95.70	0.00	95.70	95.30	95.70	0.00	94.20	
12	15.60	0.00	-999.00	-999.00	21.00	0.00	93.90	95.60	0.00	95.80	95.20	95.80	0.00	94.40	
13	14.10	0.00	-999.00	-999.00	14.00	0.00	94.00	95.70	0.00	95.90	95.40	95.80	0.00	94.60	
14	14.10	0.00	-999.00	-999.00	13.40	0.00	94.10	95.80	0.00	96.10	95.30	95.90	0.00	94.90	
15	15.60	0.00	-999.00	-999.00	11.90	0.00	94.10	95.60	0.00	96.20	95.40	95.80	0.00	95.30	
16	14.20	0.00	-999.00	-999.00	11.80	0.00	94.10	95.50	0.00	96.20	95.30	95.80	0.00	95.70	
17	16.60	0.00	-999.00	-999.00	12.00	0.00	94.00	96.00	0.00	96.00	95.40	95.70	0.00	96.10	
18	16.80	0.00	-999.00	-999.00	13.40	0.00	93.90	96.20	0.00	95.60	95.30	95.50	0.00	96.50	
19	27.20	0.00	-999.00	-999.00	24.30	0.00	93.90	96.20	0.00	95.50	95.30	95.40	0.00	96.80	
20	27.50	0.00	-999.00	-999.00	24.50	0.00	94.00	95.50	0.00	95.40	95.20	95.40	0.00	96.90	
21	14.60	0.00	-999.00	-999.00	27.80	0.00	93.90	95.20	0.00	95.40	95.20	95.30	0.00	96.80	
22	13.80	0.00	-999.00	-999.00	24.10	0.00	93.90	94.90	0.00	94.70	95.30	95.10	0.00	96.80	
23	14.10	0.00	-999.00	-999.00	13.20	0.00	93.70	94.80	0.00	95.20	95.10	95.10	0.00	96.60	
24	13.80	0.00	-999.00	-999.00	12.00	0.00	93.70	94.60	0.00	95.10	95.00	94.90	0.00	96.20	

31 OCT 2002

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

31 OCT 2002

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB	%SAT. TAILW.	
1	1.50	0.00	100.50	-999.00	-999.00	-999.00	14.10	0.00	94.80	94.80	12.60	0.00	-999.00	-999.00	
2	1.60	0.00	100.50	-999.00	-999.00	-999.00	14.10	0.00	94.70	94.60	12.60	0.00	-999.00	-999.00	
3	1.50	0.00	100.70	-999.00	-999.00	-999.00	14.10	0.00	94.70	94.70	12.70	0.00	-999.00	-999.00	
4	1.60	0.00	100.50	-999.00	-999.00	-999.00	14.40	0.00	94.70	94.50	15.80	0.00	-999.00	-999.00	
5	1.50	0.00	100.50	-999.00	-999.00	-999.00	17.10	0.00	94.70	94.80	15.80	0.00	-999.00	-999.00	
6	1.50	0.00	100.50	-999.00	-999.00	-999.00	17.00	0.00	94.50	94.70	15.90	0.00	-999.00	-999.00	
7	1.60	0.00	100.50	-999.00	-999.00	-999.00	17.10	0.00	94.40	94.50	19.70	0.00	-999.00	-999.00	
8	1.50	0.00	100.60	-999.00	-999.00	-999.00	20.30	0.00	94.40	94.40	21.10	0.00	-999.00	-999.00	
9	1.60	0.00	101.10	-999.00	-999.00	-999.00	17.20	0.00	94.40	94.40	16.60	0.00	-999.00	-999.00	
10	1.50	0.00	101.20	-999.00	-999.00	-999.00	17.10	0.00	94.50	94.50	16.90	0.00	-999.00	-999.00	
11	1.60	0.00	101.50	-999.00	-999.00	-999.00	17.00	0.00	94.60	94.50	17.10	0.00	-999.00	-999.00	
12	1.50	0.00	101.80	-999.00	-999.00	-999.00	16.70	0.00	94.60	94.50	17.10	0.00	-999.00	-999.00	
13	1.60	0.00	102.20	-999.00	-999.00	-999.00	17.00	0.00	94.70	94.50	14.70	0.00	-999.00	-999.00	
14	1.50	0.00	102.20	-999.00	-999.00	-999.00	17.00	0.00	94.70	94.60	14.10	0.00	-999.00	-999.00	
15	1.60	0.00	102.10	-999.00	-999.00	-999.00	17.50	0.00	94.80	94.50	14.10	0.00	-999.00	-999.00	
16	1.50	0.00	101.80	-999.00	-999.00	-999.00	17.20	0.00	94.80	94.50	14.10	0.00	-999.00	-999.00	
17	1.50	0.00	101.20	-999.00	-999.00	-999.00	17.30	0.00	94.80	94.50	14.30	0.00	-999.00	-999.00	
18	1.60	0.00	100.70	-999.00	-999.00	-999.00	20.30	0.00	94.80	94.40	20.30	0.00	-999.00	-999.00	
19	1.50	0.00	100.40	-999.00	-999.00	-999.00	20.40	0.00	94.60	94.40	20.50	0.00	-999.00	-999.00	
20	1.60	0.00	100.40	-999.00	-999.00	-999.00	23.70	0.00	94.60	94.90	21.80	0.00	-999.00	-999.00	
21	1.50	0.00	100.40	-999.00	-999.00	-999.00	18.20	0.00	94.60	95.60	20.40	0.00	-999.00	-999.00	
22	1.60	0.00	100.50	-999.00	-999.00	-999.00	15.70	0.00	94.40	94.90	20.40	0.00	-999.00	-999.00	
23	1.50	0.00	100.40	-999.00	-999.00	-999.00	14.30	0.00	94.40	94.90	13.40	0.00	-999.00	-999.00	
24	1.60	0.00	100.40	-999.00	-999.00	-999.00	14.30	0.00	94.40	94.60	13.10	0.00	-999.00	-999.00	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. OR FB	WA TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB	%SAT	
1	13.80	0.00	-999.00 -999.00	12.10	0.00	93.70 94.60	85.70	0.00	95.20	95.00	94.90	0.00	96.10		
2	13.80	0.00	-999.00 -999.00	12.10	0.00	93.60 94.40	85.90	0.00	95.20	95.10	94.90	0.00	95.90		
3	13.80	0.00	-999.00 -999.00	12.30	0.00	93.70 94.30	86.60	0.00	95.00	95.00	94.80	0.00	95.60		
4	13.80	0.00	-999.00 -999.00	12.10	0.00	93.60 94.50	100.70	0.00	95.00	94.90	94.80	0.00	95.40		
5	13.90	0.00	-999.00 -999.00	12.10	0.00	93.60 94.60	146.10	0.00	94.70	94.70	94.80	0.00	95.00		
6	14.10	0.00	-999.00 -999.00	12.10	0.00	93.50 94.50	149.10	0.00	94.90	94.60	94.90	0.00	94.90		
7	13.90	0.00	-999.00 -999.00	12.20	0.00	93.30 94.50	148.80	0.00	94.90	94.50	94.80	0.00	94.70		
8	20.60	0.00	-999.00 -999.00	18.80	0.00	93.20 94.60	149.00	0.00	94.60	94.30	94.70	0.00	94.60		
9	16.10	0.00	-999.00 -999.00	19.90	0.00	93.20 94.70	148.80	0.00	94.80	94.10	94.80	0.00	94.60		
10	16.50	0.00	-999.00 -999.00	19.70	0.00	93.20 94.90	148.80	0.00	94.90	94.10	94.90	0.00	94.70		
11	16.70	0.00	-999.00 -999.00	19.80	0.00	93.20 95.20	148.90	0.00	95.10	94.30	95.00	0.00	94.70		
12	16.80	0.00	-999.00 -999.00	19.80	0.00	93.20 95.30	148.60	0.00	95.20	94.30	95.10	0.00	94.90		
13	13.60	0.00	-999.00 -999.00	14.20	0.00	93.20 95.40	148.80	0.00	95.50	94.50	95.10	0.00	95.20		
14	13.50	0.00	-999.00 -999.00	12.00	0.00	93.20 95.70	148.70	0.00	95.60	94.60	95.10	0.00	95.50		
15	13.50	0.00	-999.00 -999.00	11.90	0.00	93.40 95.40	148.50	0.00	95.50	94.70	95.20	0.00	95.80		
16	13.50	0.00	-999.00 -999.00	12.10	0.00	93.30 95.20	148.70	0.00	95.30	95.00	95.20	0.00	96.10		
17	15.20	0.00	-999.00 -999.00	11.80	0.00	93.30 95.20	148.70	0.00	95.10	95.10	95.40	0.00	96.40		
18	20.50	0.00	-999.00 -999.00	11.80	0.00	93.20 95.80	146.40	0.00	95.10	95.10	95.30	0.00	96.50		
19	20.70	0.00	-999.00 -999.00	13.30	0.00	93.30 95.30	147.80	0.00	95.10	95.10	95.10	0.00	96.50		
20	20.60	0.00	-999.00 -999.00	11.90	0.00	93.20 94.90	149.00	0.00	95.00	94.90	95.00	0.00	96.50		
21	20.60	0.00	-999.00 -999.00	12.40	0.00	93.20 94.60	150.20	0.00	94.90	94.90	94.90	0.00	96.40		
22	18.30	0.00	-999.00 -999.00	14.20	0.00	93.20 94.60	148.90	0.00	94.90	94.90	94.90	0.00	96.30		
23	15.40	0.00	-999.00 -999.00	12.40	0.00	93.10 95.40	118.80	0.00	94.80	94.80	94.70	0.00	96.10		
24	13.90	0.00	-999.00 -999.00	12.30	0.00	93.10 94.80	111.30	0.00	94.70	94.80	94.70	0.00	95.90		

01 NOV 2002

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

01 NOV 2002

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	LITTLE GOOSE	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.		
1	1.50	0.00	100.40	-999.00	-999.00	-999.00	14.30	0.00	94.40	94.40	13.20	0.00	-999.00	-999.00	
2	1.50	0.00	100.40	-999.00	-999.00	-999.00	14.20	0.00	94.40	94.40	14.20	0.00	-999.00	-999.00	
3	1.60	0.00	100.40	-999.00	-999.00	-999.00	16.20	0.00	94.50	95.70	12.90	0.00	-999.00	-999.00	
4	1.50	0.00	100.40	-999.00	-999.00	-999.00	14.30	0.00	94.40	94.80	12.70	0.00	-999.00	-999.00	
5	1.60	0.00	100.40	-999.00	-999.00	-999.00	14.30	0.00	94.50	94.50	12.70	0.00	-999.00	-999.00	
6	1.50	0.00	100.50	-999.00	-999.00	-999.00	12.90	0.00	94.50	94.80	12.70	0.00	-999.00	-999.00	
7	1.60	0.00	100.60	-999.00	-999.00	-999.00	12.90	0.00	94.50	94.50	14.50	0.00	-999.00	-999.00	
8	1.50	0.00	100.70	-999.00	-999.00	-999.00	14.20	0.00	94.50	94.40	14.10	0.00	-999.00	-999.00	
9	1.60	0.00	101.20	-999.00	-999.00	-999.00	14.10	0.00	94.40	94.40	14.00	0.00	-999.00	-999.00	
10	1.50	0.00	101.40	-999.00	-999.00	-999.00	15.70	0.00	94.50	94.50	14.00	0.00	-999.00	-999.00	
11	1.60	0.00	101.70	-999.00	-999.00	-999.00	14.10	0.00	94.60	95.40	14.10	0.00	-999.00	-999.00	
12	1.50	0.00	102.10	-999.00	-999.00	-999.00	14.10	0.00	94.70	94.90	14.40	0.00	-999.00	-999.00	
13	1.50	0.00	102.40	-999.00	-999.00	-999.00	14.10	0.00	94.90	94.80	14.10	0.00	-999.00	-999.00	
14	1.60	0.00	102.60	-999.00	-999.00	-999.00	14.40	0.00	95.00	94.90	14.10	0.00	-999.00	-999.00	
15	1.50	0.00	102.50	-999.00	-999.00	-999.00	14.10	0.00	95.00	94.90	14.10	0.00	-999.00	-999.00	
16	1.60	0.00	102.20	-999.00	-999.00	-999.00	14.10	0.00	95.00	94.90	14.10	0.00	-999.00	-999.00	
17	1.50	0.00	101.60	-999.00	-999.00	-999.00	15.50	0.00	95.00	94.80	14.50	0.00	-999.00	-999.00	
18	1.60	0.00	101.20	-999.00	-999.00	-999.00	15.60	0.00	95.00	94.80	14.20	0.00	-999.00	-999.00	
19	1.50	0.00	101.00	-999.00	-999.00	-999.00	15.60	0.00	94.90	94.80	14.20	0.00	-999.00	-999.00	
20	1.60	0.00	100.90	-999.00	-999.00	-999.00	14.50	0.00	94.90	94.80	14.20	0.00	-999.00	-999.00	
21	1.50	0.00	100.90	-999.00	-999.00	-999.00	14.20	0.00	94.70	94.70	14.20	0.00	-999.00	-999.00	
22	1.60	0.00	101.00	-999.00	-999.00	-999.00	14.20	0.00	94.80	94.70	14.30	0.00	-999.00	-999.00	
23	1.50	0.00	101.00	-999.00	-999.00	-999.00	17.70	0.00	94.80	95.80	14.10	0.00	-999.00	-999.00	
24	1.50	0.00	100.90	-999.00	-999.00	-999.00	14.30	0.00	94.80	96.30	14.00	0.00	-999.00	-999.00	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB	PASCO	GAS %SAT				
1	15.50	0.00	-999.00	-999.00	12.40	0.00	93.10	94.60	94.60	94.70	95.70				
2	13.80	0.00	-999.00	-999.00	12.30	0.00	93.10	95.10	94.60	94.70	95.60				
3	13.90	0.00	-999.00	-999.00	12.40	0.00	93.10	95.00	94.80	94.70	95.50				
4	13.90	0.00	-999.00	-999.00	12.40	0.00	93.10	94.60	94.80	94.80	95.20				
5	13.80	0.00	-999.00	-999.00	12.40	0.00	93.10	94.30	94.60	94.80	95.00				
6	15.60	0.00	-999.00	-999.00	12.60	0.00	93.10	94.30	94.60	94.80	95.00				
7	13.90	0.00	-999.00	-999.00	12.50	0.00	93.00	94.40	94.60	94.70	94.80				
8	13.70	0.00	-999.00	-999.00	19.80	0.00	92.90	94.40	94.60	94.70	94.80				
9	13.80	0.00	-999.00	-999.00	19.50	0.00	93.00	94.90	94.70	94.70	94.80				
10	13.80	0.00	-999.00	-999.00	20.90	0.00	93.10	95.40	94.90	94.90	94.80				
11	13.80	0.00	-999.00	-999.00	19.90	0.00	93.20	95.90	95.20	94.50	94.90				
12	14.10	0.00	-999.00	-999.00	19.50	0.00	93.20	95.50	95.60	94.70	95.30				
13	13.80	0.00	-999.00	-999.00	19.50	0.00	93.40	96.30	96.00	94.80	95.60				
14	13.80	0.00	-999.00	-999.00	16.30	0.00	93.40	95.80	96.00	95.00	95.30				
15	13.80	0.00	-999.00	-999.00	12.60	0.00	93.50	95.40	96.00	95.10	95.40				
16	13.80	0.00	-999.00	-999.00	12.60	0.00	93.40	95.20	96.00	95.10	95.50				
17	13.70	0.00	-999.00	-999.00	12.80	0.00	93.50	95.00	95.50	95.20	95.50				
18	13.90	0.00	-999.00	-999.00	12.50	0.00	93.50	95.00	94.90	95.40	95.40				
19	13.60	0.00	-999.00	-999.00	12.70	0.00	93.40	95.00	94.90	95.30	95.50				
20	13.60	0.00	-999.00	-999.00	12.80	0.00	93.40	94.90	150.20	95.30	95.60				
21	13.60	0.00	-999.00	-999.00	12.80	0.00	93.40	95.00	150.10	95.40	95.60				
22	13.70	0.00	-999.00	-999.00	12.50	0.00	93.40	94.80	142.40	95.20	95.40				
23	13.70	0.00	-999.00	-999.00	12.70	0.00	93.30	94.80	131.50	95.20	95.30				
24	13.60	0.00	-999.00	-999.00	13.70	0.00	93.30	94.80	121.10	95.10	95.20				

02 NOV 2002

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

02 NOV 2002

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.			
1	1.60	0.00	100.90	-999.00	-999.00	-999.00	14.60	0.00	94.70	14.00	0.00	-999.00	-999.00		
2	1.50	0.00	101.10	-999.00	-999.00	-999.00	14.20	0.00	94.70	14.40	0.00	-999.00	-999.00		
3	1.60	0.00	101.10	-999.00	-999.00	-999.00	15.80	0.00	94.70	14.10	0.00	-999.00	-999.00		
4	1.50	0.00	101.10	-999.00	-999.00	-999.00	14.30	0.00	94.70	14.10	0.00	-999.00	-999.00		
5	1.50	0.00	101.10	-999.00	-999.00	-999.00	14.30	0.00	94.80	14.20	0.00	-999.00	-999.00		
6	1.50	0.00	101.10	-999.00	-999.00	-999.00	14.50	0.00	94.80	15.70	0.00	-999.00	-999.00		
7	1.60	0.00	100.90	-999.00	-999.00	-999.00	14.10	0.00	94.80	14.30	0.00	-999.00	-999.00		
8	1.50	0.00	101.10	-999.00	-999.00	-999.00	15.40	0.00	94.70	15.50	0.00	-999.00	-999.00		
9	1.60	0.00	101.50	-999.00	-999.00	-999.00	15.30	0.00	94.70	14.00	0.00	-999.00	-999.00		
10	1.50	0.00	101.70	-999.00	-999.00	-999.00	15.70	0.00	94.70	15.60	0.00	-999.00	-999.00		
11	1.50	0.00	101.90	-999.00	-999.00	-999.00	15.70	0.00	94.90	15.90	0.00	-999.00	-999.00		
12	1.60	0.00	102.20	-999.00	-999.00	-999.00	15.60	0.00	95.00	15.70	0.00	-999.00	-999.00		
13	1.50	0.00	102.40	-999.00	-999.00	-999.00	16.60	0.00	95.00	15.70	0.00	-999.00	-999.00		
14	1.60	0.00	102.60	-999.00	-999.00	-999.00	16.30	0.00	95.10	15.70	0.00	-999.00	-999.00		
15	1.50	0.00	102.50	-999.00	-999.00	-999.00	16.30	0.00	95.10	16.00	0.00	-999.00	-999.00		
16	1.60	0.00	102.20	-999.00	-999.00	-999.00	16.10	0.00	95.00	15.70	0.00	-999.00	-999.00		
17	1.50	0.00	101.60	-999.00	-999.00	-999.00	16.00	0.00	95.00	15.70	0.00	-999.00	-999.00		
18	1.60	0.00	101.20	-999.00	-999.00	-999.00	14.30	0.00	95.00	15.70	0.00	-999.00	-999.00		
19	1.50	0.00	101.00	-999.00	-999.00	-999.00	14.20	0.00	94.90	16.40	0.00	-999.00	-999.00		
20	1.60	0.00	100.90	-999.00	-999.00	-999.00	14.20	0.00	94.80	16.50	0.00	-999.00	-999.00		
21	1.50	0.00	100.80	-999.00	-999.00	-999.00	13.80	0.00	94.80	13.60	0.00	-999.00	-999.00		
22	1.60	0.00	100.70	-999.00	-999.00	-999.00	13.80	0.00	94.90	13.50	0.00	-999.00	-999.00		
23	1.50	0.00	100.70	-999.00	-999.00	-999.00	14.00	0.00	94.80	13.40	0.00	-999.00	-999.00		
24	1.60	0.00	100.50	-999.00	-999.00	-999.00	14.00	0.00	94.80	13.50	0.00	-999.00	-999.00		

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL OR FB	GAS %SAT. WA FB	TAILW.	GAS % SAT	
1	13.90	0.00	-999.00	-999.00	12.10	0.00	93.20	94.70	110.50	0.00	95.00	95.10	95.20	96.80	
2	13.70	0.00	-999.00	-999.00	12.10	0.00	93.30	94.70	109.70	0.00	95.00	95.10	95.00	96.50	
3	13.70	0.00	-999.00	-999.00	12.10	0.00	93.30	94.70	110.30	0.00	95.10	95.10	95.00	96.30	
4	13.80	0.00	-999.00	-999.00	12.10	0.00	93.30	95.10	125.80	0.00	95.00	95.00	95.10	96.00	
5	15.30	0.00	-999.00	-999.00	12.20	0.00	93.30	95.40	150.60	0.00	95.00	95.00	95.00	95.80	
6	13.80	0.00	-999.00	-999.00	12.00	0.00	93.20	94.80	156.20	0.00	94.80	95.00	95.00	95.70	
7	14.10	0.00	-999.00	-999.00	12.50	0.00	93.20	94.70	156.60	0.00	94.80	95.10	95.00	95.50	
8	13.90	0.00	-999.00	-999.00	12.20	0.00	93.20	94.60	159.50	0.00	94.70	95.00	94.90	95.30	
9	13.90	0.00	-999.00	-999.00	12.20	0.00	93.20	94.60	159.60	0.00	94.80	95.00	94.90	95.30	
10	14.40	0.00	-999.00	-999.00	12.30	0.00	93.20	94.80	159.20	0.00	95.10	95.10	95.10	95.30	
11	16.10	0.00	-999.00	-999.00	12.50	0.00	93.20	94.90	159.10	0.00	95.30	95.10	95.30	95.50	
12	15.70	0.00	-999.00	-999.00	12.40	0.00	93.20	95.40	159.00	0.00	95.50	95.30	95.40	95.70	
13	17.30	0.00	-999.00	-999.00	12.40	0.00	93.30	95.70	158.90	0.00	95.80	95.30	95.50	96.10	
14	15.80	0.00	-999.00	-999.00	13.90	0.00	93.40	95.90	159.10	0.00	95.90	95.20	95.50	96.60	
15	15.80	0.00	-999.00	-999.00	13.90	0.00	93.40	95.80	159.30	0.00	95.80	95.00	95.40	96.90	
16	17.40	0.00	-999.00	-999.00	12.30	0.00	93.40	95.60	159.90	0.00	95.60	95.10	95.40	97.20	
17	15.80	0.00	-999.00	-999.00	13.80	0.00	93.40	95.50	133.10	0.00	95.40	95.20	95.30	97.40	
18	16.20	0.00	-999.00	-999.00	15.20	0.00	93.40	96.00	121.00	0.00	95.50	95.10	95.20	97.60	
19	16.00	0.00	-999.00	-999.00	19.40	0.00	93.40	95.80	99.30	0.00	95.20	95.10	95.10	97.60	
20	15.90	0.00	-999.00	-999.00	19.50	0.00	93.40	95.90	67.20	0.00	95.00	95.10	95.00	97.60	
21	14.40	0.00	-999.00	-999.00	19.40	0.00	93.30	96.00	65.40	0.00	94.90	94.90	94.80	97.50	
22	14.30	0.00	-999.00	-999.00	12.90	0.00	93.30	94.90	65.50	0.00	94.80	95.00	94.80	97.40	
23	14.40	0.00	-999.00	-999.00	12.40	0.00	93.30	94.50	66.80	0.00	94.80	94.80	94.80	97.20	
24	14.90	0.00	-999.00	-999.00	12.60	0.00	93.20	94.40	79.90	0.00	94.80	94.80	94.90	97.00	

03 NOV 2002

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

03 NOV 2002

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	LOWER GRANITE	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.		
1	1.50	0.00	100.70	-999.00	-999.00	-999.00	14.30	0.00	94.80	94.60	13.70	0.00	-999.00	-999.00	
2	1.60	0.00	100.70	-999.00	-999.00	-999.00	14.00	0.00	94.80	94.40	13.50	0.00	-999.00	-999.00	
3	1.50	0.00	100.50	-999.00	-999.00	-999.00	15.70	0.00	94.80	95.70	13.40	0.00	-999.00	-999.00	
4	1.60	0.00	100.50	-999.00	-999.00	-999.00	14.00	0.00	94.80	94.80	13.40	0.00	-999.00	-999.00	
5	1.50	0.00	100.70	-999.00	-999.00	-999.00	14.20	0.00	94.80	94.70	13.60	0.00	-999.00	-999.00	
6	1.60	0.00	100.70	-999.00	-999.00	-999.00	14.30	0.00	94.80	94.90	14.90	0.00	-999.00	-999.00	
7	1.50	0.00	100.60	-999.00	-999.00	-999.00	14.10	0.00	94.80	94.80	13.50	0.00	-999.00	-999.00	
8	1.60	0.00	100.70	-999.00	-999.00	-999.00	13.90	0.00	94.80	94.70	13.60	0.00	-999.00	-999.00	
9	1.50	0.00	101.00	-999.00	-999.00	-999.00	13.90	0.00	94.80	94.80	13.50	0.00	-999.00	-999.00	
10	1.60	0.00	101.40	-999.00	-999.00	-999.00	13.80	0.00	95.00	94.90	13.50	0.00	-999.00	-999.00	
11	1.50	0.00	101.80	-999.00	-999.00	-999.00	12.50	0.00	95.10	95.00	13.50	0.00	-999.00	-999.00	
12	1.60	0.00	102.20	-999.00	-999.00	-999.00	12.60	0.00	95.10	95.00	13.20	0.00	-999.00	-999.00	
13	1.50	0.00	102.50	-999.00	-999.00	-999.00	12.40	0.00	95.30	95.20	12.70	0.00	-999.00	-999.00	
14	1.60	0.00	102.60	-999.00	-999.00	-999.00	12.40	0.00	95.40	95.30	12.60	0.00	-999.00	-999.00	
15	1.50	0.00	102.70	-999.00	-999.00	-999.00	12.30	0.00	95.50	95.20	12.60	0.00	-999.00	-999.00	
16	1.60	0.00	102.40	-999.00	-999.00	-999.00	12.40	0.00	95.50	95.30	12.80	0.00	-999.00	-999.00	
17	1.50	0.00	101.90	-999.00	-999.00	-999.00	12.60	0.00	95.60	95.40	12.60	0.00	-999.00	-999.00	
18	1.60	0.00	102.10	-999.00	-999.00	-999.00	12.40	0.00	95.60	95.40	12.60	0.00	-999.00	-999.00	
19	1.50	0.00	102.70	-999.00	-999.00	-999.00	12.40	0.00	95.60	95.40	12.60	0.00	-999.00	-999.00	
20	1.60	0.00	102.60	-999.00	-999.00	-999.00	12.40	0.00	95.60	95.40	12.60	0.00	-999.00	-999.00	
21	1.50	0.00	102.40	-999.00	-999.00	-999.00	12.40	0.00	95.50	95.30	12.80	0.00	-999.00	-999.00	
22	1.60	0.00	102.50	-999.00	-999.00	-999.00	12.50	0.00	95.50	95.30	12.60	0.00	-999.00	-999.00	
23	1.50	0.00	102.50	-999.00	-999.00	-999.00	12.30	0.00	95.50	95.30	12.60	0.00	-999.00	-999.00	
24	1.60	0.00	102.50	-999.00	-999.00	-999.00	12.50	0.00	95.40	95.30	14.10	0.00	-999.00	-999.00	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB	WA TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB	GAS %SAT	
1	14.50	0.00	-999.00	-999.00	12.40	0.00	93.20	94.40	0.00	94.70	94.80	94.90	0.00	96.80	
2	14.50	0.00	-999.00	-999.00	12.40	0.00	93.20	94.30	0.00	94.60	94.80	95.10	0.00	96.70	
3	14.50	0.00	-999.00	-999.00	12.30	0.00	93.20	94.40	0.00	94.60	94.70	95.00	0.00	96.40	
4	14.40	0.00	-999.00	-999.00	12.20	0.00	93.10	94.40	0.00	94.50	94.80	95.00	0.00	96.10	
5	13.80	0.00	-999.00	-999.00	10.80	0.00	93.10	94.30	0.00	94.50	94.80	94.90	0.00	95.80	
6	13.90	0.00	-999.00	-999.00	11.00	0.00	93.10	94.40	0.00	94.60	94.80	95.00	0.00	95.60	
7	13.80	0.00	-999.00	-999.00	12.40	0.00	93.10	94.40	0.00	94.70	94.80	95.00	0.00	95.40	
8	13.80	0.00	-999.00	-999.00	12.50	0.00	93.10	94.40	0.00	94.60	94.80	95.00	0.00	95.30	
9	13.80	0.00	-999.00	-999.00	12.50	0.00	93.20	94.60	0.00	94.60	94.80	95.10	0.00	95.20	
10	13.80	0.00	-999.00	-999.00	12.50	0.00	93.20	94.70	0.00	94.90	94.80	95.20	0.00	95.30	
11	13.90	0.00	-999.00	-999.00	12.50	0.00	93.30	94.90	0.00	95.40	95.00	95.40	0.00	95.50	
12	13.80	0.00	-999.00	-999.00	12.50	0.00	93.40	95.60	0.00	95.80	95.30	95.50	0.00	95.70	
13	14.00	0.00	-999.00	-999.00	12.70	0.00	93.60	95.90	0.00	96.10	95.40	95.60	0.00	96.10	
14	13.60	0.00	-999.00	-999.00	12.60	0.00	93.70	96.10	0.00	96.30	95.70	95.70	0.00	96.50	
15	13.70	0.00	-999.00	-999.00	12.70	0.00	93.80	96.10	0.00	96.50	96.00	95.80	0.00	97.10	
16	15.20	0.00	-999.00	-999.00	14.10	0.00	93.80	96.00	0.00	97.10	96.10	95.70	0.00	97.20	
17	13.80	0.00	-999.00	-999.00	12.50	0.00	93.90	95.90	0.00	97.80	96.30	96.20	0.00	97.40	
18	13.90	0.00	-999.00	-999.00	13.90	0.00	93.90	95.80	0.00	97.80	96.00	95.60	0.00	97.60	
19	14.10	0.00	-999.00	-999.00	12.70	0.00	93.90	95.60	0.00	97.60	96.20	95.70	0.00	97.70	
20	13.80	0.00	-999.00	-999.00	12.50	0.00	93.90	95.80	0.00	97.50	96.00	95.70	0.00	97.90	
21	15.10	0.00	-999.00	-999.00	13.80	0.00	93.90	95.90	0.00	97.10	96.00	95.70	0.00	97.80	
22	13.60	0.00	-999.00	-999.00	12.30	0.00	93.90	95.80	0.00	97.80	96.00	95.90	0.00	97.80	
23	15.20	0.00	-999.00	-999.00	12.20	0.00	93.90	95.90	0.00	97.80	95.70	95.90	0.00	97.70	
24	13.60	0.00	-999.00	-999.00	12.40	0.00	93.80	95.60	0.00	97.10	95.60	95.90	0.00	97.70	

04 NOV 2002

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

04 NOV 2002

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	LOWER GRANITE	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.		
1	1.50	0.00	102.70	-999.00	-999.00	-999.00	12.50	0.00	95.40	95.30	14.30	0.00	-999.00	-999.00	
2	1.60	0.00	102.70	-999.00	-999.00	-999.00	12.50	0.00	95.20	95.30	12.60	0.00	-999.00	-999.00	
3	1.50	0.00	102.50	-999.00	-999.00	-999.00	12.50	0.00	95.20	95.30	12.60	0.00	-999.00	-999.00	
4	1.60	0.00	102.60	-999.00	-999.00	-999.00	12.70	0.00	95.20	95.20	12.50	0.00	-999.00	-999.00	
5	1.60	0.00	102.40	-999.00	-999.00	-999.00	14.20	0.00	95.20	96.30	12.60	0.00	-999.00	-999.00	
6	1.60	0.00	102.50	-999.00	-999.00	-999.00	12.60	0.00	95.20	95.90	12.80	0.00	-999.00	-999.00	
7	1.50	0.00	102.70	-999.00	-999.00	-999.00	12.60	0.00	95.00	95.50	12.70	0.00	-999.00	-999.00	
8	1.60	0.00	102.90	-999.00	-999.00	-999.00	13.40	0.00	94.90	95.40	12.80	0.00	-999.00	-999.00	
9	1.80	0.00	102.90	-999.00	-999.00	-999.00	13.80	0.00	94.90	95.20	13.60	0.00	-999.00	-999.00	
10	1.30	0.00	102.90	-999.00	-999.00	-999.00	18.20	0.00	94.90	95.30	13.80	0.00	-999.00	-999.00	
11	1.50	0.00	103.10	-999.00	-999.00	-999.00	18.20	0.00	94.90	95.30	13.30	0.00	-999.00	-999.00	
12	1.60	0.00	103.60	-999.00	-999.00	-999.00	18.30	0.00	95.10	95.40	13.30	0.00	-999.00	-999.00	
13	1.40	0.00	104.00	-999.00	-999.00	-999.00	18.40	0.00	95.10	95.40	13.40	0.00	-999.00	-999.00	
14	1.50	0.00	104.50	-999.00	-999.00	-999.00	18.40	0.00	95.10	95.40	17.10	0.00	-999.00	-999.00	
15	1.40	0.00	105.00	-999.00	-999.00	-999.00	18.80	0.00	95.00	95.40	18.20	0.00	-999.00	-999.00	
16	1.50	0.00	104.90	-999.00	-999.00	-999.00	18.50	0.00	95.00	95.40	17.90	0.00	-999.00	-999.00	
17	1.50	0.00	104.70	-999.00	-999.00	-999.00	15.80	0.00	95.00	95.30	17.80	0.00	-999.00	-999.00	
18	1.50	0.00	104.50	-999.00	-999.00	-999.00	15.60	0.00	95.00	95.30	17.70	0.00	-999.00	-999.00	
19	1.50	0.00	104.10	-999.00	-999.00	-999.00	15.60	0.00	94.90	95.30	17.70	0.00	-999.00	-999.00	
20	1.50	0.00	104.10	-999.00	-999.00	-999.00	15.60	0.00	94.90	95.20	19.50	0.00	-999.00	-999.00	
21	1.50	0.00	104.00	-999.00	-999.00	-999.00	15.80	0.00	94.90	95.20	17.70	0.00	-999.00	-999.00	
22	1.50	0.00	104.00	-999.00	-999.00	-999.00	17.10	0.00	95.00	96.20	15.40	0.00	-999.00	-999.00	
23	1.50	0.00	103.90	-999.00	-999.00	-999.00	12.90	0.00	95.10	95.70	12.70	0.00	-999.00	-999.00	
24	1.50	0.00	104.00	-999.00	-999.00	-999.00	12.80	0.00	95.20	95.50	12.60	0.00	-999.00	-999.00	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB	WA TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB	GAS % SAT	
1	13.80	0.00	-999.00	-999.00	12.40	0.00	93.80	95.60	0.00	95.60	95.70	95.80	0.00	97.40	
2	13.60	0.00	-999.00	-999.00	12.60	0.00	93.80	95.80	0.00	95.60	95.80	95.70	0.00	97.30	
3	13.60	0.00	-999.00	-999.00	12.30	0.00	93.80	95.50	0.00	95.90	95.50	95.80	0.00	97.10	
4	13.60	0.00	-999.00	-999.00	9.40	0.00	93.80	95.20	0.00	95.50	95.60	95.70	0.00	96.80	
5	13.70	0.00	-999.00	-999.00	9.30	0.00	93.80	95.10	0.00	95.50	95.60	95.70	0.00	96.50	
6	13.80	0.00	-999.00	-999.00	12.20	0.00	93.80	95.00	0.00	95.30	95.60	95.70	0.00	96.20	
7	13.90	0.00	-999.00	-999.00	13.00	0.60	93.70	94.90	0.00	95.30	95.60	95.50	0.00	95.90	
8	13.80	0.00	-999.00	-999.00	14.60	1.90	93.70	94.90	0.00	95.20	95.40	95.40	0.00	95.70	
9	13.90	0.00	-999.00	-999.00	12.50	0.00	93.60	95.20	0.00	95.30	95.40	95.40	0.00	95.70	
10	13.90	0.00	-999.00	-999.00	12.70	0.20	93.70	95.20	0.00	95.70	95.30	95.50	0.00	95.80	
11	13.80	0.00	-999.00	-999.00	12.50	0.30	93.70	95.30	0.00	95.90	95.50	95.60	0.00	95.90	
12	13.80	0.00	-999.00	-999.00	13.90	0.00	93.80	95.80	0.00	96.20	95.50	95.70	0.00	96.10	
13	14.00	0.00	-999.00	-999.00	12.70	0.10	93.70	96.00	0.00	96.50	95.70	95.90	0.00	96.30	
14	13.70	0.00	-999.00	-999.00	12.70	0.20	93.70	95.80	0.00	96.60	95.70	95.90	0.00	96.60	
15	13.60	0.00	-999.00	-999.00	12.60	0.00	93.70	96.10	0.00	96.80	95.80	96.00	0.00	96.80	
16	13.60	0.00	-999.00	-999.00	12.60	0.00	93.70	96.30	0.00	96.90	95.90	95.90	0.00	97.00	
17	15.20	0.00	-999.00	-999.00	12.50	0.00	93.80	96.30	0.00	96.70	95.90	95.90	0.00	97.20	
18	17.60	0.00	-999.00	-999.00	15.20	0.00	93.80	96.00	0.00	96.40	95.90	95.70	0.00	97.30	
19	17.90	0.00	-999.00	-999.00	19.50	0.00	93.70	95.50	0.00	96.10	96.10	96.00	0.00	97.40	
20	18.10	0.00	-999.00	-999.00	19.50	0.00	93.70	95.40	0.00	96.30	96.00	95.90	0.00	97.40	
21	17.70	0.00	-999.00	-999.00	19.50	0.00	93.70	95.70	0.00	96.20	95.90	95.70	0.00	97.30	
22	17.80	0.00	-999.00	-999.00	19.60	0.00	93.80	95.30	0.00	96.50	95.50	95.90	0.00	97.20	
23	14.00	0.00	-999.00	-999.00	19.10	0.00	93.70	95.10	0.00	95.40	95.70	95.70	0.00	97.10	
24	13.90	0.00	-999.00	-999.00	12.40	0.00	93.70	94.80	0.00	95.40	95.70	95.60	0.00	96.90	

05 NOV 2002

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

05 NOV 2002

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	LOWER GRANITE	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.		
1	1.50	0.00	104.20	-999.00	-999.00	-999.00	12.80	0.00	95.20	95.30	12.90	0.00	-999.00	-999.00	
2	1.50	0.00	104.20	-999.00	-999.00	-999.00	12.70	0.00	95.30	95.20	12.70	0.00	-999.00	-999.00	
3	1.50	0.00	103.90	-999.00	-999.00	-999.00	13.00	0.00	95.30	95.40	12.70	0.00	-999.00	-999.00	
4	1.50	0.00	103.70	-999.00	-999.00	-999.00	16.10	0.00	95.30	96.10	12.70	0.00	-999.00	-999.00	
5	1.50	0.00	103.40	-999.00	-999.00	-999.00	12.70	0.00	95.30	95.80	14.50	0.00	-999.00	-999.00	
6	1.50	0.00	103.40	-999.00	-999.00	-999.00	14.20	0.00	95.30	95.20	12.70	0.00	-999.00	-999.00	
7	1.50	0.00	103.10	-999.00	-999.00	-999.00	15.50	0.00	95.30	95.20	14.30	0.00	-999.00	-999.00	
8	1.50	0.00	102.90	-999.00	-999.00	-999.00	16.20	0.00	95.20	95.20	16.70	0.00	-999.00	-999.00	
9	1.50	0.00	103.60	-999.00	-999.00	-999.00	16.30	0.00	95.30	95.20	15.30	0.00	-999.00	-999.00	
10	1.50	0.00	104.00	-999.00	-999.00	-999.00	16.50	0.00	95.40	95.20	15.50	0.00	-999.00	-999.00	
11	1.50	0.00	104.50	-999.00	-999.00	-999.00	16.20	0.00	95.40	95.20	15.80	0.00	-999.00	-999.00	
12	1.50	0.00	104.80	-999.00	-999.00	-999.00	17.00	0.00	95.50	95.20	15.90	0.00	-999.00	-999.00	
13	1.50	0.00	104.80	-999.00	-999.00	-999.00	16.80	0.00	95.60	95.40	17.50	0.00	-999.00	-999.00	
14	1.50	0.00	105.10	-999.00	-999.00	-999.00	14.40	0.00	95.60	95.50	16.00	0.00	-999.00	-999.00	
15	1.50	0.00	105.10	-999.00	-999.00	-999.00	14.30	0.00	95.70	95.50	16.30	0.00	-999.00	-999.00	
16	1.50	0.00	104.80	-999.00	-999.00	-999.00	14.10	0.00	95.80	95.50	16.00	0.00	-999.00	-999.00	
17	1.50	0.00	104.40	-999.00	-999.00	-999.00	14.20	0.00	95.60	95.40	16.10	0.00	-999.00	-999.00	
18	1.50	0.00	104.10	-999.00	-999.00	-999.00	15.60	0.00	95.60	96.30	16.60	0.00	-999.00	-999.00	
19	1.50	0.00	103.90	-999.00	-999.00	-999.00	13.90	0.00	95.60	95.80	16.10	0.00	-999.00	-999.00	
20	1.50	0.00	103.90	-999.00	-999.00	-999.00	13.90	0.00	95.60	95.40	16.60	0.00	-999.00	-999.00	
21	1.50	0.00	104.00	-999.00	-999.00	-999.00	14.00	0.00	95.50	95.60	16.70	0.00	-999.00	-999.00	
22	1.50	0.00	103.40	-999.00	-999.00	-999.00	13.70	0.00	95.40	95.40	16.70	0.00	-999.00	-999.00	
23	1.50	0.00	102.90	-999.00	-999.00	-999.00	15.40	0.00	95.50	96.40	17.10	0.00	-999.00	-999.00	
24	1.50	0.00	102.60	-999.00	-999.00	-999.00	13.40	0.00	95.50	96.00	16.80	0.00	-999.00	-999.00	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB	WA TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB	GAS %SAT	
1	14.00	0.00	-999.00	-999.00	12.00	0.00	93.50	94.70	0.00	95.40	95.70	95.60	0.00	96.80	
2	14.20	0.00	-999.00	-999.00	12.00	0.00	93.50	94.60	0.00	95.20	95.80	95.60	0.00	96.60	
3	14.00	0.00	-999.00	-999.00	12.00	0.00	93.60	94.60	0.00	95.10	95.80	95.50	0.00	96.50	
4	13.90	0.00	-999.00	-999.00	12.00	0.00	93.60	94.70	0.00	95.30	95.80	95.50	0.00	96.40	
5	14.00	0.00	-999.00	-999.00	13.70	0.00	93.50	94.60	0.00	95.20	95.60	95.40	0.00	96.20	
6	14.00	0.00	-999.00	-999.00	12.00	0.00	93.50	94.80	0.00	95.30	95.50	95.40	0.00	96.10	
7	13.90	0.00	-999.00	-999.00	11.90	0.00	93.40	94.70	0.00	95.10	95.50	95.60	0.00	95.80	
8	15.10	0.00	-999.00	-999.00	11.90	0.00	93.40	94.70	0.00	95.20	95.60	95.50	0.00	95.60	
9	15.20	0.00	-999.00	-999.00	11.90	0.00	93.50	95.60	0.00	95.20	95.60	95.50	0.00	95.50	
10	16.50	0.00	-999.00	-999.00	12.30	0.00	93.60	95.40	0.00	95.30	95.60	95.50	0.00	95.40	
11	16.70	0.00	-999.00	-999.00	19.10	0.00	93.60	95.40	0.00	95.60	95.80	95.70	0.00	95.50	
12	15.60	0.00	-999.00	-999.00	19.50	0.00	93.60	95.60	0.00	96.00	95.90	95.80	0.00	95.50	
13	15.60	0.00	-999.00	-999.00	19.50	0.00	93.70	96.70	0.00	96.20	96.00	95.90	0.00	95.60	
14	15.90	0.00	-999.00	-999.00	21.00	0.00	93.80	96.50	0.00	96.30	96.00	96.00	0.00	95.80	
15	15.70	0.00	-999.00	-999.00	19.80	0.00	93.80	96.30	0.00	96.30	96.20	96.00	0.00	96.10	
16	15.70	0.00	-999.00	-999.00	21.00	0.00	93.90	96.00	0.00	96.20	96.20	96.00	0.00	96.40	
17	15.60	0.00	-999.00	-999.00	19.50	0.00	93.90	96.00	0.00	96.10	96.20	95.90	0.00	96.70	
18	16.10	0.00	-999.00	-999.00	19.70	0.00	93.90	95.70	0.00	96.00	96.10	95.90	0.00	97.00	
19	16.60	0.00	-999.00	-999.00	20.20	0.00	93.90	95.60	0.00	95.80	96.10	95.70	0.00	97.20	
20	16.80	0.00	-999.00	-999.00	19.80	0.00	94.00	95.60	0.00	95.70	96.00	95.80	0.00	97.30	
21	16.50	0.00	-999.00	-999.00	19.90	0.00	93.90	95.40	0.00	95.70	96.00	95.80	0.00	97.30	
22	16.40	0.00	-999.00	-999.00	19.60	0.00	94.00	95.20	0.00	95.60	96.00	95.60	0.00	97.30	
23	18.80	0.00	-999.00	-999.00	19.40	0.00	94.00	95.30	0.00	95.40	95.90	95.70	0.00	97.30	
24	20.50	0.00	-999.00	-999.00	19.40	0.00	94.10	95.10	0.00	95.40	95.90	95.70	0.00	97.40	

06 NOV 2002

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

06 NOV 2002

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	LITTLE GOOSE	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.		
1	1.50	0.00	102.70	-999.00	-999.00	-999.00	13.40	0.00	95.50	95.60	16.70	0.00	-999.00	-999.00	
2	1.50	0.00	102.50	-999.00	-999.00	-999.00	12.90	0.00	95.60	95.50	12.80	0.00	-999.00	-999.00	
3	1.50	0.00	102.60	-999.00	-999.00	-999.00	14.60	0.00	95.60	95.50	12.70	0.00	-999.00	-999.00	
4	1.50	0.00	102.60	-999.00	-999.00	-999.00	13.10	0.00	95.70	96.30	13.00	0.00	-999.00	-999.00	
5	1.50	0.00	102.60	-999.00	-999.00	-999.00	12.80	0.00	95.70	96.00	14.40	0.00	-999.00	-999.00	
6	1.50	0.00	102.60	-999.00	-999.00	-999.00	12.80	0.00	95.60	95.50	12.90	0.00	-999.00	-999.00	
7	1.50	0.00	102.40	-999.00	-999.00	-999.00	12.70	0.00	95.50	95.60	12.90	0.00	-999.00	-999.00	
8	1.50	0.00	102.50	-999.00	-999.00	-999.00	13.50	0.00	95.50	95.50	12.90	0.00	-999.00	-999.00	
9	1.50	0.00	102.70	-999.00	-999.00	-999.00	14.40	0.00	95.40	95.50	13.60	0.00	-999.00	-999.00	
10	1.60	0.00	102.90	-999.00	-999.00	-999.00	14.10	0.00	95.60	95.60	13.10	0.00	-999.00	-999.00	
11	1.50	0.00	102.20	-999.00	-999.00	-999.00	14.10	0.00	95.90	95.80	13.20	0.00	-999.00	-999.00	
12	1.60	0.00	102.50	-999.00	-999.00	-999.00	14.10	0.00	96.10	95.90	12.80	0.00	-999.00	-999.00	
13	1.50	0.00	104.10	-999.00	-999.00	-999.00	14.10	0.00	96.20	96.00	13.20	0.00	-999.00	-999.00	
14	1.60	0.00	104.30	-999.00	-999.00	-999.00	14.30	0.00	96.30	96.10	12.60	0.00	-999.00	-999.00	
15	1.50	0.00	104.50	-999.00	-999.00	-999.00	14.80	0.00	96.40	96.00	13.30	0.00	-999.00	-999.00	
16	1.50	0.00	104.50	-999.00	-999.00	-999.00	14.90	0.00	96.50	96.10	13.40	0.00	-999.00	-999.00	
17	1.50	0.00	103.90	-999.00	-999.00	-999.00	14.90	0.00	96.50	96.20	14.90	0.00	-999.00	-999.00	
18	1.50	0.00	103.50	-999.00	-999.00	-999.00	14.90	0.00	96.60	96.20	13.40	0.00	-999.00	-999.00	
19	1.50	0.00	103.30	-999.00	-999.00	-999.00	15.10	0.00	96.50	96.10	14.70	0.00	-999.00	-999.00	
20	1.50	0.00	103.10	-999.00	-999.00	-999.00	14.70	0.00	96.50	96.20	13.20	0.00	-999.00	-999.00	
21	1.50	0.00	102.80	-999.00	-999.00	-999.00	14.70	0.00	96.60	-999.00	13.20	0.00	-999.00	-999.00	
22	1.50	0.00	102.80	-999.00	-999.00	-999.00	14.40	0.00	96.70	96.50	13.50	0.00	-999.00	-999.00	
23	1.50	0.00	102.80	-999.00	-999.00	-999.00	14.30	0.00	96.80	96.60	13.00	0.00	-999.00	-999.00	
24	1.50	0.00	102.50	-999.00	-999.00	-999.00	14.30	0.00	97.00	96.60	13.10	0.00	-999.00	-999.00	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	PASCO	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	GAS %SAT	
1	16.70	0.00	-999.00	-999.00	19.50	0.00	94.20	95.10	92.50	95.40	95.90	95.80	97.30		
2	14.00	0.00	-999.00	-999.00	11.60	0.00	94.10	95.20	91.80	0.00	95.40	95.80	95.80	97.30	
3	14.00	0.00	-999.00	-999.00	9.60	0.00	94.20	95.20	91.50	0.00	95.50	95.70	95.80	97.10	
4	13.70	0.00	-999.00	-999.00	9.60	0.00	94.20	95.00	91.70	0.00	95.40	95.70	95.80	96.90	
5	13.80	0.00	-999.00	-999.00	9.60	0.00	94.00	95.10	92.20	0.00	95.60	95.60	95.70	96.70	
6	13.80	0.00	-999.00	-999.00	9.70	0.00	94.00	95.10	103.20	0.00	95.50	95.60	95.70	96.60	
7	13.80	0.00	-999.00	-999.00	9.60	0.00	93.90	95.10	128.90	0.00	95.50	95.60	95.70	96.50	
8	14.50	0.00	-999.00	-999.00	10.10	0.00	93.90	95.70	133.70	0.00	95.40	95.70	95.70	96.40	
9	14.40	0.00	-999.00	-999.00	10.20	0.00	93.90	96.00	134.00	0.00	95.60	95.60	95.80	96.30	
10	14.40	0.00	-999.00	-999.00	11.80	0.00	94.10	96.00	134.10	0.00	95.80	95.70	95.80	96.20	
11	14.30	0.00	-999.00	-999.00	13.70	0.00	94.10	96.10	133.80	0.00	95.80	95.80	95.90	96.30	
12	15.80	0.00	-999.00	-999.00	11.90	0.00	94.20	96.40	133.30	0.00	96.20	95.90	96.10	96.40	
13	14.60	0.00	-999.00	-999.00	12.00	0.00	94.30	96.70	134.00	0.00	96.60	96.10	96.20	96.60	
14	13.80	0.00	-999.00	-999.00	11.90	0.00	94.50	96.90	133.30	0.00	96.80	96.20	96.60	96.90	
15	15.40	0.00	-999.00	-999.00	12.70	0.00	94.40	97.40	133.50	0.00	97.00	96.40	96.60	97.30	
16	13.90	0.00	-999.00	-999.00	13.30	0.00	94.60	97.20	126.10	0.00	96.90	96.50	96.70	97.50	
17	13.90	0.00	-999.00	-999.00	11.90	0.00	94.70	97.00	116.50	0.00	96.70	96.70	96.60	97.70	
18	13.80	0.00	-999.00	-999.00	11.70	0.00	94.70	96.90	114.30	0.00	96.60	96.80	96.60	97.90	
19	13.80	0.00	-999.00	-999.00	11.80	0.00	94.80	96.80	95.20	0.00	96.70	96.70	96.60	98.20	
20	14.00	0.00	-999.00	-999.00	13.40	0.00	94.80	96.60	93.90	0.00	96.70	96.80	96.60	98.30	
21	13.80	0.00	-999.00	-999.00	12.00	0.00	94.90	96.80	93.40	0.00	96.70	96.70	96.70	98.50	
22	13.70	0.00	-999.00	-999.00	11.90	0.00	95.00	97.00	81.20	0.00	96.70	96.70	96.80	98.60	
23	13.80	0.00	-999.00	-999.00	11.50	0.00	95.10	96.80	80.60	0.00	96.70	96.70	96.80	98.70	
24	15.20	0.00	-999.00	-999.00	11.50	0.00	95.10	97.10	80.70	0.00	96.80	96.80	96.90	98.70	

07 NOV 2002

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

07 NOV 2002

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	LOWER GRANITE	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.		
1	1.50	0.00	102.70	-999.00	-999.00	-999.00	14.60	0.00	97.10	96.70	13.00	0.00	-999.00	-999.00	
2	1.50	0.00	102.90	-999.00	-999.00	-999.00	14.50	0.00	97.20	96.70	14.50	0.00	-999.00	-999.00	
3	1.50	0.00	103.00	-999.00	-999.00	-999.00	14.50	0.00	97.30	96.90	13.20	0.00	-999.00	-999.00	
4	1.50	0.00	103.20	-999.00	-999.00	-999.00	16.20	0.00	97.40	97.10	13.00	0.00	-999.00	-999.00	
5	1.50	0.00	103.30	-999.00	-999.00	-999.00	14.50	0.00	97.50	97.70	13.10	0.00	-999.00	-999.00	
6	1.50	0.00	103.40	-999.00	-999.00	-999.00	14.70	0.00	97.40	97.50	13.00	0.00	-999.00	-999.00	
7	1.50	0.00	103.30	-999.00	-999.00	-999.00	14.40	0.00	97.50	97.40	14.50	0.00	-999.00	-999.00	
8	1.50	0.00	103.30	-999.00	-999.00	-999.00	14.90	0.00	97.10	97.00	14.40	0.00	-999.00	-999.00	
9	1.50	0.00	103.30	-999.00	-999.00	-999.00	15.00	0.00	97.30	97.10	14.50	0.00	-999.00	-999.00	
10	1.50	0.00	103.60	-999.00	-999.00	-999.00	15.00	0.00	97.30	97.20	14.50	0.00	-999.00	-999.00	
11	1.50	0.00	103.80	-999.00	-999.00	-999.00	15.10	0.00	97.40	97.20	14.40	0.00	-999.00	-999.00	
12	1.50	0.00	104.20	-999.00	-999.00	-999.00	14.80	0.00	97.50	97.40	14.30	0.00	-999.00	-999.00	
13	1.50	0.00	104.50	-999.00	-999.00	-999.00	14.90	0.00	97.60	97.40	16.10	0.00	-999.00	-999.00	
14	1.50	0.00	104.70	-999.00	-999.00	-999.00	14.90	0.00	97.60	97.40	14.50	0.00	-999.00	-999.00	
15	1.50	0.00	104.90	-999.00	-999.00	-999.00	14.80	0.00	97.70	97.50	14.50	0.00	-999.00	-999.00	
16	1.50	0.00	104.50	-999.00	-999.00	-999.00	14.80	0.00	97.80	98.10	16.00	0.00	-999.00	-999.00	
17	1.50	0.00	104.20	-999.00	-999.00	-999.00	15.00	0.00	97.90	98.10	14.80	0.00	-999.00	-999.00	
18	1.50	0.00	103.90	-999.00	-999.00	-999.00	20.30	0.00	98.10	97.70	21.40	0.00	-999.00	-999.00	
19	1.50	0.00	104.00	-999.00	-999.00	-999.00	21.00	0.00	98.00	97.90	21.50	0.00	-999.00	-999.00	
20	1.50	0.00	103.90	-999.00	-999.00	-999.00	20.50	0.00	98.10	97.90	21.50	0.00	-999.00	-999.00	
21	1.50	0.00	104.10	-999.00	-999.00	-999.00	19.20	0.00	98.40	98.50	21.80	0.00	-999.00	-999.00	
22	1.50	0.00	104.40	-999.00	-999.00	-999.00	14.30	0.00	98.40	98.50	23.40	0.00	-999.00	-999.00	
23	1.50	0.00	104.30	-999.00	-999.00	-999.00	14.30	0.00	98.60	98.40	13.20	0.00	-999.00	-999.00	
24	1.50	0.00	104.50	-999.00	-999.00	-999.00	14.60	0.00	98.70	98.50	12.70	0.00	-999.00	-999.00	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB	WA TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB	GAS % SAT	
1	13.90	0.00	-999.00	-999.00	11.50	0.00	95.40	97.20	0.00	96.90	97.00	97.10	0.00	98.80	
2	15.20	0.00	-999.00	-999.00	11.50	0.00	95.40	97.00	0.00	97.00	97.10	97.20	0.00	98.90	
3	13.80	0.00	-999.00	-999.00	11.70	0.00	95.60	97.00	0.00	97.30	97.30	97.30	0.00	98.90	
4	13.80	0.00	-999.00	-999.00	11.50	0.00	95.70	97.10	0.00	97.40	97.40	97.50	0.00	98.80	
5	13.80	0.00	-999.00	-999.00	13.00	0.00	95.70	97.20	0.00	97.20	97.50	97.50	0.00	98.70	
6	13.80	0.00	-999.00	-999.00	11.60	0.00	95.80	97.10	0.00	97.30	97.40	97.50	0.00	98.60	
7	14.00	0.00	-999.00	-999.00	11.50	0.00	95.60	96.90	0.00	97.50	97.70	97.60	0.00	98.30	
8	14.30	0.00	-999.00	-999.00	13.50	0.00	95.80	97.10	0.00	97.70	97.70	97.60	0.00	98.30	
9	13.80	0.00	-999.00	-999.00	13.40	0.00	95.80	97.20	0.00	97.60	97.70	97.60	0.00	98.30	
10	15.30	0.00	-999.00	-999.00	12.00	0.00	95.80	97.60	0.00	97.40	97.50	97.50	0.00	98.10	
11	14.30	0.00	-999.00	-999.00	12.00	0.00	95.80	97.50	0.00	97.30	97.50	97.70	0.00	98.10	
12	16.40	0.00	-999.00	-999.00	19.90	0.00	95.80	97.90	0.00	97.50	97.60	97.80	0.00	98.10	
13	15.40	0.00	-999.00	-999.00	21.00	0.00	96.00	98.30	0.00	98.00	97.70	98.00	0.00	98.30	
14	16.70	0.00	-999.00	-999.00	19.50	0.00	96.10	98.30	0.00	98.30	97.90	98.10	0.00	98.50	
15	14.80	0.00	-999.00	-999.00	19.60	0.00	96.10	98.20	0.00	98.50	98.10	98.10	0.00	99.00	
16	14.00	0.00	-999.00	-999.00	19.60	0.00	96.00	98.30	0.00	98.40	98.30	98.30	0.00	99.20	
17	13.90	0.00	-999.00	-999.00	19.90	0.00	96.10	98.00	0.00	98.40	98.40	98.40	0.00	99.60	
18	21.30	0.00	-999.00	-999.00	19.60	0.00	96.20	97.80	0.00	98.50	98.50	98.30	0.00	99.70	
19	23.50	0.00	-999.00	-999.00	19.60	0.00	96.50	97.70	0.00	98.40	98.60	98.40	0.00	99.90	
20	21.70	0.00	-999.00	-999.00	21.00	0.00	96.60	97.70	0.00	98.50	98.70	98.50	0.00	100.10	
21	21.70	0.00	-999.00	-999.00	19.60	0.00	96.70	97.90	0.00	98.70	98.90	98.50	0.00	100.20	
22	21.70	0.00	-999.00	-999.00	19.80	0.00	96.90	98.10	0.00	98.90	99.20	98.70	0.00	100.20	
23	21.50	0.00	-999.00	-999.00	19.20	0.00	97.00	98.30	0.00	99.20	99.30	98.90	0.00	100.30	
24	14.20	0.00	-999.00	-999.00	12.10	0.00	97.00	98.30	0.00	99.00	99.30	98.80	0.00	100.20	

08 NOV 2002

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

08 NOV 2002

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	LOWER GRANITE	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.		
1	1.50	0.00	104.70	-999.00	-999.00	-999.00	14.30	0.00	98.70	98.50	12.70	0.00	-999.00	-999.00	
2	1.50	0.00	104.70	-999.00	-999.00	-999.00	14.20	0.00	98.80	98.60	12.80	0.00	-999.00	-999.00	
3	1.50	0.00	104.80	-999.00	-999.00	-999.00	17.60	0.00	98.70	98.80	14.10	0.00	-999.00	-999.00	
4	1.50	0.00	104.80	-999.00	-999.00	-999.00	13.90	0.00	98.70	98.90	12.60	0.00	-999.00	-999.00	
5	1.50	0.00	104.80	-999.00	-999.00	-999.00	14.10	0.00	98.40	98.60	12.50	0.00	-999.00	-999.00	
6	1.50	0.00	104.80	-999.00	-999.00	-999.00	13.60	0.00	98.30	98.40	14.10	0.00	-999.00	-999.00	
7	1.50	0.00	104.60	-999.00	-999.00	-999.00	13.20	0.00	98.30	98.20	12.80	0.00	-999.00	-999.00	
8	1.50	0.00	104.20	-999.00	-999.00	-999.00	13.30	0.00	98.00	98.10	13.20	0.00	-999.00	-999.00	
9	1.50	0.00	104.50	-999.00	-999.00	-999.00	13.20	0.00	98.00	98.00	13.30	0.00	-999.00	-999.00	
10	1.50	0.00	105.10	-999.00	-999.00	-999.00	13.50	0.00	97.90	98.00	13.30	0.00	-999.00	-999.00	
11	1.50	0.00	105.60	-999.00	-999.00	-999.00	15.40	0.00	97.90	98.00	13.30	0.00	-999.00	-999.00	
12	1.50	0.00	105.60	-999.00	-999.00	-999.00	15.50	0.00	97.90	98.00	13.40	0.00	-999.00	-999.00	
13	1.50	0.00	105.70	-999.00	-999.00	-999.00	15.60	0.00	98.10	98.00	13.10	0.00	-999.00	-999.00	
14	1.50	0.00	105.50	-999.00	-999.00	-999.00	15.80	0.00	98.10	98.10	13.00	0.00	-999.00	-999.00	
15	1.50	0.00	105.40	-999.00	-999.00	-999.00	15.60	0.00	97.90	98.00	13.00	0.00	-999.00	-999.00	
16	1.50	0.00	105.20	-999.00	-999.00	-999.00	18.30	0.00	98.00	98.10	13.20	0.00	-999.00	-999.00	
17	1.50	0.00	104.80	-999.00	-999.00	-999.00	25.90	0.00	98.00	98.10	21.00	0.00	-999.00	-999.00	
18	1.50	0.00	104.40	-999.00	-999.00	-999.00	26.00	0.00	98.00	98.00	26.40	0.00	-999.00	-999.00	
19	1.50	0.00	104.40	-999.00	-999.00	-999.00	26.10	0.00	98.00	97.90	27.80	0.00	-999.00	-999.00	
20	1.50	0.00	104.40	-999.00	-999.00	-999.00	26.60	0.00	98.00	97.90	28.00	0.00	-999.00	-999.00	
21	1.50	0.00	104.30	-999.00	-999.00	-999.00	25.60	0.00	98.00	97.80	28.30	0.00	-999.00	-999.00	
22	1.50	0.00	104.30	-999.00	-999.00	-999.00	18.00	0.00	98.00	97.80	22.00	0.00	-999.00	-999.00	
23	1.50	0.00	104.20	-999.00	-999.00	-999.00	15.50	0.00	98.00	98.70	21.50	0.00	-999.00	-999.00	
24	1.50	0.00	104.20	-999.00	-999.00	-999.00	13.70	0.00	97.90	98.20	15.10	0.00	-999.00	-999.00	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB	WA TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB		
1	13.80	0.00	-999.00	-999.00	11.80	0.00	97.00	98.10	0.00	99.10	99.40	98.90	0.00	100.20	
2	13.80	0.00	-999.00	-999.00	10.20	0.00	97.20	98.20	0.00	99.00	99.00	98.80	0.00	100.00	
3	15.40	0.00	-999.00	-999.00	11.90	0.00	97.00	98.00	0.00	99.00	99.00	98.80	0.00	99.90	
4	13.90	0.00	-999.00	-999.00	10.30	0.00	96.90	97.90	0.00	98.70	98.80	98.60	0.00	99.70	
5	13.80	0.00	-999.00	-999.00	10.30	0.00	96.80	97.90	0.00	98.50	98.70	98.50	0.00	99.50	
6	14.00	0.00	-999.00	-999.00	12.30	0.00	96.70	97.90	0.00	98.50	98.60	98.50	0.00	99.10	
7	13.80	0.00	-999.00	-999.00	14.00	0.00	96.60	97.90	0.00	98.40	98.40	98.40	0.00	98.90	
8	13.80	0.00	-999.00	-999.00	12.60	0.00	96.50	98.10	0.00	98.30	98.30	98.30	0.00	98.70	
9	15.20	0.00	-999.00	-999.00	12.80	0.00	96.50	98.20	0.00	98.30	98.30	98.30	0.00	98.60	
10	13.70	0.00	-999.00	-999.00	14.30	0.00	96.50	98.20	0.00	98.60	98.30	98.40	0.00	98.50	
11	13.90	0.00	-999.00	-999.00	19.30	0.00	96.50	98.20	0.00	98.70	98.30	98.40	0.00	98.60	
12	13.60	0.00	-999.00	-999.00	19.40	0.00	96.50	98.60	0.00	99.00	98.50	98.60	0.00	98.60	
13	13.70	0.00	-999.00	-999.00	21.10	0.10	96.50	98.70	0.00	98.90	98.50	98.60	0.00	98.70	
14	13.70	0.00	-999.00	-999.00	13.90	0.30	96.50	98.60	0.00	98.70	98.50	98.50	0.00	99.00	
15	13.70	0.00	-999.00	-999.00	12.80	0.00	96.40	98.30	0.00	98.50	98.40	98.30	0.00	99.10	
16	15.40	0.00	-999.00	-999.00	12.30	0.00	96.30	98.10	0.00	98.50	98.40	98.30	0.00	99.20	
17	13.90	0.00	-999.00	-999.00	13.20	0.00	96.40	98.10	0.00	98.50	98.20	98.30	0.00	99.40	
18	20.30	0.00	-999.00	-999.00	22.20	1.10	96.40	98.00	0.00	98.90	98.20	98.30	0.00	99.30	
19	27.20	0.00	-999.00	-999.00	23.50	0.40	96.40	97.90	0.00	98.70	98.20	98.30	0.00	99.40	
20	27.40	0.00	-999.00	-999.00	29.00	0.30	96.40	97.80	0.00	98.60	98.00	98.30	0.00	99.30	
21	29.00	0.00	-999.00	-999.00	28.90	0.20	96.30	97.80	0.00	98.50	98.00	98.30	0.00	99.10	
22	29.60	0.00	-999.00	-999.00	28.80	0.20	96.20	97.50	0.00	98.40	97.90	98.30	0.00	99.00	
23	28.90	0.00	-999.00	-999.00	28.70	0.20	96.30	97.20	0.00	98.30	97.90	98.10	0.00	98.80	
24	19.30	0.00	-999.00	-999.00	28.40	0.20	96.20	97.20	0.00	98.20	97.80	98.00	0.00	98.80	

09 NOV 2002

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

09 NOV 2002

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	LOWER GRANITE	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.		
1	1.50	0.00	104.30	-999.00	-999.00	-999.00	13.50	0.00	97.90	97.70	13.10	0.00	-999.00	-999.00	
2	1.50	0.00	104.20	-999.00	-999.00	-999.00	13.50	0.00	97.80	97.70	13.40	0.00	-999.00	-999.00	
3	1.50	0.00	104.20	-999.00	-999.00	-999.00	15.30	0.00	97.80	98.40	13.20	0.00	-999.00	-999.00	
4	1.50	0.00	104.10	-999.00	-999.00	-999.00	12.50	0.00	97.80	98.00	12.80	0.00	-999.00	-999.00	
5	1.50	0.00	103.90	-999.00	-999.00	-999.00	13.00	0.00	97.70	97.70	13.70	0.00	-999.00	-999.00	
6	1.50	0.00	103.90	-999.00	-999.00	-999.00	12.80	0.00	97.60	97.50	15.10	0.00	-999.00	-999.00	
7	1.50	0.00	103.90	-999.00	-999.00	-999.00	14.90	0.00	97.40	97.40	16.10	0.00	-999.00	-999.00	
8	1.50	0.00	103.80	-999.00	-999.00	-999.00	15.10	0.00	97.30	97.40	14.90	0.00	-999.00	-999.00	
9	1.50	0.00	104.00	-999.00	-999.00	-999.00	15.00	0.00	97.30	97.30	14.90	0.00	-999.00	-999.00	
10	1.50	0.00	104.20	-999.00	-999.00	-999.00	15.30	0.00	97.20	97.20	14.90	0.00	-999.00	-999.00	
11	1.50	0.00	104.40	-999.00	-999.00	-999.00	15.00	0.00	97.30	97.20	14.70	0.00	-999.00	-999.00	
12	1.50	0.00	104.60	-999.00	-999.00	-999.00	16.60	0.00	97.20	97.70	15.10	0.00	-999.00	-999.00	
13	1.50	0.00	104.60	-999.00	-999.00	-999.00	15.00	0.00	97.20	97.70	14.90	0.00	-999.00	-999.00	
14	1.50	0.00	104.70	-999.00	-999.00	-999.00	17.60	0.00	97.00	97.40	16.80	0.00	-999.00	-999.00	
15	1.50	0.00	105.20	-999.00	-999.00	-999.00	17.80	0.00	97.00	97.40	17.10	0.00	-999.00	-999.00	
16	1.50	0.00	106.40	-999.00	-999.00	-999.00	18.10	0.00	96.80	97.40	17.50	0.00	-999.00	-999.00	
17	1.50	0.00	106.30	-999.00	-999.00	-999.00	17.80	0.00	96.80	97.40	17.10	0.00	-999.00	-999.00	
18	1.50	0.00	106.40	-999.00	-999.00	-999.00	17.70	0.00	96.70	97.40	17.00	0.00	-999.00	-999.00	
19	1.50	0.00	106.40	-999.00	-999.00	-999.00	17.70	0.00	96.80	97.30	17.10	0.00	-999.00	-999.00	
20	1.50	0.00	106.50	-999.00	-999.00	-999.00	18.10	0.00	96.90	97.30	18.70	0.00	-999.00	-999.00	
21	1.50	0.00	106.40	-999.00	-999.00	-999.00	17.80	0.00	96.90	97.30	21.30	0.00	-999.00	-999.00	
22	1.50	0.00	106.50	-999.00	-999.00	-999.00	17.80	0.00	96.70	97.20	21.10	0.00	-999.00	-999.00	
23	1.50	0.00	106.50	-999.00	-999.00	-999.00	17.80	0.00	96.70	97.20	21.00	0.00	-999.00	-999.00	
24	1.50	0.00	106.40	-999.00	-999.00	-999.00	18.10	0.00	96.80	97.10	18.00	0.00	-999.00	-999.00	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB	MCNARY	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	PASCO	
1	14.00	0.00	-999.00	-999.00	20.40	0.10	96.20	97.00	0.00	98.20	97.60	98.00	0.00	98.60	
2	13.80	0.00	-999.00	-999.00	13.10	0.20	96.20	96.90	0.00	98.00	97.60	97.80	0.00	98.50	
3	14.10	0.00	-999.00	-999.00	9.80	0.30	96.00	96.90	0.00	97.90	97.70	97.80	0.00	98.20	
4	13.80	0.00	-999.00	-999.00	9.60	0.30	96.00	96.70	0.00	97.90	97.60	97.70	0.00	98.10	
5	15.40	0.00	-999.00	-999.00	9.80	0.20	95.90	96.70	0.00	97.80	97.60	97.60	0.00	97.90	
6	13.70	0.00	-999.00	-999.00	10.10	0.30	95.90	96.60	0.00	97.60	97.50	97.60	0.00	97.70	
7	13.80	0.00	-999.00	-999.00	13.00	0.00	95.70	96.70	0.00	97.50	97.30	97.50	0.00	97.50	
8	13.90	0.00	-999.00	-999.00	12.40	0.00	95.70	96.70	0.00	97.50	97.20	97.40	0.00	97.30	
9	14.00	0.00	-999.00	-999.00	13.90	0.00	95.60	97.00	0.00	97.40	97.10	97.50	0.00	97.10	
10	13.80	0.00	-999.00	-999.00	12.30	0.00	95.60	97.10	0.00	97.30	97.20	97.60	0.00	96.80	
11	13.70	0.00	-999.00	-999.00	12.30	0.00	95.40	97.00	0.00	97.40	97.00	97.50	0.00	96.70	
12	13.70	0.00	-999.00	-999.00	12.30	0.00	95.40	97.30	0.00	98.10	97.20	97.70	0.00	96.70	
13	15.50	0.00	-999.00	-999.00	13.50	0.00	95.50	97.40	0.00	98.40	97.30	97.70	0.00	96.90	
14	18.90	0.00	-999.00	-999.00	12.00	0.00	95.50	97.80	0.00	98.60	97.40	97.80	0.00	97.10	
15	19.10	0.00	-999.00	-999.00	12.90	0.00	95.40	97.70	0.00	98.50	97.50	97.80	0.00	97.20	
16	20.60	0.00	-999.00	-999.00	19.50	0.00	95.40	97.60	0.00	98.40	97.50	97.80	0.00	97.30	
17	19.20	0.00	-999.00	-999.00	20.00	0.00	95.30	97.60	0.00	98.50	97.60	97.60	0.00	97.40	
18	20.60	0.00	-999.00	-999.00	22.70	0.00	95.40	97.60	0.00	98.20	97.60	97.50	0.00	97.60	
19	19.30	0.00	-999.00	-999.00	21.20	0.00	95.30	97.10	0.00	97.70	97.60	97.50	0.00	97.70	
20	19.10	0.00	-999.00	-999.00	21.40	0.00	95.30	96.80	0.00	97.60	97.50	97.50	0.00	97.80	
21	20.70	0.00	-999.00	-999.00	23.70	0.00	95.20	96.60	0.00	97.30	97.40	97.40	0.00	97.80	
22	20.70	0.00	-999.00	-999.00	24.30	0.00	95.20	96.70	0.00	97.20	97.50	97.30	0.00	97.70	
23	20.70	0.00	-999.00	-999.00	25.10	0.00	95.30	96.60	0.00	97.30	97.40	97.40	0.00	97.80	
24	18.00	0.00	-999.00	-999.00	20.30	0.00	95.20	96.40	0.00	97.10	97.40	97.40	0.00	97.80	

10 NOV 2002

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

10 NOV 2002

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	LOWER GRANITE	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.		
1	1.50	0.00	106.40	-999.00	-999.00	-999.00	14.60	0.00	96.80	97.10	14.70	0.00	-999.00	-999.00	
2	1.50	0.00	106.40	-999.00	-999.00	-999.00	14.20	0.00	96.70	97.10	14.40	0.00	-999.00	-999.00	
3	1.50	0.00	106.20	-999.00	-999.00	-999.00	14.20	0.00	96.70	97.00	14.40	0.00	-999.00	-999.00	
4	1.50	0.00	106.20	-999.00	-999.00	-999.00	13.00	0.00	96.60	96.80	13.10	0.00	-999.00	-999.00	
5	1.50	0.00	106.40	-999.00	-999.00	-999.00	14.00	0.00	96.60	96.90	13.00	0.00	-999.00	-999.00	
6	1.50	0.00	106.30	-999.00	-999.00	-999.00	14.40	0.00	96.50	96.90	13.20	0.00	-999.00	-999.00	
7	1.50	0.00	106.20	-999.00	-999.00	-999.00	17.00	0.00	96.50	97.60	14.30	0.00	-999.00	-999.00	
8	1.50	0.00	106.20	-999.00	-999.00	-999.00	15.60	0.00	96.40	97.30	16.80	0.00	-999.00	-999.00	
9	1.50	0.00	106.30	-999.00	-999.00	-999.00	18.30	0.00	96.40	97.10	19.10	0.00	-999.00	-999.00	
10	1.50	0.00	106.50	-999.00	-999.00	-999.00	19.10	0.00	96.30	97.20	20.70	0.00	-999.00	-999.00	
11	1.50	0.00	106.60	-999.00	-999.00	-999.00	20.30	0.00	96.30	97.20	20.70	0.00	-999.00	-999.00	
12	1.50	0.00	107.20	-999.00	-999.00	-999.00	20.20	0.00	96.40	97.20	21.00	0.00	-999.00	-999.00	
13	1.50	0.00	107.30	-999.00	-999.00	-999.00	20.60	0.00	96.30	97.30	22.20	0.00	-999.00	-999.00	
14	1.50	0.00	107.20	-999.00	-999.00	-999.00	20.60	0.00	96.30	97.30	21.90	0.00	-999.00	-999.00	
15	1.50	0.00	106.90	-999.00	-999.00	-999.00	20.60	0.00	96.30	97.30	22.70	0.00	-999.00	-999.00	
16	1.50	0.00	106.50	-999.00	-999.00	-999.00	21.00	0.00	96.20	97.20	21.20	0.00	-999.00	-999.00	
17	1.50	0.00	106.20	-999.00	-999.00	-999.00	20.60	0.00	96.20	97.10	23.00	0.00	-999.00	-999.00	
18	1.50	0.00	106.00	-999.00	-999.00	-999.00	19.90	0.00	96.00	97.10	20.40	0.00	-999.00	-999.00	
19	1.50	0.00	105.70	-999.00	-999.00	-999.00	18.80	0.00	96.10	97.00	18.80	0.00	-999.00	-999.00	
20	1.50	0.00	105.80	-999.00	-999.00	-999.00	13.50	0.00	96.00	97.80	13.90	0.00	-999.00	-999.00	
21	1.50	0.00	105.90	-999.00	-999.00	-999.00	13.50	0.00	95.90	97.20	13.60	0.00	-999.00	-999.00	
22	1.50	0.00	105.90	-999.00	-999.00	-999.00	13.20	0.00	95.90	97.00	13.70	0.00	-999.00	-999.00	
23	1.50	0.00	105.80	-999.00	-999.00	-999.00	13.20	0.00	95.80	96.90	13.40	0.00	-999.00	-999.00	
24	1.50	0.00	105.70	-999.00	-999.00	-999.00	13.20	0.00	95.70	96.70	13.40	0.00	-999.00	-999.00	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB	WA TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB	GAS %SAT	
1	14.40	0.00	-999.00	-999.00	14.60	0.00	95.20	96.30	0.00	97.10	97.30	97.30	0.00	97.50	
2	14.30	0.00	-999.00	-999.00	10.30	0.00	95.10	96.10	0.00	97.00	97.10	97.20	0.00	97.50	
3	14.30	0.00	-999.00	-999.00	9.60	0.00	95.00	96.00	0.00	97.10	97.10	97.00	0.00	97.20	
4	14.30	0.00	-999.00	-999.00	9.30	0.00	95.00	96.00	0.00	97.00	97.10	97.00	0.00	97.00	
5	14.50	0.00	-999.00	-999.00	9.40	0.00	94.90	96.20	0.00	96.90	96.90	97.00	0.00	96.80	
6	14.30	0.00	-999.00	-999.00	11.90	0.00	94.80	96.30	0.00	97.00	96.80	96.90	0.00	96.60	
7	14.30	0.00	-999.00	-999.00	12.20	0.00	94.80	96.20	0.00	96.80	96.90	96.80	0.00	96.60	
8	17.50	0.00	-999.00	-999.00	20.50	0.00	94.80	96.50	0.00	96.80	96.90	96.90	0.00	96.50	
9	18.80	0.00	-999.00	-999.00	21.20	0.00	94.60	96.60	0.00	96.90	96.80	96.80	0.00	96.50	
10	21.10	0.00	-999.00	-999.00	21.30	0.00	94.60	96.70	0.00	97.00	96.90	96.90	0.00	96.60	
11	21.70	0.00	-999.00	-999.00	21.40	0.00	94.60	96.90	0.00	97.50	97.00	97.00	0.00	96.60	
12	22.90	0.00	-999.00	-999.00	21.50	0.00	94.60	97.00	0.00	97.90	97.10	97.20	0.00	96.70	
13	21.60	0.00	-999.00	-999.00	22.30	0.00	94.60	97.00	0.00	97.80	97.10	97.30	0.00	96.90	
14	21.50	0.00	-999.00	-999.00	21.70	0.00	94.60	96.70	0.00	97.60	97.10	97.30	0.00	96.90	
15	23.00	0.00	-999.00	-999.00	21.70	0.00	94.50	96.70	0.00	97.20	97.00	97.30	0.00	96.90	
16	21.80	0.00	-999.00	-999.00	21.80	0.00	94.70	96.50	0.00	97.40	97.00	97.00	0.00	97.00	
17	21.00	0.00	-999.00	-999.00	21.90	0.00	94.60	96.30	0.00	97.20	96.90	97.00	0.00	97.10	
18	21.70	0.00	-999.00	-999.00	23.90	0.00	94.50	96.10	0.00	97.10	96.90	96.80	0.00	97.20	
19	21.40	0.00	-999.00	-999.00	21.80	0.00	94.50	95.90	0.00	97.00	96.80	96.60	0.00	97.10	
20	14.00	0.00	-999.00	-999.00	12.70	0.00	94.40	95.70	0.00	96.90	96.60	96.40	0.00	97.10	
21	13.40	0.00	-999.00	-999.00	12.50	0.00	94.30	95.60	0.00	96.90	96.50	96.30	0.00	97.20	
22	15.00	0.00	-999.00	-999.00	12.60	0.00	94.30	95.50	0.00	96.90	96.40	96.30	0.00	97.30	
23	13.30	0.00	-999.00	-999.00	12.70	0.00	94.30	95.90	0.00	96.80	96.40	96.00	0.00	97.30	
24	13.40	0.00	-999.00	-999.00	12.20	0.00	94.30	95.70	0.00	96.60	96.30	96.00	0.00	97.20	

11 NOV 2002

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

11 NOV 2002

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.			
1	1.50	0.00	105.80	-999.00	-999.00	-999.00	13.20	0.00	95.80	96.80	15.00	0.00	-999.00	-999.00	
2	1.50	0.00	105.60	-999.00	-999.00	-999.00	13.40	0.00	95.90	96.60	13.50	0.00	-999.00	-999.00	
3	1.50	0.00	105.70	-999.00	-999.00	-999.00	13.20	0.00	95.80	96.70	13.70	0.00	-999.00	-999.00	
4	1.50	0.00	105.50	-999.00	-999.00	-999.00	15.10	0.00	95.80	97.50	13.60	0.00	-999.00	-999.00	
5	1.50	0.00	105.30	-999.00	-999.00	-999.00	18.10	0.00	95.90	96.70	17.90	0.00	-999.00	-999.00	
6	1.50	0.00	105.20	-999.00	-999.00	-999.00	18.50	0.00	95.80	96.50	18.20	0.00	-999.00	-999.00	
7	1.50	0.00	105.20	-999.00	-999.00	-999.00	18.70	0.00	95.80	96.50	18.20	0.00	-999.00	-999.00	
8	1.50	0.00	105.30	-999.00	-999.00	-999.00	18.30	0.00	95.70	96.40	18.50	0.00	-999.00	-999.00	
9	1.50	0.00	105.60	-999.00	-999.00	-999.00	18.60	0.00	95.80	96.40	18.00	0.00	-999.00	-999.00	
10	1.50	0.00	106.10	-999.00	-999.00	-999.00	18.30	0.00	95.70	96.30	17.90	0.00	-999.00	-999.00	
11	1.50	0.00	106.60	-999.00	-999.00	-999.00	18.40	0.00	95.80	96.40	19.70	0.00	-999.00	-999.00	
12	1.50	0.00	106.90	-999.00	-999.00	-999.00	18.70	0.00	95.80	96.40	18.20	0.00	-999.00	-999.00	
13	1.50	0.00	106.90	-999.00	-999.00	-999.00	18.30	0.00	95.80	96.40	17.90	0.00	-999.00	-999.00	
14	1.50	0.00	106.40	-999.00	-999.00	-999.00	18.30	0.00	95.90	96.40	18.00	0.00	-999.00	-999.00	
15	1.50	0.00	106.00	-999.00	-999.00	-999.00	18.40	0.00	95.80	96.50	18.00	0.00	-999.00	-999.00	
16	1.50	0.00	105.70	-999.00	-999.00	-999.00	18.20	0.00	95.70	96.50	18.10	0.00	-999.00	-999.00	
17	1.50	0.00	105.60	-999.00	-999.00	-999.00	20.50	0.00	95.70	97.60	18.50	0.00	-999.00	-999.00	
18	1.50	0.00	105.20	-999.00	-999.00	-999.00	19.20	0.00	95.70	96.80	18.20	0.00	-999.00	-999.00	
19	1.50	0.00	105.10	-999.00	-999.00	-999.00	20.10	0.00	95.70	96.60	19.20	0.00	-999.00	-999.00	
20	1.50	0.00	105.10	-999.00	-999.00	-999.00	22.00	0.00	95.70	97.60	19.40	0.00	-999.00	-999.00	
21	1.50	0.00	105.30	-999.00	-999.00	-999.00	22.30	0.00	95.80	98.50	19.40	0.00	-999.00	-999.00	
22	1.50	0.00	105.20	-999.00	-999.00	-999.00	20.70	0.00	95.80	97.20	21.20	0.00	-999.00	-999.00	
23	1.50	0.00	105.30	-999.00	-999.00	-999.00	17.50	0.00	95.80	97.60	17.10	0.00	-999.00	-999.00	
24	1.50	0.00	105.40	-999.00	-999.00	-999.00	14.30	0.00	96.00	97.20	15.80	0.00	-999.00	-999.00	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.			
1	13.40	0.00	-999.00	-999.00	12.20	0.00	94.20	95.50	83.30	0.00	96.50	96.30	95.90	0.00	97.00
2	13.40	0.00	-999.00	-999.00	12.20	0.00	94.10	95.50	82.50	0.00	96.50	96.20	95.90	0.00	96.90
3	13.70	0.00	-999.00	-999.00	12.20	0.00	94.00	95.40	82.40	0.00	96.40	96.10	95.90	0.00	96.90
4	13.50	0.00	-999.00	-999.00	13.90	0.00	94.10	95.40	82.30	0.00	96.30	96.10	95.80	0.00	96.80
5	13.60	0.00	-999.00	-999.00	12.30	0.00	94.00	95.50	98.10	0.00	96.20	95.90	95.80	0.00	96.70
6	18.20	0.00	-999.00	-999.00	13.00	0.00	93.90	95.40	126.30	0.00	96.00	95.90	95.80	0.00	96.60
7	18.50	0.00	-999.00	-999.00	19.60	0.00	93.80	95.30	128.60	0.00	96.00	95.80	95.90	0.00	96.50
8	19.90	0.00	-999.00	-999.00	19.60	0.00	93.70	95.80	146.20	0.00	96.00	95.70	96.00	0.00	96.40
9	19.60	0.00	-999.00	-999.00	20.00	0.00	93.80	95.90	148.50	0.00	96.00	95.80	95.90	0.00	96.40
10	19.30	0.00	-999.00	-999.00	19.60	0.00	93.70	95.60	148.20	0.00	96.30	95.80	96.10	0.00	96.40
11	19.40	0.00	-999.00	-999.00	19.60	0.00	93.90	95.40	148.20	0.00	96.30	95.80	96.40	0.00	96.40
12	19.50	0.00	-999.00	-999.00	19.60	0.00	93.80	95.60	148.20	0.00	96.60	95.80	96.40	0.00	96.50
13	19.50	0.00	-999.00	-999.00	19.70	0.00	93.90	96.00	148.20	0.00	96.90	96.00	96.50	0.00	96.60
14	19.80	0.00	-999.00	-999.00	21.50	0.00	93.90	95.90	148.80	0.00	96.90	96.00	96.30	0.00	96.90
15	19.50	0.00	-999.00	-999.00	21.20	0.00	93.90	95.90	165.40	0.00	96.90	96.00	96.20	0.00	97.10
16	19.50	0.00	-999.00	-999.00	19.60	0.00	93.90	95.90	167.30	0.00	96.80	95.90	96.10	0.00	97.20
17	19.50	0.00	-999.00	-999.00	19.60	0.00	93.90	95.80	167.40	0.00	96.70	95.90	96.10	0.00	97.30
18	21.20	0.00	-999.00	-999.00	21.20	0.00	93.90	96.00	145.30	0.00	96.70	95.90	96.00	0.00	97.40
19	23.00	0.00	-999.00	-999.00	20.00	0.00	93.90	95.60	138.30	0.00	96.70	96.00	96.00	0.00	97.60
20	21.10	0.00	-999.00	-999.00	19.60	0.00	94.00	95.40	138.50	0.00	96.70	96.10	96.10	0.00	97.70
21	22.20	0.00	-999.00	-999.00	19.60	0.00	94.20	95.70	120.40	0.00	96.40	96.20	96.20	0.00	97.70
22	22.00	0.00	-999.00	-999.00	19.40	0.00	94.20	95.70	117.20	0.00	96.40	96.30	96.20	0.00	97.80
23	17.20	0.00	-999.00	-999.00	19.60	0.00	94.40	95.60	117.20	0.00	96.50	96.30	96.30	0.00	97.80
24	15.80	0.00	-999.00	-999.00	19.90	0.00	94.50	95.50	116.50	0.00	96.30	96.40	96.20	0.00	97.90

12 NOV 2002

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

12 NOV 2002

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	LOWER GRANITE	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.		
1	1.50	0.00	105.20	-999.00	-999.00	-999.00	14.70	0.00	96.10	97.00	14.40	0.00	-999.00	-999.00	
2	1.50	0.00	105.20	-999.00	-999.00	-999.00	12.80	0.00	96.10	97.80	13.00	0.00	-999.00	-999.00	
3	1.50	0.00	105.50	-999.00	-999.00	-999.00	12.50	0.00	96.10	97.30	12.80	0.00	-999.00	-999.00	
4	1.50	0.00	105.40	-999.00	-999.00	-999.00	12.50	0.00	96.40	97.00	14.40	0.00	-999.00	-999.00	
5	1.50	0.00	105.40	-999.00	-999.00	-999.00	12.70	0.00	96.40	97.10	13.00	0.00	-999.00	-999.00	
6	1.50	0.00	105.30	-999.00	-999.00	-999.00	16.80	0.00	96.60	97.10	13.40	0.00	-999.00	-999.00	
7	1.50	0.00	105.20	-999.00	-999.00	-999.00	20.70	0.00	96.80	97.00	18.40	0.00	-999.00	-999.00	
8	1.50	0.00	105.40	-999.00	-999.00	-999.00	20.60	0.00	97.00	97.10	18.40	0.00	-999.00	-999.00	
9	1.50	0.00	105.70	-999.00	-999.00	-999.00	20.60	0.00	97.10	97.30	19.90	0.00	-999.00	-999.00	
10	1.50	0.00	106.10	-999.00	-999.00	-999.00	22.20	0.00	97.30	97.30	19.80	0.00	-999.00	-999.00	
11	1.50	0.00	106.20	-999.00	-999.00	-999.00	15.80	0.00	97.40	97.90	19.70	0.00	-999.00	-999.00	
12	1.50	0.00	106.40	-999.00	-999.00	-999.00	15.90	0.00	97.40	97.60	16.50	0.00	-999.00	-999.00	
13	1.50	0.00	106.40	-999.00	-999.00	-999.00	15.60	0.00	97.30	97.20	16.10	0.00	-999.00	-999.00	
14	1.50	0.00	106.10	-999.00	-999.00	-999.00	15.50	0.00	97.30	97.20	16.10	0.00	-999.00	-999.00	
15	1.50	0.00	105.90	-999.00	-999.00	-999.00	15.50	0.00	97.20	97.10	17.40	0.00	-999.00	-999.00	
16	1.50	0.00	105.60	-999.00	-999.00	-999.00	15.60	0.00	97.20	97.20	16.30	0.00	-999.00	-999.00	
17	1.50	0.00	105.70	-999.00	-999.00	-999.00	21.10	0.00	97.30	97.00	19.10	0.00	-999.00	-999.00	
18	1.50	0.00	106.20	-999.00	-999.00	-999.00	19.30	0.00	97.20	97.50	19.40	0.00	-999.00	-999.00	
19	1.50	0.00	107.00	-999.00	-999.00	-999.00	19.20	0.00	97.20	97.20	20.80	0.00	-999.00	-999.00	
20	1.50	0.00	106.70	-999.00	-999.00	-999.00	19.20	0.00	97.20	97.20	19.30	0.00	-999.00	-999.00	
21	1.50	0.00	106.60	-999.00	-999.00	-999.00	19.40	0.00	97.10	97.20	19.50	0.00	-999.00	-999.00	
22	1.50	0.00	106.70	-999.00	-999.00	-999.00	19.90	0.00	97.10	97.20	17.50	0.00	-999.00	-999.00	
23	1.50	0.00	106.80	-999.00	-999.00	-999.00	21.00	0.00	97.10	97.80	17.00	0.00	-999.00	-999.00	
24	1.50	0.00	106.80	-999.00	-999.00	-999.00	19.30	0.00	97.00	97.10	16.80	0.00	-999.00	-999.00	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB	MCNARY	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	PASCO	
1	14.00	0.00	-999.00	-999.00	11.00	0.00	94.60	95.50	0.00	96.40	96.30	96.30	97.80		
2	13.70	0.00	-999.00	-999.00	9.30	0.00	94.60	95.60	0.00	96.50	96.30	96.30	97.80		
3	15.20	0.00	-999.00	-999.00	9.30	0.00	94.60	95.70	0.00	96.50	96.40	96.20	97.70		
4	15.20	0.00	-999.00	-999.00	9.30	0.00	94.60	95.70	0.00	96.40	96.40	96.20	97.60		
5	13.70	0.00	-999.00	-999.00	10.90	0.00	94.70	95.70	0.00	96.50	96.50	96.50	97.60		
6	13.90	0.00	-999.00	-999.00	9.30	0.00	94.80	95.80	0.00	96.40	96.50	96.60	97.50		
7	18.30	0.00	-999.00	-999.00	11.90	0.00	94.90	95.90	0.00	96.70	96.70	96.70	97.40		
8	18.50	0.00	-999.00	-999.00	13.60	0.00	94.90	96.20	0.00	96.60	96.90	96.80	97.50		
9	20.00	0.00	-999.00	-999.00	12.10	0.00	94.90	96.40	0.00	96.70	97.00	97.00	97.50		
10	18.40	0.00	-999.00	-999.00	12.80	0.00	95.00	96.70	0.00	96.60	97.00	97.00	97.40		
11	18.40	0.00	-999.00	-999.00	19.80	0.00	94.90	96.90	0.00	96.40	96.70	96.60	97.30		
12	18.40	0.00	-999.00	-999.00	19.60	0.00	94.80	97.20	0.00	96.30	96.60	96.50	97.30		
13	18.80	0.00	-999.00	-999.00	19.60	0.00	94.80	97.00	0.00	96.30	96.60	96.60	97.30		
14	16.90	0.00	-999.00	-999.00	22.30	0.00	94.90	96.90	0.00	96.50	96.60	96.60	97.40		
15	16.70	0.00	-999.00	-999.00	21.80	0.00	95.10	96.70	0.00	96.70	96.50	96.60	97.40		
16	16.70	0.00	-999.00	-999.00	21.30	0.00	95.20	96.60	0.00	96.70	96.40	96.60	97.50		
17	16.70	0.00	-999.00	-999.00	21.20	0.00	95.10	96.80	0.00	96.60	96.30	96.50	97.60		
18	19.10	0.00	-999.00	-999.00	19.70	0.00	95.10	96.50	0.00	96.40	96.10	96.30	97.60		
19	20.40	0.00	-999.00	-999.00	19.50	0.00	94.90	96.30	0.00	96.30	96.00	96.20	97.70		
20	18.90	0.00	-999.00	-999.00	19.60	0.00	94.90	96.20	0.00	96.30	96.00	96.20	97.70		
21	19.00	0.00	-999.00	-999.00	19.90	0.00	94.90	96.00	0.00	96.20	96.00	96.10	97.60		
22	19.00	0.00	-999.00	-999.00	21.00	0.00	94.80	95.90	0.00	96.00	95.90	96.10	97.70		
23	18.90	0.00	-999.00	-999.00	19.50	0.00	94.80	95.90	0.00	96.10	95.90	96.20	97.70		
24	20.60	0.00	-999.00	-999.00	19.20	0.00	94.70	95.90	0.00	96.00	95.80	96.20	97.50		

13 NOV 2002

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

13 NOV 2002

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	LOWER GRANITE	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.		
1	1.50	0.00	106.70	-999.00	-999.00	-999.00	13.30	0.00	97.00	97.20	13.50	0.00	-999.00	-999.00	
2	1.50	0.00	106.60	-999.00	-999.00	-999.00	13.00	0.00	96.90	97.00	13.10	0.00	-999.00	-999.00	
3	1.50	0.00	106.60	-999.00	-999.00	-999.00	13.70	0.00	96.90	96.90	12.60	0.00	-999.00	-999.00	
4	1.50	0.00	106.60	-999.00	-999.00	-999.00	13.60	0.00	96.80	96.80	12.60	0.00	-999.00	-999.00	
5	1.50	0.00	106.70	-999.00	-999.00	-999.00	13.60	0.00	96.90	97.00	12.50	0.00	-999.00	-999.00	
6	1.50	0.00	106.60	-999.00	-999.00	-999.00	13.80	0.00	96.80	96.90	12.80	0.00	-999.00	-999.00	
7	1.50	0.00	106.60	-999.00	-999.00	-999.00	18.90	0.00	96.70	96.70	14.10	0.00	-999.00	-999.00	
8	1.50	0.00	106.80	-999.00	-999.00	-999.00	20.00	0.00	96.70	97.20	16.50	0.00	-999.00	-999.00	
9	1.50	0.00	107.00	-999.00	-999.00	-999.00	17.90	0.00	96.60	97.60	17.90	0.00	-999.00	-999.00	
10	1.50	0.00	107.20	-999.00	-999.00	-999.00	17.80	0.00	96.70	97.00	18.70	0.00	-999.00	-999.00	
11	1.50	0.00	107.60	-999.00	-999.00	-999.00	16.50	0.00	96.60	97.10	18.70	0.00	-999.00	-999.00	
12	1.50	0.00	107.90	-999.00	-999.00	-999.00	16.40	0.00	96.70	97.10	18.70	0.00	-999.00	-999.00	
13	1.50	0.00	108.10	-999.00	-999.00	-999.00	16.70	0.00	96.70	97.10	18.70	0.00	-999.00	-999.00	
14	1.50	0.00	108.00	-999.00	-999.00	-999.00	16.40	0.00	96.70	97.10	18.70	0.00	-999.00	-999.00	
15	1.50	0.00	107.80	-999.00	-999.00	-999.00	16.40	0.00	96.50	97.10	19.00	0.00	-999.00	-999.00	
16	1.50	0.00	107.40	-999.00	-999.00	-999.00	16.10	0.00	96.40	97.10	18.60	0.00	-999.00	-999.00	
17	1.50	0.00	106.90	-999.00	-999.00	-999.00	16.20	0.00	96.50	97.00	18.90	0.00	-999.00	-999.00	
18	1.50	0.00	106.70	-999.00	-999.00	-999.00	16.10	0.00	96.70	96.90	18.70	0.00	-999.00	-999.00	
19	1.50	0.00	106.60	-999.00	-999.00	-999.00	16.00	0.00	96.70	97.00	18.60	0.00	-999.00	-999.00	
20	1.50	0.00	106.70	-999.00	-999.00	-999.00	16.40	0.00	96.70	97.00	19.00	0.00	-999.00	-999.00	
21	1.50	0.00	106.70	-999.00	-999.00	-999.00	16.40	0.00	96.80	97.10	19.20	0.00	-999.00	-999.00	
22	1.50	0.00	106.70	-999.00	-999.00	-999.00	17.60	0.00	96.80	97.10	19.80	0.00	-999.00	-999.00	
23	1.50	0.00	106.80	-999.00	-999.00	-999.00	18.10	0.00	96.80	97.10	19.20	0.00	-999.00	-999.00	
24	1.50	0.00	106.80	-999.00	-999.00	-999.00	17.70	0.00	96.90	97.10	19.50	0.00	-999.00	-999.00	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB	WA TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB	GAS %SAT	
1	15.60	0.00	-999.00	-999.00	12.20	0.00	94.70	95.70	0.00	96.10	95.80	96.10	0.00	97.50	
2	14.00	0.00	-999.00	-999.00	12.70	0.00	94.60	95.90	0.00	96.10	95.70	96.10	0.00	97.30	
3	13.80	0.00	-999.00	-999.00	12.00	0.00	94.70	95.90	0.00	96.20	95.80	96.10	0.00	97.30	
4	13.70	0.00	-999.00	-999.00	13.80	0.00	94.60	95.90	0.00	95.80	95.80	95.90	0.00	97.10	
5	13.80	0.00	-999.00	-999.00	12.70	0.00	94.60	95.80	0.00	95.80	95.70	95.90	0.00	96.90	
6	13.70	0.00	-999.00	-999.00	12.40	0.00	94.60	95.80	0.00	95.80	95.70	95.90	0.00	96.70	
7	13.90	0.00	-999.00	-999.00	14.50	0.00	94.30	95.80	0.00	95.60	95.70	95.80	0.00	96.70	
8	19.40	0.00	-999.00	-999.00	19.60	0.00	94.40	96.00	0.00	95.60	95.60	95.90	0.00	96.60	
9	19.50	0.00	-999.00	-999.00	19.60	0.00	94.30	96.30	0.00	95.50	95.70	96.00	0.00	96.60	
10	19.80	0.00	-999.00	-999.00	19.60	0.00	94.50	96.20	0.00	95.90	95.60	96.30	0.00	96.70	
11	20.20	0.00	-999.00	-999.00	19.60	0.00	94.40	96.50	0.00	95.90	95.60	96.50	0.00	96.70	
12	21.00	0.00	-999.00	-999.00	19.60	0.00	94.50	96.40	0.00	96.10	95.70	96.60	0.00	96.70	
13	19.60	0.00	-999.00	-999.00	20.00	0.00	94.60	96.60	0.00	96.10	95.80	96.60	0.00	96.90	
14	19.60	0.00	-999.00	-999.00	19.60	0.00	94.60	96.50	0.00	96.20	95.80	96.60	0.00	97.00	
15	19.90	0.00	-999.00	-999.00	19.50	0.00	94.60	96.40	0.00	96.20	95.80	96.50	0.00	97.20	
16	19.40	0.00	-999.00	-999.00	21.00	0.00	94.60	96.40	0.00	96.20	95.80	96.40	0.00	97.30	
17	19.20	0.00	-999.00	-999.00	19.60	0.00	94.40	96.20	0.00	96.20	95.90	96.50	0.00	97.40	
18	19.40	0.00	-999.00	-999.00	20.20	0.00	94.40	96.10	0.00	96.20	95.80	96.30	0.00	97.60	
19	19.30	0.00	-999.00	-999.00	19.90	0.00	94.50	96.10	0.00	96.20	95.80	96.30	0.00	97.70	
20	21.50	0.00	-999.00	-999.00	21.90	0.00	94.60	96.10	0.00	96.20	95.80	96.30	0.00	97.80	
21	22.10	0.00	-999.00	-999.00	22.00	0.00	94.50	95.90	0.00	96.40	96.00	96.30	0.00	97.80	
22	21.60	0.00	-999.00	-999.00	21.90	0.00	94.70	95.90	0.00	96.20	96.00	96.20	0.00	97.80	
23	21.70	0.00	-999.00	-999.00	22.00	0.00	94.70	95.90	0.00	96.20	95.90	96.20	0.00	97.70	
24	21.60	0.00	-999.00	-999.00	21.50	0.00	94.70	95.80	0.00	96.20	96.00	96.20	0.00	97.70	

14 NOV 2002

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

14 NOV 2002

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	LOWER GRANITE	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.		
1	1.50	0.00	106.80	-999.00	-999.00	-999.00	16.40	0.00	97.10	97.20	17.20	0.00	-999.00	-999.00	
2	1.50	0.00	106.80	-999.00	-999.00	-999.00	15.60	0.00	97.10	97.20	14.70	0.00	-999.00	-999.00	
3	1.50	0.00	106.70	-999.00	-999.00	-999.00	15.70	0.00	97.20	97.20	14.60	0.00	-999.00	-999.00	
4	1.50	0.00	106.60	-999.00	-999.00	-999.00	15.20	0.00	97.20	97.20	14.60	0.00	-999.00	-999.00	
5	1.50	0.00	106.70	-999.00	-999.00	-999.00	15.00	0.00	97.40	97.20	14.80	0.00	-999.00	-999.00	
6	1.50	0.00	106.70	-999.00	-999.00	-999.00	15.40	0.00	97.40	97.30	14.70	0.00	-999.00	-999.00	
7	1.50	0.00	106.70	-999.00	-999.00	-999.00	16.30	0.00	97.40	97.30	16.00	0.00	-999.00	-999.00	
8	1.50	0.00	106.80	-999.00	-999.00	-999.00	16.30	0.00	97.30	97.20	16.20	0.00	-999.00	-999.00	
9	1.50	0.00	107.00	-999.00	-999.00	-999.00	16.60	0.00	97.20	97.30	16.20	0.00	-999.00	-999.00	
10	1.50	0.00	107.40	-999.00	-999.00	-999.00	16.20	0.00	97.20	97.10	16.50	0.00	-999.00	-999.00	
11	1.50	0.00	107.50	-999.00	-999.00	-999.00	16.20	0.00	97.20	97.30	16.10	0.00	-999.00	-999.00	
12	1.50	0.00	107.70	-999.00	-999.00	-999.00	16.20	0.00	97.30	97.50	16.10	0.00	-999.00	-999.00	
13	1.50	0.00	107.70	-999.00	-999.00	-999.00	16.20	0.00	97.40	97.50	15.40	0.00	-999.00	-999.00	
14	1.50	0.00	107.70	-999.00	-999.00	-999.00	17.30	0.00	97.40	97.40	16.40	0.00	-999.00	-999.00	
15	1.50	0.00	107.80	-999.00	-999.00	-999.00	18.90	0.00	97.30	97.40	16.20	0.00	-999.00	-999.00	
16	1.50	0.00	107.20	-999.00	-999.00	-999.00	17.30	0.00	97.30	97.30	16.30	0.00	-999.00	-999.00	
17	1.50	0.00	106.70	-999.00	-999.00	-999.00	16.80	0.00	97.20	97.20	16.40	0.00	-999.00	-999.00	
18	1.50	0.00	105.90	-999.00	-999.00	-999.00	19.00	0.00	97.20	97.10	18.90	0.00	-999.00	-999.00	
19	1.50	0.00	105.30	-999.00	-999.00	-999.00	21.50	0.00	97.20	96.90	22.20	0.00	-999.00	-999.00	
20	1.50	0.00	105.40	-999.00	-999.00	-999.00	22.00	0.00	97.10	96.90	21.80	0.00	-999.00	-999.00	
21	1.50	0.00	105.50	-999.00	-999.00	-999.00	21.10	0.00	97.20	96.90	21.10	0.00	-999.00	-999.00	
22	1.50	0.00	105.50	-999.00	-999.00	-999.00	19.10	0.00	97.00	96.80	18.80	0.00	-999.00	-999.00	
23	1.50	0.00	105.40	-999.00	-999.00	-999.00	12.90	0.00	96.90	97.00	13.20	0.00	-999.00	-999.00	
24	1.50	0.00	105.40	-999.00	-999.00	-999.00	12.80	0.00	96.80	97.10	12.70	0.00	-999.00	-999.00	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB	WA TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB	GAS %SAT	
1	17.20	0.00	-999.00	-999.00	19.70	0.00	94.70	95.80	0.00	96.20	95.90	96.30	0.00	97.50	
2	14.70	0.00	-999.00	-999.00	13.30	0.00	94.60	95.80	0.00	96.20	95.90	96.30	0.00	97.50	
3	14.40	0.00	-999.00	-999.00	12.20	0.00	94.70	95.80	0.00	96.00	95.90	96.20	0.00	97.40	
4	14.40	0.00	-999.00	-999.00	9.50	0.00	94.70	95.80	0.00	96.30	95.90	96.30	0.00	97.30	
5	14.30	0.00	-999.00	-999.00	9.20	0.00	94.70	95.70	0.00	96.30	96.00	96.20	0.00	97.30	
6	14.40	0.00	-999.00	-999.00	9.30	0.00	94.60	95.70	0.00	96.10	95.90	96.50	0.00	97.10	
7	16.60	0.00	-999.00	-999.00	12.20	0.00	94.60	95.60	0.00	95.90	95.90	96.40	0.00	96.90	
8	17.10	0.00	-999.00	-999.00	12.40	0.00	94.50	95.80	0.00	95.80	95.80	96.30	0.00	96.70	
9	16.90	0.00	-999.00	-999.00	12.60	0.00	94.50	96.00	0.00	95.80	95.70	96.20	0.00	96.50	
10	16.90	0.00	-999.00	-999.00	12.40	0.00	94.50	95.80	0.00	95.90	95.80	96.30	0.00	96.40	
11	16.90	0.00	-999.00	-999.00	12.50	0.00	94.50	96.10	0.00	96.10	95.70	96.50	0.00	96.30	
12	16.80	0.00	-999.00	-999.00	13.90	0.00	94.50	96.20	0.00	96.40	95.90	96.60	0.00	96.40	
13	16.40	0.00	-999.00	-999.00	17.60	0.00	94.70	96.70	0.00	96.60	96.00	96.80	0.00	96.40	
14	16.60	0.00	-999.00	-999.00	19.90	0.00	94.70	96.50	0.00	96.60	96.00	96.80	0.00	96.60	
15	16.90	0.00	-999.00	-999.00	19.60	0.00	94.60	96.70	0.00	96.80	95.90	96.70	0.00	96.70	
16	16.60	0.00	-999.00	-999.00	19.70	0.00	94.60	96.80	0.00	96.90	95.90	96.50	0.00	96.70	
17	18.30	0.00	-999.00	-999.00	19.60	0.00	94.60	96.50	0.00	96.90	95.80	96.30	0.00	96.80	
18	18.80	0.00	-999.00	-999.00	19.60	0.00	94.50	96.40	0.00	97.00	96.00	96.30	0.00	96.90	
19	21.40	0.00	-999.00	-999.00	20.50	0.00	94.50	96.20	0.00	97.00	96.00	96.10	0.00	97.00	
20	21.30	0.00	-999.00	-999.00	21.60	0.00	94.50	96.00	0.00	96.90	95.90	96.10	0.00	97.00	
21	21.20	0.00	-999.00	-999.00	20.10	0.00	94.50	95.90	0.00	96.90	95.90	96.10	0.00	97.20	
22	18.80	0.00	-999.00	-999.00	19.80	0.00	94.40	95.80	0.00	96.90	96.00	96.10	0.00	97.30	
23	13.50	0.00	-999.00	-999.00	11.80	0.00	94.40	95.90	0.00	96.80	96.00	96.10	0.00	97.30	
24	13.30	0.00	-999.00	-999.00	9.50	0.00	94.50	96.00	0.00	96.80	96.00	96.10	0.00	97.20	

15 NOV 2002

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

15 NOV 2002

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	LITTLE GOOSE	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.		
1	1.50	0.00	105.40	-999.00	-999.00	-999.00	12.80	0.00	96.90	97.00	12.70	0.00	-999.00	-999.00	-999.00
2	1.50	0.00	105.20	-999.00	-999.00	-999.00	12.80	0.00	97.00	97.00	12.70	0.00	-999.00	-999.00	-999.00
3	1.50	0.00	105.10	-999.00	-999.00	-999.00	12.80	0.00	97.20	97.10	12.70	0.00	-999.00	-999.00	-999.00
4	1.50	0.00	105.10	-999.00	-999.00	-999.00	12.90	0.00	97.30	97.10	12.90	0.00	-999.00	-999.00	-999.00
5	1.50	0.00	105.20	-999.00	-999.00	-999.00	12.90	0.00	97.30	97.10	12.70	0.00	-999.00	-999.00	-999.00
6	1.50	0.00	105.10	-999.00	-999.00	-999.00	13.10	0.00	97.40	97.20	12.60	0.00	-999.00	-999.00	-999.00
7	1.50	0.00	105.20	-999.00	-999.00	-999.00	13.00	0.00	97.60	97.30	12.60	0.00	-999.00	-999.00	-999.00
8	1.50	0.00	105.70	-999.00	-999.00	-999.00	17.50	0.00	97.60	97.20	17.50	0.00	-999.00	-999.00	-999.00
9	1.50	0.00	106.00	-999.00	-999.00	-999.00	19.20	0.00	97.60	97.30	19.40	0.00	-999.00	-999.00	-999.00
10	1.50	0.00	106.30	-999.00	-999.00	-999.00	19.50	0.00	97.60	97.40	19.30	0.00	-999.00	-999.00	-999.00
11	1.50	0.00	106.50	-999.00	-999.00	-999.00	21.00	0.00	97.70	97.50	20.70	0.00	-999.00	-999.00	-999.00
12	1.50	0.00	106.70	-999.00	-999.00	-999.00	20.50	0.00	97.80	97.60	20.80	0.00	-999.00	-999.00	-999.00
13	1.50	0.00	106.80	-999.00	-999.00	-999.00	20.40	0.00	98.00	97.70	20.70	0.00	-999.00	-999.00	-999.00
14	1.50	0.00	106.90	-999.00	-999.00	-999.00	17.90	0.00	98.00	97.80	21.20	0.00	-999.00	-999.00	-999.00
15	1.50	0.00	106.70	-999.00	-999.00	-999.00	17.80	0.00	98.10	97.90	18.10	0.00	-999.00	-999.00	-999.00
16	1.50	0.00	106.30	-999.00	-999.00	-999.00	17.90	0.00	98.10	97.90	17.70	0.00	-999.00	-999.00	-999.00
17	1.50	0.00	106.10	-999.00	-999.00	-999.00	18.00	0.00	98.20	98.00	17.50	0.00	-999.00	-999.00	-999.00
18	1.50	0.00	105.90	-999.00	-999.00	-999.00	17.50	0.00	98.40	98.00	17.40	0.00	-999.00	-999.00	-999.00
19	1.50	0.00	105.50	-999.00	-999.00	-999.00	17.70	0.00	98.40	98.10	17.10	0.00	-999.00	-999.00	-999.00
20	1.50	0.00	105.50	-999.00	-999.00	-999.00	17.60	0.00	98.40	98.10	17.10	0.00	-999.00	-999.00	-999.00
21	1.50	0.00	105.40	-999.00	-999.00	-999.00	17.80	0.00	98.50	98.10	17.10	0.00	-999.00	-999.00	-999.00
22	1.50	0.00	105.50	-999.00	-999.00	-999.00	15.70	0.00	98.60	98.20	17.00	0.00	-999.00	-999.00	-999.00
23	1.50	0.00	105.40	-999.00	-999.00	-999.00	14.30	0.00	98.60	98.40	15.30	0.00	-999.00	-999.00	-999.00
24	1.50	0.00	105.40	-999.00	-999.00	-999.00	14.40	0.00	98.60	98.40	14.30	0.00	-999.00	-999.00	-999.00

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	PASCO	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	GAS %SAT	
1	13.40	0.00	-999.00	-999.00	9.30	0.00	94.50	95.90	59.30	0.00	96.70	96.00	96.10	97.20	
2	13.60	0.00	-999.00	-999.00	9.30	0.00	94.50	95.80	65.60	0.00	96.60	95.90	96.20	97.00	
3	13.80	0.00	-999.00	-999.00	11.80	0.00	94.50	95.60	78.30	0.00	96.50	95.90	96.50	97.00	
4	13.60	0.00	-999.00	-999.00	11.90	0.00	94.50	95.70	78.80	0.00	96.50	96.00	96.60	97.00	
5	13.60	0.00	-999.00	-999.00	11.90	0.00	94.50	95.70	81.80	0.00	96.50	96.00	96.40	96.80	
6	13.60	0.00	-999.00	-999.00	12.30	0.00	94.60	95.70	141.50	0.00	96.40	96.00	96.50	96.90	
7	13.80	0.00	-999.00	-999.00	12.10	0.00	94.60	95.90	144.70	0.00	96.30	96.00	96.60	96.70	
8	17.40	0.00	-999.00	-999.00	12.80	0.00	94.60	95.90	145.40	0.00	96.30	96.00	96.50	96.70	
9	19.10	0.00	-999.00	-999.00	19.50	0.00	94.70	96.00	145.80	0.00	96.40	96.00	96.50	96.60	
10	18.90	0.00	-999.00	-999.00	19.50	0.00	94.70	96.10	130.10	0.00	96.50	96.00	96.40	96.70	
11	20.30	0.00	-999.00	-999.00	19.90	0.00	94.90	96.40	131.70	0.00	96.70	96.20	96.60	96.60	
12	20.30	0.00	-999.00	-999.00	19.60	0.00	94.90	96.40	133.10	0.00	96.80	96.50	96.90	96.70	
13	20.40	0.00	-999.00	-999.00	19.60	0.00	94.90	96.70	133.10	0.00	97.00	96.60	96.90	96.80	
14	20.40	0.00	-999.00	-999.00	19.60	0.00	95.10	96.70	147.20	0.00	97.20	96.60	97.10	96.90	
15	20.70	0.00	-999.00	-999.00	19.50	0.00	95.20	96.80	146.70	0.00	97.40	96.80	97.10	97.00	
16	20.30	0.00	-999.00	-999.00	19.90	0.00	95.40	96.60	147.30	0.00	97.60	96.90	97.10	97.00	
17	21.90	0.00	-999.00	-999.00	19.50	0.00	95.40	96.70	147.50	0.00	97.50	97.00	97.20	97.20	
18	20.30	0.00	-999.00	-999.00	19.50	0.00	95.40	96.70	147.40	0.00	97.60	97.20	97.10	97.20	
19	20.30	0.00	-999.00	-999.00	19.50	0.00	95.60	96.70	138.50	0.00	97.50	97.20	97.10	97.40	
20	20.40	0.00	-999.00	-999.00	19.40	0.00	95.50	96.60	137.90	0.00	97.50	97.20	97.10	97.40	
21	19.50	0.00	-999.00	-999.00	20.00	0.00	95.50	96.70	137.10	0.00	97.40	97.10	97.30	97.50	
22	18.70	0.00	-999.00	-999.00	25.20	0.00	95.60	96.80	99.40	0.00	97.50	97.30	97.40	97.50	
23	16.80	0.00	-999.00	-999.00	25.50	0.00	95.70	96.70	90.30	0.00	97.40	97.20	97.40	97.60	
24	14.50	0.00	-999.00	-999.00	21.70	0.00	95.60	96.70	88.20	0.00	97.40	97.30	97.50	97.60	

16 NOV 2002

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

16 NOV 2002

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	LOWER GRANITE	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.		
1	1.50	0.00	105.60	-999.00	-999.00	-999.00	14.40	0.00	98.70	98.50	14.10	0.00	-999.00	-999.00	
2	1.50	0.00	105.60	-999.00	-999.00	-999.00	14.50	0.00	98.70	98.50	14.10	0.00	-999.00	-999.00	
3	1.50	0.00	105.80	-999.00	-999.00	-999.00	14.60	0.00	98.80	98.60	14.40	0.00	-999.00	-999.00	
4	1.50	0.00	105.60	-999.00	-999.00	-999.00	14.60	0.00	98.90	98.70	14.20	0.00	-999.00	-999.00	
5	1.50	0.00	105.50	-999.00	-999.00	-999.00	15.20	0.00	98.90	98.60	14.20	0.00	-999.00	-999.00	
6	1.50	0.00	105.50	-999.00	-999.00	-999.00	15.20	0.00	99.00	98.60	14.30	0.00	-999.00	-999.00	
7	1.50	0.00	105.40	-999.00	-999.00	-999.00	17.70	0.00	99.00	98.80	17.00	0.00	-999.00	-999.00	
8	1.50	0.00	106.30	-999.00	-999.00	-999.00	17.90	0.00	99.10	98.80	17.50	0.00	-999.00	-999.00	
9	1.50	0.00	107.60	-999.00	-999.00	-999.00	19.10	0.00	99.10	98.80	18.50	0.00	-999.00	-999.00	
10	1.50	0.00	105.40	-999.00	-999.00	-999.00	19.50	0.00	99.30	98.90	19.60	0.00	-999.00	-999.00	
11	1.50	0.00	104.40	-999.00	-999.00	-999.00	19.70	0.00	99.40	99.10	19.90	0.00	-999.00	-999.00	
12	1.50	0.00	104.40	-999.00	-999.00	-999.00	19.20	0.00	99.60	99.20	20.00	0.00	-999.00	-999.00	
13	1.50	0.00	104.30	-999.00	-999.00	-999.00	17.90	0.00	99.60	99.20	19.60	0.00	-999.00	-999.00	
14	1.50	0.00	104.10	-999.00	-999.00	-999.00	17.50	0.00	99.60	99.20	17.40	0.00	-999.00	-999.00	
15	1.50	0.00	103.90	-999.00	-999.00	-999.00	17.50	0.00	99.50	99.10	17.30	0.00	-999.00	-999.00	
16	1.50	0.00	103.80	-999.00	-999.00	-999.00	16.70	0.00	99.40	99.20	15.90	0.00	-999.00	-999.00	
17	1.50	0.00	103.50	-999.00	-999.00	-999.00	16.40	0.00	99.40	99.10	15.80	0.00	-999.00	-999.00	
18	1.50	0.00	103.20	-999.00	-999.00	-999.00	15.60	0.00	99.40	99.10	14.80	0.00	-999.00	-999.00	
19	1.50	0.00	103.20	-999.00	-999.00	-999.00	15.60	0.00	99.30	99.00	14.50	0.00	-999.00	-999.00	
20	1.50	0.00	103.10	-999.00	-999.00	-999.00	15.60	0.00	99.20	99.00	13.30	0.00	-999.00	-999.00	
21	1.50	0.00	103.10	-999.00	-999.00	-999.00	15.90	0.00	99.20	98.80	13.20	0.00	-999.00	-999.00	
22	1.50	0.00	103.00	-999.00	-999.00	-999.00	15.60	0.00	99.10	98.70	13.60	0.00	-999.00	-999.00	
23	1.50	0.00	103.10	-999.00	-999.00	-999.00	15.60	0.00	99.00	98.60	13.20	0.00	-999.00	-999.00	
24	1.50	0.00	103.10	-999.00	-999.00	-999.00	15.60	0.00	99.00	98.60	13.20	0.00	-999.00	-999.00	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB	MCNARY	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	GAS %SAT	
1	14.40	0.00	-999.00	-999.00	13.90	0.00	95.60	96.80	0.00	97.30	97.30	97.40	0.00	97.70	
2	14.40	0.00	-999.00	-999.00	12.50	0.00	95.70	96.80	0.00	97.30	97.30	97.40	0.00	97.60	
3	14.40	0.00	-999.00	-999.00	9.60	0.00	95.70	96.70	0.00	97.20	97.20	97.50	0.00	97.50	
4	14.70	0.00	-999.00	-999.00	9.30	0.00	95.70	96.80	0.00	97.30	97.20	97.40	0.00	97.50	
5	14.40	0.00	-999.00	-999.00	9.30	0.00	95.70	96.70	0.00	97.40	97.30	97.50	0.00	97.40	
6	14.50	0.00	-999.00	-999.00	9.40	0.00	95.80	96.80	0.00	97.40	97.30	97.70	0.00	97.40	
7	17.20	0.00	-999.00	-999.00	12.60	0.00	95.90	96.90	0.00	97.50	97.40	97.80	0.00	97.40	
8	17.40	0.00	-999.00	-999.00	13.10	0.00	95.90	96.90	0.00	97.60	97.50	97.90	0.00	97.30	
9	20.30	0.00	-999.00	-999.00	18.80	0.00	96.10	97.10	0.00	97.60	97.50	97.70	0.00	97.30	
10	21.30	0.00	-999.00	-999.00	21.10	0.00	96.20	97.40	0.00	97.80	97.60	97.90	0.00	97.50	
11	20.80	0.00	-999.00	-999.00	21.20	0.00	96.20	97.60	0.00	98.00	97.60	98.00	0.00	97.50	
12	20.80	0.00	-999.00	-999.00	21.30	0.00	96.20	97.40	0.00	98.00	97.60	97.90	0.00	97.40	
13	20.80	0.00	-999.00	-999.00	22.90	0.00	96.10	97.50	0.00	97.80	97.70	98.00	0.00	97.30	
14	19.30	0.00	-999.00	-999.00	22.60	0.00	96.20	97.50	0.00	98.00	97.70	98.10	0.00	97.60	
15	19.60	0.00	-999.00	-999.00	22.50	0.00	96.30	97.80	0.00	98.40	97.90	98.20	0.00	97.90	
16	17.80	0.00	-999.00	-999.00	19.80	0.00	96.30	97.60	0.00	98.60	98.00	98.10	0.00	98.00	
17	17.70	0.00	-999.00	-999.00	19.70	0.00	96.30	97.60	0.00	98.30	97.90	98.00	0.00	98.00	
18	16.30	0.00	-999.00	-999.00	20.00	0.00	96.30	97.50	0.00	98.20	97.80	97.90	0.00	98.30	
19	16.10	0.00	-999.00	-999.00	19.00	0.00	96.20	97.30	0.00	98.00	97.60	97.70	0.00	98.10	
20	13.90	0.00	-999.00	-999.00	12.10	0.00	96.10	97.20	0.00	97.90	97.50	97.60	0.00	98.00	
21	14.00	0.00	-999.00	-999.00	11.80	0.00	96.00	97.10	0.00	97.80	97.50	97.60	0.00	98.00	
22	13.70	0.00	-999.00	-999.00	11.80	0.00	96.00	97.00	0.00	97.60	97.40	97.60	0.00	97.70	
23	13.70	0.00	-999.00	-999.00	12.00	0.00	95.80	96.90	0.00	97.60	97.30	97.70	0.00	97.50	
24	13.60	0.00	-999.00	-999.00	11.80	0.00	95.90	96.90	0.00	97.40	97.00	97.50	0.00	97.40	

17 NOV 2002

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

17 NOV 2002

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	LOWER GRANITE	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.		
1	1.50	0.00	103.00	-999.00	-999.00	-999.00	15.60	0.00	98.70	98.50	13.20	0.00	-999.00	-999.00	
2	1.50	0.00	103.00	-999.00	-999.00	-999.00	15.50	0.00	98.70	98.40	13.10	0.00	-999.00	-999.00	
3	1.50	0.00	102.80	-999.00	-999.00	-999.00	13.30	0.00	98.60	98.40	12.90	0.00	-999.00	-999.00	
4	1.50	0.00	102.80	-999.00	-999.00	-999.00	13.20	0.00	98.50	98.40	12.60	0.00	-999.00	-999.00	
5	1.50	0.00	102.80	-999.00	-999.00	-999.00	20.50	0.00	98.50	98.20	12.80	0.00	-999.00	-999.00	
6	1.50	0.00	102.90	-999.00	-999.00	-999.00	20.70	0.00	98.30	98.30	12.80	0.00	-999.00	-999.00	
7	1.50	0.00	102.80	-999.00	-999.00	-999.00	20.80	0.00	98.30	98.10	12.90	0.00	-999.00	-999.00	
8	1.50	0.00	102.80	-999.00	-999.00	-999.00	20.90	0.00	98.20	98.10	12.90	0.00	-999.00	-999.00	
9	1.50	0.00	103.10	-999.00	-999.00	-999.00	18.00	0.00	98.10	98.00	14.10	0.00	-999.00	-999.00	
10	1.50	0.00	103.50	-999.00	-999.00	-999.00	16.50	0.00	98.00	97.90	14.10	0.00	-999.00	-999.00	
11	1.50	0.00	103.70	-999.00	-999.00	-999.00	15.10	0.00	98.00	97.90	15.50	0.00	-999.00	-999.00	
12	1.50	0.00	103.70	-999.00	-999.00	-999.00	15.00	0.00	98.10	97.90	17.80	0.00	-999.00	-999.00	
13	1.50	0.00	103.90	-999.00	-999.00	-999.00	15.60	0.00	98.20	98.70	18.80	0.00	-999.00	-999.00	
14	1.50	0.00	103.70	-999.00	-999.00	-999.00	13.10	0.00	98.00	98.20	18.50	0.00	-999.00	-999.00	
15	1.50	0.00	103.40	-999.00	-999.00	-999.00	14.80	0.00	98.00	98.00	18.50	0.00	-999.00	-999.00	
16	1.50	0.00	103.20	-999.00	-999.00	-999.00	13.10	0.00	98.00	99.40	18.70	0.00	-999.00	-999.00	
17	1.50	0.00	102.70	-999.00	-999.00	-999.00	14.10	0.00	97.80	98.30	18.60	0.00	-999.00	-999.00	
18	1.50	0.00	102.50	-999.00	-999.00	-999.00	15.60	0.00	97.80	98.00	20.30	0.00	-999.00	-999.00	
19	1.50	0.00	102.50	-999.00	-999.00	-999.00	15.90	0.00	97.80	97.70	20.20	0.00	-999.00	-999.00	
20	1.50	0.00	102.40	-999.00	-999.00	-999.00	15.50	0.00	97.70	97.70	20.20	0.00	-999.00	-999.00	
21	1.50	0.00	102.50	-999.00	-999.00	-999.00	15.30	0.00	97.70	97.60	21.70	0.00	-999.00	-999.00	
22	1.50	0.00	102.50	-999.00	-999.00	-999.00	14.30	0.00	97.60	97.60	20.40	0.00	-999.00	-999.00	
23	1.50	0.00	102.30	-999.00	-999.00	-999.00	14.30	0.00	97.60	97.50	20.00	0.00	-999.00	-999.00	
24	1.50	0.00	102.30	-999.00	-999.00	-999.00	14.40	0.00	97.50	97.50	19.90	0.00	-999.00	-999.00	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB	WA TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB	GAS %SAT	
1	13.70	0.00	-999.00	-999.00	11.80	0.00	95.60	96.80	0.00	97.40	97.20	97.50	0.00	97.30	
2	13.70	0.00	-999.00	-999.00	11.80	0.00	95.60	96.80	0.00	97.30	97.00	97.30	0.00	97.00	
3	13.90	0.00	-999.00	-999.00	11.80	0.00	95.60	96.80	0.00	97.30	96.80	97.20	0.00	96.80	
4	13.70	0.00	-999.00	-999.00	12.00	0.00	95.50	96.80	0.00	97.30	96.80	97.20	0.00	96.80	
5	13.70	0.00	-999.00	-999.00	12.10	0.00	95.30	96.90	0.00	97.10	96.80	97.10	0.00	96.60	
6	13.70	0.00	-999.00	-999.00	12.20	0.00	95.10	96.80	0.00	97.10	96.70	97.00	0.00	96.40	
7	13.70	0.00	-999.00	-999.00	12.20	0.00	95.00	96.80	0.00	96.90	96.60	97.00	0.00	96.40	
8	13.60	0.00	-999.00	-999.00	12.20	0.00	94.70	96.80	0.00	96.90	96.50	96.90	0.00	96.30	
9	14.20	0.00	-999.00	-999.00	12.10	0.00	94.50	96.70	0.00	96.80	96.40	97.00	0.00	96.40	
10	13.90	0.00	-999.00	-999.00	12.30	0.00	94.50	96.80	0.00	96.70	96.50	97.10	0.00	96.30	
11	13.70	0.00	-999.00	-999.00	13.70	0.00	94.40	96.70	0.00	96.80	96.50	97.20	0.00	96.40	
12	13.80	0.00	-999.00	-999.00	13.70	0.00	94.40	96.90	0.00	96.90	96.70	97.50	0.00	96.60	
13	13.90	0.00	-999.00	-999.00	13.80	0.00	94.60	97.50	0.00	96.90	96.70	97.60	0.00	96.70	
14	14.10	0.00	-999.00	-999.00	12.50	0.00	94.60	97.20	0.00	97.00	96.70	97.40	0.00	96.60	
15	14.40	0.00	-999.00	-999.00	12.20	0.00	94.60	97.40	0.00	97.00	96.60	97.30	0.00	96.90	
16	14.30	0.00	-999.00	-999.00	13.00	0.00	94.70	97.40	0.00	97.10	96.60	97.10	0.00	97.00	
17	17.00	0.00	-999.00	-999.00	19.50	0.00	94.60	97.60	0.00	97.10	96.60	97.00	0.00	97.10	
18	21.00	0.00	-999.00	-999.00	21.00	0.00	94.50	97.40	0.00	97.00	96.40	96.90	0.00	97.20	
19	20.90	0.00	-999.00	-999.00	20.50	0.00	94.50	97.20	0.00	96.90	96.30	96.70	0.00	97.40	
20	21.30	0.00	-999.00	-999.00	22.00	0.00	94.40	97.00	0.00	96.90	96.20	96.70	0.00	97.40	
21	21.80	0.00	-999.00	-999.00	20.60	0.00	94.50	96.90	0.00	96.90	96.20	96.70	0.00	97.40	
22	21.40	0.00	-999.00	-999.00	20.50	0.00	94.40	97.00	0.00	96.90	96.50	96.80	0.00	97.40	
23	21.40	0.00	-999.00	-999.00	20.60	0.00	94.20	97.00	0.00	97.00	96.40	96.80	0.00	97.30	
24	22.90	0.00	-999.00	-999.00	20.30	0.00	94.10	96.80	0.00	96.80	96.40	96.80	0.00	97.20	

18 NOV 2002

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

18 NOV 2002

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.			
1	1.50	0.00	102.30	-999.00	-999.00	-999.00	14.10	0.00	97.50	17.40	0.00	-999.00	-999.00	-999.00	-999.00
2	1.50	0.00	102.30	-999.00	-999.00	-999.00	15.80	0.00	97.50	15.00	0.00	-999.00	-999.00	-999.00	-999.00
3	1.50	0.00	102.30	-999.00	-999.00	-999.00	14.10	0.00	97.60	14.60	0.00	-999.00	-999.00	-999.00	-999.00
4	1.50	0.00	102.30	-999.00	-999.00	-999.00	13.70	0.00	97.60	17.40	0.00	-999.00	-999.00	-999.00	-999.00
5	1.50	0.00	102.30	-999.00	-999.00	-999.00	15.90	0.00	97.60	15.60	0.00	-999.00	-999.00	-999.00	-999.00
6	1.50	0.00	102.30	-999.00	-999.00	-999.00	16.80	0.00	97.60	14.20	0.00	-999.00	-999.00	-999.00	-999.00
7	1.50	0.00	102.30	-999.00	-999.00	-999.00	19.80	0.00	97.60	16.90	0.00	-999.00	-999.00	-999.00	-999.00
8	1.50	0.00	102.40	-999.00	-999.00	-999.00	19.90	0.00	97.50	17.70	0.00	-999.00	-999.00	-999.00	-999.00
9	1.50	0.00	102.60	-999.00	-999.00	-999.00	20.30	0.00	97.40	17.60	0.00	-999.00	-999.00	-999.00	-999.00
10	1.50	0.00	103.00	-999.00	-999.00	-999.00	19.30	0.00	97.50	19.90	0.00	-999.00	-999.00	-999.00	-999.00
11	1.50	0.00	103.40	-999.00	-999.00	-999.00	19.70	0.00	97.50	20.20	0.00	-999.00	-999.00	-999.00	-999.00
12	1.50	0.00	103.50	-999.00	-999.00	-999.00	19.80	0.00	97.60	19.80	0.00	-999.00	-999.00	-999.00	-999.00
13	1.50	0.00	103.70	-999.00	-999.00	-999.00	20.00	0.00	97.70	20.60	0.00	-999.00	-999.00	-999.00	-999.00
14	1.50	0.00	103.60	-999.00	-999.00	-999.00	21.70	0.00	97.80	19.60	0.00	-999.00	-999.00	-999.00	-999.00
15	1.50	0.00	103.30	-999.00	-999.00	-999.00	16.00	0.00	97.80	19.50	0.00	-999.00	-999.00	-999.00	-999.00
16	1.50	0.00	103.00	-999.00	-999.00	-999.00	16.10	0.00	97.70	19.00	0.00	-999.00	-999.00	-999.00	-999.00
17	1.50	0.00	102.70	-999.00	-999.00	-999.00	14.40	0.00	97.60	18.90	0.00	-999.00	-999.00	-999.00	-999.00
18	1.50	0.00	102.50	-999.00	-999.00	-999.00	14.30	0.00	97.50	19.80	0.00	-999.00	-999.00	-999.00	-999.00
19	1.50	0.00	102.50	-999.00	-999.00	-999.00	14.00	0.00	97.50	21.80	0.00	-999.00	-999.00	-999.00	-999.00
20	1.50	0.00	102.30	-999.00	-999.00	-999.00	14.10	0.00	97.40	21.30	0.00	-999.00	-999.00	-999.00	-999.00
21	1.50	0.00	102.40	-999.00	-999.00	-999.00	15.50	0.00	97.40	19.60	0.00	-999.00	-999.00	-999.00	-999.00
22	1.50	0.00	102.30	-999.00	-999.00	-999.00	14.00	0.00	97.40	19.50	0.00	-999.00	-999.00	-999.00	-999.00
23	1.50	0.00	102.30	-999.00	-999.00	-999.00	15.40	0.00	97.40	13.50	0.00	-999.00	-999.00	-999.00	-999.00
24	1.50	0.00	102.30	-999.00	-999.00	-999.00	13.70	0.00	97.40	14.60	0.00	-999.00	-999.00	-999.00	-999.00

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. WA FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB			
1	21.20	0.00	-999.00	20.70	0.00	94.10	96.70	86.30	0.00	96.90	96.30	96.70			97.10
2	17.80	0.00	-999.00	20.30	0.00	94.00	96.80	85.90	0.00	96.90	96.50	96.80			97.10
3	15.70	0.00	-999.00	19.70	0.00	94.20	96.70	80.60	0.00	96.90	96.50	96.70			97.10
4	15.70	0.00	-999.00	19.10	0.00	94.20	96.60	100.10	0.00	96.90	96.50	96.80			96.90
5	15.50	0.00	-999.00	12.20	0.00	94.20	96.60	130.10	0.00	96.90	96.50	96.80			96.90
6	15.70	0.00	-999.00	12.20	0.00	94.00	96.60	147.30	0.00	96.90	96.30	96.90			96.80
7	17.40	0.00	-999.00	12.00	0.00	94.00	96.50	149.20	0.00	96.80	96.30	96.80			96.70
8	17.60	0.00	-999.00	12.00	0.00	93.90	96.50	150.30	0.00	96.80	96.30	96.80			96.70
9	17.60	0.00	-999.00	13.40	0.00	93.90	96.40	151.00	0.00	96.90	96.20	96.70			96.60
10	21.30	0.00	-999.00	23.00	0.00	93.90	96.60	149.90	0.00	96.90	96.20	96.80			97.90
11	21.50	0.00	-999.00	22.00	0.00	94.10	96.80	149.20	0.00	96.90	96.30	97.00			98.10
12	21.50	0.00	-999.00	23.40	0.00	94.10	97.00	148.90	0.00	97.40	0.00	97.20			98.50
13	21.40	0.00	-999.00	21.70	0.00	94.30	97.20	150.30	0.00	0.00	97.60	97.20			98.30
14	21.50	0.00	-999.00	21.50	0.00	94.30	97.10	151.90	0.00	98.70	97.60	97.50			98.20
15	22.90	0.00	-999.00	21.50	0.00	94.30	97.20	151.00	0.00	98.20	97.60	97.20			0.00
16	21.80	0.00	-999.00	21.80	0.00	94.30	97.10	138.70	0.00	97.80	97.40	97.10			97.80
17	22.90	0.00	-999.00	21.50	0.00	94.20	97.10	132.70	0.00	97.60	97.40	96.90			97.70
18	21.30	0.00	-999.00	25.30	0.00	94.40	97.00	140.90	0.00	97.30	97.30	96.90			97.60
19	21.40	0.00	-999.00	23.10	0.00	94.30	96.90	137.40	0.00	97.00	97.20	96.70			97.60
20	21.40	0.00	-999.00	23.10	0.00	94.30	96.90	112.30	0.00	97.00	97.00	96.70			97.40
21	21.50	0.00	-999.00	23.40	0.00	94.10	96.90	109.50	0.00	97.00	96.90	96.70			97.40
22	21.50	0.00	-999.00	22.60	0.00	94.10	96.70	108.30	0.00	97.00	97.00	96.70			97.30
23	13.80	0.00	-999.00	12.10	0.00	94.10	96.70	87.40	0.00	96.90	97.00	96.70			97.20
24	13.30	0.00	-999.00	11.70	0.00	94.10	96.70	85.40	0.00	96.80	96.80	96.60			96.80

19 NOV 2002

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

19 NOV 2002

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	LOWER GRANITE	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.		
1	1.50	0.00	102.30	-999.00	-999.00	-999.00	15.50	0.00	97.30	98.00	14.40	0.00	-999.00	-999.00	
2	1.50	0.00	102.30	-999.00	-999.00	-999.00	13.70	0.00	97.30	97.70	12.70	0.00	-999.00	-999.00	
3	1.50	0.00	102.20	-999.00	-999.00	-999.00	15.60	0.00	97.30	98.30	12.90	0.00	-999.00	-999.00	
4	1.50	0.00	102.30	-999.00	-999.00	-999.00	13.70	0.00	97.30	97.60	12.90	0.00	-999.00	-999.00	
5	1.50	0.00	102.30	-999.00	-999.00	-999.00	13.80	0.00	97.30	97.20	13.00	0.00	-999.00	-999.00	
6	1.50	0.00	102.20	-999.00	-999.00	-999.00	14.20	0.00	97.20	97.20	12.90	0.00	-999.00	-999.00	
7	1.50	0.00	102.20	-999.00	-999.00	-999.00	14.20	0.00	97.10	97.10	12.90	0.00	-999.00	-999.00	
8	1.50	0.00	102.10	-999.00	-999.00	-999.00	14.40	0.00	97.10	97.00	14.10	0.00	-999.00	-999.00	
9	1.50	0.00	102.40	-999.00	-999.00	-999.00	14.10	0.00	97.00	97.00	12.60	0.00	-999.00	-999.00	
10	1.50	0.00	102.80	-999.00	-999.00	-999.00	15.40	0.00	97.00	97.00	14.30	0.00	-999.00	-999.00	
11	1.50	0.00	102.90	-999.00	-999.00	-999.00	15.40	0.00	97.10	97.00	12.50	0.00	-999.00	-999.00	
12	1.50	0.00	103.00	-999.00	-999.00	-999.00	17.30	0.00	97.10	97.90	12.40	0.00	-999.00	-999.00	
13	1.50	0.00	103.00	-999.00	-999.00	-999.00	14.20	0.00	97.10	97.60	12.50	0.00	-999.00	-999.00	
14	1.50	0.00	102.70	-999.00	-999.00	-999.00	15.90	0.00	97.10	97.20	12.70	0.00	-999.00	-999.00	
15	1.50	0.00	102.60	-999.00	-999.00	-999.00	16.70	0.00	97.10	97.50	12.50	0.00	-999.00	-999.00	
16	1.50	0.00	102.40	-999.00	-999.00	-999.00	21.20	0.00	97.00	97.40	12.80	0.00	-999.00	-999.00	
17	1.50	0.00	102.10	-999.00	-999.00	-999.00	28.30	0.00	97.00	97.50	20.80	0.00	-999.00	-999.00	
18	1.50	0.00	102.10	-999.00	-999.00	-999.00	28.00	0.00	96.90	97.10	29.20	0.00	-999.00	-999.00	
19	1.50	0.00	102.00	-999.00	-999.00	-999.00	27.40	0.00	97.00	96.80	30.70	0.00	-999.00	-999.00	
20	1.50	0.00	102.00	-999.00	-999.00	-999.00	26.90	0.00	96.80	96.80	31.50	0.00	-999.00	-999.00	
21	1.50	0.00	102.00	-999.00	-999.00	-999.00	14.90	0.00	96.80	97.00	32.50	0.00	-999.00	-999.00	
22	1.50	0.00	102.00	-999.00	-999.00	-999.00	16.00	0.00	96.80	97.20	17.00	0.00	-999.00	-999.00	
23	1.50	0.00	102.00	-999.00	-999.00	-999.00	14.50	0.00	96.80	97.20	14.70	0.00	-999.00	-999.00	
24	1.50	0.00	102.00	-999.00	-999.00	-999.00	13.60	0.00	96.80	97.00	12.90	0.00	-999.00	-999.00	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB	WA TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB	GAS %SAT	
1	13.50	0.00	-999.00	-999.00	9.40	0.00	94.10	96.60	0.00	96.80	96.90	96.60	0.00	96.70	
2	13.50	0.00	-999.00	-999.00	9.40	0.00	94.00	96.60	0.00	96.80	96.80	96.60	0.00	96.60	
3	13.70	0.00	-999.00	-999.00	9.30	0.00	94.00	96.50	0.00	96.80	96.90	96.60	0.00	96.40	
4	15.10	0.00	-999.00	-999.00	9.30	0.00	94.10	96.50	0.00	96.80	96.80	96.60	0.00	96.30	
5	13.50	0.00	-999.00	-999.00	11.50	0.00	94.10	96.50	0.00	96.70	96.80	96.60	0.00	96.20	
6	13.60	0.00	-999.00	-999.00	13.80	0.00	94.00	96.50	0.00	96.60	96.80	96.60	0.00	96.00	
7	13.60	0.00	-999.00	-999.00	12.50	0.00	94.00	96.40	0.00	96.60	96.90	96.50	0.00	96.00	
8	13.60	0.00	-999.00	-999.00	12.70	0.00	94.00	95.40	0.00	96.60	96.80	96.40	0.00	96.10	
9	13.80	0.00	-999.00	-999.00	12.70	0.00	93.90	95.40	0.00	96.60	96.70	96.50	0.00	96.10	
10	13.60	0.00	-999.00	-999.00	12.70	0.00	95.90	95.30	0.00	96.80	96.50	96.60	0.00	96.20	
11	13.50	0.00	-999.00	-999.00	12.60	0.00	95.70	0.00	0.00	96.90	96.60	96.70	0.00	96.40	
12	13.40	0.00	-999.00	-999.00	12.90	0.00	95.90	97.50	0.00	96.90	96.60	96.90	0.00	96.40	
13	15.00	0.00	-999.00	-999.00	12.70	0.00	95.70	97.20	0.00	96.80	96.60	97.00	0.00	96.50	
14	13.50	0.00	-999.00	-999.00	12.70	0.00	95.70	97.40	0.00	96.60	96.60	96.90	0.00	96.50	
15	15.20	0.00	-999.00	-999.00	12.70	0.00	95.80	97.30	0.00	96.80	96.60	96.70	0.00	96.40	
16	15.00	0.00	-999.00	-999.00	12.60	0.00	95.80	97.20	0.00	97.20	96.60	96.60	0.00	96.40	
17	13.80	0.00	-999.00	-999.00	13.90	0.00	95.70	97.10	0.00	97.00	96.60	96.40	0.00	96.40	
18	26.00	0.00	-999.00	-999.00	25.60	0.00	95.60	97.00	0.00	97.00	96.60	96.40	0.00	96.40	
19	32.70	0.00	-999.00	-999.00	34.40	0.00	95.70	97.20	0.00	96.90	96.60	96.30	0.00	96.60	
20	37.50	0.00	-999.00	-999.00	36.90	0.00	95.80	97.20	0.00	96.70	96.70	96.40	0.00	96.60	
21	38.20	0.00	-999.00	-999.00	37.00	0.00	95.80	96.70	0.00	96.50	96.50	96.40	0.00	96.70	
22	31.60	0.00	-999.00	-999.00	38.20	0.00	95.80	96.30	0.00	96.70	96.60	96.40	0.00	96.80	
23	21.60	0.00	-999.00	-999.00	31.10	0.00	95.80	96.30	0.00	96.60	96.70	96.40	0.00	97.00	
24	15.20	0.00	-999.00	-999.00	19.40	0.00	95.80	96.30	0.00	96.60	96.40	97.00	0.00		

20 NOV 2002

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

20 NOV 2002

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	LOWER GRANITE	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.		
1	1.50	0.00	102.00	-999.00	-999.00	-999.00	13.60	0.00	96.80	96.80	12.60	0.00	-999.00	-999.00	
2	1.50	0.00	102.00	-999.00	-999.00	-999.00	13.60	0.00	96.80	96.80	12.60	0.00	-999.00	-999.00	
3	1.50	0.00	102.10	-999.00	-999.00	-999.00	13.60	0.00	96.80	96.80	12.80	0.00	-999.00	-999.00	
4	1.50	0.00	102.10	-999.00	-999.00	-999.00	13.80	0.00	96.90	96.70	12.80	0.00	-999.00	-999.00	
5	1.50	0.00	102.00	-999.00	-999.00	-999.00	13.60	0.00	96.90	96.70	12.60	0.00	-999.00	-999.00	
6	1.50	0.00	102.00	-999.00	-999.00	-999.00	13.50	0.00	96.90	96.70	12.80	0.00	-999.00	-999.00	
7	1.50	0.00	102.00	-999.00	-999.00	-999.00	13.60	0.00	96.90	96.70	12.40	0.00	-999.00	-999.00	
8	1.50	0.00	102.10	-999.00	-999.00	-999.00	13.60	0.00	96.90	96.70	12.50	0.00	-999.00	-999.00	
9	1.50	0.00	102.30	-999.00	-999.00	-999.00	13.60	0.00	97.00	-999.00	12.40	0.00	-999.00	-999.00	
10	1.50	0.00	102.60	-999.00	-999.00	-999.00	13.90	0.00	97.00	-999.00	12.50	0.00	-999.00	-999.00	
11	1.50	0.00	102.70	-999.00	-999.00	-999.00	13.70	0.00	97.20	-999.00	12.60	0.00	-999.00	-999.00	
12	1.50	0.00	103.00	-999.00	-999.00	-999.00	13.60	0.00	97.40	-999.00	12.40	0.00	-999.00	-999.00	
13	1.50	0.00	103.20	-999.00	-999.00	-999.00	13.70	0.00	97.50	-999.00	12.40	0.00	-999.00	-999.00	
14	1.50	0.00	103.40	-999.00	-999.00	-999.00	13.70	0.00	97.90	-999.00	12.50	0.00	-999.00	-999.00	
15	1.50	0.00	103.40	-999.00	-999.00	-999.00	13.90	0.00	97.90	-999.00	12.50	0.00	-999.00	-999.00	
16	1.50	0.00	103.10	-999.00	-999.00	-999.00	13.90	0.00	97.70	-999.00	12.60	0.00	-999.00	-999.00	
17	1.50	0.00	102.90	-999.00	-999.00	-999.00	20.50	0.00	97.90	-999.00	12.80	0.00	-999.00	-999.00	
18	1.50	0.00	102.80	-999.00	-999.00	-999.00	20.90	0.00	97.90	-999.00	20.80	0.00	-999.00	-999.00	
19	1.50	0.00	102.80	-999.00	-999.00	-999.00	21.30	0.00	98.00	-999.00	20.80	0.00	-999.00	-999.00	
20	1.50	0.00	102.80	-999.00	-999.00	-999.00	27.00	0.00	98.00	-999.00	26.60	0.00	-999.00	-999.00	
21	1.50	0.00	102.80	-999.00	-999.00	-999.00	26.80	0.00	97.90	-999.00	28.10	0.00	-999.00	-999.00	
22	1.50	0.00	102.80	-999.00	-999.00	-999.00	26.30	0.00	98.00	-999.00	27.90	0.00	-999.00	-999.00	
23	1.50	0.00	102.70	-999.00	-999.00	-999.00	14.80	0.00	98.00	-999.00	16.50	0.00	-999.00	-999.00	
24	1.50	0.00	102.70	-999.00	-999.00	-999.00	13.00	0.00	98.00	-999.00	13.30	0.00	-999.00	-999.00	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB	WA TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB	GAS %SAT	
1	13.40	0.00	-999.00	-999.00	12.20	0.00	95.90	96.30	0.00	96.50	96.60	96.40	0.00	97.20	
2	13.60	0.00	-999.00	-999.00	11.90	0.00	95.90	97.00	0.00	96.40	96.60	96.40	0.00	97.00	
3	13.30	0.00	-999.00	-999.00	13.40	0.00	95.90	96.60	0.00	96.30	96.60	96.40	0.00	97.00	
4	13.20	0.00	-999.00	-999.00	12.10	0.00	95.80	96.30	0.00	96.30	96.50	96.50	0.00	97.00	
5	13.30	0.00	-999.00	-999.00	11.90	0.00	95.60	96.60	0.00	96.30	96.40	96.80	0.00	96.80	
6	13.20	0.00	-999.00	-999.00	11.90	0.00	95.70	96.70	0.00	96.30	96.50	96.80	0.00	96.70	
7	15.00	0.00	-999.00	-999.00	11.90	0.00	95.70	97.50	0.00	96.30	96.50	96.70	0.00	96.70	
8	13.70	0.00	-999.00	-999.00	11.90	0.00	95.70	97.50	0.00	96.40	96.50	96.80	0.00	96.50	
9	13.50	0.00	-999.00	-999.00	12.00	0.00	95.70	97.30	0.00	96.40	96.70	97.00	0.00	96.40	
10	13.40	0.00	-999.00	-999.00	13.40	0.00	96.00	97.00	0.00	96.40	96.70	97.00	0.00	96.40	
11	13.40	0.00	-999.00	-999.00	11.90	0.00	96.10	97.40	0.00	96.60	96.80	97.10	0.00	96.50	
12	13.50	0.00	-999.00	-999.00	11.90	0.00	96.10	97.70	0.00	96.80	97.10	97.20	0.00	96.40	
13	15.00	0.00	-999.00	-999.00	11.90	0.00	96.10	98.20	0.00	97.00	97.20	97.20	0.00	96.60	
14	13.80	0.00	-999.00	-999.00	12.20	0.00	96.10	98.00	0.00	98.40	97.20	97.20	0.00	96.80	
15	13.70	0.00	-999.00	-999.00	11.90	0.00	96.10	98.40	0.00	98.30	97.50	97.20	0.00	97.10	
16	15.10	0.00	-999.00	-999.00	11.90	0.00	96.20	98.60	0.00	98.10	97.40	97.20	0.00	97.30	
17	13.60	0.00	-999.00	-999.00	12.00	0.00	96.20	97.80	0.00	97.90	97.40	97.10	0.00	97.70	
18	13.50	0.00	-999.00	-999.00	12.00	0.00	96.20	97.60	0.00	97.40	97.40	97.10	0.00	97.80	
19	14.50	0.00	-999.00	-999.00	13.90	0.00	96.20	97.30	0.00	97.50	97.60	97.10	0.00	98.00	
20	28.00	0.00	-999.00	-999.00	21.00	0.00	96.30	97.20	0.00	107.80	97.30	97.10	0.00	98.10	
21	31.60	0.00	-999.00	-999.00	27.50	0.00	96.30	97.40	0.00	107.80	97.20	97.20	0.00	98.10	
22	31.30	0.00	-999.00	-999.00	34.80	0.00	96.40	97.40	0.00	106.40	97.10	97.20	0.00	98.20	
23	16.20	0.00	-999.00	-999.00	30.10	0.00	96.40	97.30	0.00	72.20	97.10	97.80	0.00	98.20	
24	13.90	0.00	-999.00	-999.00	14.50	0.00	96.40	96.90	0.00	68.40	97.10	97.70	0.00	98.00	

21 NOV 2002

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

21 NOV 2002

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.			
1	1.50	0.00	102.80	-999.00	-999.00	-999.00	13.10	0.00	98.10 -999.00	13.30	0.00	-999.00	-999.00		
2	1.50	0.00	102.80	-999.00	-999.00	-999.00	12.90	0.00	98.00 -999.00	13.20	0.00	-999.00	-999.00		
3	1.50	0.00	102.70	-999.00	-999.00	-999.00	12.90	0.00	98.20 -999.00	13.20	0.00	-999.00	-999.00		
4	1.50	0.00	102.70	-999.00	-999.00	-999.00	12.90	0.00	98.30 -999.00	13.50	0.00	-999.00	-999.00		
5	1.50	0.00	102.80	-999.00	-999.00	-999.00	12.90	0.00	98.40 -999.00	13.30	0.00	-999.00	-999.00		
6	1.50	0.00	102.60	-999.00	-999.00	-999.00	13.10	0.00	98.40 -999.00	13.20	0.00	-999.00	-999.00		
7	1.50	0.00	102.60	-999.00	-999.00	-999.00	10.90	0.00	98.50 -999.00	12.80	0.00	-999.00	-999.00		
8	1.50	0.00	102.80	-999.00	-999.00	-999.00	15.50	0.00	98.40 -999.00	13.90	0.00	-999.00	-999.00		
9	1.50	0.00	103.20	-999.00	-999.00	-999.00	18.30	0.00	98.50 98.30	18.90	0.00	-999.00	-999.00		
10	1.50	0.00	103.40	-999.00	-999.00	-999.00	18.80	0.00	98.50 98.10	19.00	0.00	-999.00	-999.00		
11	1.50	0.00	104.00	-999.00	-999.00	-999.00	18.60	0.00	98.70 98.30	18.70	0.00	-999.00	-999.00		
12	1.50	0.00	104.00	-999.00	-999.00	-999.00	17.50	0.00	98.80 98.70	18.70	0.00	-999.00	-999.00		
13	1.50	0.00	104.20	-999.00	-999.00	-999.00	16.60	0.00	99.10 98.80	18.10	0.00	-999.00	-999.00		
14	1.50	0.00	104.30	-999.00	-999.00	-999.00	17.40	0.00	99.00 1000.00	16.80	0.00	-999.00	-999.00		
15	1.50	0.00	104.00	-999.00	-999.00	-999.00	14.90	0.00	98.90 99.30	16.40	0.00	-999.00	-999.00		
16	1.40	0.00	103.80	-999.00	-999.00	-999.00	16.20	0.00	98.70 98.70	15.10	0.00	-999.00	-999.00		
17	1.40	0.00	103.60	-999.00	-999.00	-999.00	16.30	0.00	98.50 98.40	15.10	0.00	-999.00	-999.00		
18	1.50	0.00	104.10	-999.00	-999.00	-999.00	19.20	0.00	98.50 98.30	18.30	0.00	-999.00	-999.00		
19	1.40	0.00	104.30	-999.00	-999.00	-999.00	20.20	0.00	98.50 98.20	20.40	0.00	-999.00	-999.00		
20	1.40	0.00	104.50	-999.00	-999.00	-999.00	15.10	0.00	98.50 98.40	21.40	0.00	-999.00	-999.00		
21	1.40	0.00	104.50	-999.00	-999.00	-999.00	15.70	0.00	98.50 99.20	13.30	0.00	-999.00	-999.00		
22	1.40	0.00	104.40	-999.00	-999.00	-999.00	13.90	0.00	98.50 99.00	13.30	0.00	-999.00	-999.00		
23	1.50	0.00	104.40	-999.00	-999.00	-999.00	13.90	0.00	98.60 98.40	13.30	0.00	-999.00	-999.00		
24	1.40	0.00	104.40	-999.00	-999.00	-999.00	13.90	0.00	98.50 98.30	13.30	0.00	-999.00	-999.00		

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.			
1	13.60	0.00	-999.00 -999.00	11.90	0.00	96.40 96.80	68.60	0.00	97.10 97.80	97.10	0.00	98.10			
2	13.60	0.00	-999.00 -999.00	11.90	0.00	96.50 96.70	68.60	0.00	97.10 97.80	97.20	0.00	98.00			
3	13.70	0.00	-999.00 -999.00	13.40	0.00	96.50 96.90	67.50	0.00	97.10 97.70	97.20	0.00	97.90			
4	13.60	0.00	-999.00 -999.00	11.90	0.00	96.40 97.30	72.80	0.00	97.10 97.70	97.30	0.00	97.80			
5	13.50	0.00	-999.00 -999.00	12.10	0.00	96.50 98.10	139.20	0.00	97.10 97.80	97.40	0.00	97.60			
6	13.70	0.00	-999.00 -999.00	11.90	0.00	96.50 97.70	149.20	0.00	97.20 97.80	97.50	0.00	97.50			
7	12.20	0.00	-999.00 -999.00	11.90	0.00	96.70 97.80	146.40	0.00	97.10 97.80	97.30	0.00	97.40			
8	15.50	0.00	-999.00 -999.00	11.90	0.00	96.70 98.20	147.00	0.00	97.30 97.80	97.30	0.00	97.30			
9	19.00	0.00	-999.00 -999.00	11.90	0.00	96.60 97.70	150.60	0.00	97.10 97.60	97.30	0.00	97.10			
10	19.90	0.00	-999.00 -999.00	13.00	0.00	96.60 97.50	154.70	0.00	97.10 97.60	97.30	0.00	97.00			
11	18.70	0.00	-999.00 -999.00	19.60	0.00	96.70 97.80	152.90	0.00	97.60 97.70	97.50	0.00	97.00			
12	18.10	0.00	-999.00 -999.00	19.50	0.00	96.70 98.00	149.30	0.00	97.90 97.80	97.60	0.00	97.10			
13	17.10	0.00	-999.00 -999.00	19.60	0.00	96.70 98.50	146.50	0.00	98.00 97.80	97.60	0.00	97.20			
14	16.60	0.00	-999.00 -999.00	21.50	0.00	96.80 98.20	146.30	0.00	98.10 97.90	97.70	0.00	97.50			
15	16.30	0.00	-999.00 -999.00	19.90	0.00	96.70 97.80	145.30	0.00	98.10 97.90	97.70	0.00	97.60			
16	15.60	0.00	-999.00 -999.00	20.30	0.00	96.70 97.70	145.40	0.00	98.10 98.00	97.70	0.00	97.60			
17	15.40	0.00	-999.00 -999.00	20.00	0.00	96.80 98.20	149.60	0.00	98.00 98.00	97.70	0.00	97.60			
18	18.40	0.00	-999.00 -999.00	20.00	0.00	96.80 97.40	151.00	0.00	97.90 98.10	97.70	0.00	97.40			
19	21.20	0.00	-999.00 -999.00	19.90	0.00	96.80 97.20	143.70	0.00	97.90 98.20	97.70	0.00	97.50			
20	19.70	0.00	-999.00 -999.00	20.10	0.00	96.80 97.30	139.70	0.00	98.00 98.00	97.50	0.00	97.50			
21	19.80	0.00	-999.00 -999.00	20.50	0.00	96.90 97.40	109.70	0.00	97.90 98.10	97.70	0.00	97.40			
22	19.50	0.00	-999.00 -999.00	20.00	0.00	96.90 97.30	106.90	0.00	97.90 98.10	97.70	0.00	97.40			
23	14.30	0.00	-999.00 -999.00	12.10	0.00	96.90 97.30	80.10	0.00	98.10 98.20	97.80	0.00	97.30			
24	13.90	0.00	-999.00 -999.00	12.20	0.00	96.90 97.20	62.60	0.00	97.90 98.20	97.70	0.00	97.20			

22 NOV 2002

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

22 NOV 2002

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB	%SAT. TAILW.	
1	1.40	0.00	104.40	-999.00	-999.00	-999.00	14.10	0.00	98.50	98.20	13.70	0.00	-999.00	-999.00	
2	1.50	0.00	104.30	-999.00	-999.00	-999.00	13.90	0.00	98.40	98.10	13.50	0.00	-999.00	-999.00	
3	1.40	0.00	104.40	-999.00	-999.00	-999.00	13.90	0.00	98.40	98.00	13.60	0.00	-999.00	-999.00	
4	1.40	0.00	104.30	-999.00	-999.00	-999.00	13.90	0.00	98.40	98.10	13.50	0.00	-999.00	-999.00	
5	1.50	0.00	104.30	-999.00	-999.00	-999.00	13.90	0.00	98.30	98.10	15.20	0.00	-999.00	-999.00	
6	1.40	0.00	104.30	-999.00	-999.00	-999.00	14.20	0.00	98.30	98.00	15.40	0.00	-999.00	-999.00	
7	1.40	0.00	104.20	-999.00	-999.00	-999.00	16.20	0.00	98.40	97.90	15.80	0.00	-999.00	-999.00	
8	1.40	0.00	104.30	-999.00	-999.00	-999.00	18.40	0.00	98.30	97.90	16.10	0.00	-999.00	-999.00	
9	1.40	0.00	104.60	-999.00	-999.00	-999.00	18.70	0.00	98.20	97.80	17.70	0.00	-999.00	-999.00	
10	1.40	0.00	104.90	-999.00	-999.00	-999.00	20.00	0.00	98.20	97.80	19.10	0.00	-999.00	-999.00	
11	1.50	0.00	105.40	-999.00	-999.00	-999.00	20.40	0.00	98.20	97.90	19.60	0.00	-999.00	-999.00	
12	1.40	0.00	105.60	-999.00	-999.00	-999.00	20.90	0.00	98.20	98.00	19.30	0.00	-999.00	-999.00	
13	1.40	0.00	105.50	-999.00	-999.00	-999.00	20.60	0.00	98.30	98.10	19.40	0.00	-999.00	-999.00	
14	1.40	0.00	105.40	-999.00	-999.00	-999.00	20.70	0.00	98.40	98.10	19.40	0.00	-999.00	-999.00	
15	1.40	0.00	105.30	-999.00	-999.00	-999.00	19.30	0.00	98.50	98.10	19.40	0.00	-999.00	-999.00	
16	1.50	0.00	105.10	-999.00	-999.00	-999.00	18.90	0.00	98.60	98.10	19.70	0.00	-999.00	-999.00	
17	1.40	0.00	104.90	-999.00	-999.00	-999.00	17.20	0.00	98.60	98.10	18.60	0.00	-999.00	-999.00	
18	1.40	0.00	104.60	-999.00	-999.00	-999.00	17.10	0.00	98.80	98.10	18.50	0.00	-999.00	-999.00	
19	1.50	0.00	104.70	-999.00	-999.00	-999.00	16.70	0.00	98.80	98.20	20.00	0.00	-999.00	-999.00	
20	1.40	0.00	104.60	-999.00	-999.00	-999.00	16.60	0.00	98.80	98.20	18.80	0.00	-999.00	-999.00	
21	1.40	0.00	104.60	-999.00	-999.00	-999.00	14.40	0.00	98.60	98.20	18.50	0.00	-999.00	-999.00	
22	1.50	0.00	105.40	-999.00	-999.00	-999.00	15.60	0.00	98.60	99.30	14.80	0.00	-999.00	-999.00	
23	1.40	0.00	106.20	-999.00	-999.00	-999.00	12.80	0.00	98.70	98.70	13.70	0.00	-999.00	-999.00	
24	1.40	0.00	106.00	-999.00	-999.00	-999.00	12.80	0.00	98.90	98.40	13.60	0.00	-999.00	-999.00	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. OR FB	WA TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB	%SAT	
1	13.80	0.00	-999.00 -999.00	12.20	0.00	97.00 97.20	60.40	0.00	97.90	98.00	97.70	0.00	97.10		
2	13.80	0.00	-999.00 -999.00	12.70	0.00	96.90 97.00	63.10	0.00	97.80	97.90	97.70	0.00	97.00		
3	13.80	0.00	-999.00 -999.00	12.70	0.00	97.00 97.30	65.70	0.00	98.00	98.00	97.60	0.00	96.90		
4	14.10	0.00	-999.00 -999.00	12.50	0.00	96.90 97.40	105.90	0.00	97.80	98.00	97.80	0.00	96.70		
5	13.90	0.00	-999.00 -999.00	12.50	0.00	96.90 97.40	144.90	0.00	97.80	97.90	98.00	0.00	96.60		
6	13.90	0.00	-999.00 -999.00	12.70	0.00	96.90 97.50	143.60	0.00	97.70	97.90	98.00	0.00	96.50		
7	15.60	0.00	-999.00 -999.00	19.70	0.00	96.90 97.50	154.50	0.00	97.80	97.90	97.80	0.00	96.30		
8	16.60	0.00	-999.00 -999.00	19.60	0.00	96.70 97.50	156.80	0.00	97.60	97.80	97.70	0.00	96.20		
9	18.50	0.00	-999.00 -999.00	19.70	0.00	96.60 97.50	156.00	0.00	97.60	97.80	97.60	0.00	96.20		
10	20.00	0.00	-999.00 -999.00	19.90	0.00	96.60 97.20	152.70	0.00	97.80	97.80	97.60	0.00	96.10		
11	20.00	0.00	-999.00 -999.00	21.20	0.00	96.80 97.50	152.30	0.00	97.80	97.80	97.80	0.00	96.20		
12	18.40	0.00	-999.00 -999.00	19.70	0.00	97.10 97.50	149.90	0.00	98.10	97.90	97.80	0.00	96.20		
13	18.60	0.00	-999.00 -999.00	20.10	0.00	97.30 97.70	148.50	0.00	98.00	97.90	97.80	0.00	96.30		
14	19.80	0.00	-999.00 -999.00	21.50	0.00	97.20 97.90	149.10	0.00	98.00	98.10	97.90	0.00	96.40		
15	20.00	0.00	-999.00 -999.00	21.60	0.00	96.90 97.60	143.80	0.00	98.00	97.90	97.90	0.00	96.60		
16	20.80	0.00	-999.00 -999.00	20.30	0.00	96.90 97.40	147.60	0.00	98.10	97.90	97.80	0.00	96.60		
17	22.10	0.00	-999.00 -999.00	20.50	0.00	97.00 98.20	153.90	0.00	98.10	97.90	97.80	0.00	96.80		
18	20.90	0.00	-999.00 -999.00	20.90	0.00	97.00 98.20	155.20	0.00	98.10	98.00	97.80	0.00	96.90		
19	20.80	0.00	-999.00 -999.00	19.70	0.00	97.00 97.50	146.50	0.00	98.00	98.30	97.80	0.00	96.90		
20	20.90	0.00	-999.00 -999.00	19.60	0.00	97.00 97.40	118.00	0.00	98.00	98.30	97.90	0.00	97.10		
21	21.20	0.00	-999.00 -999.00	19.60	0.00	97.30 97.40	107.40	0.00	98.00	98.30	97.90	0.00	97.10		
22	18.50	0.00	-999.00 -999.00	19.60	0.00	97.40 97.50	100.20	0.00	98.00	98.20	97.90	0.00	97.10		
23	13.90	0.00	-999.00 -999.00	19.10	0.00	97.30 97.50	74.00	0.00	98.10	98.20	98.00	0.00	97.10		
24	13.70	0.00	-999.00 -999.00	12.00	0.00	97.30 97.50	67.80	0.00	98.20	98.20	98.00	0.00	97.00		

23 NOV 2002

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

23 NOV 2002

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	LOWER GRANITE	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.		
1	1.50	0.00	106.00	-999.00	-999.00	-999.00	12.80	0.00	98.80	98.40	12.80	0.00	-999.00	-999.00	
2	1.40	0.00	106.00	-999.00	-999.00	-999.00	12.80	0.00	98.90	98.40	12.40	0.00	-999.00	-999.00	
3	1.40	0.00	105.90	-999.00	-999.00	-999.00	13.00	0.00	98.90	98.30	12.60	0.00	-999.00	-999.00	
4	1.50	0.00	106.00	-999.00	-999.00	-999.00	12.80	0.00	98.90	98.40	12.60	0.00	-999.00	-999.00	
5	1.40	0.00	106.00	-999.00	-999.00	-999.00	12.80	0.00	99.10	98.40	12.50	0.00	-999.00	-999.00	
6	1.40	0.00	106.00	-999.00	-999.00	-999.00	15.50	0.00	99.10	98.50	14.20	0.00	-999.00	-999.00	
7	1.50	0.00	106.00	-999.00	-999.00	-999.00	16.80	0.00	99.10	98.40	12.70	0.00	-999.00	-999.00	
8	1.40	0.00	106.00	-999.00	-999.00	-999.00	14.60	0.00	99.10	98.40	13.10	0.00	-999.00	-999.00	
9	1.40	0.00	106.10	-999.00	-999.00	-999.00	14.30	0.00	99.10	98.40	13.00	0.00	-999.00	-999.00	
10	1.50	0.00	106.30	-999.00	-999.00	-999.00	14.20	0.00	98.80	98.40	13.20	0.00	-999.00	-999.00	
11	1.40	0.00	106.60	-999.00	-999.00	-999.00	14.20	0.00	98.90	98.40	13.00	0.00	-999.00	-999.00	
12	1.40	0.00	106.50	-999.00	-999.00	-999.00	16.00	0.00	98.80	99.20	13.00	0.00	-999.00	-999.00	
13	1.40	0.00	106.60	-999.00	-999.00	-999.00	14.30	0.00	99.10	98.90	12.80	0.00	-999.00	-999.00	
14	1.40	0.00	106.60	-999.00	-999.00	-999.00	14.50	0.00	98.90	98.50	13.30	0.00	-999.00	-999.00	
15	1.50	0.00	106.50	-999.00	-999.00	-999.00	14.30	0.00	98.80	98.40	21.60	0.00	-999.00	-999.00	
16	1.40	0.00	106.10	-999.00	-999.00	-999.00	14.20	0.00	98.50	98.30	21.70	0.00	-999.00	-999.00	
17	1.40	0.00	105.80	-999.00	-999.00	-999.00	14.20	0.00	98.70	98.20	23.20	0.00	-999.00	-999.00	
18	1.40	0.00	105.80	-999.00	-999.00	-999.00	14.30	0.00	98.70	98.00	13.00	0.00	-999.00	-999.00	
19	1.40	0.00	105.80	-999.00	-999.00	-999.00	17.10	0.00	98.50	98.00	12.50	0.00	-999.00	-999.00	
20	1.50	0.00	105.70	-999.00	-999.00	-999.00	17.00	0.00	98.50	97.90	13.00	0.00	-999.00	-999.00	
21	1.40	0.00	105.70	-999.00	-999.00	-999.00	16.90	0.00	98.40	97.80	13.00	0.00	-999.00	-999.00	
22	1.40	0.00	105.50	-999.00	-999.00	-999.00	16.80	0.00	98.40	97.80	12.50	0.00	-999.00	-999.00	
23	1.50	0.00	105.50	-999.00	-999.00	-999.00	13.10	0.00	98.40	97.70	12.50	0.00	-999.00	-999.00	
24	1.40	0.00	105.50	-999.00	-999.00	-999.00	13.10	0.00	98.40	97.80	12.80	0.00	-999.00	-999.00	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB	MCNARY	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	PASCO	
1	13.70	0.00	-999.00	-999.00	11.90	0.00	97.20	97.60	0.00	98.20	98.40	98.00	0.00	97.10	
2	13.70	0.00	-999.00	-999.00	10.30	0.00	97.20	97.40	0.00	98.10	98.20	98.00	0.00	97.00	
3	14.00	0.00	-999.00	-999.00	10.30	0.00	97.20	97.50	0.00	98.10	98.30	98.20	0.00	97.10	
4	13.90	0.00	-999.00	-999.00	10.40	0.00	97.30	97.60	0.00	98.20	98.30	98.40	0.00	97.00	
5	13.90	0.00	-999.00	-999.00	10.30	0.00	97.10	97.80	0.00	98.10	98.30	98.20	0.00	97.00	
6	13.80	0.00	-999.00	-999.00	10.40	0.00	97.20	97.80	0.00	98.20	98.30	98.50	0.00	96.90	
7	13.70	0.00	-999.00	-999.00	10.30	0.00	97.20	97.90	0.00	98.20	98.30	98.30	0.00	96.90	
8	13.80	0.00	-999.00	-999.00	11.90	0.00	97.10	97.90	0.00	98.10	98.30	98.20	0.00	96.80	
9	14.10	0.00	-999.00	-999.00	12.20	0.00	97.00	97.90	0.00	98.00	98.30	98.00	0.00	96.70	
10	13.80	0.00	-999.00	-999.00	12.00	0.00	97.10	97.80	0.00	97.90	98.20	98.00	0.00	96.60	
11	15.30	0.00	-999.00	-999.00	12.00	0.00	97.00	98.00	0.00	97.90	98.20	98.00	0.00	96.50	
12	13.80	0.00	-999.00	-999.00	12.00	0.00	97.00	98.30	0.00	98.10	98.20	98.00	0.00	96.50	
13	13.80	0.00	-999.00	-999.00	12.00	0.00	97.10	98.40	0.00	98.20	98.30	98.00	0.00	96.60	
14	14.00	0.00	-999.00	-999.00	13.70	0.00	97.10	98.40	0.00	98.10	98.40	98.00	0.00	96.50	
15	19.90	0.00	-999.00	-999.00	12.50	0.00	97.20	98.40	0.00	98.00	98.20	98.00	0.00	96.60	
16	19.90	0.00	-999.00	-999.00	14.00	0.00	97.20	98.30	0.00	98.10	98.20	97.90	0.00	96.60	
17	19.60	0.00	-999.00	-999.00	13.60	0.00	97.10	98.10	0.00	98.10	98.00	97.90	0.00	96.60	
18	13.90	0.00	-999.00	-999.00	12.00	0.00	97.00	98.40	0.00	97.90	98.10	97.70	0.00	96.70	
19	13.70	0.00	-999.00	-999.00	12.00	0.00	96.80	98.00	0.00	97.80	98.00	97.70	0.00	96.60	
20	13.70	0.00	-999.00	-999.00	12.50	0.00	96.90	97.70	0.00	97.80	97.90	97.60	0.00	96.70	
21	13.90	0.00	-999.00	-999.00	12.80	0.00	96.80	98.10	0.00	97.80	97.90	97.60	0.00	96.60	
22	13.70	0.00	-999.00	-999.00	12.60	0.00	96.80	97.40	0.00	97.70	97.80	97.40	0.00	96.60	
23	15.20	0.00	-999.00	-999.00	12.40	0.00	96.70	97.20	0.00	97.70	97.80	97.30	0.00	96.50	
24	13.40	0.00	-999.00	-999.00	12.50	0.00	96.70	97.10	0.00	97.40	97.60	97.20	0.00	96.50	

24 NOV 2002

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

24 NOV 2002

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	LOWER GRANITE	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.		
1	1.40	0.00	105.40	-999.00	-999.00	-999.00	13.10	0.00	98.40	97.80	12.50	0.00	-999.00	-999.00	
2	1.40	0.00	105.40	-999.00	-999.00	-999.00	16.80	0.00	98.30	97.70	12.60	0.00	-999.00	-999.00	
3	1.40	0.00	105.30	-999.00	-999.00	-999.00	16.80	0.00	98.30	97.70	12.50	0.00	-999.00	-999.00	
4	1.50	0.00	105.30	-999.00	-999.00	-999.00	16.90	0.00	98.40	97.60	12.60	0.00	-999.00	-999.00	
5	1.40	0.00	105.20	-999.00	-999.00	-999.00	17.20	0.00	98.30	97.60	12.90	0.00	-999.00	-999.00	
6	1.40	0.00	105.10	-999.00	-999.00	-999.00	16.90	0.00	98.30	97.50	12.50	0.00	-999.00	-999.00	
7	1.50	0.00	105.20	-999.00	-999.00	-999.00	16.80	0.00	98.10	97.40	12.60	0.00	-999.00	-999.00	
8	1.40	0.00	105.20	-999.00	-999.00	-999.00	16.60	0.00	98.00	97.40	12.40	0.00	-999.00	-999.00	
9	1.40	0.00	105.40	-999.00	-999.00	-999.00	16.60	0.00	97.90	97.50	12.50	0.00	-999.00	-999.00	
10	1.40	0.00	105.40	-999.00	-999.00	-999.00	17.10	0.00	97.90	97.40	12.70	0.00	-999.00	-999.00	
11	1.40	0.00	105.90	-999.00	-999.00	-999.00	16.90	0.00	97.60	97.30	12.60	0.00	-999.00	-999.00	
12	1.50	0.00	106.10	-999.00	-999.00	-999.00	16.60	0.00	97.70	97.30	12.60	0.00	-999.00	-999.00	
13	1.40	0.00	106.10	-999.00	-999.00	-999.00	16.60	0.00	97.70	97.40	12.50	0.00	-999.00	-999.00	
14	1.40	0.00	106.00	-999.00	-999.00	-999.00	16.60	0.00	97.70	97.40	14.20	0.00	-999.00	-999.00	
15	1.40	0.00	105.60	-999.00	-999.00	-999.00	17.00	0.00	97.70	97.30	17.80	0.00	-999.00	-999.00	
16	1.50	0.00	105.40	-999.00	-999.00	-999.00	20.70	0.00	97.60	97.20	21.50	0.00	-999.00	-999.00	
17	1.60	0.00	105.60	-999.00	-999.00	-999.00	20.80	0.00	97.60	97.10	22.80	0.00	-999.00	-999.00	
18	1.40	0.00	107.00	-999.00	-999.00	-999.00	20.70	0.00	97.40	97.00	21.20	0.00	-999.00	-999.00	
19	1.50	0.00	106.40	-999.00	-999.00	-999.00	18.90	0.00	97.40	97.10	21.10	0.00	-999.00	-999.00	
20	1.40	0.00	105.50	-999.00	-999.00	-999.00	16.90	0.00	97.40	97.50	22.80	0.00	-999.00	-999.00	
21	1.40	0.00	104.80	-999.00	-999.00	-999.00	17.10	0.00	97.10	97.20	20.90	0.00	-999.00	-999.00	
22	1.50	0.00	104.80	-999.00	-999.00	-999.00	16.80	0.00	97.10	96.90	20.70	0.00	-999.00	-999.00	
23	1.40	0.00	104.60	-999.00	-999.00	-999.00	15.10	0.00	97.10	96.90	14.30	0.00	-999.00	-999.00	
24	1.40	0.00	104.50	-999.00	-999.00	-999.00	15.00	0.00	97.10	96.80	14.10	0.00	-999.00	-999.00	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB	WA TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB	GAS %SAT	
1	13.50	0.00	-999.00	-999.00	18.90	0.00	96.60	97.10	0.00	97.40	97.50	97.20	0.00	96.40	
2	13.70	0.00	-999.00	-999.00	19.40	0.00	96.60	97.00	0.00	97.20	97.50	97.10	0.00	96.30	
3	13.50	0.00	-999.00	-999.00	21.30	0.00	96.40	97.30	0.00	97.90	97.30	97.50	97.20	0.00	
4	13.50	0.00	-999.00	-999.00	19.60	0.00	96.40	96.90	0.00	88.80	97.30	97.40	97.30	0.00	
5	13.60	0.00	-999.00	-999.00	19.70	0.00	96.30	-999.00	0.00	107.30	0.00	97.10	97.10	0.00	
6	13.60	0.00	-999.00	-999.00	19.70	0.00	96.40	-999.00	0.00	127.00	0.00	97.00	97.30	95.90	
7	13.60	0.00	-999.00	-999.00	21.30	0.00	96.20	-999.00	0.00	154.00	0.00	96.90	97.10	95.80	
8	13.80	0.00	-999.00	-999.00	20.20	0.00	96.10	-999.00	0.00	156.50	0.00	96.70	97.00	95.60	
9	13.60	0.00	-999.00	-999.00	21.60	0.00	96.10	-999.00	0.00	156.90	0.00	96.70	96.90	95.50	
10	13.70	0.00	-999.00	-999.00	19.90	0.00	96.20	-999.00	0.00	157.20	0.00	96.70	96.90	95.40	
11	13.70	0.00	-999.00	-999.00	12.60	0.00	96.40	-999.00	0.00	156.50	0.00	96.80	97.00	95.40	
12	15.40	0.00	-999.00	-999.00	12.40	0.00	96.40	-999.00	0.00	156.00	0.00	96.80	97.00	95.40	
13	14.10	0.00	-999.00	-999.00	14.10	0.00	96.20	-999.00	0.00	156.50	0.00	97.10	97.00	95.40	
14	13.90	0.00	-999.00	-999.00	12.40	0.00	96.20	-999.00	0.00	140.70	0.00	97.20	97.00	95.40	
15	15.40	0.00	-999.00	-999.00	13.90	0.00	96.10	-999.00	0.00	136.50	0.00	96.90	97.00	95.50	
16	13.90	0.00	-999.00	-999.00	12.40	0.00	96.10	-999.00	0.00	136.90	0.00	96.60	96.90	95.40	
17	17.60	0.00	-999.00	-999.00	12.50	0.00	95.90	-999.00	0.00	138.70	0.00	96.50	96.90	95.50	
18	22.40	0.00	-999.00	-999.00	12.80	0.00	96.00	-999.00	0.00	117.80	0.00	96.40	96.80	95.50	
19	21.20	0.00	-999.00	-999.00	12.50	0.00	95.90	-999.00	0.00	116.20	0.00	96.30	96.80	95.60	
20	21.40	0.00	-999.00	-999.00	12.40	0.00	95.70	-999.00	0.00	100.00	0.00	96.20	96.70	95.50	
21	21.00	0.00	-999.00	-999.00	12.40	0.00	95.80	-999.00	0.00	98.30	0.00	96.10	96.60	95.50	
22	20.70	0.00	-999.00	-999.00	12.40	0.00	95.80	-999.00	0.00	80.10	0.00	96.00	96.70	95.50	
23	13.90	0.00	-999.00	-999.00	12.70	0.00	95.70	-999.00	0.00	79.20	0.00	95.90	96.50	96.00	
24	13.70	0.00	-999.00	-999.00	12.50	0.00	95.60	-999.00	0.00	79.40	0.00	95.80	96.50	95.40	

25 NOV 2002

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

25 NOV 2002

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. TAI LW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAI LW.	LOWER GRANITE	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAI LW.		
1	1.40	0.00	104.70	-999.00	-999.00	-999.00	15.30	0.00	97.10	96.80	13.90	0.00	-999.00	-999.00	
2	1.40	0.00	104.70	-999.00	-999.00	-999.00	14.90	0.00	97.00	96.60	14.00	0.00	-999.00	-999.00	
3	1.40	0.00	104.80	-999.00	-999.00	-999.00	14.90	0.00	97.00	96.60	14.00	0.00	-999.00	-999.00	
4	1.50	0.00	104.70	-999.00	-999.00	-999.00	15.10	0.00	97.00	96.60	14.20	0.00	-999.00	-999.00	
5	1.40	0.00	104.60	-999.00	-999.00	-999.00	19.70	0.00	97.00	96.40	19.70	0.00	-999.00	-999.00	
6	1.50	0.00	104.50	-999.00	-999.00	-999.00	20.40	0.00	96.80	96.50	20.40	0.00	-999.00	-999.00	
7	1.40	0.00	104.40	-999.00	-999.00	-999.00	20.00	0.00	96.80	96.40	20.80	0.00	-999.00	-999.00	
8	1.40	0.00	104.50	-999.00	-999.00	-999.00	19.90	0.00	96.70	96.40	30.20	0.00	-999.00	-999.00	
9	1.40	0.00	104.70	-999.00	-999.00	-999.00	19.90	0.00	96.70	96.40	30.80	0.00	-999.00	-999.00	
10	1.40	0.00	105.20	-999.00	-999.00	-999.00	16.40	0.00	96.60	96.30	18.30	0.00	-999.00	-999.00	
11	1.50	0.00	105.60	-999.00	-999.00	-999.00	16.10	0.00	96.60	96.40	17.30	0.00	-999.00	-999.00	
12	1.40	0.00	105.70	-999.00	-999.00	-999.00	16.30	0.00	96.60	96.40	17.40	0.00	-999.00	-999.00	
13	1.40	0.00	105.80	-999.00	-999.00	-999.00	12.90	0.00	96.70	96.40	13.80	0.00	-999.00	-999.00	
14	1.40	0.00	105.60	-999.00	-999.00	-999.00	13.00	0.00	96.70	96.60	13.90	0.00	-999.00	-999.00	
15	1.40	0.00	105.30	-999.00	-999.00	-999.00	19.60	0.00	96.70	96.50	13.80	0.00	-999.00	-999.00	
16	1.40	0.00	105.10	-999.00	-999.00	-999.00	19.90	0.00	96.70	96.50	13.20	0.00	-999.00	-999.00	
17	1.40	0.00	104.80	-999.00	-999.00	-999.00	20.90	0.00	96.80	96.50	13.50	0.00	-999.00	-999.00	
18	1.40	0.00	104.70	-999.00	-999.00	-999.00	25.80	0.00	97.00	96.60	19.70	0.00	-999.00	-999.00	
19	1.40	0.00	104.70	-999.00	-999.00	-999.00	25.30	0.00	97.00	96.60	19.80	0.00	-999.00	-999.00	
20	1.40	0.00	104.70	-999.00	-999.00	-999.00	20.30	0.00	96.80	96.60	21.30	0.00	-999.00	-999.00	
21	1.50	0.00	104.60	-999.00	-999.00	-999.00	20.30	0.00	97.00	96.60	21.30	0.00	-999.00	-999.00	
22	1.40	0.00	104.60	-999.00	-999.00	-999.00	19.90	0.00	97.00	96.50	19.90	0.00	-999.00	-999.00	
23	1.40	0.00	104.70	-999.00	-999.00	-999.00	15.10	0.00	97.00	97.20	19.60	0.00	-999.00	-999.00	
24	1.60	0.00	104.60	-999.00	-999.00	-999.00	12.80	0.00	97.00	97.10	13.30	0.00	-999.00	-999.00	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAI LW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAI LW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB	WA TAI LW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB	GAS %SAT	
1	13.50	0.00	-999.00	-999.00	12.50	0.00	95.60	-999.00	0.00	95.80	96.40	96.00	0.00	95.40	
2	13.90	0.00	-999.00	-999.00	12.50	0.00	95.60	-999.00	0.00	95.80	96.30	95.80	0.00	95.20	
3	14.20	0.00	-999.00	-999.00	12.50	0.00	95.60	-999.00	0.00	95.70	96.30	95.80	0.00	95.20	
4	14.30	0.00	-999.00	-999.00	13.00	0.00	95.50	-999.00	0.00	95.50	96.20	95.80	0.00	95.00	
5	19.30	0.00	-999.00	-999.00	19.80	0.00	95.50	-999.00	0.00	95.50	96.10	95.70	0.00	94.80	
6	19.50	0.00	-999.00	-999.00	19.50	0.00	95.40	-999.00	0.00	95.30	96.00	95.60	0.00	94.80	
7	21.60	0.00	-999.00	-999.00	19.80	0.00	95.30	-999.00	0.00	95.20	95.80	95.60	0.00	94.60	
8	29.70	0.00	-999.00	-999.00	26.70	0.00	95.40	-999.00	0.00	95.10	95.70	95.50	0.00	94.50	
9	29.80	0.00	-999.00	-999.00	27.00	0.00	95.30	-999.00	0.00	95.20	95.60	95.40	0.00	94.50	
10	29.60	0.00	-999.00	-999.00	27.60	0.00	95.30	-999.00	0.00	95.20	95.60	95.40	0.00	94.40	
11	21.10	0.00	-999.00	-999.00	26.90	0.00	95.30	-999.00	0.00	95.30	95.60	95.40	0.00	94.40	
12	20.40	0.00	-999.00	-999.00	21.30	0.00	95.20	-999.00	0.00	95.30	95.60	95.60	0.00	94.40	
13	14.00	0.00	-999.00	-999.00	18.90	0.00	95.20	-999.00	0.00	95.50	95.70	95.60	0.00	94.40	
14	13.70	0.00	-999.00	-999.00	12.10	0.00	95.30	-999.00	0.00	95.70	95.60	95.50	0.00	94.60	
15	15.90	0.00	-999.00	-999.00	12.00	0.00	95.30	-999.00	0.00	95.70	95.70	95.50	0.00	94.60	
16	17.30	0.00	-999.00	-999.00	11.90	0.00	95.40	-999.00	0.00	95.30	95.60	95.50	0.00	94.60	
17	17.60	0.00	-999.00	-999.00	13.10	0.00	95.60	-999.00	0.00	95.50	95.60	95.40	0.00	94.80	
18	21.20	0.00	-999.00	-999.00	21.10	0.00	95.60	-999.00	0.00	95.50	95.50	95.40	0.00	94.90	
19	19.60	0.00	-999.00	-999.00	19.60	0.00	95.50	-999.00	0.00	95.30	95.50	95.50	0.00	95.10	
20	19.60	0.00	-999.00	-999.00	19.50	0.00	95.50	-999.00	0.00	95.40	95.40	95.50	0.00	95.20	
21	19.60	0.00	-999.00	-999.00	19.80	0.00	95.40	-999.00	0.00	95.10	95.40	95.50	0.00	95.30	
22	19.50	0.00	-999.00	-999.00	19.50	0.00	95.40	-999.00	0.00	95.30	95.50	95.30	0.00	95.30	
23	19.40	0.00	-999.00	-999.00	18.50	0.00	95.50	-999.00	0.00	95.20	95.50	95.20	0.00	95.30	
24	14.20	0.00	-999.00	-999.00	12.40	0.00	95.40	-999.00	0.00	95.30	95.60	95.20	0.00	95.40	

26 NOV 2002

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

26 NOV 2002

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	LOWER GRANITE	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.		
1	1.60	0.00	104.20	-999.00	-999.00	-999.00	12.80	0.00	97.00	96.80	13.00	0.00	-999.00	-999.00	
2	1.60	0.00	103.30	-999.00	-999.00	-999.00	14.50	0.00	97.10	96.80	13.00	0.00	-999.00	-999.00	
3	1.60	0.00	103.00	-999.00	-999.00	-999.00	12.90	0.00	97.10	97.40	13.20	0.00	-999.00	-999.00	
4	1.60	0.00	102.90	-999.00	-999.00	-999.00	17.30	0.00	97.00	97.10	14.50	0.00	-999.00	-999.00	
5	1.60	0.00	102.90	-999.00	-999.00	-999.00	15.60	0.00	97.00	97.50	13.00	0.00	-999.00	-999.00	
6	1.60	0.00	102.80	-999.00	-999.00	-999.00	15.70	0.00	97.00	96.90	13.10	0.00	-999.00	-999.00	
7	1.60	0.00	102.70	-999.00	-999.00	-999.00	18.30	0.00	97.00	96.80	17.50	0.00	-999.00	-999.00	
8	1.60	0.00	102.80	-999.00	-999.00	-999.00	18.30	0.00	97.00	96.70	20.70	0.00	-999.00	-999.00	
9	1.60	0.00	102.70	-999.00	-999.00	-999.00	18.30	5.10	97.00	96.70	19.60	0.00	-999.00	-999.00	
10	1.60	0.00	103.10	-999.00	-999.00	-999.00	19.50	6.70	97.00	103.40	19.60	0.00	-999.00	-999.00	
11	1.60	0.00	103.30	-999.00	-999.00	-999.00	17.80	5.10	97.10	105.40	19.60	0.00	-999.00	-999.00	
12	1.60	0.00	103.30	-999.00	-999.00	-999.00	19.50	6.70	97.20	105.70	20.00	0.00	-999.00	-999.00	
13	1.60	0.00	103.50	-999.00	-999.00	-999.00	19.50	6.70	97.20	106.00	19.70	0.00	-999.00	-999.00	
14	1.60	0.00	103.60	-999.00	-999.00	-999.00	19.80	6.90	97.40	106.40	19.50	0.00	-999.00	-999.00	
15	1.60	0.00	103.60	-999.00	-999.00	-999.00	19.50	6.70	97.20	106.50	19.50	0.00	-999.00	-999.00	
16	1.60	0.00	103.50	-999.00	-999.00	-999.00	18.50	5.50	97.20	106.50	19.60	0.00	-999.00	-999.00	
17	1.50	0.00	103.40	-999.00	-999.00	-999.00	21.40	0.00	0.00	101.20	20.00	0.00	-999.00	-999.00	
18	1.50	0.00	103.30	-999.00	-999.00	-999.00	21.50	0.00	97.20	99.10	21.10	0.00	-999.00	-999.00	
19	1.50	0.00	103.20	-999.00	-999.00	-999.00	21.70	0.00	97.10	98.00	21.20	0.00	-999.00	-999.00	
20	1.50	0.00	103.90	-999.00	-999.00	-999.00	21.50	0.00	97.10	97.60	21.20	0.00	-999.00	-999.00	
21	1.50	0.00	104.10	-999.00	-999.00	-999.00	21.40	0.00	97.10	97.50	31.00	0.00	-999.00	-999.00	
22	1.50	0.00	104.30	-999.00	-999.00	-999.00	21.20	0.00	97.10	97.40	30.00	0.00	-999.00	-999.00	
23	1.50	0.00	104.30	-999.00	-999.00	-999.00	13.30	0.00	97.10	97.50	31.20	0.00	-999.00	-999.00	
24	1.50	0.00	104.40	-999.00	-999.00	-999.00	13.10	0.00	97.00	97.40	18.90	0.00	-999.00	-999.00	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	MCNARY	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	PASCO	
1	15.20	0.00	-999.00	-999.00	12.20	0.00	95.50	-999.00	128.40	0.00	95.30	95.60	95.20	0.00	95.40
2	14.00	0.00	-999.00	-999.00	12.40	0.00	95.30	-999.00	128.60	0.00	95.20	95.50	95.30	0.00	95.40
3	13.80	0.00	-999.00	-999.00	12.20	0.00	95.30	-999.00	126.40	0.00	95.20	95.50	95.30	0.00	95.40
4	13.80	0.00	-999.00	-999.00	12.20	0.00	95.30	-999.00	131.30	0.00	95.20	95.50	95.30	0.00	95.40
5	13.90	0.00	-999.00	-999.00	12.20	0.00	95.40	-999.00	145.40	0.00	95.10	95.40	95.20	0.00	95.20
6	13.90	0.00	-999.00	-999.00	13.00	0.00	95.40	-999.00	148.10	0.00	95.00	95.30	95.10	0.00	95.20
7	17.70	0.00	-999.00	-999.00	19.90	0.00	95.40	-999.00	150.10	0.00	95.00	95.30	95.10	0.00	95.20
8	20.30	0.00	-999.00	-999.00	21.50	0.00	95.40	-999.00	149.10	0.00	94.90	95.20	95.00	0.00	95.20
9	23.50	0.00	-999.00	-999.00	21.20	0.00	95.40	-999.00	148.80	0.00	94.90	95.20	95.00	0.00	95.10
10	21.90	0.00	-999.00	-999.00	21.40	0.00	95.40	-999.00	148.10	0.00	94.90	95.20	95.00	0.00	95.00
11	21.60	0.00	-999.00	-999.00	21.40	0.00	95.50	-999.00	147.10	0.00	95.00	95.20	95.00	0.00	95.10
12	22.40	0.00	-999.00	-999.00	21.70	0.00	95.70	-999.00	147.50	0.00	95.00	95.30	95.10	0.00	95.30
13	22.90	0.00	-999.00	-999.00	22.80	0.00	95.80	-999.00	146.90	0.00	95.20	95.40	95.20	0.00	95.30
14	24.00	0.00	-999.00	-999.00	21.30	0.00	96.20	-999.00	146.70	0.00	95.30	95.40	95.20	0.00	95.40
15	21.30	0.00	-999.00	-999.00	21.40	0.00	96.40	-999.00	146.70	0.00	95.30	95.50	95.30	0.00	95.60
16	21.20	0.00	-999.00	-999.00	22.40	0.00	96.30	-999.00	146.80	0.00	95.40	95.40	95.30	0.00	95.60
17	21.30	0.00	-999.00	-999.00	22.80	0.00	96.00	-999.00	147.80	0.00	95.20	95.40	95.40	0.00	95.80
18	21.20	0.00	-999.00	-999.00	23.70	0.00	95.90	-999.00	148.70	0.00	95.20	95.40	95.40	0.00	95.70
19	21.30	0.00	-999.00	-999.00	23.80	0.00	95.90	-999.00	148.80	0.00	95.30	95.40	95.20	0.00	95.80
20	21.20	0.00	-999.00	-999.00	24.10	0.00	96.00	-999.00	148.10	0.00	95.30	95.50	95.30	0.00	95.90
21	29.60	0.00	-999.00	-999.00	29.00	0.00	95.90	-999.00	133.50	0.00	95.20	95.40	95.30	0.00	95.80
22	29.40	0.00	-999.00	-999.00	29.40	0.00	96.00	-999.00	127.20	0.00	95.10	95.40	95.20	0.00	95.90
23	29.10	0.00	-999.00	-999.00	29.90	0.00	96.00	-999.00	127.20	0.00	95.10	95.40	95.20	0.00	95.90
24	21.40	0.00	-999.00	-999.00	21.00	0.00	95.80	-999.00	127.10	0.00	95.10	95.40	95.20	0.00	95.80

27 NOV 2002

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

27 NOV 2002

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	LITTLE GOOSE	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.		
1	1.50	0.00	104.40	-999.00	-999.00	-999.00	12.40	0.00	5.40	97.20	13.10	0.00	-999.00	-999.00	-999.00
2	1.50	0.00	104.40	-999.00	-999.00	-999.00	12.30	0.00	97.10	97.10	12.80	0.00	-999.00	-999.00	-999.00
3	1.50	0.00	104.40	-999.00	-999.00	-999.00	12.30	0.00	97.10	97.20	12.80	0.00	-999.00	-999.00	-999.00
4	1.50	0.00	104.40	-999.00	-999.00	-999.00	15.80	0.00	97.10	97.90	13.00	0.00	-999.00	-999.00	-999.00
5	1.50	0.00	104.30	-999.00	-999.00	-999.00	12.70	0.00	97.10	97.90	12.80	0.00	-999.00	-999.00	-999.00
6	1.50	0.00	104.30	-999.00	-999.00	-999.00	12.50	0.00	97.10	97.40	12.80	0.00	-999.00	-999.00	-999.00
7	1.50	0.00	104.30	-999.00	-999.00	-999.00	12.80	0.00	97.10	97.10	12.80	0.00	-999.00	-999.00	-999.00
8	1.50	0.00	104.30	-999.00	-999.00	-999.00	14.60	0.00	97.10	97.10	12.80	0.00	-999.00	-999.00	-999.00
9	1.50	0.00	104.50	-999.00	-999.00	-999.00	18.90	6.20	97.00	96.90	13.10	0.00	-999.00	-999.00	-999.00
10	1.50	0.00	104.80	-999.00	-999.00	-999.00	19.70	6.80	97.10	102.30	14.30	0.00	-999.00	-999.00	-999.00
11	1.50	0.00	105.10	-999.00	-999.00	-999.00	14.40	1.80	97.20	105.50	12.80	0.00	-999.00	-999.00	-999.00
12	1.50	0.00	105.20	-999.00	-999.00	-999.00	12.70	0.00	97.30	101.90	12.80	0.00	-999.00	-999.00	-999.00
13	1.50	0.00	105.30	-999.00	-999.00	-999.00	12.70	0.00	97.40	99.40	13.00	0.00	-999.00	-999.00	-999.00
14	1.50	0.00	105.40	-999.00	-999.00	-999.00	12.70	0.00	97.60	98.90	12.80	0.00	-999.00	-999.00	-999.00
15	1.50	0.00	105.40	-999.00	-999.00	-999.00	12.90	0.00	97.60	99.40	12.90	0.00	-999.00	-999.00	-999.00
16	1.50	0.00	105.20	-999.00	-999.00	-999.00	14.30	0.00	97.40	98.90	12.90	0.00	-999.00	-999.00	-999.00
17	1.50	0.00	104.90	-999.00	-999.00	-999.00	12.60	0.00	97.40	97.90	13.00	0.00	-999.00	-999.00	-999.00
18	1.50	0.00	104.70	-999.00	-999.00	-999.00	12.70	0.00	97.40	97.70	13.10	0.00	-999.00	-999.00	-999.00
19	1.50	0.00	104.50	-999.00	-999.00	-999.00	15.10	0.00	97.30	98.20	13.20	0.00	-999.00	-999.00	-999.00
20	1.50	0.00	104.50	-999.00	-999.00	-999.00	29.20	0.00	97.60	98.60	25.50	0.00	-999.00	-999.00	-999.00
21	1.50	0.00	104.60	-999.00	-999.00	-999.00	29.30	0.00	97.50	97.60	26.00	0.00	-999.00	-999.00	-999.00
22	1.50	0.00	104.40	-999.00	-999.00	-999.00	29.00	0.00	97.40	97.40	25.90	0.00	-999.00	-999.00	-999.00
23	1.50	0.00	104.40	-999.00	-999.00	-999.00	28.80	0.00	97.30	97.20	26.00	0.00	-999.00	-999.00	-999.00
24	1.50	0.00	104.40	-999.00	-999.00	-999.00	15.00	0.00	97.40	97.10	14.20	0.00	-999.00	-999.00	-999.00

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. WA FB	PASCO	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB	GAS % SAT	
1	16.90	0.00	-999.00	-999.00	20.50	0.00	95.80	-999.00	95.40	95.20	16.90	0.00	-999.00	-999.00	-999.00
2	13.80	0.00	-999.00	-999.00	15.50	0.00	95.70	-999.00	95.10	95.30	13.80	0.00	-999.00	-999.00	-999.00
3	13.70	0.00	-999.00	-999.00	12.60	0.00	95.80	0.00	95.10	95.30	13.70	0.00	-999.00	-999.00	-999.00
4	13.60	0.00	-999.00	-999.00	12.80	0.00	95.70	-999.00	95.10	95.30	13.60	0.00	-999.00	-999.00	-999.00
5	13.70	0.00	-999.00	-999.00	12.60	0.00	95.60	-999.00	95.20	95.20	13.70	0.00	-999.00	-999.00	-999.00
6	13.60	0.00	-999.00	-999.00	12.50	0.00	95.70	707.40	95.10	95.30	13.60	0.00	-999.00	-999.00	-999.00
7	13.60	0.00	-999.00	-999.00	12.70	0.00	95.60	96.20	95.00	95.30	13.60	0.00	-999.00	-999.00	-999.00
8	13.70	0.00	-999.00	-999.00	12.50	0.00	95.50	1200.30	94.90	95.20	13.70	0.00	-999.00	-999.00	-999.00
9	13.60	0.00	-999.00	-999.00	12.70	0.00	95.40	1002.00	94.90	95.20	13.60	0.00	-999.00	-999.00	-999.00
10	13.50	0.00	-999.00	-999.00	12.50	0.00	95.40	710.40	94.90	95.20	13.50	0.00	-999.00	-999.00	-999.00
11	13.50	0.00	-999.00	-999.00	12.60	0.00	95.40	96.30	94.90	95.20	13.50	0.00	-999.00	-999.00	-999.00
12	13.50	0.00	-999.00	-999.00	12.60	0.00	95.60	1187.60	95.10	95.30	13.50	0.00	-999.00	-999.00	-999.00
13	13.50	0.00	-999.00	-999.00	12.50	0.00	95.70	1136.80	95.20	95.30	13.50	0.00	-999.00	-999.00	-999.00
14	13.80	0.00	-999.00	-999.00	14.20	0.00	95.70	572.00	95.20	95.30	13.80	0.00	-999.00	-999.00	-999.00
15	15.00	0.00	-999.00	-999.00	12.50	0.00	95.70	96.70	95.20	95.40	15.00	0.00	-999.00	-999.00	-999.00
16	13.50	0.00	-999.00	-999.00	12.50	0.00	95.80	1207.80	95.20	95.40	13.50	0.00	-999.00	-999.00	-999.00
17	13.50	0.00	-999.00	-999.00	12.50	0.00	95.80	1132.10	95.20	95.40	13.50	0.00	-999.00	-999.00	-999.00
18	13.60	0.00	-999.00	-999.00	12.50	0.00	95.80	573.80	95.30	95.40	13.60	0.00	-999.00	-999.00	-999.00
19	14.20	0.00	-999.00	-999.00	14.20	0.00	95.80	96.50	95.20	95.40	14.20	0.00	-999.00	-999.00	-999.00
20	26.00	0.00	-999.00	-999.00	20.10	0.00	95.80	1207.50	95.10	95.40	26.00	0.00	-999.00	-999.00	-999.00
21	26.20	0.00	-999.00	-999.00	22.40	0.00	95.80	1155.30	95.10	95.40	26.20	0.00	-999.00	-999.00	-999.00
22	26.10	0.00	-999.00	-999.00	22.60	0.00	95.80	575.70	95.10	95.40	26.10	0.00	-999.00	-999.00	-999.00
23	26.10	0.00	-999.00	-999.00	22.40	0.00	95.70	97.00	95.10	95.40	26.10	0.00	-999.00	-999.00	-999.00
24	17.20	0.00	-999.00	-999.00	19.70	0.00	95.70	1290.40	95.60	95.20	17.20	0.00	-999.00	-999.00	-999.00

28 NOV 2002

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

28 NOV 2002

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	LOWER GRANITE	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.		
1	1.50	0.00	104.40	-999.00	-999.00	-999.00	12.70	0.00	97.30	97.20	13.70	0.00	-999.00	-999.00	
2	1.50	0.00	104.40	-999.00	-999.00	-999.00	12.40	0.00	97.30	97.10	15.20	0.00	-999.00	-999.00	
3	1.50	0.00	104.40	-999.00	-999.00	-999.00	12.40	0.00	97.30	97.20	13.80	0.00	-999.00	-999.00	
4	1.50	0.00	104.50	-999.00	-999.00	-999.00	12.30	0.00	97.40	97.20	13.90	0.00	-999.00	-999.00	
5	1.50	0.00	104.50	-999.00	-999.00	-999.00	12.40	0.00	97.40	97.20	13.80	0.00	-999.00	-999.00	
6	1.50	0.00	104.50	-999.00	-999.00	-999.00	12.60	0.00	97.40	97.10	13.90	0.00	-999.00	-999.00	
7	1.50	0.00	104.30	-999.00	-999.00	-999.00	12.50	0.00	97.30	97.10	13.90	0.00	-999.00	-999.00	
8	1.50	0.00	104.40	-999.00	-999.00	-999.00	12.40	0.00	97.20	97.10	14.10	0.00	-999.00	-999.00	
9	1.50	0.00	104.60	-999.00	-999.00	-999.00	12.50	0.00	97.30	97.00	14.00	0.00	-999.00	-999.00	
10	1.50	0.00	104.80	-999.00	-999.00	-999.00	12.90	0.00	97.40	97.20	13.50	0.00	-999.00	-999.00	
11	1.50	0.00	105.00	-999.00	-999.00	-999.00	13.20	0.00	97.50	97.10	13.50	0.00	-999.00	-999.00	
12	1.50	0.00	105.30	-999.00	-999.00	-999.00	12.90	0.00	97.50	97.30	13.60	0.00	-999.00	-999.00	
13	1.50	0.00	105.50	-999.00	-999.00	-999.00	12.80	0.00	97.60	97.40	13.80	0.00	-999.00	-999.00	
14	1.50	0.00	105.70	-999.00	-999.00	-999.00	12.70	0.00	97.70	97.20	13.50	0.00	-999.00	-999.00	
15	1.50	0.00	105.80	-999.00	-999.00	-999.00	12.70	0.00	97.70	97.30	13.50	0.00	-999.00	-999.00	
16	1.50	0.00	105.40	-999.00	-999.00	-999.00	12.90	0.00	97.50	97.30	13.50	0.00	-999.00	-999.00	
17	1.50	0.00	105.10	-999.00	-999.00	-999.00	12.70	0.00	97.60	97.30	13.70	0.00	-999.00	-999.00	
18	1.50	0.00	105.00	-999.00	-999.00	-999.00	12.70	0.00	97.50	97.30	13.30	0.00	-999.00	-999.00	
19	1.50	0.00	104.90	-999.00	-999.00	-999.00	12.70	0.00	97.50	97.30	13.60	0.00	-999.00	-999.00	
20	1.50	0.00	105.00	-999.00	-999.00	-999.00	12.70	0.00	97.50	97.30	13.20	0.00	-999.00	-999.00	
21	1.50	0.00	104.80	-999.00	-999.00	-999.00	12.90	0.00	97.60	97.30	13.20	0.00	-999.00	-999.00	
22	1.50	0.00	104.90	-999.00	-999.00	-999.00	12.70	0.00	97.50	97.30	13.30	0.00	-999.00	-999.00	
23	1.50	0.00	104.80	-999.00	-999.00	-999.00	12.60	0.00	97.50	97.20	13.70	0.00	-999.00	-999.00	
24	1.50	0.00	104.80	-999.00	-999.00	-999.00	12.70	0.00	97.50	97.20	13.40	0.00	-999.00	-999.00	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB	WA TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB	GAS % SAT	
1	15.30	0.00	-999.00	-999.00	19.90	0.00	95.801143.50	93.90	0.00	95.10	95.30	95.00	95.40		
2	15.50	0.00	-999.00	-999.00	19.60	0.00	95.801577.50	87.70	0.00	95.00	95.20	95.10	95.50		
3	15.40	0.00	-999.00	-999.00	19.50	0.00	95.90196.20	88.60	0.00	95.00	95.20	95.10	95.40		
4	13.80	0.00	-999.00	-999.00	12.30	0.00	95.901196.70	113.80	0.00	95.00	95.20	95.10	95.40		
5	13.70	0.00	-999.00	-999.00	12.10	0.00	95.901143.70	108.80	0.00	95.10	95.20	95.10	95.40		
6	13.40	0.00	-999.00	-999.00	12.40	0.00	95.801649.60	108.70	0.00	95.10	95.20	95.20	95.30		
7	13.30	0.00	-999.00	-999.00	12.10	0.00	95.80196.20	118.60	0.00	95.10	95.20	95.10	95.30		
8	13.40	0.00	-999.00	-999.00	12.20	0.00	95.701181.80	128.80	0.00	94.90	95.20	95.10	95.10		
9	13.30	0.00	-999.00	-999.00	12.10	0.00	95.701146.50	128.40	0.00	94.90	95.20	95.10	95.20		
10	15.30	0.00	-999.00	-999.00	12.40	0.00	95.701651.00	127.80	0.00	95.00	95.20	95.10	95.10		
11	13.60	0.00	-999.00	-999.00	12.60	0.00	95.90196.40	126.30	0.00	94.90	95.20	95.20	95.00		
12	13.60	0.00	-999.00	-999.00	12.50	0.00	96.001189.20	124.50	0.00	95.00	95.30	95.30	95.10		
13	13.60	0.00	-999.00	-999.00	12.50	0.00	96.001153.10	124.00	0.00	95.10	95.40	95.30	95.20		
14	13.60	0.00	-999.00	-999.00	14.00	0.00	96.001582.40	127.30	0.00	95.20	95.30	95.40	95.20		
15	13.90	0.00	-999.00	-999.00	12.50	0.00	96.00196.90	146.70	0.00	95.20	95.40	95.40	95.20		
16	13.60	0.00	-999.00	-999.00	14.20	0.00	96.001199.70	148.00	0.00	95.20	95.40	95.40	95.30		
17	13.60	0.00	-999.00	-999.00	12.50	0.00	96.101151.60	147.80	0.00	95.20	95.40	95.40	95.30		
18	13.80	0.00	-999.00	-999.00	12.50	0.00	96.101583.70	148.00	0.00	95.20	95.50	95.40	95.30		
19	15.30	0.00	-999.00	-999.00	12.40	0.00	96.00196.90	148.40	0.00	95.30	95.50	95.40	95.30		
20	13.90	0.00	-999.00	-999.00	12.10	0.00	96.101195.70	148.20	0.00	95.30	95.50	95.30	95.40		
21	14.10	0.00	-999.00	-999.00	12.00	0.00	96.101145.10	106.30	0.00	95.30	95.50	95.30	95.30		
22	13.80	0.00	-999.00	-999.00	12.20	0.00	96.001586.80	103.10	0.00	95.30	95.50	95.30	95.30		
23	13.80	0.00	-999.00	-999.00	11.90	0.00	95.90196.90	91.40	0.00	95.30	95.40	95.30	95.30		
24	13.80	0.00	-999.00	-999.00	11.90	0.00	95.901180.20	90.10	0.00	95.40	95.30	95.30	95.30		

29 NOV 2002

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

29 NOV 2002

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	LITTLE GOOSE	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.		
1	1.50	0.00	104.90	-999.00	-999.00	-999.00	12.70	0.00	97.40	97.30	13.40	0.00	-999.00	-999.00	-999.00
2	1.50	0.00	104.80	-999.00	-999.00	-999.00	12.80	0.00	97.50	97.30	13.50	0.00	-999.00	-999.00	-999.00
3	1.40	0.00	104.80	-999.00	-999.00	-999.00	12.60	0.00	97.30	97.20	13.00	0.00	-999.00	-999.00	-999.00
4	1.40	0.00	105.10	-999.00	-999.00	-999.00	12.60	0.00	97.30	97.10	13.10	0.00	-999.00	-999.00	-999.00
5	1.40	0.00	105.80	-999.00	-999.00	-999.00	12.60	0.00	97.40	97.20	12.90	0.00	-999.00	-999.00	-999.00
6	1.40	0.00	105.80	-999.00	-999.00	-999.00	12.60	0.00	97.30	97.10	12.90	0.00	-999.00	-999.00	-999.00
7	1.40	0.00	105.70	-999.00	-999.00	-999.00	12.90	0.00	97.40	97.10	12.70	0.00	-999.00	-999.00	-999.00
8	1.40	0.00	106.00	-999.00	-999.00	-999.00	13.80	0.00	97.30	97.10	12.60	0.00	-999.00	-999.00	-999.00
9	1.40	0.00	106.30	-999.00	-999.00	-999.00	14.00	0.00	97.20	97.20	12.90	0.00	-999.00	-999.00	-999.00
10	1.40	0.00	106.60	-999.00	-999.00	-999.00	14.00	0.00	97.20	97.00	12.60	0.00	-999.00	-999.00	-999.00
11	1.40	0.00	106.90	-999.00	-999.00	-999.00	13.90	0.00	97.20	97.00	12.50	0.00	-999.00	-999.00	-999.00
12	1.40	0.00	107.10	-999.00	-999.00	-999.00	14.20	0.00	97.30	97.00	12.50	0.00	-999.00	-999.00	-999.00
13	1.40	0.00	107.20	-999.00	-999.00	-999.00	13.90	0.00	97.40	97.20	12.80	0.00	-999.00	-999.00	-999.00
14	1.40	0.00	107.20	-999.00	-999.00	-999.00	14.00	0.00	97.50	97.20	12.60	0.00	-999.00	-999.00	-999.00
15	1.40	0.00	107.00	-999.00	-999.00	-999.00	14.00	0.00	97.50	97.10	12.60	0.00	-999.00	-999.00	-999.00
16	1.40	0.00	106.80	-999.00	-999.00	-999.00	14.00	0.00	97.50	97.10	12.60	0.00	-999.00	-999.00	-999.00
17	1.40	0.00	106.30	-999.00	-999.00	-999.00	14.20	0.00	97.50	97.30	12.50	0.00	-999.00	-999.00	-999.00
18	1.40	0.00	106.20	-999.00	-999.00	-999.00	14.00	0.00	97.50	97.10	12.60	0.00	-999.00	-999.00	-999.00
19	1.40	0.00	106.20	-999.00	-999.00	-999.00	15.60	0.00	97.40	97.80	12.50	0.00	-999.00	-999.00	-999.00
20	1.40	0.00	106.20	-999.00	-999.00	-999.00	12.90	0.00	97.50	97.60	12.80	0.00	-999.00	-999.00	-999.00
21	1.40	0.00	106.30	-999.00	-999.00	-999.00	12.80	0.00	97.30	97.30	13.10	0.00	-999.00	-999.00	-999.00
22	1.40	0.00	106.20	-999.00	-999.00	-999.00	13.00	0.00	97.30	97.20	13.20	0.00	-999.00	-999.00	-999.00
23	1.40	0.00	106.20	-999.00	-999.00	-999.00	12.80	0.00	97.40	97.20	13.50	0.00	-999.00	-999.00	-999.00
24	1.40	0.00	106.10	-999.00	-999.00	-999.00	12.80	0.00	97.40	97.20	13.30	0.00	-999.00	-999.00	-999.00

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	PASCO	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	GAS %SAT	
1	14.20	0.00	-999.00	-999.00	12.40	0.00	95.90	150.90	95.40	95.30	14.20	0.00	-999.00	-999.00	-999.00
2	14.50	0.00	-999.00	-999.00	12.30	0.00	95.90	587.50	95.40	95.40	14.50	0.00	-999.00	-999.00	-999.00
3	14.30	0.00	-999.00	-999.00	12.60	0.00	95.90	96.60	95.40	95.30	14.30	0.00	-999.00	-999.00	-999.00
4	14.30	0.00	-999.00	-999.00	12.40	0.00	95.90	1178.90	95.40	95.30	14.30	0.00	-999.00	-999.00	-999.00
5	14.40	0.00	-999.00	-999.00	12.40	0.00	95.80	1156.10	95.40	95.30	14.40	0.00	-999.00	-999.00	-999.00
6	13.70	0.00	-999.00	-999.00	12.60	0.00	95.80	658.00	95.40	95.30	13.70	0.00	-999.00	-999.00	-999.00
7	13.90	0.00	-999.00	-999.00	14.10	0.00	95.70	96.60	100.30	95.30	13.90	0.00	-999.00	-999.00	-999.00
8	13.80	0.00	-999.00	-999.00	12.80	0.00	95.70	1187.00	98.20	95.20	13.80	0.00	-999.00	-999.00	-999.00
9	13.50	0.00	-999.00	-999.00	12.60	0.00	95.70	1156.00	98.10	95.30	13.50	0.00	-999.00	-999.00	-999.00
10	13.60	0.00	-999.00	-999.00	12.60	0.00	95.80	590.00	97.90	95.30	13.60	0.00	-999.00	-999.00	-999.00
11	13.80	0.00	-999.00	-999.00	12.50	0.00	95.80	96.50	98.60	95.40	13.80	0.00	-999.00	-999.00	-999.00
12	13.50	0.00	-999.00	-999.00	12.40	0.00	95.90	1182.80	98.30	95.60	13.50	0.00	-999.00	-999.00	-999.00
13	13.50	0.00	-999.00	-999.00	12.70	0.00	95.90	1169.90	98.20	95.60	13.50	0.00	-999.00	-999.00	-999.00
14	13.60	0.00	-999.00	-999.00	12.50	0.00	95.90	589.40	98.30	95.60	13.60	0.00	-999.00	-999.00	-999.00
15	13.50	0.00	-999.00	-999.00	12.50	0.00	95.90	96.90	98.30	95.70	13.50	0.00	-999.00	-999.00	-999.00
16	13.80	0.00	-999.00	-999.00	12.50	0.00	95.90	1188.10	98.40	95.70	13.80	0.00	-999.00	-999.00	-999.00
17	13.70	0.00	-999.00	-999.00	12.60	0.00	95.90	1135.10	99.20	95.60	13.70	0.00	-999.00	-999.00	-999.00
18	13.70	0.00	-999.00	-999.00	12.80	0.00	95.90	591.30	98.80	95.70	13.70	0.00	-999.00	-999.00	-999.00
19	13.70	0.00	-999.00	-999.00	12.60	0.00	95.80	96.60	98.20	95.70	13.70	0.00	-999.00	-999.00	-999.00
20	13.60	0.00	-999.00	-999.00	12.60	0.00	95.60	1185.90	104.10	95.60	13.60	0.00	-999.00	-999.00	-999.00
21	13.50	0.00	-999.00	-999.00	12.60	0.00	95.80	1024.40	103.90	95.60	13.50	0.00	-999.00	-999.00	-999.00
22	13.30	0.00	-999.00	-999.00	12.60	0.00	95.80	594.50	100.20	95.60	13.30	0.00	-999.00	-999.00	-999.00
23	13.30	0.00	-999.00	-999.00	12.80	0.00	95.70	96.50	100.50	95.50	13.30	0.00	-999.00	-999.00	-999.00
24	13.30	0.00	-999.00	-999.00	12.60	0.00	95.70	1194.00	99.30	95.50	13.30	0.00	-999.00	-999.00	-999.00

30 NOV 2002

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

30 NOV 2002

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.			
1	1.40	0.00	106.20	-999.00	-999.00	-999.00	12.80	0.00	97.30	97.20	13.30	0.00	-999.00	-999.00	
2	1.40	0.00	106.20	-999.00	-999.00	-999.00	12.80	0.00	97.30	97.20	14.80	0.00	-999.00	-999.00	
3	1.40	0.00	106.30	-999.00	-999.00	-999.00	13.00	0.00	97.30	97.10	13.20	0.00	-999.00	-999.00	
4	1.40	0.00	106.30	-999.00	-999.00	-999.00	12.80	0.00	97.40	97.10	12.90	0.00	-999.00	-999.00	
5	1.40	0.00	106.20	-999.00	-999.00	-999.00	12.80	0.00	97.30	97.10	12.70	0.00	-999.00	-999.00	
6	1.40	0.00	106.30	-999.00	-999.00	-999.00	12.80	0.00	97.40	97.10	12.90	0.00	-999.00	-999.00	
7	1.50	0.00	106.30	-999.00	-999.00	-999.00	12.80	0.00	97.30	97.10	12.80	0.00	-999.00	-999.00	
8	1.50	0.00	106.30	-999.00	-999.00	-999.00	13.00	0.00	97.40	97.10	12.90	0.00	-999.00	-999.00	
9	1.50	0.00	106.40	-999.00	-999.00	-999.00	12.80	0.00	97.30	97.10	13.20	0.00	-999.00	-999.00	
10	1.50	0.00	106.60	-999.00	-999.00	-999.00	12.80	0.00	97.30	97.10	13.00	0.00	-999.00	-999.00	
11	1.40	0.00	107.10	-999.00	-999.00	-999.00	12.80	0.00	97.40	97.10	13.00	0.00	-999.00	-999.00	
12	1.40	0.00	107.20	-999.00	-999.00	-999.00	12.80	0.00	97.50	97.20	13.00	0.00	-999.00	-999.00	
13	1.40	0.00	107.40	-999.00	-999.00	-999.00	13.00	0.00	97.50	97.30	13.20	0.00	-999.00	-999.00	
14	1.40	0.00	107.50	-999.00	-999.00	-999.00	12.70	0.00	97.60	97.30	12.90	0.00	-999.00	-999.00	
15	1.40	0.00	107.30	-999.00	-999.00	-999.00	12.80	0.00	97.60	97.40	13.00	0.00	-999.00	-999.00	
16	1.40	0.00	106.90	-999.00	-999.00	-999.00	12.70	0.00	97.60	97.40	12.90	0.00	-999.00	-999.00	
17	1.40	0.00	106.60	-999.00	-999.00	-999.00	12.90	0.00	97.70	97.40	12.80	0.00	-999.00	-999.00	
18	1.40	0.00	106.50	-999.00	-999.00	-999.00	12.80	0.00	97.70	97.40	13.00	0.00	-999.00	-999.00	
19	1.40	0.00	106.40	-999.00	-999.00	-999.00	12.70	0.00	97.70	97.40	12.80	0.00	-999.00	-999.00	
20	1.40	0.00	106.50	-999.00	-999.00	-999.00	12.70	0.00	97.70	97.40	13.00	0.00	-999.00	-999.00	
21	1.40	0.00	106.50	-999.00	-999.00	-999.00	12.70	0.00	97.70	97.40	13.00	0.00	-999.00	-999.00	
22	1.40	0.00	106.50	-999.00	-999.00	-999.00	12.90	0.00	97.70	97.40	13.20	0.00	-999.00	-999.00	
23	1.40	0.00	106.40	-999.00	-999.00	-999.00	12.60	0.00	97.70	97.40	13.00	0.00	-999.00	-999.00	
24	1.50	0.00	106.50	-999.00	-999.00	-999.00	11.80	0.00	97.70	97.40	12.80	0.00	-999.00	-999.00	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL OR KCFS	GAS %SAT. WA FB TAILW.	TOTAL DISCH KCFS	SPILL FB	GAS %SAT. FB TAILW.
1	13.30	0.00	-999.00	-999.00	12.60	0.00	95.70	1161.70	99.20	0.00	95.40	95.60	95.50	0.00	94.90
2	13.50	0.00	-999.00	-999.00	12.60	0.00	95.60	595.80	96.60	0.00	95.40	95.50	95.50	0.00	94.80
3	13.30	0.00	-999.00	-999.00	12.80	0.00	95.80	96.40	97.30	0.00	95.40	95.50	95.60	0.00	94.90
4	13.30	0.00	-999.00	-999.00	12.60	0.00	95.80	1183.20	102.50	0.00	95.50	95.50	95.40	0.00	94.90
5	13.30	0.00	-999.00	-999.00	12.60	0.00	95.80	571.30	104.00	0.00	95.50	95.70	95.50	0.00	94.90
6	13.30	0.00	-999.00	-999.00	12.60	0.00	95.80	669.60	105.00	0.00	95.50	95.70	95.40	0.00	94.90
7	13.50	0.00	-999.00	-999.00	12.50	0.00	95.80	96.50	109.00	0.00	95.50	95.70	95.40	0.00	94.90
8	13.30	0.00	-999.00	-999.00	12.60	0.00	95.70	1179.30	141.10	0.00	95.50	95.60	95.40	0.00	94.90
9	13.40	0.00	-999.00	-999.00	12.90	0.00	95.70	915.70	129.70	0.00	95.40	95.60	95.40	0.00	94.90
10	13.40	0.00	-999.00	-999.00	12.70	0.00	95.60	600.40	119.10	0.00	95.40	95.60	95.40	0.00	95.00
11	13.40	0.00	-999.00	-999.00	12.70	0.00	95.80	96.40	118.60	0.00	95.50	95.60	95.40	0.00	95.00
12	13.40	0.00	-999.00	-999.00	12.70	0.00	95.90	1190.00	118.60	0.00	95.50	95.70	95.50	0.00	95.10
13	15.10	0.00	-999.00	-999.00	12.80	0.00	95.90	1175.70	119.00	0.00	95.50	95.80	95.60	0.00	95.20
14	13.30	0.00	-999.00	-999.00	12.60	0.00	96.00	601.10	119.90	0.00	95.50	95.90	95.60	0.00	95.20
15	13.30	0.00	-999.00	-999.00	12.60	0.00	96.00	96.80	123.20	0.00	95.60	95.90	95.70	0.00	95.30
16	13.30	0.00	-999.00	-999.00	12.60	0.00	96.10	101393.50	124.10	0.00	95.60	95.90	95.70	0.00	95.30
17	13.30	0.00	-999.00	-999.00	12.60	0.00	95.90	1190.80	125.00	0.00	95.60	95.90	95.70	0.00	95.30
18	13.70	0.00	-999.00	-999.00	14.10	0.00	95.90	603.10	125.00	0.00	95.60	95.90	95.70	0.00	95.30
19	13.50	0.00	-999.00	-999.00	12.70	0.00	95.90	96.80	123.40	0.00	95.60	96.00	95.80	0.00	95.50
20	13.30	0.00	-999.00	-999.00	12.70	0.00	95.90	1184.50	123.00	0.00	95.70	96.00	95.60	0.00	95.50
21	13.20	0.00	-999.00	-999.00	12.70	0.00	96.00	1162.30	123.00	0.00	95.50	96.00	95.60	0.00	95.50
22	13.20	0.00	-999.00	-999.00	12.50	0.00	96.10	605.10	117.70	0.00	95.50	95.90	95.60	0.00	95.50
23	13.50	0.00	-999.00	-999.00	9.40	0.00	96.10	96.80	107.40	0.00	95.50	95.90	95.70	0.00	95.50
24	13.30	0.00	-999.00	-999.00	9.30	0.00	96.20	1176.50	104.20	0.00	95.50	95.90	95.60	0.00	95.50

01 DEC 2002

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

01 DEC 2002

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	LOWER GRANITE	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.		
1	1.50	0.00	106.50	-999.00	-999.00	-999.00	0.30	0.00	97.70	97.40	0.60	0.00	-999.00	-999.00	
2	1.50	0.00	106.60	-999.00	-999.00	-999.00	0.30	0.00	97.60	97.30	0.40	0.00	-999.00	-999.00	
3	1.50	0.00	106.70	-999.00	-999.00	-999.00	0.30	0.00	97.60	97.30	0.40	0.00	-999.00	-999.00	
4	1.50	0.00	106.70	-999.00	-999.00	-999.00	0.30	0.00	97.60	97.40	0.40	0.00	-999.00	-999.00	
5	1.50	0.00	106.70	-999.00	-999.00	-999.00	0.30	0.00	97.60	97.50	0.40	0.00	-999.00	-999.00	
6	1.50	0.00	106.70	-999.00	-999.00	-999.00	1.10	0.00	97.60	97.70	0.50	0.00	-999.00	-999.00	
7	1.50	0.00	106.70	-999.00	-999.00	-999.00	12.50	0.00	97.60	98.20	12.70	0.00	-999.00	-999.00	
8	1.40	0.00	106.60	-999.00	-999.00	-999.00	12.80	0.00	97.60	98.00	12.80	0.00	-999.00	-999.00	
9	1.40	0.00	106.80	-999.00	-999.00	-999.00	12.60	0.00	97.70	97.80	13.10	0.00	-999.00	-999.00	
10	1.40	0.00	106.90	-999.00	-999.00	-999.00	12.60	0.00	97.60	97.60	13.00	0.00	-999.00	-999.00	
11	1.40	0.00	107.40	-999.00	-999.00	-999.00	12.60	0.00	97.60	97.60	13.10	0.00	-999.00	-999.00	
12	1.40	0.00	107.50	-999.00	-999.00	-999.00	12.60	0.00	97.80	97.60	13.40	0.00	-999.00	-999.00	
13	1.40	0.00	107.70	-999.00	-999.00	-999.00	12.80	0.00	97.90	97.60	14.60	0.00	-999.00	-999.00	
14	1.40	0.00	107.70	-999.00	-999.00	-999.00	14.30	0.00	97.80	97.60	13.20	0.00	-999.00	-999.00	
15	1.40	0.00	107.40	-999.00	-999.00	-999.00	14.40	0.00	97.90	97.60	13.20	0.00	-999.00	-999.00	
16	1.40	0.00	107.20	-999.00	-999.00	-999.00	14.50	0.00	97.90	97.60	13.40	0.00	-999.00	-999.00	
17	1.40	0.00	106.90	-999.00	-999.00	-999.00	17.00	0.00	97.90	97.50	13.20	0.00	-999.00	-999.00	
18	1.40	0.00	106.70	-999.00	-999.00	-999.00	17.40	0.00	97.70	97.40	13.30	0.00	-999.00	-999.00	
19	1.40	0.00	106.70	-999.00	-999.00	-999.00	17.20	0.00	97.70	97.40	14.80	0.00	-999.00	-999.00	
20	1.40	0.00	106.70	-999.00	-999.00	-999.00	17.20	0.00	97.60	97.40	17.90	0.00	-999.00	-999.00	
21	1.40	0.00	106.60	-999.00	-999.00	-999.00	15.90	0.00	97.60	97.30	18.20	0.00	-999.00	-999.00	
22	1.40	0.00	106.60	-999.00	-999.00	-999.00	15.70	0.00	97.60	97.30	17.00	0.00	-999.00	-999.00	
23	1.40	0.00	106.60	-999.00	-999.00	-999.00	13.60	0.00	97.50	97.30	18.40	0.00	-999.00	-999.00	
24	1.40	0.00	106.50	-999.00	-999.00	-999.00	14.90	0.00	97.50	97.20	14.10	0.00	-999.00	-999.00	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB	WA TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB	GAS % SAT	
1	1.00	0.00	-999.00	-999.00	9.20	0.00	96.20	20198.70	0.00	95.50	95.90	95.70	0.00	95.50	
2	0.60	0.00	-999.00	-999.00	9.20	0.00	96.30	607.80	0.00	95.40	95.90	95.70	0.00	95.50	
3	0.60	0.00	-999.00	-999.00	9.20	0.00	96.30	96.80	0.00	95.60	95.90	95.70	0.00	95.50	
4	0.60	0.00	-999.00	-999.00	9.30	0.00	96.30	1216.00	0.00	95.50	95.90	95.70	0.00	95.40	
5	0.60	0.00	-999.00	-999.00	10.70	0.00	96.30	1156.90	0.00	95.50	95.90	95.70	0.00	95.50	
6	0.60	0.00	-999.00	-999.00	9.20	0.00	96.30	682.40	0.00	95.50	95.80	95.70	0.00	95.40	
7	13.20	0.00	-999.00	-999.00	9.20	0.00	96.30	97.00	0.00	95.50	95.80	95.70	0.00	95.40	
8	13.20	0.00	-999.00	-999.00	9.20	0.00	96.30	270.60	0.00	95.50	95.80	95.70	0.00	95.40	
9	13.60	0.00	-999.00	-999.00	9.10	0.00	96.20	1076.60	0.00	95.40	95.80	95.70	0.00	95.40	
10	15.20	0.00	-999.00	-999.00	8.90	0.00	96.30	612.60	0.00	95.40	95.80	95.70	0.00	95.40	
11	13.80	0.00	-999.00	-999.00	10.40	0.00	96.30	97.50	0.00	95.40	95.80	95.70	0.00	95.30	
12	13.80	0.00	-999.00	-999.00	10.40	0.00	96.20	11169.60	0.00	95.60	95.80	95.80	0.00	95.30	
13	13.80	0.00	-999.00	-999.00	8.90	0.00	96.30	1020.00	0.00	95.50	95.90	95.80	0.00	95.40	
14	14.00	0.00	-999.00	-999.00	9.90	0.00	96.30	612.60	0.00	95.50	95.90	95.70	0.00	95.40	
15	13.90	0.00	-999.00	-999.00	19.30	0.00	96.50	97.50	0.00	95.50	95.90	95.70	0.00	95.40	
16	21.10	0.00	-999.00	-999.00	19.30	0.00	96.30	1174.70	0.00	95.50	95.90	95.70	0.00	95.40	
17	20.00	0.00	-999.00	-999.00	19.50	0.00	96.20	1174.80	0.00	95.40	95.80	95.60	0.00	95.30	
18	19.80	0.00	-999.00	-999.00	19.70	0.00	96.20	614.70	0.00	95.40	95.80	95.60	0.00	95.30	
19	14.20	0.00	-999.00	-999.00	19.70	0.00	96.20	97.80	0.00	95.40	95.80	95.60	0.00	95.40	
20	19.60	0.00	-999.00	-999.00	19.30	0.00	96.20	11173.90	0.00	95.40	95.80	95.60	0.00	95.40	
21	16.80	0.00	-999.00	-999.00	18.70	0.00	96.10	1175.40	0.00	95.70	95.80	95.60	0.00	95.40	
22	17.60	0.00	-999.00	-999.00	12.40	0.00	96.00	617.50	0.00	95.50	95.60	95.40	0.00	95.40	
23	17.80	0.00	-999.00	-999.00	9.50	0.00	95.90	96.50	0.00	95.20	95.60	95.40	0.00	95.30	
24	13.70	0.00	-999.00	-999.00	10.70	0.00	95.90	249.30	0.00	95.20	95.60	95.40	0.00	95.30	

02 DEC 2002

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

02 DEC 2002

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.			
1	1.50	0.00	106.60	-999.00	-999.00	-999.00	12.20	0.00	97.50	97.90	13.70	0.00	-999.00	-999.00	
2	1.50	0.00	106.50	-999.00	-999.00	-999.00	0.30	0.00	97.50	98.00	0.50	0.00	-999.00	-999.00	
3	1.50	0.00	106.70	-999.00	-999.00	-999.00	0.30	0.00	97.40	98.00	0.40	0.00	-999.00	-999.00	
4	1.50	0.00	106.50	-999.00	-999.00	-999.00	1.80	0.00	97.40	97.90	0.60	0.00	-999.00	-999.00	
5	1.50	0.00	106.50	-999.00	-999.00	-999.00	15.40	0.00	97.40	98.20	0.40	0.00	-999.00	-999.00	
6	1.50	0.00	106.50	-999.00	-999.00	-999.00	20.80	0.00	97.50	97.70	12.00	0.00	-999.00	-999.00	
7	1.50	0.00	106.40	-999.00	-999.00	-999.00	21.10	0.00	97.50	97.50	21.20	0.00	-999.00	-999.00	
8	1.60	0.00	106.40	-999.00	-999.00	-999.00	21.10	0.00	97.50	97.30	21.70	0.00	-999.00	-999.00	
9	1.40	0.00	106.50	-999.00	-999.00	-999.00	21.40	0.00	97.50	97.20	22.00	0.00	-999.00	-999.00	
10	1.50	0.00	105.40	-999.00	-999.00	-999.00	29.90	0.00	97.50	97.20	22.10	0.00	-999.00	-999.00	
11	1.40	0.00	105.70	-999.00	-999.00	-999.00	29.90	0.00	97.50	97.40	21.90	0.00	-999.00	-999.00	
12	1.50	0.00	106.20	-999.00	-999.00	-999.00	29.90	0.00	97.50	97.30	22.40	0.00	-999.00	-999.00	
13	1.40	0.00	106.40	-999.00	-999.00	-999.00	30.10	0.00	97.60	97.30	21.90	0.00	-999.00	-999.00	
14	1.40	0.00	106.40	-999.00	-999.00	-999.00	29.40	0.00	97.60	97.40	26.30	0.00	-999.00	-999.00	
15	1.40	0.00	106.20	-999.00	-999.00	-999.00	16.60	0.00	97.60	97.40	26.50	0.00	-999.00	-999.00	
16	1.50	0.00	105.90	-999.00	-999.00	-999.00	16.90	0.00	97.60	97.40	25.40	0.00	-999.00	-999.00	
17	1.40	0.00	105.50	-999.00	-999.00	-999.00	39.40	0.00	97.50	97.40	29.30	0.00	-999.00	-999.00	
18	1.40	0.00	105.60	-999.00	-999.00	-999.00	39.90	0.00	97.70	97.40	29.80	0.00	-999.00	-999.00	
19	1.50	0.00	105.40	-999.00	-999.00	-999.00	40.60	0.00	97.60	97.40	38.80	0.00	-999.00	-999.00	
20	1.40	0.00	105.40	-999.00	-999.00	-999.00	41.70	0.00	97.60	97.40	40.90	0.00	-999.00	-999.00	
21	1.50	0.00	105.40	-999.00	-999.00	-999.00	41.90	0.00	97.60	97.50	40.80	0.00	-999.00	-999.00	
22	1.40	0.00	105.40	-999.00	-999.00	-999.00	20.30	0.00	97.60	97.50	22.80	0.00	-999.00	-999.00	
23	1.40	0.00	105.40	-999.00	-999.00	-999.00	15.90	0.00	97.60	97.40	15.90	0.00	-999.00	-999.00	
24	1.50	0.00	105.40	-999.00	-999.00	-999.00	16.70	0.00	97.60	97.90	15.50	0.00	-999.00	-999.00	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.			
1	12.70	0.00	-999.00	-999.00	8.70	0.00	96.001173.90	98.60	0.00	95.30	95.60	95.40			95.30
2	0.60	0.00	-999.00	-999.00	0.30	0.00	95.90621.70	102.60	0.00	95.20	95.60	95.30			95.20
3	0.60	0.00	-999.00	-999.00	0.30	0.00	95.8096.50	105.20	0.00	95.20	95.60	95.30			95.10
4	0.60	0.00	-999.00	-999.00	1.80	0.00	95.801167.80	121.20	0.00	95.20	95.50	95.20			95.20
5	0.60	0.00	-999.00	-999.00	0.60	0.00	95.801000.00	128.80	0.00	95.20	95.40	95.20			95.10
6	1.40	0.00	-999.00	-999.00	9.10	0.00	95.601000.00	130.50	0.00	95.20	95.40	95.20			95.10
7	20.60	0.00	-999.00	-999.00	12.80	0.00	95.801000.00	129.80	0.00	95.20	95.40	95.10			95.10
8	21.60	0.00	-999.00	-999.00	19.40	0.00	95.701000.00	130.10	0.00	95.10	95.40	95.10			95.10
9	21.70	0.00	-999.00	-999.00	23.10	0.00	95.701000.00	129.90	0.00	95.10	95.30	95.10			95.00
10	21.80	0.00	-999.00	-999.00	25.20	0.00	95.7098.10	129.90	0.00	95.10	95.30	95.00			95.10
11	21.30	0.00	-999.00	-999.00	23.30	0.00	95.7096.90	129.60	0.00	95.20	95.40	95.20			95.90
12	27.80	0.00	-999.00	-999.00	23.20	0.00	95.8096.90	129.40	0.00	95.30	95.40	95.70			95.80
13	27.60	0.00	-999.00	-999.00	23.30	0.00	95.8096.70	129.60	0.00	96.10	95.40	95.60			95.70
14	27.70	0.00	-999.00	-999.00	23.30	0.00	95.8097.40	129.60	0.00	95.40	95.60	95.60			95.70
15	27.60	0.00	-999.00	-999.00	23.70	0.00	95.8096.60	129.40	0.00	95.40	95.40	95.30			95.60
16	27.70	0.00	-999.00	-999.00	23.30	0.00	95.7096.50	128.80	0.00	95.30	95.40	95.20			95.60
17	35.10	0.00	-999.00	-999.00	25.30	0.00	95.7096.40	129.30	0.00	95.30	95.50	95.20			95.40
18	36.50	0.00	-999.00	-999.00	35.00	0.00	95.8097.20	129.60	0.00	95.30	95.40	95.30			95.20
19	39.80	0.00	-999.00	-999.00	39.20	0.00	95.7097.70	147.90	0.00	95.30	95.50	95.10			95.10
20	40.00	0.00	-999.00	-999.00	40.20	0.00	95.7096.30	149.60	0.00	95.30	95.50	95.10			95.10
21	39.20	0.00	-999.00	-999.00	38.80	0.00	95.8095.90	148.60	0.00	95.30	95.40	95.30			95.10
22	20.90	0.00	-999.00	-999.00	20.70	0.00	95.7095.90	138.90	0.00	95.30	95.30	95.10			95.00
23	16.30	0.00	-999.00	-999.00	19.20	0.00	95.6095.70	138.50	0.00	95.10	95.30	95.00			95.00
24	16.90	0.00	-999.00	-999.00	19.20	0.00	95.6095.70	137.90	0.00	95.10	95.30	95.10			95.10

03 DEC 2002

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

03 DEC 2002

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB %SAT.	TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB %SAT.	TAILW.	
1	1.40	0.00	105.40	-999.00	-999.00	-999.00	0.80	0.00	97.60	97.90	13.30	0.00	-999.00	-999.00	
2	1.40	0.00	105.30	-999.00	-999.00	-999.00	1.80	0.00	97.60	97.90	13.20	0.00	-999.00	-999.00	
3	1.50	0.00	105.40	-999.00	-999.00	-999.00	14.90	0.00	97.60	98.00	1.90	0.00	-999.00	-999.00	
4	1.40	0.00	105.40	-999.00	-999.00	-999.00	15.10	0.00	97.50	97.70	4.50	0.00	-999.00	-999.00	
5	1.50	0.00	105.40	-999.00	-999.00	-999.00	17.20	0.00	97.60	98.30	14.40	0.00	-999.00	-999.00	
6	1.40	0.00	105.40	-999.00	-999.00	-999.00	15.20	0.00	97.50	98.40	15.50	0.00	-999.00	-999.00	
7	1.40	0.00	105.40	-999.00	-999.00	-999.00	15.20	0.00	97.50	97.70	15.60	0.00	-999.00	-999.00	
8	1.50	0.00	105.30	-999.00	-999.00	-999.00	15.30	0.00	97.40	97.40	15.60	0.00	-999.00	-999.00	
9	1.40	0.00	105.40	-999.00	-999.00	-999.00	15.70	0.00	97.40	97.30	15.70	0.00	-999.00	-999.00	
10	1.40	0.00	105.80	-999.00	-999.00	-999.00	8.30	0.00	97.30	102.50	12.70	0.00	-999.00	-999.00	
11	1.40	0.00	106.00	-999.00	-999.00	-999.00	5.50	0.00	97.40	102.60	12.60	0.00	-999.00	-999.00	
12	1.40	0.00	106.30	-999.00	-999.00	-999.00	5.40	0.00	97.40	102.20	12.60	0.00	-999.00	-999.00	
13	1.50	0.00	106.20	-999.00	-999.00	-999.00	5.40	0.00	97.40	103.40	12.50	0.00	-999.00	-999.00	
14	1.40	0.00	106.10	-999.00	-999.00	-999.00	5.40	0.00	97.30	106.50	12.70	0.00	-999.00	-999.00	
15	1.40	0.00	105.90	-999.00	-999.00	-999.00	5.40	0.00	97.30	109.30	12.50	0.00	-999.00	-999.00	
16	1.50	0.00	105.60	-999.00	-999.00	-999.00	10.50	0.00	97.30	124.00	12.50	0.00	-999.00	-999.00	
17	1.40	0.00	105.50	-999.00	-999.00	-999.00	11.00	0.00	97.20	134.80	14.00	0.00	-999.00	-999.00	
18	1.40	0.00	105.40	-999.00	-999.00	-999.00	14.40	0.00	97.20	121.00	12.80	0.00	-999.00	-999.00	
19	1.50	0.00	105.40	-999.00	-999.00	-999.00	26.40	0.00	97.20	106.00	27.10	0.00	-999.00	-999.00	
20	1.40	0.00	105.20	-999.00	-999.00	-999.00	24.80	0.00	97.10	103.10	26.70	0.00	-999.00	-999.00	
21	1.50	0.00	105.40	-999.00	-999.00	-999.00	20.50	0.00	97.10	100.90	26.80	0.00	-999.00	-999.00	
22	1.40	0.00	105.30	-999.00	-999.00	-999.00	15.50	0.00	97.00	100.50	19.90	0.00	-999.00	-999.00	
23	1.40	0.00	105.20	-999.00	-999.00	-999.00	14.20	0.00	97.00	99.90	12.70	0.00	-999.00	-999.00	
24	1.40	0.00	105.20	-999.00	-999.00	-999.00	14.10	0.00	97.00	101.50	12.60	0.00	-999.00	-999.00	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS FB %SAT.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB %SAT.	TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB %SAT.	WA TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB %SAT.	SAT
1	13.60	0.00	-999.00	-999.00	12.80	0.00	95.60	95.90	128.60	0.00	95.10	95.30	95.10	0.00	95.10
2	13.60	0.00	-999.00	-999.00	10.70	0.00	95.60	96.00	118.80	0.00	95.10	95.30	95.10	0.00	95.00
3	2.80	0.00	-999.00	-999.00	0.30	0.00	95.60	95.90	118.40	0.00	95.00	95.30	95.10	0.00	95.00
4	0.70	0.00	-999.00	-999.00	0.30	0.00	95.50	95.70	119.30	0.00	95.00	95.20	95.10	0.00	95.00
5	0.70	0.00	-999.00	-999.00	10.40	0.00	95.50	95.80	138.00	0.00	95.10	95.20	95.10	0.00	95.10
6	13.30	0.00	-999.00	-999.00	12.20	0.00	95.30	95.90	140.30	0.00	95.00	95.20	95.10	0.00	95.10
7	15.40	0.00	-999.00	-999.00	12.10	0.00	95.40	96.10	149.00	0.00	95.00	95.20	95.00	0.00	95.00
8	15.50	0.00	-999.00	-999.00	12.10	0.00	95.40	96.80	149.20	0.00	94.90	95.20	94.90	0.00	94.90
9	17.00	0.00	-999.00	-999.00	12.10	0.00	95.40	97.20	149.10	0.00	94.90	95.10	95.00	0.00	94.90
10	15.00	0.00	-999.00	-999.00	12.10	0.00	95.40	96.80	148.90	0.00	94.90	95.10	95.00	0.00	94.90
11	13.70	0.00	-999.00	-999.00	12.40	0.00	95.40	0.00	149.30	0.00	94.90	95.10	95.00	0.00	95.00
12	13.40	0.00	-999.00	-999.00	12.20	0.00	95.40	96.80	136.10	0.00	95.00	95.20	95.00	0.00	95.00
13	13.40	0.00	-999.00	-999.00	13.70	0.00	0.00	96.50	128.00	0.00	95.00	95.00	95.10	0.00	95.10
14	13.30	0.00	-999.00	-999.00	13.60	0.00	95.60	96.50	128.60	0.00	95.30	95.20	95.10	0.00	95.30
15	13.30	0.00	-999.00	-999.00	12.30	0.00	95.50	96.40	126.90	0.00	95.30	95.20	95.10	0.00	95.20
16	13.30	0.00	-999.00	-999.00	12.10	0.00	95.30	96.40	129.20	0.00	95.20	95.00	95.10	0.00	95.40
17	13.60	0.00	-999.00	-999.00	12.10	0.00	95.20	97.30	133.70	0.00	95.10	95.00	95.00	0.00	95.40
18	13.70	0.00	-999.00	-999.00	12.80	0.00	95.10	97.50	144.80	0.00	95.10	95.00	95.00	0.00	95.40
19	26.60	0.00	-999.00	-999.00	23.00	0.00	95.10	96.60	147.10	0.00	95.00	95.10	95.00	0.00	95.50
20	27.40	0.00	-999.00	-999.00	24.60	0.00	95.20	96.10	147.00	0.00	95.00	95.10	95.00	0.00	95.50
21	27.70	0.00	-999.00	-999.00	26.30	0.00	95.20	95.80	138.20	0.00	95.00	95.10	95.00	0.00	95.30
22	28.70	0.00	-999.00	-999.00	26.10	0.00	95.20	95.70	122.80	0.00	95.00	95.00	95.00	0.00	95.40
23	26.80	0.00	-999.00	-999.00	26.00	0.00	95.00	95.60	117.40	0.00	94.80	95.00	94.90	0.00	95.30
24	20.20	0.00	-999.00	-999.00	24.60	0.00	95.00	95.60	116.20	0.00	95.00	95.00	95.10	0.00	95.20

04 DEC 2002

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

04 DEC 2002

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	LOWER GRANITE	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	LOWER GRANITE	LITTLE GOOSE
1	1.40	0.00	105.10	-999.00	-999.00	-999.00	0.40	0.00	97.00	102.00	0.40	0.00	-999.00	-999.00	-999.00
2	1.40	0.00	105.10	-999.00	-999.00	-999.00	0.40	0.00	96.80	102.00	0.40	0.00	-999.00	-999.00	-999.00
3	1.40	0.00	105.10	-999.00	-999.00	-999.00	0.40	0.00	96.80	101.60	0.40	0.00	-999.00	-999.00	-999.00
4	1.40	0.00	105.20	-999.00	-999.00	-999.00	1.20	0.00	96.90	101.50	0.40	0.00	-999.00	-999.00	-999.00
5	1.50	0.00	105.20	-999.00	-999.00	-999.00	13.80	0.00	96.90	101.50	1.90	0.00	-999.00	-999.00	-999.00
6	1.40	0.00	105.20	-999.00	-999.00	-999.00	15.20	0.00	96.90	98.50	11.70	0.00	-999.00	-999.00	-999.00
7	1.40	0.00	105.30	-999.00	-999.00	-999.00	19.10	0.00	96.90	98.50	17.80	0.00	-999.00	-999.00	-999.00
8	1.40	0.00	105.10	-999.00	-999.00	-999.00	19.40	0.00	96.70	97.90	18.50	0.00	-999.00	-999.00	-999.00
9	1.40	0.00	105.20	-999.00	-999.00	-999.00	12.80	0.00	96.60	98.10	15.40	0.00	-999.00	-999.00	-999.00
10	1.40	0.00	105.40	-999.00	-999.00	-999.00	12.50	0.00	96.60	97.50	12.50	0.00	-999.00	-999.00	-999.00
11	1.40	0.00	105.70	-999.00	-999.00	-999.00	12.70	0.00	96.60	97.40	12.50	0.00	-999.00	-999.00	-999.00
12	1.40	0.00	105.90	-999.00	-999.00	-999.00	12.50	0.00	96.60	97.30	12.50	0.00	-999.00	-999.00	-999.00
13	1.50	0.00	105.80	-999.00	-999.00	-999.00	12.50	0.00	96.60	97.20	12.50	0.00	-999.00	-999.00	-999.00
14	1.40	0.00	105.80	-999.00	-999.00	-999.00	12.50	0.00	96.60	0.00	12.70	0.00	-999.00	-999.00	-999.00
15	1.40	0.00	105.70	-999.00	-999.00	-999.00	12.40	0.00	97.10	97.00	12.50	0.00	-999.00	-999.00	-999.00
16	1.40	0.00	105.50	-999.00	-999.00	-999.00	12.60	0.00	96.50	96.90	12.50	0.00	-999.00	-999.00	-999.00
17	1.40	0.00	105.10	-999.00	-999.00	-999.00	12.50	0.00	96.20	96.70	12.50	0.00	-999.00	-999.00	-999.00
18	1.40	0.00	105.00	-999.00	-999.00	-999.00	13.00	0.00	96.20	96.60	14.70	0.00	-999.00	-999.00	-999.00
19	1.40	0.00	104.80	-999.00	-999.00	-999.00	26.90	0.00	96.20	97.90	26.60	0.00	-999.00	-999.00	-999.00
20	1.40	0.00	104.80	-999.00	-999.00	-999.00	27.20	0.00	96.00	96.70	26.70	0.00	-999.00	-999.00	-999.00
21	1.50	0.00	104.80	-999.00	-999.00	-999.00	27.60	0.00	96.10	96.50	28.20	0.00	-999.00	-999.00	-999.00
22	1.40	0.00	104.80	-999.00	-999.00	-999.00	26.60	0.00	96.00	96.40	26.50	0.00	-999.00	-999.00	-999.00
23	1.40	0.00	104.70	-999.00	-999.00	-999.00	13.40	0.00	96.00	96.50	14.00	0.00	-999.00	-999.00	-999.00
24	1.40	0.00	104.60	-999.00	-999.00	-999.00	11.80	0.00	96.00	96.40	12.50	0.00	-999.00	-999.00	-999.00

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB	WA TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB	WA TAILW.	
1	0.70	0.00	-999.00	-999.00	13.00	0.00	95.00	95.60	0.00	95.00	95.00	0.00	95.00	95.00	95.20
2	0.70	0.00	-999.00	-999.00	9.10	0.00	95.00	95.40	0.00	94.90	95.00	0.00	95.00	95.00	95.20
3	0.70	0.00	-999.00	-999.00	4.90	0.00	95.00	95.40	0.00	94.90	95.00	0.00	94.90	94.90	95.20
4	0.70	0.00	-999.00	-999.00	0.30	0.00	95.00	95.30	0.00	94.90	95.00	0.00	94.90	94.90	95.20
5	0.80	0.00	-999.00	-999.00	0.30	0.00	95.00	95.30	0.00	94.90	94.90	0.00	94.90	94.80	95.00
6	13.80	0.00	-999.00	-999.00	0.30	0.00	94.90	95.10	0.00	94.90	94.90	0.00	94.90	94.80	95.00
7	18.40	0.00	-999.00	-999.00	10.00	0.00	94.80	95.10	0.00	94.70	94.90	0.00	94.80	94.80	95.00
8	19.60	0.00	-999.00	-999.00	11.00	0.00	94.70	95.30	0.00	94.70	94.80	0.00	94.70	94.70	94.90
9	17.60	0.00	-999.00	-999.00	17.30	0.00	94.80	95.70	0.00	94.60	94.70	0.00	94.80	94.80	94.90
10	16.40	0.00	-999.00	-999.00	20.90	0.00	94.70	98.50	0.00	94.60	94.70	0.00	94.70	94.90	94.70
11	14.70	0.00	-999.00	-999.00	19.70	0.00	94.80	97.30	0.00	94.60	94.80	0.00	95.00	95.00	94.70
12	14.30	0.00	-999.00	-999.00	19.50	0.00	94.80	96.50	0.00	94.60	94.80	0.00	95.00	95.00	94.70
13	14.00	0.00	-999.00	-999.00	15.90	0.00	94.80	97.00	0.00	94.60	94.70	0.00	95.00	95.00	94.70
14	14.00	0.00	-999.00	-999.00	11.70	0.00	94.80	96.20	0.00	94.60	94.80	0.00	94.90	94.90	94.80
15	15.50	0.00	-999.00	-999.00	11.70	0.00	94.60	95.70	0.00	94.60	94.70	0.00	94.80	94.80	94.80
16	14.00	0.00	-999.00	-999.00	11.70	0.00	94.60	95.50	0.00	94.60	94.70	0.00	94.70	94.70	95.00
17	14.20	0.00	-999.00	-999.00	11.90	0.00	94.60	95.60	0.00	94.50	94.70	0.00	94.60	94.60	94.90
18	16.10	0.00	-999.00	-999.00	11.90	0.00	94.50	96.10	0.00	94.40	94.60	0.00	94.60	94.60	94.90
19	25.50	0.00	-999.00	-999.00	21.70	0.00	94.50	96.10	0.00	94.40	94.60	0.00	94.60	94.40	94.90
20	26.90	0.00	-999.00	-999.00	22.10	0.00	94.50	95.60	0.00	94.50	94.60	0.00	94.60	94.40	94.90
21	26.80	0.00	-999.00	-999.00	22.00	0.00	94.40	95.80	0.00	94.30	94.50	0.00	94.50	94.40	94.90
22	27.10	0.00	-999.00	-999.00	22.00	0.00	94.40	95.00	0.00	94.20	94.40	0.00	94.50	94.30	94.90
23	14.60	0.00	-999.00	-999.00	12.30	0.00	94.40	95.00	0.00	94.30	94.50	0.00	94.30	94.30	94.80
24	13.50	0.00	-999.00	-999.00	11.80	0.00	94.40	95.00	0.00	94.40	94.50	0.00	94.50	94.50	94.80

05 DEC 2002

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

05 DEC 2002

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. TAI LW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAI LW.	LOWER GRANITE	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAI LW.		
1	1.40	0.00	104.60	-999.00	-999.00	-999.00	0.40	0.00	95.90	96.50	0.90	0.00	-999.00	-999.00	
2	1.40	0.00	104.70	-999.00	-999.00	-999.00	0.40	0.00	95.90	96.60	0.40	0.00	-999.00	-999.00	
3	1.50	0.00	104.60	-999.00	-999.00	-999.00	0.40	0.00	96.00	96.50	0.40	0.00	-999.00	-999.00	
4	1.40	0.00	104.60	-999.00	-999.00	-999.00	0.40	0.00	96.00	96.50	0.40	0.00	-999.00	-999.00	
5	1.40	0.00	104.60	-999.00	-999.00	-999.00	1.50	0.00	96.00	96.70	0.40	0.00	-999.00	-999.00	
6	1.50	0.00	104.60	-999.00	-999.00	-999.00	12.70	0.00	95.90	97.80	12.10	0.00	-999.00	-999.00	
7	1.40	0.00	104.60	-999.00	-999.00	-999.00	16.30	0.00	95.80	96.80	16.70	0.00	-999.00	-999.00	
8	1.50	0.00	104.60	-999.00	-999.00	-999.00	16.80	0.00	95.90	96.70	18.20	0.00	-999.00	-999.00	
9	1.40	0.00	104.90	-999.00	-999.00	-999.00	16.60	0.00	95.80	96.50	17.90	0.00	-999.00	-999.00	
10	1.40	0.00	106.00	-999.00	-999.00	-999.00	16.50	0.00	95.90	96.40	18.00	0.00	-999.00	-999.00	
11	1.40	0.00	106.40	-999.00	-999.00	-999.00	14.90	0.00	96.10	96.50	17.80	0.00	-999.00	-999.00	
12	1.40	0.00	106.90	-999.00	-999.00	-999.00	14.90	0.00	96.10	96.60	17.80	0.00	-999.00	-999.00	
13	1.50	0.00	106.90	-999.00	-999.00	-999.00	15.00	0.00	96.30	96.70	13.40	0.00	-999.00	-999.00	
14	1.40	0.00	106.80	-999.00	-999.00	-999.00	14.60	0.00	96.40	96.70	14.10	0.00	-999.00	-999.00	
15	1.40	0.00	106.60	-999.00	-999.00	-999.00	15.20	0.00	96.50	96.70	15.10	0.00	-999.00	-999.00	
16	1.50	0.00	106.20	-999.00	-999.00	-999.00	15.30	0.00	96.30	96.90	15.70	0.00	-999.00	-999.00	
17	1.40	0.00	105.80	-999.00	-999.00	-999.00	15.70	0.00	96.30	96.90	15.80	0.00	-999.00	-999.00	
18	1.40	0.00	105.80	-999.00	-999.00	-999.00	32.70	0.00	96.40	97.00	30.50	0.00	-999.00	-999.00	
19	1.40	0.00	105.80	-999.00	-999.00	-999.00	31.40	0.00	96.40	97.00	30.40	0.00	-999.00	-999.00	
20	1.40	0.00	105.80	-999.00	-999.00	-999.00	31.20	0.00	96.50	96.90	31.00	0.00	-999.00	-999.00	
21	1.50	0.00	105.90	-999.00	-999.00	-999.00	31.90	0.00	96.60	97.20	32.60	0.00	-999.00	-999.00	
22	1.40	0.00	105.80	-999.00	-999.00	-999.00	24.90	0.00	96.60	96.90	28.00	0.00	-999.00	-999.00	
23	1.40	0.00	105.90	-999.00	-999.00	-999.00	15.00	0.00	96.60	97.10	21.50	0.00	-999.00	-999.00	
24	1.40	0.00	105.60	-999.00	-999.00	-999.00	11.70	0.00	96.60	97.00	14.50	0.00	-999.00	-999.00	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAI LW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAI LW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB	WA TAI LW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB	GAS %SAT	
1	13.10	0.00	-999.00	-999.00	11.70	0.00	94.40	95.00	0.00	94.40	94.50	94.30	0.00	94.80	
2	0.60	0.00	-999.00	-999.00	9.30	0.00	94.40	95.00	0.00	94.30	94.50	94.50	0.00	94.80	
3	0.60	0.00	-999.00	-999.00	7.90	0.00	94.30	95.00	0.00	94.30	94.50	94.60	0.00	94.80	
4	0.60	0.00	-999.00	-999.00	0.30	0.00	94.30	95.00	0.00	94.40	94.50	94.50	0.00	94.90	
5	0.70	0.00	-999.00	-999.00	0.30	0.00	94.30	95.00	0.00	94.30	94.60	94.50	0.00	95.00	
6	13.90	0.00	-999.00	-999.00	8.60	0.00	94.30	95.10	0.00	94.20	94.40	94.50	0.00	95.00	
7	16.90	0.00	-999.00	-999.00	12.30	0.00	94.30	95.30	0.00	94.20	94.40	94.50	0.00	95.00	
8	19.50	0.00	-999.00	-999.00	22.00	0.00	94.20	95.50	0.00	94.30	94.50	94.50	0.00	95.00	
9	19.70	0.00	-999.00	-999.00	24.20	0.00	94.20	96.60	0.00	94.20	94.40	94.40	0.00	94.90	
10	20.00	0.00	-999.00	-999.00	21.10	0.00	94.30	97.00	0.00	94.30	94.50	94.50	0.00	95.00	
11	19.70	0.00	-999.00	-999.00	23.30	0.00	94.40	96.20	0.00	94.30	94.60	94.60	0.00	95.00	
12	19.50	0.00	-999.00	-999.00	21.90	0.00	94.40	95.50	0.00	94.40	94.60	94.60	0.00	95.10	
13	15.30	0.00	-999.00	-999.00	19.30	0.00	94.30	95.60	0.00	94.50	94.70	94.70	0.00	95.40	
14	13.50	0.00	-999.00	-999.00	12.00	0.00	94.40	95.50	0.00	94.50	94.80	94.80	0.00	95.40	
15	13.80	0.00	-999.00	-999.00	13.40	0.00	94.50	95.50	0.00	94.60	94.90	94.80	0.00	95.60	
16	13.80	0.00	-999.00	-999.00	12.00	0.00	94.50	96.60	0.00	94.60	94.80	95.00	0.00	95.60	
17	15.10	0.00	-999.00	-999.00	12.30	0.00	94.70	95.90	0.00	94.70	94.90	94.80	0.00	95.80	
18	29.00	0.00	-999.00	-999.00	22.20	0.00	94.70	95.80	0.00	94.70	94.90	94.90	0.00	95.80	
19	29.20	0.00	-999.00	-999.00	26.00	0.00	94.70	95.80	0.00	94.70	95.00	95.00	0.00	95.80	
20	29.30	0.00	-999.00	-999.00	26.30	0.00	94.70	95.90	0.00	94.70	95.00	95.10	0.00	95.80	
21	28.40	0.00	-999.00	-999.00	28.30	0.00	94.80	95.30	0.00	94.80	95.00	94.90	0.00	95.80	
22	27.20	0.00	-999.00	-999.00	28.70	0.00	94.60	95.30	0.00	92.40	94.80	95.10	0.00	95.70	
23	22.50	0.00	-999.00	-999.00	24.90	0.00	94.70	95.20	0.00	94.80	95.00	94.90	0.00	95.70	
24	14.20	0.00	-999.00	-999.00	20.00	0.00	94.70	95.20	0.00	94.70	95.00	94.90	0.00	95.70	

06 DEC 2002

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

06 DEC 2002

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.			
1	1.40	0.00	105.00	-999.00	-999.00	-999.00	0.40	0.00	96.50	97.40	0.40	0.00	-999.00	-999.00	
2	1.50	0.00	104.70	-999.00	-999.00	-999.00	0.40	0.00	96.50	97.50	1.90	0.00	-999.00	-999.00	
3	1.40	0.00	105.40	-999.00	-999.00	-999.00	0.40	0.00	96.40	97.60	0.40	0.00	-999.00	-999.00	
4	1.40	0.00	105.80	-999.00	-999.00	-999.00	0.40	0.00	96.40	97.60	0.40	0.00	-999.00	-999.00	
5	1.50	0.00	105.80	-999.00	-999.00	-999.00	1.10	0.00	96.50	97.60	0.40	0.00	-999.00	-999.00	
6	1.40	0.00	105.90	-999.00	-999.00	-999.00	13.70	0.00	96.60	98.30	0.40	0.00	-999.00	-999.00	
7	1.50	0.00	105.80	-999.00	-999.00	-999.00	20.40	0.00	96.60	97.70	13.10	0.00	-999.00	-999.00	
8	1.40	0.00	105.80	-999.00	-999.00	-999.00	21.10	0.00	96.60	97.50	21.70	0.00	-999.00	-999.00	
9	1.40	0.00	106.20	-999.00	-999.00	-999.00	21.50	0.00	96.60	97.40	22.00	0.00	-999.00	-999.00	
10	1.50	0.00	106.50	-999.00	-999.00	-999.00	20.80	0.00	96.60	97.40	22.00	0.00	-999.00	-999.00	
11	1.40	0.00	106.70	-999.00	-999.00	-999.00	21.20	0.00	96.60	97.40	22.00	0.00	-999.00	-999.00	
12	1.40	0.00	107.00	-999.00	-999.00	-999.00	21.30	0.00	96.80	97.50	22.30	0.00	-999.00	-999.00	
13	1.50	0.00	107.20	-999.00	-999.00	-999.00	21.20	0.00	96.80	97.50	21.70	0.00	-999.00	-999.00	
14	1.40	0.00	107.00	-999.00	-999.00	-999.00	21.80	0.00	97.00	97.60	21.90	0.00	-999.00	-999.00	
15	1.40	0.00	106.60	-999.00	-999.00	-999.00	21.50	0.00	97.00	97.60	21.80	0.00	-999.00	-999.00	
16	1.50	0.00	106.20	-999.00	-999.00	-999.00	21.40	0.00	97.00	97.50	22.30	0.00	-999.00	-999.00	
17	1.40	0.00	106.10	-999.00	-999.00	-999.00	21.40	0.00	97.00	97.60	21.90	0.00	-999.00	-999.00	
18	1.40	0.00	105.90	-999.00	-999.00	-999.00	21.60	0.00	97.10	97.50	22.20	0.00	-999.00	-999.00	
19	1.40	0.00	105.90	-999.00	-999.00	-999.00	23.80	0.00	97.20	97.60	21.20	0.00	-999.00	-999.00	
20	1.40	0.00	105.90	-999.00	-999.00	-999.00	21.40	0.00	97.10	98.10	21.30	0.00	-999.00	-999.00	
21	1.40	0.00	105.80	-999.00	-999.00	-999.00	21.10	0.00	97.10	97.60	21.60	0.00	-999.00	-999.00	
22	1.40	0.00	105.80	-999.00	-999.00	-999.00	20.80	0.00	96.70	97.50	21.10	0.00	-999.00	-999.00	
23	1.50	0.00	105.80	-999.00	-999.00	-999.00	19.70	0.00	96.50	97.50	20.40	0.00	-999.00	-999.00	
24	1.40	0.00	105.90	-999.00	-999.00	-999.00	0.30	0.00	96.50	97.70	2.40	0.00	-999.00	-999.00	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. WA FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT
1	8.80	0.00	-999.00	-999.00	10.90	0.00	94.80	95.20	120.90	0.00	94.80	95.00	95.10	0.00	95.70
2	0.60	0.00	-999.00	-999.00	8.00	0.00	94.80	95.20	132.10	0.00	94.70	95.00	95.10	0.00	95.70
3	0.60	0.00	-999.00	-999.00	0.30	0.00	94.70	95.10	146.90	0.00	94.90	95.10	95.10	0.00	95.60
4	0.60	0.00	-999.00	-999.00	0.30	0.00	94.70	95.00	147.80	0.00	94.90	95.10	95.00	0.00	95.70
5	0.60	0.00	-999.00	-999.00	0.30	0.00	94.70	95.00	147.80	0.00	94.80	95.10	95.00	0.00	95.70
6	2.20	0.00	-999.00	-999.00	3.00	0.00	94.70	95.00	149.60	0.00	94.80	95.10	95.00	0.00	95.50
7	14.00	0.00	-999.00	-999.00	9.10	0.00	94.70	95.00	131.10	0.00	94.80	95.10	95.00	0.00	95.60
8	14.90	0.00	-999.00	-999.00	9.30	0.00	94.70	95.00	131.10	0.00	94.80	95.10	95.00	0.00	95.60
9	21.00	0.00	-999.00	-999.00	18.50	0.00	94.70	95.40	127.50	0.00	94.80	95.20	95.00	0.00	95.60
10	21.40	0.00	-999.00	-999.00	21.00	0.00	94.80	98.30	113.80	0.00	94.80	95.10	95.00	0.00	95.40
11	21.40	0.00	-999.00	-999.00	22.30	0.00	94.90	97.50	129.30	0.00	95.00	95.20	95.00	0.00	95.40
12	21.40	0.00	-999.00	-999.00	19.70	0.00	94.90	96.00	130.50	0.00	95.00	95.20	95.10	0.00	95.50
13	21.40	0.00	-999.00	-999.00	19.40	0.00	95.00	97.10	131.80	0.00	94.90	95.30	95.10	0.00	95.50
14	21.70	0.00	-999.00	-999.00	19.20	0.00	95.00	95.80	131.30	0.00	94.90	95.40	95.20	0.00	95.60
15	21.40	0.00	-999.00	-999.00	19.30	0.00	95.00	95.70	131.00	0.00	95.00	95.40	95.20	0.00	95.60
16	21.40	0.00	-999.00	-999.00	19.30	0.00	95.00	95.70	130.80	0.00	95.00	95.40	95.20	0.00	95.60
17	21.40	0.00	-999.00	-999.00	19.70	0.00	95.00	95.60	132.20	0.00	95.00	95.40	95.20	0.00	95.70
18	21.40	0.00	-999.00	-999.00	19.50	0.00	95.00	95.60	132.30	0.00	95.00	95.40	95.20	0.00	95.70
19	21.40	0.00	-999.00	-999.00	19.60	0.00	95.00	95.50	131.80	0.00	94.90	95.30	95.20	0.00	95.80
20	21.70	0.00	-999.00	-999.00	19.50	0.00	95.00	95.50	131.50	0.00	94.80	95.30	95.10	0.00	95.80
21	21.40	0.00	-999.00	-999.00	19.50	0.00	94.90	95.50	130.90	0.00	94.90	95.30	95.10	0.00	95.80
22	21.30	0.00	-999.00	-999.00	19.60	0.00	94.90	95.50	130.30	0.00	94.90	95.30	95.10	0.00	95.80
23	21.10	0.00	-999.00	-999.00	18.80	0.00	94.90	95.50	104.40	0.00	94.70	95.20	95.00	0.00	95.70
24	14.10	0.00	-999.00	-999.00	12.00	0.00	94.90	95.50	89.50	0.00	94.90	95.10	94.90	0.00	95.70

07 DEC 2002

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

07 DEC 2002

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	LOWER GRANITE	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.		
1	1.40	0.00	105.70	-999.00	-999.00	-999.00	2.00	0.00	96.60	97.80	0.40	0.00	-999.00	-999.00	
2	1.40	0.00	105.70	-999.00	-999.00	-999.00	0.30	0.00	96.50	97.70	0.40	0.00	-999.00	-999.00	
3	1.40	0.00	105.80	-999.00	-999.00	-999.00	0.30	0.00	96.50	97.70	1.90	0.00	-999.00	-999.00	
4	1.40	0.00	105.60	-999.00	-999.00	-999.00	0.30	0.00	96.70	97.70	0.40	0.00	-999.00	-999.00	
5	1.40	0.00	105.60	-999.00	-999.00	-999.00	0.30	0.00	96.60	98.40	0.40	0.00	-999.00	-999.00	
6	1.50	0.00	105.60	-999.00	-999.00	-999.00	11.90	0.00	96.60	99.00	0.50	0.00	-999.00	-999.00	
7	1.40	0.00	105.70	-999.00	-999.00	-999.00	12.50	0.00	96.60	98.20	12.50	0.00	-999.00	-999.00	
8	1.40	0.00	105.50	-999.00	-999.00	-999.00	13.70	0.00	96.50	98.00	14.30	0.00	-999.00	-999.00	
9	1.40	0.00	105.70	-999.00	-999.00	-999.00	16.30	0.00	96.50	97.70	14.10	0.00	-999.00	-999.00	
10	1.50	0.00	105.90	-999.00	-999.00	-999.00	16.60	0.00	96.40	97.60	16.40	0.00	-999.00	-999.00	
11	1.40	0.00	106.10	-999.00	-999.00	-999.00	17.80	0.00	96.40	97.50	17.90	0.00	-999.00	-999.00	
12	1.40	0.00	106.20	-999.00	-999.00	-999.00	18.00	0.00	96.40	97.40	17.80	0.00	-999.00	-999.00	
13	1.40	0.00	106.40	-999.00	-999.00	-999.00	17.80	0.00	96.40	97.50	17.90	0.00	-999.00	-999.00	
14	1.40	0.00	106.40	-999.00	-999.00	-999.00	17.60	0.00	96.30	97.40	17.80	0.00	-999.00	-999.00	
15	1.40	0.00	106.10	-999.00	-999.00	-999.00	18.10	0.00	96.30	97.40	17.90	0.00	-999.00	-999.00	
16	1.40	0.00	105.90	-999.00	-999.00	-999.00	16.60	0.00	96.20	97.30	18.30	0.00	-999.00	-999.00	
17	1.40	0.00	105.60	-999.00	-999.00	-999.00	16.10	0.00	96.20	97.30	17.90	0.00	-999.00	-999.00	
18	1.40	0.00	105.40	-999.00	-999.00	-999.00	14.00	0.00	96.20	97.40	17.90	0.00	-999.00	-999.00	
19	1.40	0.00	105.50	-999.00	-999.00	-999.00	13.80	0.00	96.10	97.30	17.10	0.00	-999.00	-999.00	
20	1.40	0.00	105.40	-999.00	-999.00	-999.00	14.10	0.00	96.00	97.20	14.80	0.00	-999.00	-999.00	
21	1.40	0.00	105.40	-999.00	-999.00	-999.00	13.90	0.00	96.10	97.20	14.30	0.00	-999.00	-999.00	
22	1.40	0.00	105.50	-999.00	-999.00	-999.00	13.70	0.00	96.20	97.20	13.90	0.00	-999.00	-999.00	
23	1.50	0.00	105.50	-999.00	-999.00	-999.00	13.70	0.00	96.30	97.20	14.00	0.00	-999.00	-999.00	
24	1.40	0.00	105.40	-999.00	-999.00	-999.00	13.70	0.00	96.30	97.20	14.00	0.00	-999.00	-999.00	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB	WA TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB	GAS % SAT	
1	1.30	0.00	-999.00	-999.00	11.40	0.00	94.90	95.40	0.00	94.80	95.10	94.90	0.00	95.70	
2	0.60	0.00	-999.00	-999.00	1.10	0.00	94.80	95.30	0.00	94.80	95.10	94.90	0.00	95.60	
3	0.60	0.00	-999.00	-999.00	0.90	0.00	94.80	95.30	0.00	94.60	95.10	94.80	0.00	95.60	
4	0.60	0.00	-999.00	-999.00	0.30	0.00	94.80	95.30	0.00	94.80	95.00	94.90	0.00	95.50	
5	0.60	0.00	-999.00	-999.00	0.30	0.00	94.80	95.20	0.00	94.80	95.00	94.80	0.00	95.50	
6	1.60	0.00	-999.00	-999.00	1.80	0.00	94.80	95.10	0.00	94.70	94.90	94.90	0.00	95.50	
7	13.90	0.00	-999.00	-999.00	10.80	0.00	94.70	95.10	0.00	94.70	94.90	94.80	0.00	95.50	
8	15.20	0.00	-999.00	-999.00	12.00	0.00	94.70	95.30	0.00	94.70	94.80	94.70	0.00	95.50	
9	13.50	0.00	-999.00	-999.00	11.70	0.00	94.60	95.30	0.00	94.60	94.70	94.70	0.00	95.50	
10	15.20	0.00	-999.00	-999.00	12.30	0.00	94.60	96.60	0.00	94.40	94.70	94.60	0.00	95.40	
11	16.80	0.00	-999.00	-999.00	13.90	0.00	94.60	97.90	0.00	94.40	94.70	94.60	0.00	95.40	
12	19.20	0.00	-999.00	-999.00	17.40	0.00	94.60	96.70	0.00	94.60	94.70	94.80	0.00	95.40	
13	18.30	0.00	-999.00	-999.00	19.70	0.00	94.60	96.20	0.00	94.60	94.70	94.90	0.00	95.50	
14	18.50	0.00	-999.00	-999.00	20.90	0.00	94.60	96.50	0.00	94.60	94.70	94.80	0.00	95.60	
15	18.20	0.00	-999.00	-999.00	19.50	0.00	94.60	95.80	0.00	94.60	94.80	94.70	0.00	95.60	
16	18.10	0.00	-999.00	-999.00	19.50	0.00	94.60	96.40	0.00	94.60	94.80	94.60	0.00	95.70	
17	18.50	0.00	-999.00	-999.00	21.10	0.00	94.50	96.30	0.00	94.50	94.80	94.60	0.00	95.80	
18	18.20	0.00	-999.00	-999.00	19.90	0.00	94.50	95.20	0.00	94.50	94.80	94.70	0.00	95.80	
19	18.20	0.00	-999.00	-999.00	19.60	0.00	94.50	95.10	0.00	94.50	94.80	94.60	0.00	95.80	
20	18.20	0.00	-999.00	-999.00	20.90	0.00	94.50	96.10	0.00	94.50	94.70	94.70	0.00	95.70	
21	18.00	0.00	-999.00	-999.00	13.50	0.00	94.40	95.30	0.00	94.30	94.70	94.60	0.00	95.70	
22	14.30	0.00	-999.00	-999.00	13.40	0.00	94.30	95.00	0.00	94.30	94.80	94.50	0.00	95.70	
23	14.40	0.00	-999.00	-999.00	12.80	0.00	94.30	95.00	0.00	94.30	94.80	94.50	0.00	95.70	
24	14.00	0.00	-999.00	-999.00	12.40	0.00	94.30	94.90	0.00	94.30	94.80	94.50	0.00	95.50	

08 DEC 2002

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

08 DEC 2002

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	LITTLE GOOSE	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.		
1	1.40	0.00	105.30	-999.00	-999.00	-999.00	14.20	0.00	96.20	97.00	14.10	0.00	-999.00	-999.00	
2	1.40	0.00	105.20	-999.00	-999.00	-999.00	14.00	0.00	96.30	97.00	14.00	0.00	-999.00	-999.00	
3	1.40	0.00	105.40	-999.00	-999.00	-999.00	14.00	0.00	96.30	97.00	13.80	0.00	-999.00	-999.00	
4	1.40	0.00	105.40	-999.00	-999.00	-999.00	13.70	0.00	96.30	97.10	13.80	0.00	-999.00	-999.00	
5	1.40	0.00	105.40	-999.00	-999.00	-999.00	13.60	0.00	96.30	97.10	13.90	0.00	-999.00	-999.00	
6	1.40	0.00	105.40	-999.00	-999.00	-999.00	13.90	0.00	96.10	97.10	14.20	0.00	-999.00	-999.00	
7	1.40	0.00	105.40	-999.00	-999.00	-999.00	13.60	0.00	96.10	97.10	13.90	0.00	-999.00	-999.00	
8	1.40	0.00	105.40	-999.00	-999.00	-999.00	13.90	0.00	96.00	97.10	14.20	0.00	-999.00	-999.00	
9	1.40	0.00	105.50	-999.00	-999.00	-999.00	14.20	0.00	96.00	97.20	14.80	0.00	-999.00	-999.00	
10	1.50	0.00	105.90	-999.00	-999.00	-999.00	13.80	0.00	95.90	97.00	14.50	0.00	-999.00	-999.00	
11	1.40	0.00	106.20	-999.00	-999.00	-999.00	14.10	0.00	96.10	97.00	15.70	0.00	-999.00	-999.00	
12	1.40	0.00	106.30	-999.00	-999.00	-999.00	13.80	0.00	96.20	97.10	14.20	0.00	-999.00	-999.00	
13	1.40	0.00	106.60	-999.00	-999.00	-999.00	13.70	0.00	96.20	97.20	14.20	0.00	-999.00	-999.00	
14	1.40	0.00	106.70	-999.00	-999.00	-999.00	13.70	0.00	96.30	97.30	14.20	0.00	-999.00	-999.00	
15	1.40	0.00	106.50	-999.00	-999.00	-999.00	13.90	0.00	96.30	97.30	14.40	0.00	-999.00	-999.00	
16	1.40	0.00	106.20	-999.00	-999.00	-999.00	13.70	0.00	96.40	97.20	14.30	0.00	-999.00	-999.00	
17	1.40	0.00	105.80	-999.00	-999.00	-999.00	13.60	0.00	96.40	97.20	14.20	0.00	-999.00	-999.00	
18	1.40	0.00	105.50	-999.00	-999.00	-999.00	13.90	0.00	96.40	97.30	14.30	0.00	-999.00	-999.00	
19	1.40	0.00	105.40	-999.00	-999.00	-999.00	20.40	0.00	96.30	97.10	17.70	0.00	-999.00	-999.00	
20	1.50	0.00	105.40	-999.00	-999.00	-999.00	21.40	0.00	96.30	97.10	17.90	0.00	-999.00	-999.00	
21	1.40	0.00	105.40	-999.00	-999.00	-999.00	20.50	0.00	96.30	97.20	19.20	0.00	-999.00	-999.00	
22	1.40	0.00	105.50	-999.00	-999.00	-999.00	13.50	0.00	96.40	97.30	14.00	0.00	-999.00	-999.00	
23	1.40	0.00	105.50	-999.00	-999.00	-999.00	13.10	0.00	96.40	97.40	13.40	0.00	-999.00	-999.00	
24	1.40	0.00	105.70	-999.00	-999.00	-999.00	13.10	0.00	96.40	97.40	13.60	0.00	-999.00	-999.00	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB	MCNARY	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.		GAS %SAT
1	14.00	0.00	-999.00	-999.00	12.50	0.00	94.30	96.10	0.00	94.30	94.80	94.50			95.50
2	14.00	0.00	-999.00	-999.00	12.50	0.00	94.20	95.60	0.00	94.20	94.60	94.60			95.50
3	14.00	0.00	-999.00	-999.00	12.50	0.00	94.30	95.40	0.00	94.30	94.70	94.60			95.40
4	14.00	0.00	-999.00	-999.00	14.20	0.00	94.50	95.40	0.00	94.60	94.70	94.50			95.40
5	14.20	0.00	-999.00	-999.00	12.50	0.00	94.30	95.40	0.00	94.60	94.80	94.70			95.30
6	14.10	0.00	-999.00	-999.00	12.50	0.00	94.30	95.50	0.00	94.50	94.70	94.70			95.30
7	15.10	0.00	-999.00	-999.00	12.50	0.00	94.30	95.40	0.00	94.40	94.70	94.80			95.30
8	15.60	0.00	-999.00	-999.00	12.40	0.00	94.30	95.70	0.00	94.40	94.60	94.70			95.30
9	17.50	0.00	-999.00	-999.00	12.60	0.00	94.20	96.00	0.00	94.40	94.60	94.70			95.20
10	16.20	0.00	-999.00	-999.00	12.40	0.00	94.20	95.50	0.00	94.40	94.80	94.70			95.20
11	15.60	0.00	-999.00	-999.00	12.40	0.00	94.30	95.50	0.00	94.40	94.80	94.80			95.10
12	15.30	0.00	-999.00	-999.00	12.40	0.00	94.40	95.60	0.00	94.60	94.90	95.00			95.20
13	15.30	0.00	-999.00	-999.00	14.10	0.00	94.40	95.70	0.00	94.80	94.90	95.00			95.30
14	15.30	0.00	-999.00	-999.00	12.40	0.00	94.50	95.80	0.00	94.80	95.00	94.90			95.30
15	15.50	0.00	-999.00	-999.00	12.40	0.00	94.50	95.80	0.00	94.70	95.00	94.90			95.50
16	15.30	0.00	-999.00	-999.00	12.40	0.00	94.70	95.70	0.00	94.70	95.00	95.00			95.50
17	15.20	0.00	-999.00	-999.00	12.50	0.00	94.50	95.80	0.00	94.80	95.00	95.00			95.50
18	15.40	0.00	-999.00	-999.00	12.90	0.00	94.70	96.70	0.00	94.80	95.20	95.20			95.50
19	19.60	0.00	-999.00	-999.00	18.70	0.00	94.60	95.90	0.00	94.90	95.30	95.20			95.80
20	18.30	0.00	-999.00	-999.00	19.20	0.00	94.80	95.70	0.00	94.90	95.30	95.40			95.80
21	18.10	0.00	-999.00	-999.00	19.30	0.00	94.70	95.90	0.00	94.80	95.30	95.20			95.80
22	13.90	0.00	-999.00	-999.00	19.40	0.00	94.70	95.60	0.00	94.80	95.50	95.30			96.00
23	13.60	0.00	-999.00	-999.00	12.60	0.00	94.80	95.40	0.00	94.90	95.50	95.30			96.00
24	13.70	0.00	-999.00	-999.00	13.60	0.00	94.80	95.50	0.00	94.90	95.60	95.40			96.00

09 DEC 2002

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

09 DEC 2002

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	LITTLE GOOSE	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.		
1	1.50	0.00	105.60	-999.00	-999.00	-999.00	13.30	0.00	96.50	97.40	13.50	0.00	-999.00	-999.00	-999.00
2	1.40	0.00	105.60	-999.00	-999.00	-999.00	14.80	0.00	96.50	98.40	13.40	0.00	-999.00	-999.00	-999.00
3	1.50	0.00	105.40	-999.00	-999.00	-999.00	13.10	0.00	96.60	98.00	13.20	0.00	-999.00	-999.00	-999.00
4	1.40	0.00	105.50	-999.00	-999.00	-999.00	13.10	0.00	96.50	97.80	13.20	0.00	-999.00	-999.00	-999.00
5	1.40	0.00	105.60	-999.00	-999.00	-999.00	13.10	0.00	96.60	97.70	13.70	0.00	-999.00	-999.00	-999.00
6	1.40	0.00	105.60	-999.00	-999.00	-999.00	13.30	0.00	96.50	97.60	13.30	0.00	-999.00	-999.00	-999.00
7	1.40	0.00	105.60	-999.00	-999.00	-999.00	13.10	0.00	96.60	97.70	13.30	0.00	-999.00	-999.00	-999.00
8	1.50	0.00	105.60	-999.00	-999.00	-999.00	13.10	0.00	96.60	97.60	14.80	0.00	-999.00	-999.00	-999.00
9	1.40	0.00	106.10	-999.00	-999.00	-999.00	13.70	0.00	96.50	97.70	13.40	0.00	-999.00	-999.00	-999.00
10	1.40	0.00	106.30	-999.00	-999.00	-999.00	13.70	0.00	96.60	97.60	13.70	0.00	-999.00	-999.00	-999.00
11	1.40	0.00	106.50	-999.00	-999.00	-999.00	13.80	0.00	96.70	97.90	14.90	0.00	-999.00	-999.00	-999.00
12	1.40	0.00	106.90	-999.00	-999.00	-999.00	14.00	0.00	96.70	98.00	13.60	0.00	-999.00	-999.00	-999.00
13	1.40	0.00	107.00	-999.00	-999.00	-999.00	13.80	0.00	96.80	98.00	13.60	0.00	-999.00	-999.00	-999.00
14	1.40	0.00	107.00	-999.00	-999.00	-999.00	13.70	0.00	97.10	98.00	13.90	0.00	-999.00	-999.00	-999.00
15	1.40	0.00	106.90	-999.00	-999.00	-999.00	13.70	0.00	97.00	98.00	13.70	0.00	-999.00	-999.00	-999.00
16	1.40	0.00	106.60	-999.00	-999.00	-999.00	15.80	0.00	97.10	98.20	13.60	0.00	-999.00	-999.00	-999.00
17	1.40	0.00	106.20	-999.00	-999.00	-999.00	17.70	0.00	97.10	98.60	13.60	0.00	-999.00	-999.00	-999.00
18	1.50	0.00	106.10	-999.00	-999.00	-999.00	17.90	0.00	97.10	98.20	17.30	0.00	-999.00	-999.00	-999.00
19	1.40	0.00	106.10	-999.00	-999.00	-999.00	19.90	0.00	97.00	98.20	19.10	0.00	-999.00	-999.00	-999.00
20	1.40	0.00	106.00	-999.00	-999.00	-999.00	21.80	0.00	97.00	98.50	19.50	0.00	-999.00	-999.00	-999.00
21	1.40	0.00	106.00	-999.00	-999.00	-999.00	20.50	0.00	97.00	98.50	19.60	0.00	-999.00	-999.00	-999.00
22	1.40	0.00	106.00	-999.00	-999.00	-999.00	21.60	0.00	97.00	98.90	19.40	0.00	-999.00	-999.00	-999.00
23	1.40	0.00	106.20	-999.00	-999.00	-999.00	14.00	0.00	97.10	98.80	13.80	0.00	-999.00	-999.00	-999.00
24	1.40	0.00	106.10	-999.00	-999.00	-999.00	13.70	0.00	97.30	98.60	13.10	0.00	-999.00	-999.00	-999.00

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	PASCO	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	GAS %SAT	
1	13.70	0.00	-999.00	-999.00	12.20	0.00	94.80	95.60	108.50	94.90	95.60	95.40	96.10		
2	13.70	0.00	-999.00	-999.00	12.20	0.00	94.90	95.60	108.90	0.00	95.10	95.50	95.50	96.10	
3	13.90	0.00	-999.00	-999.00	13.70	0.00	94.90	95.90	109.40	0.00	95.10	95.70	95.40	96.20	
4	13.70	0.00	-999.00	-999.00	12.40	0.00	95.00	96.50	128.20	0.00	95.10	95.60	95.40	96.20	
5	15.30	0.00	-999.00	-999.00	12.20	0.00	95.00	96.70	130.70	0.00	95.10	95.70	95.60	96.20	
6	13.90	0.00	-999.00	-999.00	12.30	0.00	95.10	96.30	131.50	0.00	95.20	95.70	95.60	96.30	
7	13.60	0.00	-999.00	-999.00	12.20	0.00	95.00	97.10	130.90	0.00	95.30	95.70	95.60	96.30	
8	13.50	0.00	-999.00	-999.00	12.20	0.00	95.00	96.30	130.90	0.00	95.30	95.70	95.70	96.30	
9	13.60	0.00	-999.00	-999.00	12.40	0.00	95.00	96.00	130.50	0.00	95.30	95.70	95.70	96.30	
10	13.60	0.00	-999.00	-999.00	12.30	0.00	95.10	96.20	130.40	0.00	95.30	95.70	95.80	96.20	
11	13.60	0.00	-999.00	-999.00	12.20	0.00	95.10	96.20	129.60	0.00	95.40	95.90	95.80	96.30	
12	13.40	0.00	-999.00	-999.00	13.70	0.00	95.30	96.40	111.40	0.00	95.40	95.90	95.90	96.30	
13	13.40	0.00	-999.00	-999.00	12.20	0.00	95.40	96.50	110.40	0.00	95.50	96.00	96.00	96.40	
14	13.70	0.00	-999.00	-999.00	12.50	0.00	95.40	96.60	109.70	0.00	95.60	96.00	96.10	96.40	
15	13.40	0.00	-999.00	-999.00	12.30	0.00	95.50	96.70	99.90	0.00	96.00	96.00	96.00	96.60	
16	13.50	0.00	-999.00	-999.00	12.30	0.00	95.50	96.60	100.00	0.00	95.80	96.10	96.10	96.60	
17	15.20	0.00	-999.00	-999.00	12.40	0.00	95.40	96.50	100.40	0.00	95.90	96.00	96.00	96.80	
18	18.10	0.00	-999.00	-999.00	13.80	0.00	95.40	96.50	109.60	0.00	95.90	96.10	96.00	96.80	
19	19.70	0.00	-999.00	-999.00	12.70	0.00	95.40	96.40	124.90	0.00	95.90	96.10	96.10	97.00	
20	20.00	0.00	-999.00	-999.00	19.40	0.00	95.60	96.50	124.80	0.00	96.00	96.10	96.10	97.00	
21	21.60	0.00	-999.00	-999.00	20.40	0.00	95.70	97.40	110.90	0.00	95.90	96.40	96.20	97.20	
22	13.60	0.00	-999.00	-999.00	20.40	0.00	95.80	97.50	109.20	0.00	96.20	96.50	96.20	97.30	
23	13.70	0.00	-999.00	-999.00	20.40	0.00	95.80	96.70	93.10	0.00	96.00	96.50	96.30	97.20	
24	13.10	0.00	-999.00	-999.00	20.60	0.00	95.80	96.30	92.30	0.00	96.50	96.60	96.30	97.30	

10 DEC 2002

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

10 DEC 2002

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	LOWER GRANITE	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.		
1	1.40	0.00	106.20	-999.00	-999.00	-999.00	13.70	0.00	97.40	98.60	13.10	0.00	-999.00	-999.00	
2	1.40	0.00	106.30	-999.00	-999.00	-999.00	13.90	0.00	97.50	98.70	13.10	0.00	-999.00	-999.00	
3	1.40	0.00	106.20	-999.00	-999.00	-999.00	13.70	0.00	97.60	98.60	14.70	0.00	-999.00	-999.00	
4	1.40	0.00	106.30	-999.00	-999.00	-999.00	13.80	0.00	97.60	98.50	14.90	0.00	-999.00	-999.00	
5	1.40	0.00	106.40	-999.00	-999.00	-999.00	13.80	0.00	97.60	98.40	13.80	0.00	-999.00	-999.00	
6	1.40	0.00	106.40	-999.00	-999.00	-999.00	13.80	0.00	97.30	98.10	13.80	0.00	-999.00	-999.00	
7	1.40	0.00	106.20	-999.00	-999.00	-999.00	14.10	0.00	97.20	98.20	14.00	0.00	-999.00	-999.00	
8	1.40	0.00	106.00	-999.00	-999.00	-999.00	13.80	0.00	97.30	98.20	14.10	0.00	-999.00	-999.00	
9	1.40	0.00	106.00	-999.00	-999.00	-999.00	13.80	0.00	97.40	98.20	14.40	0.00	-999.00	-999.00	
10	1.40	0.00	106.50	-999.00	-999.00	-999.00	13.80	0.00	97.60	98.10	17.20	0.00	-999.00	-999.00	
11	1.40	0.00	106.90	-999.00	-999.00	-999.00	13.80	0.00	97.80	98.30	14.00	0.00	-999.00	-999.00	
12	1.40	0.00	107.30	-999.00	-999.00	-999.00	14.10	0.00	97.90	99.00	14.00	0.00	-999.00	-999.00	
13	1.40	0.00	106.90	-999.00	-999.00	-999.00	13.80	0.00	97.90	98.80	14.30	0.00	-999.00	-999.00	
14	1.40	0.00	106.80	-999.00	-999.00	-999.00	13.80	0.00	97.70	98.40	14.00	0.00	-999.00	-999.00	
15	1.40	0.00	106.60	-999.00	-999.00	-999.00	13.80	0.00	97.80	98.50	14.20	0.00	-999.00	-999.00	
16	1.40	0.00	106.20	-999.00	-999.00	-999.00	13.80	0.00	98.00	98.60	14.10	0.00	-999.00	-999.00	
17	1.40	0.00	106.20	-999.00	-999.00	-999.00	15.70	0.00	98.00	98.60	14.10	0.00	-999.00	-999.00	
18	1.40	0.00	105.90	-999.00	-999.00	-999.00	13.90	0.00	98.00	99.10	14.30	0.00	-999.00	-999.00	
19	1.40	0.00	106.10	-999.00	-999.00	-999.00	27.50	0.00	97.90	99.40	17.90	0.00	-999.00	-999.00	
20	1.50	0.00	106.20	-999.00	-999.00	-999.00	30.00	0.00	97.80	98.80	29.70	0.00	-999.00	-999.00	
21	1.40	0.00	106.10	-999.00	-999.00	-999.00	30.00	0.00	97.80	98.30	32.20	0.00	-999.00	-999.00	
22	1.40	0.00	105.90	-999.00	-999.00	-999.00	30.00	0.00	97.80	98.20	30.50	0.00	-999.00	-999.00	
23	1.40	0.00	105.80	-999.00	-999.00	-999.00	15.90	0.00	97.60	98.20	28.60	0.00	-999.00	-999.00	
24	1.50	0.00	105.80	-999.00	-999.00	-999.00	14.60	0.00	97.60	98.00	16.40	0.00	-999.00	-999.00	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB	WA TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB	GAS % SAT	
1	13.10	0.00	-999.00	-999.00	20.10	0.00	95.90	96.40	0.00	96.60	96.60	96.40	0.00	97.30	
2	13.10	0.00	-999.00	-999.00	12.10	0.00	96.00	96.40	0.00	96.30	96.60	96.40	0.00	97.30	
3	13.70	0.00	-999.00	-999.00	11.60	0.00	95.90	96.40	0.00	92.90	96.10	96.60	96.50	0.00	97.20
4	14.00	0.00	-999.00	-999.00	11.60	0.00	95.70	96.10	0.00	92.70	96.10	96.50	96.40	0.00	97.10
5	13.80	0.00	-999.00	-999.00	11.80	0.00	95.80	96.30	0.00	123.60	96.00	96.50	96.50	0.00	97.20
6	14.40	0.00	-999.00	-999.00	11.60	0.00	95.70	96.40	0.00	128.80	96.10	96.50	96.40	0.00	97.00
7	14.40	0.00	-999.00	-999.00	11.80	0.00	95.80	96.60	0.00	128.40	96.20	96.50	96.30	0.00	96.90
8	15.90	0.00	-999.00	-999.00	11.70	0.00	95.90	96.60	0.00	137.20	96.10	96.50	96.50	0.00	96.90
9	16.00	0.00	-999.00	-999.00	11.70	0.00	96.00	96.70	0.00	136.90	96.20	96.60	96.50	0.00	97.00
10	15.90	0.00	-999.00	-999.00	11.90	0.00	96.00	96.90	0.00	136.70	96.40	96.80	96.60	0.00	97.10
11	16.00	0.00	-999.00	-999.00	13.20	0.00	96.10	97.10	0.00	137.30	96.70	96.90	96.70	0.00	97.00
12	16.00	0.00	-999.00	-999.00	13.30	0.00	96.10	97.10	0.00	148.90	96.60	96.80	96.70	0.00	97.00
13	16.00	0.00	-999.00	-999.00	11.80	0.00	96.20	97.30	0.00	150.40	96.80	97.00	96.90	0.00	97.10
14	15.90	0.00	-999.00	-999.00	11.80	0.00	96.30	97.40	0.00	150.60	97.00	97.10	97.00	0.00	97.20
15	16.00	0.00	-999.00	-999.00	14.40	0.00	96.40	98.20	0.00	150.90	97.00	97.10	97.00	0.00	97.40
16	20.70	0.00	-999.00	-999.00	24.60	0.00	96.30	97.60	0.00	150.20	96.90	97.00	96.80	0.00	97.30
17	21.30	0.00	-999.00	-999.00	25.20	0.00	96.20	98.40	0.00	152.00	96.70	96.90	96.70	0.00	97.40
18	21.30	0.00	-999.00	-999.00	23.60	0.00	96.20	97.20	0.00	150.10	96.70	96.80	96.60	0.00	97.50
19	21.60	0.00	-999.00	-999.00	20.20	0.00	96.10	97.60	0.00	149.60	96.50	96.50	96.50	0.00	97.40
20	31.90	0.00	-999.00	-999.00	26.40	0.00	96.00	96.50	0.00	149.10	96.40	96.70	96.50	0.00	97.30
21	33.60	0.00	-999.00	-999.00	28.20	0.00	95.90	96.50	0.00	148.20	96.30	96.60	96.40	0.00	97.10
22	33.30	0.00	-999.00	-999.00	28.20	0.00	96.00	96.30	0.00	117.90	96.00	96.30	96.50	0.00	97.10
23	30.60	0.00	-999.00	-999.00	27.70	0.00	95.90	96.20	0.00	81.20	96.20	96.50	96.50	0.00	96.80
24	20.30	0.00	-999.00	-999.00	19.70	0.00	95.90	96.10	0.00	80.30	96.20	96.50	96.60	0.00	96.80

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**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

11 DEC 2002

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.			
1	1.40	0.00	105.70	-999.00	-999.00	-999.00	0.40	0.00	97.60	98.00	8.60	0.00	-999.00	-999.00	
2	1.40	0.00	105.70	-999.00	-999.00	-999.00	0.40	0.00	97.60	98.10	0.40	0.00	-999.00	-999.00	
3	1.40	0.00	105.70	-999.00	-999.00	-999.00	2.10	0.00	97.50	98.10	0.40	0.00	-999.00	-999.00	
4	1.40	0.00	105.60	-999.00	-999.00	-999.00	0.40	0.00	97.50	98.00	0.40	0.00	-999.00	-999.00	
5	1.40	0.00	105.60	-999.00	-999.00	-999.00	0.40	0.00	97.50	98.10	0.40	0.00	-999.00	-999.00	
6	1.40	0.00	105.70	-999.00	-999.00	-999.00	0.60	0.00	97.50	98.00	0.80	0.00	-999.00	-999.00	
7	1.50	0.00	105.60	-999.00	-999.00	-999.00	16.00	0.00	97.40	99.50	15.60	0.00	-999.00	-999.00	
8	1.50	0.00	105.70	-999.00	-999.00	-999.00	21.10	0.00	97.50	98.80	21.00	0.00	-999.00	-999.00	
9	1.50	0.00	108.80	-999.00	-999.00	-999.00	20.60	0.00	97.80	98.90	23.20	0.00	-999.00	-999.00	
10	1.50	0.00	109.30	-999.00	-999.00	-999.00	20.60	0.00	97.80	99.00	21.10	0.00	-999.00	-999.00	
11	1.60	0.00	109.30	-999.00	-999.00	-999.00	12.80	0.00	97.80	98.80	12.90	0.00	-999.00	-999.00	
12	1.60	0.00	106.80	-999.00	-999.00	-999.00	11.50	0.00	97.80	98.90	12.50	0.00	-999.00	-999.00	
13	1.70	0.00	108.90	-999.00	-999.00	-999.00	11.70	0.00	97.80	98.90	12.80	0.00	-999.00	-999.00	
14	1.60	0.00	107.30	-999.00	-999.00	-999.00	11.90	0.00	97.80	98.80	13.00	0.00	-999.00	-999.00	
15	1.70	0.00	107.60	-999.00	-999.00	-999.00	20.40	0.00	97.80	98.60	22.30	0.00	-999.00	-999.00	
16	1.60	0.00	104.80	-999.00	-999.00	-999.00	21.00	0.00	97.80	98.40	21.20	0.00	-999.00	-999.00	
17	1.70	0.00	103.40	-999.00	-999.00	-999.00	20.50	0.00	97.90	98.40	21.00	0.00	-999.00	-999.00	
18	1.60	0.00	103.60	-999.00	-999.00	-999.00	21.40	0.00	97.90	98.40	22.00	0.00	-999.00	-999.00	
19	1.60	0.00	104.00	-999.00	-999.00	-999.00	28.90	0.00	97.90	98.60	27.70	0.00	-999.00	-999.00	
20	1.60	0.00	103.50	-999.00	-999.00	-999.00	28.60	0.00	98.00	98.40	28.20	0.00	-999.00	-999.00	
21	1.60	0.00	103.30	-999.00	-999.00	-999.00	30.70	0.00	98.00	98.60	28.30	0.00	-999.00	-999.00	
22	1.60	0.00	103.30	-999.00	-999.00	-999.00	28.40	0.00	98.00	98.30	28.40	0.00	-999.00	-999.00	
23	1.60	0.00	103.30	-999.00	-999.00	-999.00	17.40	0.00	98.00	98.30	17.60	0.00	-999.00	-999.00	
24	1.40	0.00	103.30	-999.00	-999.00	-999.00	12.70	0.00	98.00	98.40	13.00	0.00	-999.00	-999.00	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.			
1	4.20	0.00	-999.00	-999.00	11.80	0.00	95.80	96.00	81.10	0.00	96.20	96.50	96.40	0.00	96.60
2	0.70	0.00	-999.00	-999.00	0.40	0.00	95.90	95.80	115.90	0.00	96.10	96.40	96.20	0.00	96.60
3	0.70	0.00	-999.00	-999.00	1.80	0.00	95.80	95.90	118.80	0.00	96.20	96.40	96.20	0.00	96.60
4	0.70	0.00	-999.00	-999.00	0.30	0.00	96.00	95.90	138.50	0.00	96.20	96.50	96.20	0.00	96.60
5	2.20	0.00	-999.00	-999.00	0.30	0.00	96.00	95.80	148.20	0.00	96.20	96.40	96.20	0.00	96.80
6	2.50	0.00	-999.00	-999.00	0.90	0.00	95.80	95.90	149.80	0.00	96.20	96.40	96.20	0.00	96.70
7	16.80	0.00	-999.00	-999.00	11.70	0.00	95.80	95.90	141.00	0.00	96.20	96.40	96.20	0.00	96.80
8	20.50	0.00	-999.00	-999.00	15.60	0.00	95.80	95.80	142.80	0.00	96.20	96.40	96.20	0.00	96.80
9	20.40	0.00	-999.00	-999.00	20.80	0.00	95.80	97.10	139.60	0.00	96.20	96.40	96.40	0.00	96.90
10	20.60	0.00	-999.00	-999.00	20.80	0.00	96.00	98.40	128.50	0.00	96.20	96.40	96.40	0.00	96.80
11	18.00	0.00	-999.00	-999.00	21.30	0.00	95.90	98.60	128.90	0.00	96.30	96.50	96.40	0.00	96.80
12	19.50	0.00	-999.00	-999.00	19.40	0.00	95.90	97.20	126.10	0.00	96.40	96.60	96.40	0.00	96.90
13	18.30	0.00	-999.00	-999.00	19.30	0.00	96.00	97.00	108.00	0.00	96.50	96.70	96.50	0.00	96.90
14	18.10	0.00	-999.00	-999.00	19.20	0.00	96.20	97.00	106.80	0.00	96.60	96.80	96.60	0.00	96.80
15	20.20	0.00	-999.00	-999.00	19.30	0.00	96.20	98.10	108.90	0.00	96.60	96.80	96.60	0.00	96.90
16	20.20	0.00	-999.00	-999.00	19.80	0.00	96.20	97.10	127.40	0.00	96.70	96.80	96.80	0.00	96.90
17	20.20	0.00	-999.00	-999.00	19.60	0.00	96.30	97.00	131.30	0.00	96.70	96.80	96.70	0.00	96.90
18	21.30	0.00	-999.00	-999.00	20.20	0.00	96.40	96.80	128.60	0.00	96.60	96.80	96.60	0.00	97.00
19	27.50	0.00	-999.00	-999.00	27.50	0.00	96.20	96.80	132.90	0.00	96.40	96.70	96.50	0.00	97.00
20	27.70	0.00	-999.00	-999.00	26.30	0.00	96.20	96.80	133.50	0.00	96.50	96.70	96.50	0.00	96.90
21	27.60	0.00	-999.00	-999.00	26.40	0.00	96.10	97.50	137.60	0.00	96.40	96.70	96.50	0.00	96.90
22	27.60	0.00	-999.00	-999.00	26.00	0.00	96.20	96.90	133.60	0.00	96.40	96.70	96.50	0.00	96.90
23	21.60	0.00	-999.00	-999.00	25.80	0.00	96.30	96.80	88.70	0.00	96.40	96.70	96.30	0.00	96.90
24	15.50	0.00	-999.00	-999.00	19.70	0.00	96.30	96.80	75.80	0.00	96.40	96.70	96.50	0.00	96.90

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**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

12 DEC 2002

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	LOWER GRANITE	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.		
1	1.40	0.00	103.90	-999.00	-999.00	-999.00	0.50	0.00	98.00	98.70	0.60	0.00	-999.00	-999.00	
2	1.40	0.00	105.00	-999.00	-999.00	-999.00	0.30	0.00	98.00	98.60	0.50	0.00	-999.00	-999.00	
3	1.50	0.00	105.50	-999.00	-999.00	-999.00	0.30	0.00	98.10	98.50	1.90	0.00	-999.00	-999.00	
4	1.40	0.00	105.80	-999.00	-999.00	-999.00	0.30	0.00	98.10	98.50	0.40	0.00	-999.00	-999.00	
5	1.40	0.00	105.80	-999.00	-999.00	-999.00	0.30	0.00	98.10	98.70	0.40	0.00	-999.00	-999.00	
6	1.50	0.00	105.80	-999.00	-999.00	-999.00	1.30	0.00	98.10	98.70	0.40	0.00	-999.00	-999.00	
7	1.40	0.00	105.80	-999.00	-999.00	-999.00	14.50	0.00	98.10	99.30	12.50	0.00	-999.00	-999.00	
8	1.40	0.00	105.80	-999.00	-999.00	-999.00	15.20	0.00	98.20	98.70	12.80	0.00	-999.00	-999.00	
9	1.40	0.00	105.90	-999.00	-999.00	-999.00	13.60	0.00	98.10	99.00	12.80	0.00	-999.00	-999.00	
10	1.40	0.00	106.30	-999.00	-999.00	-999.00	13.30	0.00	98.20	99.00	12.60	0.00	-999.00	-999.00	
11	1.40	0.00	106.50	-999.00	-999.00	-999.00	13.20	0.00	98.30	98.80	14.40	0.00	-999.00	-999.00	
12	1.40	0.00	106.60	-999.00	-999.00	-999.00	13.10	0.00	98.50	98.80	12.60	0.00	-999.00	-999.00	
13	1.40	0.00	106.70	-999.00	-999.00	-999.00	13.10	0.00	98.60	98.90	12.60	0.00	-999.00	-999.00	
14	1.40	0.00	106.80	-999.00	-999.00	-999.00	13.30	0.00	98.70	99.00	12.60	0.00	-999.00	-999.00	
15	1.40	0.00	107.00	-999.00	-999.00	-999.00	14.50	0.00	98.80	98.90	12.60	0.00	-999.00	-999.00	
16	1.50	0.00	106.80	-999.00	-999.00	-999.00	25.20	0.00	98.80	99.10	25.50	0.00	-999.00	-999.00	
17	1.60	0.00	106.30	-999.00	-999.00	-999.00	29.70	0.00	98.80	99.10	30.40	0.00	-999.00	-999.00	
18	1.40	0.00	107.80	-999.00	-999.00	-999.00	29.90	0.00	98.90	99.20	30.40	0.00	-999.00	-999.00	
19	1.40	0.00	107.80	-999.00	-999.00	-999.00	30.00	0.00	99.00	99.10	30.20	0.00	-999.00	-999.00	
20	1.40	0.00	107.60	-999.00	-999.00	-999.00	30.60	0.00	98.90	99.10	30.20	0.00	-999.00	-999.00	
21	1.40	0.00	107.50	-999.00	-999.00	-999.00	29.50	0.00	98.90	99.10	30.20	0.00	-999.00	-999.00	
22	1.40	0.00	107.40	-999.00	-999.00	-999.00	16.10	0.00	98.90	99.40	15.40	0.00	-999.00	-999.00	
23	1.40	0.00	107.60	-999.00	-999.00	-999.00	16.30	0.00	99.00	99.30	15.40	0.00	-999.00	-999.00	
24	1.50	0.00	107.60	-999.00	-999.00	-999.00	0.40	0.00	99.20	99.50	0.40	0.00	-999.00	-999.00	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB	MCNARY	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	PASCO	
1	13.40	0.00	-999.00	-999.00	10.80	0.00	96.30	96.80	0.00	96.40	96.70	96.50	0.00	96.90	
2	0.60	0.00	-999.00	-999.00	0.30	0.00	96.30	96.80	0.00	96.40	96.70	96.50	0.00	96.80	
3	0.60	0.00	-999.00	-999.00	1.80	0.00	96.20	96.60	0.00	96.40	96.40	96.60	0.00	96.80	
4	0.60	0.00	-999.00	-999.00	0.30	0.00	96.30	96.60	0.00	98.40	0.00	96.40	96.50	0.00	96.80
5	0.60	0.00	-999.00	-999.00	0.30	0.00	96.30	96.50	0.00	118.90	0.00	96.40	96.50	0.00	96.80
6	1.10	0.00	-999.00	-999.00	1.10	0.00	96.30	96.50	0.00	139.90	0.00	96.40	96.60	0.00	96.80
7	13.70	0.00	-999.00	-999.00	9.40	0.00	96.40	96.70	0.00	140.20	0.00	96.40	96.60	0.00	96.80
8	15.20	0.00	-999.00	-999.00	12.20	0.00	96.40	96.50	0.00	140.40	0.00	96.50	96.80	0.00	96.80
9	13.70	0.00	-999.00	-999.00	12.30	0.00	96.40	96.60	0.00	140.60	0.00	96.50	96.80	0.00	96.80
10	13.90	0.00	-999.00	-999.00	12.30	0.00	96.50	97.40	0.00	140.10	0.00	96.60	96.90	0.00	96.90
11	13.40	0.00	-999.00	-999.00	12.20	0.00	96.70	99.90	0.00	140.20	0.00	96.70	97.00	0.00	97.00
12	13.30	0.00	-999.00	-999.00	13.90	0.00	96.80	99.40	0.00	140.20	0.00	97.00	97.10	0.00	97.20
13	13.30	0.00	-999.00	-999.00	12.20	0.00	96.90	98.80	0.00	140.10	0.00	97.10	97.30	0.00	97.40
14	13.40	0.00	-999.00	-999.00	13.70	0.00	96.90	98.70	0.00	140.20	0.00	97.70	97.50	0.00	97.50
15	14.20	0.00	-999.00	-999.00	13.10	0.00	96.90	98.50	0.00	140.60	0.00	97.70	97.50	0.00	97.60
16	26.40	0.00	-999.00	-999.00	24.70	0.00	96.90	98.90	0.00	140.90	0.00	98.00	97.50	0.00	97.70
17	29.70	0.00	-999.00	-999.00	31.00	0.00	97.20	99.10	0.00	141.10	0.00	97.80	97.70	0.00	98.00
18	29.90	0.00	-999.00	-999.00	30.50	0.00	97.30	98.50	0.00	142.50	0.00	97.70	97.70	0.00	98.00
19	29.80	0.00	-999.00	-999.00	30.20	0.00	97.30	98.70	0.00	141.20	0.00	97.70	97.90	0.00	98.20
20	30.30	0.00	-999.00	-999.00	31.60	0.00	97.30	97.90	0.00	141.50	0.00	97.60	97.90	0.00	98.20
21	29.50	0.00	-999.00	-999.00	30.00	0.00	97.50	97.80	0.00	141.10	0.00	97.50	97.80	0.00	98.20
22	16.60	0.00	-999.00	-999.00	30.00	0.00	97.50	98.60	0.00	124.70	0.00	97.60	97.80	0.00	98.20
23	15.30	0.00	-999.00	-999.00	18.10	0.00	97.50	97.80	0.00	94.60	0.00	97.50	97.90	0.00	98.20
24	0.70	0.00	-999.00	-999.00	16.30	0.00	97.40	97.60	0.00	84.60	0.00	97.50	97.90	0.00	98.00

13 DEC 2002

WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT

13 DEC 2002

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.			
1	1.40	0.00	107.50	-999.00	-999.00	-999.00	0.30	0.00	99.20	100.00	0.40	0.00	-999.00	-999.00	
2	1.50	0.00	107.60	-999.00	-999.00	-999.00	0.30	0.00	99.10	100.40	1.80	0.00	-999.00	-999.00	
3	1.40	0.00	107.60	-999.00	-999.00	-999.00	0.30	0.00	99.10	100.30	0.40	0.00	-999.00	-999.00	
4	1.40	0.00	107.60	-999.00	-999.00	-999.00	0.30	0.00	99.00	100.30	0.40	0.00	-999.00	-999.00	
5	1.40	0.00	107.60	-999.00	-999.00	-999.00	0.30	0.00	99.10	100.30	0.40	0.00	-999.00	-999.00	
6	1.40	0.00	107.60	-999.00	-999.00	-999.00	2.50	0.00	99.00	100.20	0.40	0.00	-999.00	-999.00	
7	1.40	0.00	107.60	-999.00	-999.00	-999.00	14.60	0.00	99.00	100.20	15.50	0.00	-999.00	-999.00	
8	1.50	0.00	107.50	-999.00	-999.00	-999.00	15.00	0.00	98.90	99.50	15.40	0.00	-999.00	-999.00	
9	1.40	0.00	107.40	-999.00	-999.00	-999.00	14.90	0.00	98.80	99.30	15.40	0.00	-999.00	-999.00	
10	1.50	0.00	107.60	-999.00	-999.00	-999.00	15.30	0.00	98.90	99.10	15.50	0.00	-999.00	-999.00	
11	1.40	0.00	108.00	-999.00	-999.00	-999.00	15.10	0.00	98.80	99.10	15.30	0.00	-999.00	-999.00	
12	1.40	0.00	108.20	-999.00	-999.00	-999.00	15.10	0.00	99.00	99.20	13.30	0.00	-999.00	-999.00	
13	1.40	0.00	108.50	-999.00	-999.00	-999.00	13.20	0.00	99.10	99.30	13.30	0.00	-999.00	-999.00	
14	1.40	0.00	108.50	-999.00	-999.00	-999.00	16.80	0.00	99.30	99.20	13.30	0.00	-999.00	-999.00	
15	1.40	0.00	108.50	-999.00	-999.00	-999.00	17.10	0.00	99.50	99.40	13.40	0.00	-999.00	-999.00	
16	1.40	0.00	108.10	-999.00	-999.00	-999.00	15.40	0.00	99.40	99.40	13.20	0.00	-999.00	-999.00	
17	1.40	0.00	108.10	-999.00	-999.00	-999.00	15.50	0.00	99.50	99.50	13.30	0.00	-999.00	-999.00	
18	1.50	0.00	107.90	-999.00	-999.00	-999.00	26.90	0.00	99.60	100.00	16.90	0.00	-999.00	-999.00	
19	1.40	0.00	107.80	-999.00	-999.00	-999.00	30.50	0.00	99.50	99.60	30.30	0.00	-999.00	-999.00	
20	1.40	0.00	107.80	-999.00	-999.00	-999.00	33.20	0.00	99.80	99.70	30.30	0.00	-999.00	-999.00	
21	1.40	0.00	107.90	-999.00	-999.00	-999.00	34.40	0.00	100.10	100.20	33.30	0.00	-999.00	-999.00	
22	1.40	0.00	108.00	-999.00	-999.00	-999.00	33.10	0.00	99.90	99.90	33.20	0.00	-999.00	-999.00	
23	1.40	0.00	107.90	-999.00	-999.00	-999.00	32.40	0.00	99.90	99.90	31.80	0.00	-999.00	-999.00	
24	1.40	0.00	107.90	-999.00	-999.00	-999.00	14.00	0.00	99.90	100.10	24.90	0.00	-999.00	-999.00	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.			
1	0.60	0.00	-999.00	-999.00	0.40	0.00	97.40	97.60	84.20	0.00	97.80	97.90	98.60	0.00	98.00
2	0.60	0.00	-999.00	-999.00	0.40	0.00	97.30	97.40	79.00	0.00	97.90	97.80	98.60	0.00	98.00
3	0.60	0.00	-999.00	-999.00	0.40	0.00	97.30	97.30	78.50	0.00	97.90	97.70	98.50	0.00	97.90
4	0.60	0.00	-999.00	-999.00	0.40	0.00	97.20	97.20	80.00	0.00	97.70	97.80	98.60	0.00	97.80
5	0.60	0.00	-999.00	-999.00	0.40	0.00	97.00	97.10	117.70	0.00	97.40	97.80	98.70	0.00	97.60
6	1.50	0.00	-999.00	-999.00	1.50	0.00	97.00	97.10	119.30	0.00	97.20	97.70	98.50	0.00	97.60
7	15.70	0.00	-999.00	-999.00	11.90	0.00	97.00	97.10	136.40	0.00	97.10	97.60	98.60	0.00	97.50
8	15.50	0.00	-999.00	-999.00	4.50	0.00	97.00	97.20	137.80	0.00	97.50	97.70	98.80	0.00	97.40
9	15.40	0.00	-999.00	-999.00	7.10	0.00	97.00	97.50	136.80	0.00	97.50	97.60	98.60	0.00	97.40
10	18.90	0.00	-999.00	-999.00	19.60	0.00	96.80	100.10	118.30	0.00	97.40	97.70	98.70	0.00	97.30
11	17.40	0.00	-999.00	-999.00	19.50	0.00	97.00	99.30	108.40	0.00	97.90	97.90	99.00	0.00	97.40
12	17.80	0.00	-999.00	-999.00	21.30	0.00	97.10	99.20	100.10	0.00	98.30	98.10	99.10	0.00	97.60
13	17.50	0.00	-999.00	-999.00	22.50	0.00	97.30	98.80	99.90	0.00	98.50	98.50	99.20	0.00	97.70
14	19.00	0.00	-999.00	-999.00	21.10	0.00	97.40	98.60	99.60	0.00	98.60	98.70	99.50	0.00	97.90
15	17.50	0.00	-999.00	-999.00	21.10	0.00	97.50	98.60	98.10	0.00	98.70	98.60	99.50	0.00	97.90
16	17.40	0.00	-999.00	-999.00	21.00	0.00	97.80	99.00	97.90	0.00	98.60	98.70	99.50	0.00	98.10
17	17.50	0.00	-999.00	-999.00	21.50	0.00	97.70	98.50	107.80	0.00	98.40	98.70	99.50	0.00	98.20
18	19.20	0.00	-999.00	-999.00	21.20	0.00	97.80	98.30	115.90	0.00	98.20	98.80	99.50	0.00	98.20
19	19.40	0.00	-999.00	-999.00	21.30	0.00	97.90	98.50	116.40	0.00	98.40	98.80	99.50	0.00	98.50
20	27.70	0.00	-999.00	-999.00	25.90	0.00	98.20	98.60	116.20	0.00	98.60	99.10	99.80	0.00	98.70
21	33.80	0.00	-999.00	-999.00	26.60	0.00	98.50	98.70	116.50	0.00	98.60	99.00	99.80	0.00	98.80
22	34.10	0.00	-999.00	-999.00	24.50	0.00	98.20	99.20	115.70	0.00	98.50	99.10	99.70	0.00	98.70
23	34.60	0.00	-999.00	-999.00	27.50	0.00	98.10	98.60	103.50	0.00	98.30	98.80	99.70	0.00	98.80
24	29.80	0.00	-999.00	-999.00	24.20	0.00	98.00	98.60	97.70	0.00	98.20	98.80	99.70	0.00	98.80

14 DEC 2002

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

14 DEC 2002

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	LOWER GRANITE	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.		
1	1.40	0.00	107.90	-999.00	-999.00	-999.00	0.30	0.00	99.90	100.20	1.80	0.00	-999.00	-999.00	
2	1.40	0.00	107.80	-999.00	-999.00	-999.00	0.30	0.00	99.90	100.20	1.80	0.00	-999.00	-999.00	
3	1.40	0.00	107.50	-999.00	-999.00	-999.00	0.30	0.00	100.00	100.20	0.40	0.00	-999.00	-999.00	
4	1.40	0.00	107.10	-999.00	-999.00	-999.00	1.70	0.00	100.10	100.50	0.40	0.00	-999.00	-999.00	
5	1.40	0.00	107.10	-999.00	-999.00	-999.00	12.80	0.00	100.20	101.30	0.40	0.00	-999.00	-999.00	
6	1.40	0.00	107.20	-999.00	-999.00	-999.00	13.50	0.00	100.20	100.80	12.70	0.00	-999.00	-999.00	
7	1.40	0.00	107.00	-999.00	-999.00	-999.00	19.00	0.00	100.20	100.70	18.70	0.00	-999.00	-999.00	
8	1.40	0.00	107.00	-999.00	-999.00	-999.00	20.10	0.00	100.30	100.60	18.40	0.00	-999.00	-999.00	
9	1.40	0.00	107.10	-999.00	-999.00	-999.00	19.90	0.00	100.60	100.70	19.90	0.00	-999.00	-999.00	
10	1.40	0.00	107.10	-999.00	-999.00	-999.00	19.80	0.00	100.60	100.80	19.70	0.00	-999.00	-999.00	
11	1.40	0.00	107.20	-999.00	-999.00	-999.00	20.50	0.00	100.70	100.80	19.70	0.00	-999.00	-999.00	
12	1.40	0.00	107.40	-999.00	-999.00	-999.00	19.40	0.00	100.80	100.90	19.70	0.00	-999.00	-999.00	
13	1.40	0.00	107.50	-999.00	-999.00	-999.00	19.20	0.00	100.80	101.00	19.80	0.00	-999.00	-999.00	
14	1.40	0.00	107.50	-999.00	-999.00	-999.00	19.20	0.00	101.00	101.00	19.70	0.00	-999.00	-999.00	
15	1.40	0.00	107.40	-999.00	-999.00	-999.00	16.70	0.00	101.00	101.10	19.80	0.00	-999.00	-999.00	
16	1.40	0.00	107.50	-999.00	-999.00	-999.00	16.50	0.00	101.00	101.20	19.80	0.00	-999.00	-999.00	
17	1.40	0.00	107.60	-999.00	-999.00	-999.00	20.40	0.00	101.10	101.10	19.90	0.00	-999.00	-999.00	
18	1.40	0.00	107.50	-999.00	-999.00	-999.00	20.30	0.00	101.20	101.10	19.80	0.00	-999.00	-999.00	
19	1.40	0.00	107.60	-999.00	-999.00	-999.00	20.60	0.00	101.20	101.30	19.90	0.00	-999.00	-999.00	
20	1.40	0.00	107.50	-999.00	-999.00	-999.00	26.70	0.00	101.10	101.40	20.60	0.00	-999.00	-999.00	
21	1.40	0.00	107.50	-999.00	-999.00	-999.00	26.10	0.00	101.10	101.30	20.60	0.00	-999.00	-999.00	
22	1.40	0.00	107.60	-999.00	-999.00	-999.00	25.10	0.00	101.10	101.30	20.60	0.00	-999.00	-999.00	
23	1.50	0.00	107.50	-999.00	-999.00	-999.00	18.20	0.00	101.10	101.40	20.50	0.00	-999.00	-999.00	
24	1.40	0.00	107.60	-999.00	-999.00	-999.00	11.90	0.00	101.00	101.20	13.20	0.00	-999.00	-999.00	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB	WA TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB	GAS %SAT	
1	17.20	0.00	-999.00	-999.00	19.00	0.00	98.20	98.50	0.00	98.60	98.90	99.60	0.00	98.80	
2	12.60	0.00	-999.00	-999.00	10.70	0.00	98.30	98.40	0.00	98.90	99.00	99.70	0.00	98.90	
3	0.50	0.00	-999.00	-999.00	9.20	0.00	98.40	99.10	0.00	99.00	99.20	100.00	0.00	99.00	
4	0.50	0.00	-999.00	-999.00	9.60	0.00	98.60	99.60	0.00	99.10	99.30	100.20	0.00	99.20	
5	3.00	0.00	-999.00	-999.00	9.60	0.00	98.80	99.10	0.00	99.20	99.50	100.40	0.00	99.20	
6	13.30	0.00	-999.00	-999.00	9.60	0.00	98.90	99.00	0.00	99.20	99.60	100.30	0.00	99.20	
7	15.60	0.00	-999.00	-999.00	9.70	0.00	98.90	99.20	0.00	99.30	99.70	100.50	0.00	99.30	
8	15.90	0.00	-999.00	-999.00	13.30	0.00	99.00	99.80	0.00	99.40	99.70	101.00	0.00	99.40	
9	15.90	0.00	-999.00	-999.00	12.80	0.00	99.20	100.30	0.00	99.60	99.80	100.90	0.00	99.50	
10	18.20	0.00	-999.00	-999.00	19.20	0.00	99.40	100.50	0.00	99.70	99.80	100.90	0.00	99.60	
11	19.30	0.00	-999.00	-999.00	19.40	0.00	99.50	100.70	0.00	99.80	100.00	100.80	0.00	99.50	
12	19.30	0.00	-999.00	-999.00	21.30	0.00	99.60	101.00	0.00	99.80	99.90	100.90	0.00	99.60	
13	18.90	0.00	-999.00	-999.00	19.40	0.00	99.60	100.20	0.00	99.90	100.20	101.00	0.00	99.70	
14	18.90	0.00	-999.00	-999.00	19.50	0.00	99.70	100.10	0.00	99.90	100.10	101.00	0.00	99.80	
15	20.50	0.00	-999.00	-999.00	19.50	0.00	99.90	100.20	0.00	100.00	100.20	101.00	0.00	99.80	
16	18.80	0.00	-999.00	-999.00	19.80	0.00	99.80	101.30	0.00	100.00	100.20	101.00	0.00	99.90	
17	20.80	0.00	-999.00	-999.00	19.50	0.00	99.90	100.30	0.00	100.10	100.10	100.90	0.00	99.90	
18	20.70	0.00	-999.00	-999.00	19.30	0.00	99.80	100.20	0.00	99.90	100.10	100.80	0.00	99.70	
19	20.80	0.00	-999.00	-999.00	18.00	0.00	99.80	100.20	0.00	99.90	100.00	100.70	0.00	99.60	
20	20.70	0.00	-999.00	-999.00	18.00	0.00	99.70	100.20	0.00	99.90	100.10	100.80	0.00	99.70	
21	21.10	0.00	-999.00	-999.00	18.30	0.00	99.60	100.20	0.00	99.90	100.10	100.90	0.00	99.60	
22	20.60	0.00	-999.00	-999.00	17.90	0.00	99.60	100.00	0.00	99.80	99.90	100.80	0.00	99.50	
23	20.90	0.00	-999.00	-999.00	17.80	0.00	99.30	99.90	0.00	99.60	99.80	100.50	0.00	99.40	
24	20.60	0.00	-999.00	-999.00	17.70	0.00	99.30	99.80	0.00	99.60	99.70	100.50	0.00	99.30	

15 DEC 2002

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

15 DEC 2002

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	LOWER GRANITE	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.		
1	1.40	0.00	107.40	-999.00	-999.00	-999.00	0.40	0.00	100.90	101.20	0.40	0.00	-999.00	-999.00	
2	1.40	0.00	107.20	-999.00	-999.00	-999.00	0.40	0.00	101.00	101.30	0.40	0.00	-999.00	-999.00	
3	1.40	0.00	107.30	-999.00	-999.00	-999.00	0.40	0.00	100.80	101.10	0.40	0.00	-999.00	-999.00	
4	1.40	0.00	107.30	-999.00	-999.00	-999.00	0.40	0.00	100.70	101.00	0.40	0.00	-999.00	-999.00	
5	1.40	0.00	107.10	-999.00	-999.00	-999.00	0.40	0.00	100.60	100.90	0.40	0.00	-999.00	-999.00	
6	1.40	0.00	107.20	-999.00	-999.00	-999.00	1.30	0.00	100.50	100.90	0.40	0.00	-999.00	-999.00	
7	1.40	0.00	106.90	-999.00	-999.00	-999.00	16.90	0.00	100.40	101.20	0.40	0.00	-999.00	-999.00	
8	1.40	0.00	106.90	-999.00	-999.00	-999.00	17.20	0.00	100.40	100.70	14.60	0.00	-999.00	-999.00	
9	1.40	0.00	106.90	-999.00	-999.00	-999.00	17.20	0.00	100.20	100.50	19.70	0.00	-999.00	-999.00	
10	1.40	0.00	106.90	-999.00	-999.00	-999.00	20.70	0.00	100.20	100.20	19.80	0.00	-999.00	-999.00	
11	1.40	0.00	107.20	-999.00	-999.00	-999.00	20.90	0.00	100.40	100.20	19.70	0.00	-999.00	-999.00	
12	1.40	0.00	107.60	-999.00	-999.00	-999.00	21.30	0.00	100.40	100.20	19.70	0.00	-999.00	-999.00	
13	1.50	0.00	107.60	-999.00	-999.00	-999.00	21.20	0.00	100.70	100.20	19.70	0.00	-999.00	-999.00	
14	1.40	0.00	107.70	-999.00	-999.00	-999.00	21.10	0.00	101.00	100.30	19.60	0.00	-999.00	-999.00	
15	1.40	0.00	107.60	-999.00	-999.00	-999.00	21.30	0.00	101.20	100.40	19.90	0.00	-999.00	-999.00	
16	1.40	0.00	107.40	-999.00	-999.00	-999.00	21.20	0.00	101.20	100.40	22.10	0.00	-999.00	-999.00	
17	1.50	0.00	107.10	-999.00	-999.00	-999.00	21.50	0.00	101.30	100.50	28.80	0.00	-999.00	-999.00	
18	1.40	0.00	107.10	-999.00	-999.00	-999.00	26.30	0.00	101.40	100.60	28.80	0.00	-999.00	-999.00	
19	1.40	0.00	107.20	-999.00	-999.00	-999.00	26.10	0.00	101.10	100.60	28.80	0.00	-999.00	-999.00	
20	1.40	0.00	107.20	-999.00	-999.00	-999.00	26.10	0.00	101.10	100.80	28.80	0.00	-999.00	-999.00	
21	1.40	0.00	107.20	-999.00	-999.00	-999.00	25.10	0.00	101.30	101.10	27.40	0.00	-999.00	-999.00	
22	1.40	0.00	107.50	-999.00	-999.00	-999.00	0.50	0.00	101.50	101.10	15.50	0.00	-999.00	-999.00	
23	1.40	0.00	107.50	-999.00	-999.00	-999.00	0.40	0.00	101.60	101.60	0.40	0.00	-999.00	-999.00	
24	1.40	0.00	107.60	-999.00	-999.00	-999.00	2.10	0.00	101.90	101.70	0.40	0.00	-999.00	-999.00	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB	WA TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB	GAS %SAT	
1	13.60	0.00	-999.00	-999.00	11.90	0.00	99.20	99.70	0.00	99.40	99.60	100.40	0.00	99.30	
2	9.50	0.00	-999.00	-999.00	0.40	0.00	99.00	99.40	0.00	99.30	99.40	100.20	0.00	98.90	
3	0.60	0.00	-999.00	-999.00	0.30	0.00	99.00	99.30	0.00	99.20	99.30	100.10	0.00	98.60	
4	0.60	0.00	-999.00	-999.00	0.30	0.00	98.80	99.10	0.00	99.10	99.10	100.00	0.00	98.60	
5	0.60	0.00	-999.00	-999.00	0.30	0.00	98.70	98.90	0.00	99.00	98.90	99.70	0.00	98.30	
6	0.60	0.00	-999.00	-999.00	0.30	0.00	98.50	98.70	0.00	98.80	98.80	99.60	0.00	98.20	
7	5.20	0.00	-999.00	-999.00	4.70	0.00	98.40	98.70	0.00	98.70	98.60	99.50	0.00	98.10	
8	21.30	0.00	-999.00	-999.00	9.20	0.00	98.20	98.60	0.00	98.50	98.60	99.40	0.00	97.80	
9	21.30	0.00	-999.00	-999.00	9.20	0.00	98.20	98.50	0.00	98.40	98.60	99.50	0.00	97.70	
10	21.50	0.00	-999.00	-999.00	9.20	0.00	98.30	98.60	0.00	98.80	98.60	99.40	0.00	97.60	
11	21.40	0.00	-999.00	-999.00	10.70	0.00	98.20	98.90	0.00	98.10	98.60	99.50	0.00	97.60	
12	21.40	0.00	-999.00	-999.00	9.30	0.00	98.40	100.80	0.00	97.20	98.60	99.60	0.00	97.70	
13	21.40	0.00	-999.00	-999.00	18.20	0.00	98.50	101.80	0.00	98.20	98.90	99.70	0.00	97.70	
14	21.90	0.00	-999.00	-999.00	19.60	0.00	98.50	101.20	0.00	88.60	98.90	99.70	0.00	98.00	
15	22.00	0.00	-999.00	-999.00	19.90	0.00	98.60	101.40	0.00	89.40	99.00	99.80	0.00	98.00	
16	21.40	0.00	-999.00	-999.00	19.40	0.00	98.70	100.70	0.00	89.90	98.90	99.70	0.00	98.10	
17	24.30	0.00	-999.00	-999.00	23.60	0.00	98.80	99.80	0.00	91.60	99.00	99.10	0.00	98.20	
18	33.20	0.00	-999.00	-999.00	29.20	0.00	98.90	99.50	0.00	98.60	99.10	99.20	0.00	98.20	
19	31.90	0.00	-999.00	-999.00	29.50	0.00	99.20	99.50	0.00	88.80	99.30	99.30	0.00	98.40	
20	32.50	0.00	-999.00	-999.00	29.90	0.00	99.40	99.60	0.00	90.30	99.40	99.50	0.00	98.50	
21	32.00	0.00	-999.00	-999.00	28.90	0.00	99.50	99.60	0.00	86.00	99.60	99.60	0.00	98.50	
22	14.10	0.00	-999.00	-999.00	12.10	0.00	99.70	99.70	0.00	87.10	99.70	99.70	0.00	98.70	
23	0.70	0.00	-999.00	-999.00	0.40	0.00	99.80	99.80	0.00	88.40	99.90	100.10	0.00	98.80	
24	0.70	0.00	-999.00	-999.00	0.40	0.00	100.10	100.00	0.00	87.40	100.20	100.40	0.00	99.20	

16 DEC 2002

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

16 DEC 2002

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.			
1	1.40	0.00	107.90	-999.00	-999.00	-999.00	0.40	0.00	102.10	102.00	0.40	0.00	-999.00	-999.00	
2	1.40	0.00	107.70	-999.00	-999.00	-999.00	0.40	0.00	102.30	102.60	0.40	0.00	-999.00	-999.00	
3	1.40	0.00	107.90	-999.00	-999.00	-999.00	0.40	0.00	102.50	103.30	0.40	0.00	-999.00	-999.00	
4	1.40	0.00	108.00	-999.00	-999.00	-999.00	1.80	0.00	102.60	103.30	0.40	0.00	-999.00	-999.00	
5	1.40	0.00	108.10	-999.00	-999.00	-999.00	24.90	0.00	102.50	103.60	12.70	0.00	-999.00	-999.00	
6	1.40	0.00	108.00	-999.00	-999.00	-999.00	25.40	0.00	102.50	103.50	24.60	0.00	-999.00	-999.00	
7	1.40	0.00	108.00	-999.00	-999.00	-999.00	25.10	0.00	102.50	103.20	24.80	0.00	-999.00	-999.00	
8	1.40	0.00	108.10	-999.00	-999.00	-999.00	25.70	0.00	102.50	103.20	24.90	0.00	-999.00	-999.00	
9	1.40	0.00	108.00	-999.00	-999.00	-999.00	25.90	0.00	102.50	103.20	24.80	0.00	-999.00	-999.00	
10	1.40	0.00	108.10	-999.00	-999.00	-999.00	25.50	0.00	102.30	102.80	24.90	0.00	-999.00	-999.00	
11	1.40	0.00	108.40	-999.00	-999.00	-999.00	25.60	0.00	102.30	102.90	24.80	0.00	-999.00	-999.00	
12	1.40	0.00	108.50	-999.00	-999.00	-999.00	21.20	0.00	102.00	102.30	24.90	0.00	-999.00	-999.00	
13	1.40	0.00	108.40	-999.00	-999.00	-999.00	20.90	0.00	101.70	102.10	25.00	0.00	-999.00	-999.00	
14	1.40	0.00	108.10	-999.00	-999.00	-999.00	21.60	0.00	101.60	102.10	24.90	0.00	-999.00	-999.00	
15	1.40	0.00	108.20	-999.00	-999.00	-999.00	20.70	0.00	101.50	101.80	24.80	0.00	-999.00	-999.00	
16	1.40	0.00	107.90	-999.00	-999.00	-999.00	20.70	0.00	101.40	101.60	24.80	0.00	-999.00	-999.00	
17	1.40	0.00	107.80	-999.00	-999.00	-999.00	20.80	0.00	101.30	101.50	24.80	0.00	-999.00	-999.00	
18	1.40	0.00	107.50	-999.00	-999.00	-999.00	24.90	0.00	101.20	101.30	25.20	0.00	-999.00	-999.00	
19	1.40	0.00	107.40	-999.00	-999.00	-999.00	26.20	0.00	101.20	101.30	25.00	0.00	-999.00	-999.00	
20	1.40	0.00	107.60	-999.00	-999.00	-999.00	27.50	0.00	101.00	101.70	25.00	0.00	-999.00	-999.00	
21	1.40	0.00	107.40	-999.00	-999.00	-999.00	31.80	0.00	100.80	101.10	27.60	0.00	-999.00	-999.00	
22	1.40	0.00	107.50	-999.00	-999.00	-999.00	22.40	0.00	100.70	101.00	27.60	0.00	-999.00	-999.00	
23	1.40	0.00	107.30	-999.00	-999.00	-999.00	0.80	0.00	100.70	101.30	12.60	0.00	-999.00	-999.00	
24	1.40	0.00	107.20	-999.00	-999.00	-999.00	0.30	0.00	100.60	101.70	12.60	0.00	-999.00	-999.00	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. OR FB WA TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB			
1	0.70	0.00	-999.00	-999.00	0.40	0.00	100.30	100.20	87.10	0.00	100.50	100.60	101.20	0.00	99.40
2	0.70	0.00	-999.00	-999.00	0.40	0.00	100.60	100.40	92.00	0.00	100.60	100.80	101.30	0.00	99.60
3	0.70	0.00	-999.00	-999.00	0.40	0.00	100.70	100.50	89.50	0.00	100.60	100.80	101.30	0.00	99.70
4	0.70	0.00	-999.00	-999.00	0.40	0.00	100.50	100.40	88.40	0.00	100.70	100.80	101.30	0.00	99.80
5	2.00	0.00	-999.00	-999.00	0.40	0.00	100.60	100.50	97.00	0.00	100.70	100.90	101.30	0.00	99.90
6	13.80	0.00	-999.00	-999.00	12.20	0.00	100.70	100.70	120.10	0.00	100.70	101.00	101.40	0.00	99.90
7	21.00	0.00	-999.00	-999.00	20.10	0.00	100.70	100.60	122.60	0.00	100.70	100.90	101.40	0.00	99.80
8	26.60	0.00	-999.00	-999.00	20.30	0.00	100.70	101.80	118.90	0.00	100.70	100.90	101.40	0.00	99.70
9	26.00	0.00	-999.00	-999.00	20.40	0.00	100.60	103.50	117.40	0.00	100.60	100.70	101.30	0.00	99.60
10	27.10	0.00	-999.00	-999.00	23.20	0.00	100.50	101.80	119.80	0.00	100.20	100.40	100.70	0.00	99.10
11	27.10	0.00	-999.00	-999.00	23.80	0.00	100.50	100.80	121.30	0.00	100.10	100.20	100.60	0.00	99.60
12	27.10	0.00	-999.00	-999.00	23.30	0.00	100.30	100.50	122.00	0.00	0.00	100.20	100.60	0.00	99.40
13	27.10	0.00	-999.00	-999.00	23.40	0.00	100.10	100.30	115.00	0.00	99.60	99.90	100.70	0.00	99.30
14	27.60	0.00	-999.00	-999.00	23.70	0.00	99.80	100.20	113.70	0.00	99.60	99.80	0.00	0.00	99.20
15	27.20	0.00	-999.00	-999.00	23.60	0.00	99.70	100.20	113.70	0.00	99.50	99.70	100.60	0.00	0.00
16	27.30	0.00	-999.00	-999.00	24.00	0.00	99.60	100.70	114.80	0.00	99.30	99.60	100.30	0.00	99.10
17	26.70	0.00	-999.00	-999.00	23.70	0.00	99.60	100.00	120.90	0.00	99.20	99.50	99.90	0.00	99.00
18	26.70	0.00	-999.00	-999.00	25.40	0.00	99.60	99.80	123.30	0.00	99.10	99.40	99.80	0.00	98.90
19	26.50	0.00	-999.00	-999.00	29.60	0.00	99.40	99.70	123.30	0.00	99.00	99.30	99.50	0.00	98.70
20	26.70	0.00	-999.00	-999.00	28.90	0.00	99.50	100.00	123.00	0.00	98.90	99.10	99.50	0.00	98.50
21	27.10	0.00	-999.00	-999.00	28.30	0.00	99.20	100.10	123.00	0.00	98.80	99.00	99.50	0.00	98.20
22	28.40	0.00	-999.00	-999.00	27.80	0.00	99.10	99.50	121.20	0.00	98.70	98.90	99.40	0.00	98.20
23	15.50	0.00	-999.00	-999.00	14.10	0.00	99.10	99.20	91.90	0.00	98.60	98.90	99.40	0.00	98.10
24	15.20	0.00	-999.00	-999.00	11.60	0.00	99.00	99.20	88.10	0.00	98.50	98.80	99.50	0.00	98.00

17 DEC 2002

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

17 DEC 2002

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.			
1	1.40	0.00	107.10	-999.00	-999.00	-999.00	0.30	0.00	100.60	101.70	0.40	0.00	-999.00	-999.00	
2	1.40	0.00	107.00	-999.00	-999.00	-999.00	0.30	0.00	100.50	101.40	1.80	0.00	-999.00	-999.00	
3	1.40	0.00	107.10	-999.00	-999.00	-999.00	0.30	0.00	100.40	101.20	1.80	0.00	-999.00	-999.00	
4	1.40	0.00	107.00	-999.00	-999.00	-999.00	0.30	0.00	100.30	101.30	0.40	0.00	-999.00	-999.00	
5	1.40	0.00	106.90	-999.00	-999.00	-999.00	15.20	0.00	100.30	101.80	0.40	0.00	-999.00	-999.00	
6	1.40	0.00	106.80	-999.00	-999.00	-999.00	22.30	0.00	100.30	101.40	0.40	0.00	-999.00	-999.00	
7	1.40	0.00	106.90	-999.00	-999.00	-999.00	23.90	0.00	100.10	101.00	12.60	0.00	-999.00	-999.00	
8	1.50	0.00	106.80	-999.00	-999.00	-999.00	24.70	0.00	100.20	100.60	19.80	0.00	-999.00	-999.00	
9	1.40	0.00	107.40	-999.00	-999.00	-999.00	25.30	0.00	100.10	100.50	22.30	0.00	-999.00	-999.00	
10	1.40	0.00	108.70	-999.00	-999.00	-999.00	25.40	0.00	100.30	100.40	22.10	0.00	-999.00	-999.00	
11	1.50	0.00	109.60	-999.00	-999.00	-999.00	25.10	0.00	100.40	100.50	20.50	0.00	-999.00	-999.00	
12	1.40	0.00	109.00	-999.00	-999.00	-999.00	24.90	0.00	100.60	100.40	22.10	0.00	-999.00	-999.00	
13	1.50	0.00	108.70	-999.00	-999.00	-999.00	24.70	0.00	100.60	100.50	22.20	0.00	-999.00	-999.00	
14	1.40	0.00	107.40	-999.00	-999.00	-999.00	24.80	0.00	100.50	100.50	22.20	0.00	-999.00	-999.00	
15	1.40	0.00	106.70	-999.00	-999.00	-999.00	24.60	0.00	100.40	100.40	22.20	0.00	-999.00	-999.00	
16	1.50	0.00	107.40	-999.00	-999.00	-999.00	25.30	0.00	100.30	100.40	22.20	0.00	-999.00	-999.00	
17	1.40	0.00	107.50	-999.00	-999.00	-999.00	26.60	0.00	100.10	100.30	22.20	0.00	-999.00	-999.00	
18	1.40	0.00	107.20	-999.00	-999.00	-999.00	24.90	0.00	100.10	100.40	26.20	0.00	-999.00	-999.00	
19	1.40	0.00	106.10	-999.00	-999.00	-999.00	24.80	0.00	100.00	100.20	26.10	0.00	-999.00	-999.00	
20	1.40	0.00	105.60	-999.00	-999.00	-999.00	24.80	0.00	99.90	100.10	30.30	0.00	-999.00	-999.00	
21	1.40	0.00	105.20	-999.00	-999.00	-999.00	25.20	0.00	99.90	99.90	30.20	0.00	-999.00	-999.00	
22	1.40	0.00	105.10	-999.00	-999.00	-999.00	24.40	0.00	99.90	99.90	30.20	0.00	-999.00	-999.00	
23	1.40	0.00	105.00	-999.00	-999.00	-999.00	15.90	0.00	99.80	100.10	12.60	0.00	-999.00	-999.00	
24	1.40	0.00	105.10	-999.00	-999.00	-999.00	1.60	0.00	99.70	100.30	12.50	0.00	-999.00	-999.00	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.			
1	0.30	0.00	-999.00	-999.00	0.40	0.00	99.10	99.00		77.50	0.00	98.50	98.80	99.40	97.90
2	0.30	0.00	-999.00	-999.00	0.40	0.00	99.10	98.80		76.40	0.00	98.50	98.70	99.20	97.80
3	0.30	0.00	-999.00	-999.00	0.40	0.00	98.90	98.80		75.70	0.00	98.40	98.60	99.30	97.80
4	0.30	0.00	-999.00	-999.00	0.70	0.00	98.80	98.60		83.20	0.00	98.30	98.60	99.30	97.60
5	14.40	0.00	-999.00	-999.00	8.90	0.00	98.80	98.60		105.20	0.00	98.20	98.60	99.30	97.40
6	14.50	0.00	-999.00	-999.00	9.20	0.00	98.80	98.50		121.10	0.00	98.20	98.50	99.10	97.40
7	16.10	0.00	-999.00	-999.00	12.60	0.00	98.80	98.70		127.30	0.00	98.20	98.50	99.10	97.20
8	18.60	0.00	-999.00	-999.00	17.70	0.00	98.70	99.30		128.20	0.00	98.10	98.40	99.00	97.20
9	19.50	0.00	-999.00	-999.00	19.80	0.00	98.70	101.00		118.40	0.00	98.10	98.40	99.30	97.00
10	19.60	0.00	-999.00	-999.00	21.70	0.00	98.90	100.80		107.10	0.00	98.10	98.50	99.40	97.00
11	19.60	0.00	-999.00	-999.00	19.40	0.00	99.10	99.80		108.00	0.00	98.40	98.50	99.40	97.00
12	19.70	0.00	-999.00	-999.00	19.40	0.00	99.00	99.50		105.70	0.00	98.50	98.60	99.30	97.00
13	21.50	0.00	-999.00	-999.00	20.90	0.00	98.80	99.50		107.20	0.00	98.50	98.60	99.50	97.00
14	19.50	0.00	-999.00	-999.00	21.50	0.00	98.70	100.70		106.60	0.00	98.30	98.60	99.50	97.00
15	19.50	0.00	-999.00	-999.00	23.50	0.00	98.60	99.30		107.50	0.00	98.10	98.40	99.20	96.90
16	19.60	0.00	-999.00	-999.00	21.60	0.00	98.50	98.80		108.30	0.00	98.00	98.30	99.10	96.80
17	19.40	0.00	-999.00	-999.00	23.20	0.00	98.40	99.70		110.20	0.00	97.80	98.20	99.00	96.90
18	22.90	0.00	-999.00	-999.00	25.10	0.00	98.40	99.10		128.60	0.00	97.80	98.20	99.00	96.80
19	31.50	0.00	-999.00	-999.00	33.60	0.00	98.40	99.20		138.00	0.00	97.80	98.20	98.60	96.80
20	31.80	0.00	-999.00	-999.00	34.90	0.00	98.30	98.60		136.70	0.00	97.50	98.10	98.60	96.80
21	38.40	0.00	-999.00	-999.00	35.90	0.00	98.30	98.30		145.90	0.00	97.50	98.00	98.50	96.70
22	39.20	0.00	-999.00	-999.00	34.00	0.00	98.20	98.30		143.00	0.00	97.40	97.90	98.50	96.50
23	27.80	0.00	-999.00	-999.00	21.70	0.00	98.10	98.50		85.60	0.00	97.30	97.90	98.20	96.40
24	19.80	0.00	-999.00	-999.00	20.80	0.00	98.10	98.60		86.40	0.00	97.30	97.90	98.20	96.30

18 DEC 2002

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

18 DEC 2002

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	LOWER GRANITE	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.		
1	1.40	0.00	105.10	-999.00	-999.00	-999.00	0.30	0.00	99.60	100.40	0.40	0.00	-999.00	-999.00	
2	1.40	0.00	105.00	-999.00	-999.00	-999.00	0.30	0.00	99.60	100.30	0.40	0.00	-999.00	-999.00	
3	1.40	0.00	105.10	-999.00	-999.00	-999.00	0.30	0.00	99.60	100.20	0.40	0.00	-999.00	-999.00	
4	1.40	0.00	105.80	-999.00	-999.00	-999.00	0.70	0.00	99.40	100.20	1.80	0.00	-999.00	-999.00	
5	1.40	0.00	106.00	-999.00	-999.00	-999.00	14.10	0.00	99.50	100.00	12.60	0.00	-999.00	-999.00	
6	1.40	0.00	106.00	-999.00	-999.00	-999.00	14.60	0.00	99.40	100.50	12.60	0.00	-999.00	-999.00	
7	1.40	0.00	105.90	-999.00	-999.00	-999.00	17.40	0.00	99.20	100.10	17.20	0.00	-999.00	-999.00	
8	1.40	0.00	106.00	-999.00	-999.00	-999.00	17.10	0.00	99.10	99.60	17.30	0.00	-999.00	-999.00	
9	1.50	0.00	106.20	-999.00	-999.00	-999.00	16.80	0.00	99.10	99.60	18.80	0.00	-999.00	-999.00	
10	1.40	0.00	107.20	-999.00	-999.00	-999.00	16.80	0.00	98.90	99.70	21.40	0.00	-999.00	-999.00	
11	1.50	0.00	108.30	-999.00	-999.00	-999.00	16.70	0.00	99.10	0.00	21.50	0.00	-999.00	-999.00	
12	1.40	0.00	108.60	-999.00	-999.00	-999.00	17.20	0.00	99.40	99.70	21.30	0.00	-999.00	-999.00	
13	1.40	0.00	108.80	-999.00	-999.00	-999.00	16.60	0.00	99.40	99.60	21.60	0.00	-999.00	-999.00	
14	1.40	0.00	108.80	-999.00	-999.00	-999.00	16.60	0.00	99.30	99.30	21.40	0.00	-999.00	-999.00	
15	1.40	0.00	108.80	-999.00	-999.00	-999.00	16.50	0.00	99.10	99.50	21.50	0.00	-999.00	-999.00	
16	1.50	0.00	108.30	-999.00	-999.00	-999.00	16.00	0.00	99.00	99.70	21.50	0.00	-999.00	-999.00	
17	1.40	0.00	108.10	-999.00	-999.00	-999.00	16.00	0.00	99.00	100.00	21.50	0.00	-999.00	-999.00	
18	1.50	0.00	108.00	-999.00	-999.00	-999.00	17.90	0.00	98.80	100.00	21.50	0.00	-999.00	-999.00	
19	1.40	0.00	107.80	-999.00	-999.00	-999.00	35.70	0.00	98.70	99.40	27.40	0.00	-999.00	-999.00	
20	1.50	0.00	107.80	-999.00	-999.00	-999.00	31.90	0.00	98.70	99.20	28.80	0.00	-999.00	-999.00	
21	1.40	0.00	107.90	-999.00	-999.00	-999.00	31.20	0.00	98.50	99.00	30.20	0.00	-999.00	-999.00	
22	1.50	0.00	107.80	-999.00	-999.00	-999.00	30.70	0.00	98.60	98.80	30.20	0.00	-999.00	-999.00	
23	1.40	0.00	107.90	-999.00	-999.00	-999.00	13.20	0.00	98.60	98.80	13.90	0.00	-999.00	-999.00	
24	1.40	0.00	108.00	-999.00	-999.00	-999.00	0.30	0.00	98.60	98.70	1.80	0.00	-999.00	-999.00	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB	WA TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB	GAS %SAT	
1	13.50	0.00	-999.00	-999.00	10.90	0.00	98.10	98.20	0.00	97.30	97.70	98.20	0.00	96.20	
2	0.80	0.00	-999.00	-999.00	1.80	0.00	98.00	98.00	0.00	97.20	97.70	98.20	0.00	96.20	
3	0.30	0.00	-999.00	-999.00	0.30	0.00	97.90	98.00	122.70	0.00	97.20	97.60	98.20	0.00	96.00
4	0.30	0.00	-999.00	-999.00	0.30	0.00	97.90	97.90	132.90	0.00	97.10	97.60	98.00	0.00	96.00
5	0.30	0.00	-999.00	-999.00	0.30	0.00	97.90	97.90	153.50	0.00	97.10	97.40	98.00	0.00	95.90
6	0.80	0.00	-999.00	-999.00	1.70	0.00	97.70	97.90	156.90	0.00	97.00	97.50	98.00	0.00	95.90
7	13.00	0.00	-999.00	-999.00	12.10	0.00	97.80	97.90	163.50	0.00	96.80	97.30	97.80	0.00	96.00
8	13.10	0.00	-999.00	-999.00	13.40	0.00	97.60	97.70	161.40	0.00	96.80	97.20	97.70	0.00	95.90
9	21.70	0.00	-999.00	-999.00	19.00	0.00	97.60	98.00	159.90	0.00	96.70	97.10	97.60	0.00	95.60
10	20.90	0.00	-999.00	-999.00	19.70	0.00	97.50	100.60	157.40	0.00	96.70	97.00	97.60	0.00	95.70
11	24.10	0.00	-999.00	-999.00	23.20	0.00	97.30	99.20	108.70	0.00	96.70	97.00	97.50	0.00	95.70
12	26.40	0.00	-999.00	-999.00	25.00	0.00	97.40	98.20	87.70	0.00	96.80	96.90	97.80	0.00	95.70
13	26.40	0.00	-999.00	-999.00	23.60	0.00	97.30	98.00	77.60	0.00	96.80	97.10	98.10	0.00	95.60
14	26.60	0.00	-999.00	-999.00	23.80	0.00	97.40	97.80	80.10	0.00	96.80	97.20	98.30	0.00	95.70
15	26.80	0.00	-999.00	-999.00	24.50	0.00	97.30	97.90	80.30	0.00	96.80	97.00	98.10	0.00	95.70
16	26.90	0.00	-999.00	-999.00	24.00	0.00	97.30	98.50	129.30	0.00	96.70	96.80	98.00	0.00	95.80
17	28.80	0.00	-999.00	-999.00	24.10	0.00	97.20	97.40	162.00	0.00	96.60	96.80	97.60	0.00	95.90
18	26.90	0.00	-999.00	-999.00	24.50	0.00	97.20	97.10	161.90	0.00	96.40	96.80	97.40	0.00	96.00
19	31.80	0.00	-999.00	-999.00	29.40	0.00	97.20	97.00	163.80	0.00	96.40	96.60	97.30	0.00	96.00
20	30.40	0.00	-999.00	-999.00	30.00	0.00	97.20	96.90	177.20	0.00	96.40	96.70	97.10	0.00	96.00
21	30.50	0.00	-999.00	-999.00	29.50	0.00	97.20	96.90	163.90	0.00	96.40	96.70	97.10	0.00	96.10
22	32.00	0.00	-999.00	-999.00	28.80	0.00	97.10	96.90	160.60	0.00	96.40	96.60	97.10	0.00	95.90
23	23.50	0.00	-999.00	-999.00	12.30	0.00	97.10	96.70	106.80	0.00	96.40	96.70	97.00	0.00	95.90
24	0.30	0.00	-999.00	-999.00	0.40	0.00	97.10	96.70	107.10	0.00	96.50	96.70	97.10	0.00	96.00

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**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

19 DEC 2002

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. TAI LW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAI LW.	LOWER GRANITE	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAI LW.		
1	1.50	0.00	107.80	-999.00	-999.00	-999.00	0.30	0.00	98.50	98.80	0.40	0.00	-999.00	-999.00	
2	1.50	0.00	108.00	-999.00	-999.00	-999.00	0.30	0.00	98.60	98.90	0.40	0.00	-999.00	-999.00	
3	1.50	0.00	109.30	-999.00	-999.00	-999.00	0.30	0.00	98.60	98.90	0.40	0.00	-999.00	-999.00	
4	1.50	0.00	109.70	-999.00	-999.00	-999.00	0.30	0.00	98.60	98.80	0.40	0.00	-999.00	-999.00	
5	1.50	0.00	109.70	-999.00	-999.00	-999.00	0.90	0.00	98.60	98.80	0.40	0.00	-999.00	-999.00	
6	1.50	0.00	109.80	-999.00	-999.00	-999.00	23.90	0.00	98.60	99.30	0.40	0.00	-999.00	-999.00	
7	1.50	0.00	109.90	-999.00	-999.00	-999.00	25.00	0.00	98.60	99.40	12.60	0.00	-999.00	-999.00	
8	1.40	0.00	110.30	-999.00	-999.00	-999.00	24.30	0.00	98.60	99.10	16.40	0.00	-999.00	-999.00	
9	1.50	0.00	110.70	-999.00	-999.00	-999.00	24.40	0.00	98.60	98.90	19.10	0.00	-999.00	-999.00	
10	1.60	0.00	109.30	-999.00	-999.00	-999.00	24.40	0.00	98.60	99.00	24.70	0.00	-999.00	-999.00	
11	1.60	0.00	108.30	-999.00	-999.00	-999.00	24.30	0.00	98.80	98.90	24.70	0.00	-999.00	-999.00	
12	1.60	0.00	105.10	-999.00	-999.00	-999.00	24.90	0.00	98.90	99.00	24.80	0.00	-999.00	-999.00	
13	1.50	0.00	105.10	-999.00	-999.00	-999.00	24.50	0.00	99.00	99.10	24.70	0.00	-999.00	-999.00	
14	1.50	0.00	106.10	-999.00	-999.00	-999.00	24.40	0.00	99.10	99.10	24.70	0.00	-999.00	-999.00	
15	1.60	0.00	106.60	-999.00	-999.00	-999.00	24.40	0.00	99.20	99.20	24.70	0.00	-999.00	-999.00	
16	1.60	0.00	106.20	-999.00	-999.00	-999.00	24.30	0.00	99.20	99.20	24.70	0.00	-999.00	-999.00	
17	1.60	0.00	105.80	-999.00	-999.00	-999.00	25.20	0.00	99.30	100.20	24.70	0.00	-999.00	-999.00	
18	1.50	0.00	105.40	-999.00	-999.00	-999.00	36.60	0.00	99.30	99.90	37.60	0.00	-999.00	-999.00	
19	1.50	0.00	105.30	-999.00	-999.00	-999.00	37.00	0.00	99.20	99.70	37.60	0.00	-999.00	-999.00	
20	1.60	0.00	105.50	-999.00	-999.00	-999.00	39.70	0.00	99.30	99.60	34.40	0.00	-999.00	-999.00	
21	1.50	0.00	105.90	-999.00	-999.00	-999.00	39.60	0.00	99.50	99.50	34.40	0.00	-999.00	-999.00	
22	1.60	0.00	105.90	-999.00	-999.00	-999.00	20.10	0.00	99.40	99.70	20.30	0.00	-999.00	-999.00	
23	1.50	0.00	106.00	-999.00	-999.00	-999.00	2.00	0.00	99.60	99.70	0.40	0.00	-999.00	-999.00	
24	1.60	0.00	106.20	-999.00	-999.00	-999.00	0.20	0.00	99.60	99.80	0.40	0.00	-999.00	-999.00	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAI LW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAI LW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB	WA TAI LW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB		
1	0.30	0.00	-999.00	-999.00	0.20	0.00	97.10	96.50	0.00	96.40	96.70	97.00	0.00	95.90	
2	0.30	0.00	-999.00	-999.00	0.20	0.00	97.10	96.60	0.00	96.50	96.70	97.20	0.00	95.80	
3	0.30	0.00	-999.00	-999.00	0.20	0.00	97.00	96.50	0.00	96.30	96.70	97.20	0.00	95.80	
4	0.30	0.00	-999.00	-999.00	0.20	0.00	97.00	96.50	0.00	96.40	96.70	97.20	0.00	95.70	
5	0.30	0.00	-999.00	-999.00	0.20	0.00	96.90	96.50	0.00	96.50	96.80	97.40	0.00	95.70	
6	0.70	0.00	-999.00	-999.00	1.60	0.00	96.90	96.40	0.00	96.40	96.60	97.50	0.00	95.70	
7	13.30	0.00	-999.00	-999.00	11.80	0.00	97.00	96.40	0.00	96.40	96.70	97.60	0.00	95.60	
8	17.90	0.00	-999.00	-999.00	17.00	0.00	97.10	96.30	0.00	96.50	96.70	97.40	0.00	95.60	
9	18.90	0.00	-999.00	-999.00	18.20	0.00	97.10	96.90	0.00	96.50	96.80	97.40	0.00	95.70	
10	25.90	0.00	-999.00	-999.00	23.40	0.00	97.10	97.90	0.00	96.50	96.80	97.50	0.00	95.70	
11	27.30	0.00	-999.00	-999.00	26.40	0.00	97.20	97.60	0.00	96.60	96.90	97.60	0.00	95.70	
12	27.00	0.00	-999.00	-999.00	23.40	0.00	97.30	97.40	0.00	96.60	97.00	97.70	0.00	95.80	
13	26.10	0.00	-999.00	-999.00	23.40	0.00	97.40	98.50	0.00	96.80	97.10	97.90	0.00	95.80	
14	26.90	0.00	-999.00	-999.00	23.40	0.00	97.50	98.80	0.00	96.90	97.10	97.80	0.00	95.90	
15	26.70	0.00	-999.00	-999.00	23.70	0.00	97.70	97.70	0.00	97.00	97.30	97.50	0.00	96.00	
16	28.00	0.00	-999.00	-999.00	23.40	0.00	97.80	97.60	0.00	97.10	97.30	97.20	0.00	96.10	
17	27.10	0.00	-999.00	-999.00	23.70	0.00	97.60	97.60	0.00	97.10	97.30	97.10	0.00	96.10	
18	35.20	0.00	-999.00	-999.00	34.70	0.00	97.70	97.60	0.00	97.30	97.40	97.00	0.00	96.20	
19	37.50	0.00	-999.00	-999.00	35.50	0.00	97.70	99.10	0.00	97.30	97.40	97.00	0.00	96.40	
20	35.60	0.00	-999.00	-999.00	36.00	0.00	97.80	97.70	0.00	97.50	97.30	97.00	0.00	96.40	
21	33.90	0.00	-999.00	-999.00	35.40	0.00	97.80	97.60	0.00	97.30	97.50	97.00	0.00	96.50	
22	21.00	0.00	-999.00	-999.00	34.70	0.00	97.90	97.70	0.00	97.40	97.60	97.00	0.00	96.60	
23	0.40	0.00	-999.00	-999.00	18.60	0.00	97.90	97.70	0.00	97.50	97.60	97.10	0.00	96.70	
24	0.30	0.00	-999.00	-999.00	10.20	0.00	98.00	97.80	0.00	97.50	97.60	97.10	0.00	96.70	

20 DEC 2002

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

20 DEC 2002

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	LOWER GRANITE	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.		
1	1.50	0.00	106.30	-999.00	-999.00	-999.00	0.20	0.00	99.50	99.80	0.40	0.00	-999.00	-999.00	
2	1.60	0.00	106.20	-999.00	-999.00	-999.00	0.20	0.00	99.50	100.10	0.40	0.00	-999.00	-999.00	
3	1.50	0.00	106.10	-999.00	-999.00	-999.00	0.20	0.00	99.50	100.10	0.40	0.00	-999.00	-999.00	
4	1.60	0.00	106.10	-999.00	-999.00	-999.00	1.00	0.00	99.50	100.10	0.40	0.00	-999.00	-999.00	
5	1.50	0.00	106.20	-999.00	-999.00	-999.00	12.80	0.00	99.50	100.00	13.20	0.00	-999.00	-999.00	
6	1.60	0.00	106.10	-999.00	-999.00	-999.00	13.00	0.00	99.50	100.00	13.20	0.00	-999.00	-999.00	
7	1.60	0.00	106.00	-999.00	-999.00	-999.00	12.90	0.00	99.50	100.10	13.00	0.00	-999.00	-999.00	
8	1.50	0.00	105.70	-999.00	-999.00	-999.00	13.50	0.00	99.30	100.00	14.50	0.00	-999.00	-999.00	
9	1.60	0.00	105.60	-999.00	-999.00	-999.00	13.70	0.00	99.30	100.30	13.10	0.00	-999.00	-999.00	
10	1.50	0.00	106.10	-999.00	-999.00	-999.00	13.50	0.00	99.50	100.20	13.00	0.00	-999.00	-999.00	
11	1.60	0.00	106.50	-999.00	-999.00	-999.00	13.50	0.00	99.50	100.10	13.00	0.00	-999.00	-999.00	
12	1.50	0.00	106.70	-999.00	-999.00	-999.00	13.50	0.00	99.70	100.00	13.00	0.00	-999.00	-999.00	
13	1.60	0.00	106.90	-999.00	-999.00	-999.00	13.50	0.00	99.60	100.10	13.10	0.00	-999.00	-999.00	
14	1.50	0.00	106.90	-999.00	-999.00	-999.00	13.50	0.00	99.70	100.20	13.00	0.00	-999.00	-999.00	
15	1.60	0.00	106.90	-999.00	-999.00	-999.00	13.70	0.00	99.70	100.10	13.00	0.00	-999.00	-999.00	
16	1.50	0.00	106.50	-999.00	-999.00	-999.00	13.40	0.00	99.70	100.00	13.00	0.00	-999.00	-999.00	
17	1.60	0.00	106.50	-999.00	-999.00	-999.00	13.50	0.00	99.70	100.00	13.10	0.00	-999.00	-999.00	
18	1.50	0.00	106.30	-999.00	-999.00	-999.00	13.70	0.00	99.70	99.90	13.10	0.00	-999.00	-999.00	
19	1.60	0.00	106.10	-999.00	-999.00	-999.00	14.70	0.00	99.70	100.40	14.00	0.00	-999.00	-999.00	
20	1.50	0.00	105.80	-999.00	-999.00	-999.00	27.00	0.00	99.80	100.40	27.20	0.00	-999.00	-999.00	
21	1.60	0.00	105.80	-999.00	-999.00	-999.00	28.70	0.00	99.60	100.10	27.00	0.00	-999.00	-999.00	
22	1.50	0.00	105.70	-999.00	-999.00	-999.00	26.50	0.00	99.60	100.00	27.20	0.00	-999.00	-999.00	
23	1.50	0.00	105.80	-999.00	-999.00	-999.00	14.30	0.00	99.60	100.10	13.50	0.00	-999.00	-999.00	
24	1.60	0.00	105.90	-999.00	-999.00	-999.00	13.60	0.00	99.60	100.10	13.60	0.00	-999.00	-999.00	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB	WA TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB	GAS %SAT	
1	0.30	0.00	-999.00	-999.00	0.20	0.00	98.20	97.60	119.50	0.00	97.50	97.70	97.10	96.70	
2	0.30	0.00	-999.00	-999.00	0.20	0.00	98.00	97.60	130.00	0.00	97.50	97.70	97.10	96.60	
3	0.30	0.00	-999.00	-999.00	0.20	0.00	98.10	97.70	130.20	0.00	97.50	97.60	97.00	96.60	
4	0.30	0.00	-999.00	-999.00	0.80	0.00	98.10	97.60	133.10	0.00	97.50	97.50	97.10	96.70	
5	10.40	0.00	-999.00	-999.00	11.60	0.00	98.10	97.60	132.70	0.00	97.30	97.50	97.00	96.70	
6	13.30	0.00	-999.00	-999.00	11.80	0.00	98.10	97.60	133.50	0.00	97.30	97.50	96.90	96.70	
7	13.60	0.00	-999.00	-999.00	11.90	0.00	98.00	97.60	130.50	0.00	97.30	97.50	96.90	96.70	
8	13.50	0.00	-999.00	-999.00	12.10	0.00	98.00	97.70	129.70	0.00	97.40	97.50	97.00	96.70	
9	13.10	0.00	-999.00	-999.00	12.20	0.00	97.90	98.30	116.40	0.00	97.50	97.50	97.20	96.40	
10	13.10	0.00	-999.00	-999.00	12.20	0.00	97.90	98.30	98.80	0.00	97.50	97.50	97.20	96.50	
11	13.10	0.00	-999.00	-999.00	12.30	0.00	98.10	98.30	97.20	0.00	97.50	97.60	97.30	96.50	
12	13.30	0.00	-999.00	-999.00	12.10	0.00	98.20	98.40	97.50	0.00	97.70	97.70	97.40	96.50	
13	14.70	0.00	-999.00	-999.00	12.10	0.00	98.30	98.40	97.10	0.00	97.70	97.70	97.40	96.60	
14	13.40	0.00	-999.00	-999.00	12.10	0.00	98.30	98.50	96.40	0.00	97.70	97.70	97.40	96.60	
15	13.10	0.00	-999.00	-999.00	12.40	0.00	98.40	98.50	96.20	0.00	97.80	97.80	97.40	96.70	
16	13.10	0.00	-999.00	-999.00	12.30	0.00	98.20	98.50	96.40	0.00	97.80	97.80	97.40	96.80	
17	13.40	0.00	-999.00	-999.00	12.10	0.00	98.20	98.40	97.10	0.00	97.80	97.80	97.40	96.80	
18	13.20	0.00	-999.00	-999.00	12.30	0.00	98.30	98.50	115.80	0.00	97.90	97.90	97.40	96.80	
19	13.70	0.00	-999.00	-999.00	12.90	0.00	98.30	98.30	116.60	0.00	97.80	98.00	97.30	97.00	
20	27.30	0.00	-999.00	-999.00	23.30	0.00	98.30	98.20	116.60	0.00	97.90	98.00	97.30	97.00	
21	27.60	0.00	-999.00	-999.00	23.40	0.00	98.30	98.20	116.10	0.00	97.80	97.80	97.20	97.10	
22	27.30	0.00	-999.00	-999.00	22.50	0.00	98.30	98.10	105.10	0.00	97.80	97.90	97.30	97.20	
23	14.80	0.00	-999.00	-999.00	13.40	0.00	98.20	98.00	106.30	0.00	97.80	97.80	97.20	97.20	
24	13.80	0.00	-999.00	-999.00	11.70	0.00	98.20	97.90	104.10	0.00	97.80	97.80	97.30	97.20	

21 DEC 2002

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

21 DEC 2002

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	LOWER GRANITE	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.		
1	1.50	0.00	106.10	-999.00	-999.00	-999.00	13.90	0.00	99.50	100.10	13.70	0.00	-999.00	-999.00	
2	1.60	0.00	106.00	-999.00	-999.00	-999.00	13.60	0.00	99.60	100.10	15.20	0.00	-999.00	-999.00	
3	1.50	0.00	106.20	-999.00	-999.00	-999.00	13.60	0.00	99.60	100.00	13.70	0.00	-999.00	-999.00	
4	1.60	0.00	106.20	-999.00	-999.00	-999.00	13.60	0.00	99.40	99.80	13.70	0.00	-999.00	-999.00	
5	1.50	0.00	106.20	-999.00	-999.00	-999.00	13.60	0.00	99.40	99.70	13.70	0.00	-999.00	-999.00	
6	1.60	0.00	106.00	-999.00	-999.00	-999.00	13.90	0.00	99.30	99.60	13.70	0.00	-999.00	-999.00	
7	1.50	0.00	105.80	-999.00	-999.00	-999.00	17.40	0.00	99.30	99.60	19.70	0.00	-999.00	-999.00	
8	1.60	0.00	105.70	-999.00	-999.00	-999.00	17.70	0.00	99.20	99.50	19.50	0.00	-999.00	-999.00	
9	1.50	0.00	105.90	-999.00	-999.00	-999.00	17.70	0.00	99.10	99.70	19.50	0.00	-999.00	-999.00	
10	1.60	0.00	106.00	-999.00	-999.00	-999.00	17.90	0.00	99.20	99.30	19.60	0.00	-999.00	-999.00	
11	1.50	0.00	106.40	-999.00	-999.00	-999.00	18.10	0.00	99.10	99.30	19.50	0.00	-999.00	-999.00	
12	1.60	0.00	106.40	-999.00	-999.00	-999.00	17.80	0.00	99.00	99.40	19.50	0.00	-999.00	-999.00	
13	1.50	0.00	106.50	-999.00	-999.00	-999.00	17.80	0.00	99.00	99.30	19.50	0.00	-999.00	-999.00	
14	1.60	0.00	106.50	-999.00	-999.00	-999.00	17.70	0.00	98.90	99.20	19.60	0.00	-999.00	-999.00	
15	1.50	0.00	106.20	-999.00	-999.00	-999.00	17.90	0.00	98.80	99.00	19.60	0.00	-999.00	-999.00	
16	1.50	0.00	105.60	-999.00	-999.00	-999.00	18.10	0.00	98.60	98.80	19.60	0.00	-999.00	-999.00	
17	1.60	0.00	105.40	-999.00	-999.00	-999.00	18.40	0.00	98.60	98.70	19.70	0.00	-999.00	-999.00	
18	1.50	0.00	105.30	-999.00	-999.00	-999.00	18.20	0.00	98.60	98.70	19.80	0.00	-999.00	-999.00	
19	1.60	0.00	105.30	-999.00	-999.00	-999.00	17.70	0.00	98.50	98.60	19.80	0.00	-999.00	-999.00	
20	1.50	0.00	105.40	-999.00	-999.00	-999.00	18.00	0.00	98.50	98.60	19.70	0.00	-999.00	-999.00	
21	1.60	0.00	105.50	-999.00	-999.00	-999.00	18.70	0.00	98.40	98.60	19.70	0.00	-999.00	-999.00	
22	1.50	0.00	105.40	-999.00	-999.00	-999.00	18.40	0.00	98.40	98.50	19.60	0.00	-999.00	-999.00	
23	1.60	0.00	105.50	-999.00	-999.00	-999.00	18.10	0.00	98.30	98.50	19.60	0.00	-999.00	-999.00	
24	1.50	0.00	105.60	-999.00	-999.00	-999.00	12.00	0.00	98.30	98.40	0.20	0.00	-999.00	-999.00	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB	WA TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB	GAS % SAT	
1	13.80	0.00	-999.00	-999.00	13.10	0.00	98.30	97.90	0.00	97.80	97.80	97.20	0.00	97.20	
2	13.70	0.00	-999.00	-999.00	11.90	0.00	98.20	97.80	0.00	97.80	97.80	97.20	0.00	97.20	
3	13.60	0.00	-999.00	-999.00	11.70	0.00	98.20	97.90	0.00	97.80	97.80	97.20	0.00	97.10	
4	13.90	0.00	-999.00	-999.00	11.70	0.00	98.10	98.80	0.00	97.70	97.70	97.10	0.00	97.00	
5	13.70	0.00	-999.00	-999.00	11.80	0.00	98.00	98.40	0.00	97.50	97.60	97.00	0.00	96.90	
6	13.80	0.00	-999.00	-999.00	12.50	0.00	97.90	97.80	0.00	97.40	97.60	97.00	0.00	96.90	
7	17.80	0.00	-999.00	-999.00	19.20	0.00	97.80	97.70	0.00	97.30	97.50	96.90	0.00	96.80	
8	19.50	0.00	-999.00	-999.00	19.20	0.00	97.80	97.70	0.00	97.20	97.30	96.80	0.00	96.70	
9	18.30	0.00	-999.00	-999.00	19.30	0.00	97.70	97.70	0.00	97.10	97.20	96.70	0.00	96.60	
10	18.00	0.00	-999.00	-999.00	19.40	0.00	97.50	97.40	0.00	97.00	97.10	96.50	0.00	96.40	
11	18.00	0.00	-999.00	-999.00	19.30	0.00	97.50	97.40	0.00	96.90	97.00	96.60	0.00	96.30	
12	18.00	0.00	-999.00	-999.00	21.10	0.00	97.50	97.40	0.00	96.90	97.00	96.60	0.00	96.40	
13	19.90	0.00	-999.00	-999.00	19.30	0.00	97.50	97.50	0.00	96.80	96.90	96.50	0.00	96.40	
14	20.40	0.00	-999.00	-999.00	19.40	0.00	97.50	97.40	0.00	96.80	96.90	96.50	0.00	96.40	
15	20.10	0.00	-999.00	-999.00	19.50	0.00	97.40	97.30	0.00	96.70	96.80	96.30	0.00	96.10	
16	20.10	0.00	-999.00	-999.00	19.60	0.00	97.20	97.80	0.00	96.60	96.80	96.20	0.00	96.10	
17	20.10	0.00	-999.00	-999.00	19.20	0.00	97.30	97.10	0.00	96.60	96.70	96.20	0.00	96.20	
18	19.90	0.00	-999.00	-999.00	19.20	0.00	97.10	97.00	0.00	96.60	96.70	96.10	0.00	96.10	
19	20.20	0.00	-999.00	-999.00	19.30	0.00	97.10	96.90	0.00	96.50	96.60	96.20	0.00	96.10	
20	20.00	0.00	-999.00	-999.00	19.30	0.00	97.00	96.80	0.00	96.30	96.60	96.00	0.00	96.00	
21	19.90	0.00	-999.00	-999.00	19.70	0.00	97.00	96.70	0.00	96.30	96.50	96.00	0.00	96.00	
22	20.00	0.00	-999.00	-999.00	19.50	0.00	97.00	96.70	0.00	96.30	96.50	95.90	0.00	96.10	
23	20.30	0.00	-999.00	-999.00	20.90	0.00	96.90	96.70	0.00	96.20	96.40	95.80	0.00	96.00	
24	18.80	0.00	-999.00	-999.00	18.90	0.00	96.90	96.60	0.00	96.10	96.40	96.00	0.00	96.00	

22 DEC 2002

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

22 DEC 2002

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	LOWER GRANITE	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	LOWER GRANITE	LITTLE GOOSE
1	1.60	0.00	105.50	-999.00	-999.00	-999.00	0.10	0.00	98.10	98.30	0.20	0.00	-999.00	-999.00	-999.00
2	1.50	0.00	105.50	-999.00	-999.00	-999.00	0.10	0.00	98.00	98.20	0.20	0.00	-999.00	-999.00	-999.00
3	1.60	0.00	105.60	-999.00	-999.00	-999.00	0.10	0.00	98.00	98.10	0.20	0.00	-999.00	-999.00	-999.00
4	1.50	0.00	105.70	-999.00	-999.00	-999.00	0.10	0.00	98.00	98.10	0.20	0.00	-999.00	-999.00	-999.00
5	1.60	0.00	105.60	-999.00	-999.00	-999.00	0.10	0.00	97.90	98.10	0.20	0.00	-999.00	-999.00	-999.00
6	1.50	0.00	105.30	-999.00	-999.00	-999.00	11.60	0.00	97.90	98.30	0.20	0.00	-999.00	-999.00	-999.00
7	1.60	0.00	105.30	-999.00	-999.00	-999.00	12.20	0.00	97.90	98.70	11.80	0.00	-999.00	-999.00	-999.00
8	1.50	0.00	105.00	-999.00	-999.00	-999.00	20.60	0.00	97.80	98.50	20.10	0.00	-999.00	-999.00	-999.00
9	1.60	0.00	104.90	-999.00	-999.00	-999.00	20.90	0.00	97.70	98.10	20.40	0.00	-999.00	-999.00	-999.00
10	1.50	0.00	105.30	-999.00	-999.00	-999.00	20.80	0.00	97.80	98.10	20.30	0.00	-999.00	-999.00	-999.00
11	1.60	0.00	105.80	-999.00	-999.00	-999.00	20.90	0.00	97.80	98.00	20.30	0.00	-999.00	-999.00	-999.00
12	1.50	0.00	105.90	-999.00	-999.00	-999.00	21.30	0.00	97.80	98.10	20.30	0.00	-999.00	-999.00	-999.00
13	1.60	0.00	106.00	-999.00	-999.00	-999.00	20.90	0.00	98.00	98.00	20.40	0.00	-999.00	-999.00	-999.00
14	1.50	0.00	106.10	-999.00	-999.00	-999.00	20.90	0.00	97.90	98.30	20.40	0.00	-999.00	-999.00	-999.00
15	1.60	0.00	105.90	-999.00	-999.00	-999.00	20.90	0.00	97.90	98.20	20.40	0.00	-999.00	-999.00	-999.00
16	1.50	0.00	105.80	-999.00	-999.00	-999.00	20.90	0.00	97.70	98.00	20.20	0.00	-999.00	-999.00	-999.00
17	1.60	0.00	105.50	-999.00	-999.00	-999.00	21.20	0.00	97.70	98.00	20.20	0.00	-999.00	-999.00	-999.00
18	1.50	0.00	105.30	-999.00	-999.00	-999.00	24.90	0.00	97.60	98.00	24.80	0.00	-999.00	-999.00	-999.00
19	1.50	0.00	105.10	-999.00	-999.00	-999.00	24.70	0.00	97.60	97.90	24.60	0.00	-999.00	-999.00	-999.00
20	1.60	0.00	105.10	-999.00	-999.00	-999.00	24.50	0.00	97.50	97.80	24.60	0.00	-999.00	-999.00	-999.00
21	1.50	0.00	105.00	-999.00	-999.00	-999.00	24.50	0.00	97.50	97.80	24.60	0.00	-999.00	-999.00	-999.00
22	1.60	0.00	104.80	-999.00	-999.00	-999.00	24.20	0.00	97.50	97.80	24.60	0.00	-999.00	-999.00	-999.00
23	1.50	0.00	104.80	-999.00	-999.00	-999.00	25.70	0.00	97.50	98.20	24.60	0.00	-999.00	-999.00	-999.00
24	1.60	0.00	105.00	-999.00	-999.00	-999.00	13.70	0.00	97.50	98.10	13.60	0.00	-999.00	-999.00	-999.00

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB	WA TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB	WA TAILW.	PASCO
1	0.40	0.00	-999.00	-999.00	8.50	0.00	96.80	96.60	62.80	0.00	96.10	96.40	95.90	0.00	95.80
2	0.40	0.00	-999.00	-999.00	0.20	0.00	96.80	96.50	62.00	0.00	96.10	96.20	95.70	0.00	95.80
3	0.40	0.00	-999.00	-999.00	1.70	0.00	96.70	96.50	59.60	0.00	96.00	96.10	95.70	0.00	95.70
4	0.40	0.00	-999.00	-999.00	0.20	0.00	96.70	96.40	69.10	0.00	96.00	96.10	95.70	0.00	95.60
5	0.40	0.00	-999.00	-999.00	0.20	0.00	96.70	96.40	87.10	0.00	96.00	96.10	95.60	0.00	95.60
6	0.80	0.00	-999.00	-999.00	0.50	0.00	96.50	96.20	88.60	0.00	95.90	96.10	95.60	0.00	95.40
7	13.30	0.00	-999.00	-999.00	10.50	0.00	96.50	96.30	106.90	0.00	95.90	96.00	95.70	0.00	95.40
8	19.20	0.00	-999.00	-999.00	13.80	0.00	96.50	96.30	108.10	0.00	95.80	96.00	95.50	0.00	95.30
9	19.60	0.00	-999.00	-999.00	19.20	0.00	96.50	96.80	116.30	0.00	95.70	96.00	95.40	0.00	95.10
10	20.20	0.00	-999.00	-999.00	19.20	0.00	96.40	98.00	118.10	0.00	95.70	96.00	95.50	0.00	95.00
11	20.20	0.00	-999.00	-999.00	19.30	0.00	96.40	98.30	116.00	0.00	95.80	96.00	95.60	0.00	95.00
12	20.40	0.00	-999.00	-999.00	19.60	0.00	96.40	98.20	111.70	0.00	95.80	96.10	95.60	0.00	95.00
13	21.80	0.00	-999.00	-999.00	19.30	0.00	96.50	97.20	111.30	0.00	95.90	96.00	95.60	0.00	95.10
14	20.60	0.00	-999.00	-999.00	19.20	0.00	96.40	96.90	106.80	0.00	95.90	96.00	95.60	0.00	95.10
15	22.00	0.00	-999.00	-999.00	19.20	0.00	96.40	96.70	106.90	0.00	95.90	96.00	95.40	0.00	95.10
16	20.50	0.00	-999.00	-999.00	19.30	0.00	96.40	96.60	110.90	0.00	95.70	96.00	95.40	0.00	95.10
17	21.20	0.00	-999.00	-999.00	19.70	0.00	96.20	96.40	116.20	0.00	95.70	96.00	95.40	0.00	95.20
18	25.40	0.00	-999.00	-999.00	20.90	0.00	96.20	96.20	120.60	0.00	95.70	95.90	95.40	0.00	95.20
19	26.30	0.00	-999.00	-999.00	22.70	0.00	96.20	96.10	121.40	0.00	95.70	95.90	95.40	0.00	95.30
20	25.90	0.00	-999.00	-999.00	22.90	0.00	96.20	96.10	121.80	0.00	95.60	95.90	95.20	0.00	95.40
21	26.10	0.00	-999.00	-999.00	22.80	0.00	96.10	95.90	120.80	0.00	95.60	95.80	95.10	0.00	95.40
22	26.00	0.00	-999.00	-999.00	23.20	0.00	96.10	95.90	97.20	0.00	95.40	95.80	95.10	0.00	95.40
23	26.10	0.00	-999.00	-999.00	22.10	0.00	96.10	95.80	95.10	0.00	95.40	95.80	95.10	0.00	95.40
24	14.90	0.00	-999.00	-999.00	12.20	0.00	96.10	95.90	83.90	0.00	95.40	95.80	95.10	0.00	95.50

23 DEC 2002

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

23 DEC 2002

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.			
1	1.50	0.00	105.10	-999.00	-999.00	-999.00	0.40	0.00	97.50	97.90	6.30	0.00	-999.00	-999.00	
2	1.60	0.00	105.10	-999.00	-999.00	-999.00	0.10	0.00	97.50	97.90	0.20	0.00	-999.00	-999.00	
3	1.50	0.00	105.10	-999.00	-999.00	-999.00	0.10	0.00	97.50	97.80	0.20	0.00	-999.00	-999.00	
4	1.60	0.00	105.10	-999.00	-999.00	-999.00	0.10	0.00	97.50	97.90	0.20	0.00	-999.00	-999.00	
5	1.50	0.00	105.10	-999.00	-999.00	-999.00	0.10	0.00	97.50	97.90	0.20	0.00	-999.00	-999.00	
6	1.60	0.00	105.10	-999.00	-999.00	-999.00	0.30	0.00	97.50	97.90	0.20	0.00	-999.00	-999.00	
7	1.50	0.00	105.10	-999.00	-999.00	-999.00	13.20	0.00	97.50	98.10	13.90	0.00	-999.00	-999.00	
8	1.60	0.00	104.40	-999.00	-999.00	-999.00	13.80	0.00	97.50	98.50	13.70	0.00	-999.00	-999.00	
9	1.50	0.00	103.70	-999.00	-999.00	-999.00	13.50	0.00	97.50	98.50	13.60	0.00	-999.00	-999.00	
10	1.50	0.00	103.50	-999.00	-999.00	-999.00	13.60	0.00	97.50	98.30	13.60	0.00	-999.00	-999.00	
11	1.50	0.00	103.70	-999.00	-999.00	-999.00	13.50	0.00	97.60	98.20	13.50	0.00	-999.00	-999.00	
12	1.50	0.00	103.70	-999.00	-999.00	-999.00	13.50	0.00	97.70	98.20	13.50	0.00	-999.00	-999.00	
13	1.50	0.00	103.90	-999.00	-999.00	-999.00	13.80	0.00	97.80	98.30	13.50	0.00	-999.00	-999.00	
14	1.50	0.00	104.20	-999.00	-999.00	-999.00	13.50	0.00	97.90	98.20	13.50	0.00	-999.00	-999.00	
15	1.50	0.00	104.10	-999.00	-999.00	-999.00	13.50	0.00	97.80	98.20	13.70	0.00	-999.00	-999.00	
16	1.60	0.00	103.80	-999.00	-999.00	-999.00	13.50	0.00	97.80	98.10	13.90	0.00	-999.00	-999.00	
17	1.50	0.00	103.50	-999.00	-999.00	-999.00	14.20	0.00	97.80	98.10	13.90	0.00	-999.00	-999.00	
18	1.60	0.00	103.20	-999.00	-999.00	-999.00	35.20	0.00	97.90	98.40	32.80	0.00	-999.00	-999.00	
19	1.50	0.00	103.10	-999.00	-999.00	-999.00	38.50	0.00	97.80	98.40	35.90	0.00	-999.00	-999.00	
20	1.50	0.00	103.30	-999.00	-999.00	-999.00	34.40	0.00	97.80	98.70	36.20	0.00	-999.00	-999.00	
21	1.50	0.00	103.20	-999.00	-999.00	-999.00	34.70	0.00	97.90	98.90	36.00	0.00	-999.00	-999.00	
22	1.50	0.00	103.30	-999.00	-999.00	-999.00	34.00	0.00	97.90	98.30	36.00	0.00	-999.00	-999.00	
23	1.50	0.00	103.40	-999.00	-999.00	-999.00	15.70	0.00	97.90	98.30	15.20	0.00	-999.00	-999.00	
24	1.50	0.00	103.40	-999.00	-999.00	-999.00	14.70	0.00	97.80	98.10	15.10	0.00	-999.00	-999.00	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.			
1	13.20	0.00	-999.00	-999.00	10.40	0.00	96.10	95.90	83.90	0.00	95.50	95.80	95.10	:	95.60
2	0.30	0.00	-999.00	-999.00	0.30	0.00	96.10	95.80	105.00	0.00	95.40	95.80	95.00	:	95.60
3	0.30	0.00	-999.00	-999.00	0.30	0.00	96.00	95.60	104.60	0.00	95.20	95.60	95.00	:	95.50
4	0.30	0.00	-999.00	-999.00	0.30	0.00	96.10	95.70	105.80	0.00	95.20	95.80	95.00	:	95.60
5	0.30	0.00	-999.00	-999.00	0.30	0.00	96.10	95.60	107.50	0.00	95.30	95.80	95.10	:	95.60
6	0.80	0.00	-999.00	-999.00	1.10	0.00	96.10	95.70	117.00	0.00	95.30	95.80	95.10	:	95.60
7	13.80	0.00	-999.00	-999.00	11.50	0.00	96.10	95.70	121.80	0.00	95.30	95.70	95.10	:	95.60
8	14.10	0.00	-999.00	-999.00	12.60	0.00	96.10	95.90	122.60	0.00	95.30	95.70	95.00	:	95.70
9	14.10	0.00	-999.00	-999.00	14.70	0.00	96.10	96.00	122.40	0.00	95.20	95.70	95.00	:	95.60
10	14.40	0.00	-999.00	-999.00	17.40	0.00	96.10	96.60	122.10	0.00	95.30	95.70	95.10	:	95.60
11	14.10	0.00	-999.00	-999.00	17.50	0.00	96.20	96.70	120.70	0.00	95.40	95.80	95.20	:	95.70
12	14.10	0.00	-999.00	-999.00	17.50	0.00	96.20	96.90	107.40	0.00	95.40	95.90	95.20	:	95.90
13	14.10	0.00	-999.00	-999.00	17.80	0.00	96.30	96.70	106.40	0.00	95.50	95.90	95.40	:	96.00
14	14.10	0.00	-999.00	-999.00	17.50	0.00	96.30	96.70	106.60	0.00	95.50	95.90	95.40	:	96.00
15	14.10	0.00	-999.00	-999.00	17.50	0.00	96.40	96.50	105.20	0.00	95.50	95.90	95.50	:	96.00
16	14.20	0.00	-999.00	-999.00	17.60	0.00	96.20	96.50	104.40	0.00	95.60	95.80	95.40	:	96.20
17	14.80	0.00	-999.00	-999.00	17.90	0.00	96.20	96.40	104.40	0.00	95.60	95.80	95.30	:	96.10
18	33.10	0.00	-999.00	-999.00	26.00	0.00	96.30	96.30	111.40	0.00	95.60	95.80	95.30	:	96.20
19	35.00	0.00	-999.00	-999.00	24.70	0.00	96.30	96.30	112.00	0.00	95.50	95.80	95.20	:	96.20
20	34.40	0.00	-999.00	-999.00	24.60	0.00	96.30	97.20	126.60	0.00	95.50	95.80	95.30	:	96.30
21	34.90	0.00	-999.00	-999.00	24.50	0.00	96.50	96.40	127.00	0.00	95.50	95.90	95.30	:	96.40
22	33.50	0.00	-999.00	-999.00	23.20	0.00	96.50	96.30	124.20	0.00	95.40	96.00	95.30	:	96.50
23	16.40	0.00	-999.00	-999.00	12.30	0.00	96.50	96.20	93.10	0.00	95.50	95.90	95.20	:	96.50
24	14.90	0.00	-999.00	-999.00	11.70	0.00	96.50	96.30	91.30	0.00	95.50	96.10	95.20	:	96.50

24 DEC 2002

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

24 DEC 2002

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.			
1	1.50	0.00	103.40	-999.00	-999.00	-999.00	1.80	0.00	97.90	35010.70	0.20	0.00	-999.00	-999.00	
2	1.50	0.00	103.40	-999.00	-999.00	-999.00	0.10	0.00	97.90	98.20	0.20	0.00	-999.00	-999.00	
3	1.60	0.00	103.40	-999.00	-999.00	-999.00	0.10	0.00	98.00	98.20	0.20	0.00	-999.00	-999.00	
4	1.50	0.00	103.30	-999.00	-999.00	-999.00	0.10	0.00	98.00	98.20	0.20	0.00	-999.00	-999.00	
5	1.60	0.00	103.10	-999.00	-999.00	-999.00	0.10	0.00	97.90	98.20	0.20	0.00	-999.00	-999.00	
6	1.50	0.00	103.00	-999.00	-999.00	-999.00	1.00	0.00	97.90	98.20	0.20	0.00	-999.00	-999.00	
7	1.50	0.00	103.10	-999.00	-999.00	-999.00	14.30	0.00	97.90	98.30	15.20	0.00	-999.00	-999.00	
8	1.50	0.00	103.30	-999.00	-999.00	-999.00	16.80	0.00	97.80	98.40	12.10	0.00	-999.00	-999.00	
9	1.50	0.00	103.40	-999.00	-999.00	-999.00	17.20	0.00	97.80	98.30	13.50	0.00	-999.00	-999.00	
10	1.50	0.00	103.80	-999.00	-999.00	-999.00	22.60	0.00	97.80	98.30	14.90	0.00	-999.00	-999.00	
11	1.50	0.00	103.80	-999.00	-999.00	-999.00	22.20	0.00	98.00	98.20	14.80	0.00	-999.00	-999.00	
12	1.50	0.00	103.90	-999.00	-999.00	-999.00	22.30	0.00	98.10	98.20	19.20	0.00	-999.00	-999.00	
13	1.50	0.00	104.10	-999.00	-999.00	-999.00	22.10	0.00	98.00	98.20	20.00	0.00	-999.00	-999.00	
14	1.50	0.00	104.20	-999.00	-999.00	-999.00	14.70	0.00	97.90	98.30	20.10	0.00	-999.00	-999.00	
15	1.50	0.00	104.10	-999.00	-999.00	-999.00	17.10	0.00	97.90	98.20	20.00	0.00	-999.00	-999.00	
16	1.50	0.00	103.90	-999.00	-999.00	-999.00	17.20	0.00	97.90	98.20	20.20	0.00	-999.00	-999.00	
17	1.50	0.00	103.50	-999.00	-999.00	-999.00	24.00	0.00	97.90	98.30	20.30	0.00	-999.00	-999.00	
18	1.50	0.00	103.10	-999.00	-999.00	-999.00	22.40	0.00	97.70	98.70	20.20	0.00	-999.00	-999.00	
19	1.50	0.00	103.00	-999.00	-999.00	-999.00	22.40	0.00	97.70	98.10	20.30	0.00	-999.00	-999.00	
20	1.60	0.00	103.20	-999.00	-999.00	-999.00	26.20	0.00	97.70	98.00	27.60	0.00	-999.00	-999.00	
21	1.50	0.00	103.30	-999.00	-999.00	-999.00	26.20	0.00	97.60	97.90	28.80	0.00	-999.00	-999.00	
22	1.60	0.00	103.10	-999.00	-999.00	-999.00	26.10	0.00	97.40	97.90	27.20	0.00	-999.00	-999.00	
23	1.50	0.00	103.10	-999.00	-999.00	-999.00	25.80	0.00	97.40	97.70	27.40	0.00	-999.00	-999.00	
24	1.60	0.00	103.00	-999.00	-999.00	-999.00	14.10	0.00	97.40	97.90	27.20	0.00	-999.00	-999.00	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.			
1	13.90	0.00	-999.00	-999.00	9.00	0.00	96.30	96.30	91.80	0.00	95.60	95.90	95.30		96.50
2	0.30	0.00	-999.00	-999.00	8.90	0.00	96.30	96.20	91.60	0.00	95.50	95.90	95.20		96.50
3	0.30	0.00	-999.00	-999.00	8.80	0.00	96.30	96.20	92.00	0.00	95.60	95.90	95.20		96.50
4	1.80	0.00	-999.00	-999.00	9.00	0.00	96.40	96.40	103.60	0.00	95.40	95.90	95.30		96.60
5	0.30	0.00	-999.00	-999.00	8.80	0.00	96.40	96.40	104.80	0.00	95.40	96.00	95.30		96.60
6	0.80	0.00	-999.00	-999.00	9.00	0.00	96.50	96.40	114.00	0.00	95.40	95.80	95.40		96.60
7	15.20	0.00	-999.00	-999.00	12.00	0.00	96.40	96.40	116.80	0.00	95.50	95.90	95.40		96.60
8	17.40	0.00	-999.00	-999.00	13.40	0.00	96.50	96.40	117.60	0.00	95.40	95.80	95.20		96.50
9	15.60	0.00	-999.00	-999.00	12.20	0.00	96.30	96.50	117.60	0.00	95.30	95.60	95.20		96.50
10	19.60	0.00	-999.00	-999.00	19.50	0.00	96.30	96.50	116.90	0.00	95.40	95.60	95.30		96.40
11	19.80	0.00	-999.00	-999.00	19.60	0.00	96.40	97.10	116.20	0.00	95.40	95.60	95.30		96.50
12	14.40	0.00	-999.00	-999.00	19.90	0.00	96.40	97.10	99.60	0.00	95.50	95.80	95.30		96.40
13	14.50	0.00	-999.00	-999.00	19.50	0.00	96.40	96.60	96.20	0.00	95.50	95.60	95.30		96.40
14	19.80	0.00	-999.00	-999.00	19.10	0.00	96.30	96.50	97.30	0.00	95.50	95.60	95.30		96.40
15	20.10	0.00	-999.00	-999.00	19.20	0.00	96.30	96.30	117.10	0.00	95.60	95.60	95.20		96.40
16	20.20	0.00	-999.00	-999.00	17.70	0.00	96.30	96.30	118.10	0.00	95.60	95.60	95.20		96.30
17	20.20	0.00	-999.00	-999.00	18.10	0.00	96.30	96.20	118.70	0.00	95.60	95.60	95.10		96.40
18	21.30	0.00	-999.00	-999.00	19.50	0.00	96.30	97.40	127.10	0.00	95.60	95.60	95.20		96.30
19	21.70	0.00	-999.00	-999.00	20.30	0.00	96.30	96.30	127.50	0.00	95.40	95.60	95.20		96.20
20	32.30	0.00	-999.00	-999.00	30.00	0.00	96.20	96.10	126.50	0.00	95.40	95.70	95.10		96.20
21	32.80	0.00	-999.00	-999.00	30.50	0.00	96.20	96.40	96.30	0.00	95.30	95.60	95.00		96.10
22	32.70	0.00	-999.00	-999.00	31.00	0.00	96.00	96.00	94.50	0.00	95.30	95.60	95.00		95.90
23	32.90	0.00	-999.00	-999.00	30.70	0.00	96.00	95.90	94.40	0.00	95.30	95.60	95.00		95.90
24	36.30	0.00	-999.00	-999.00	35.00	0.00	96.10	95.80	93.80	0.00	95.50	95.60	95.10		96.00

25 DEC 2002

WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT

25 DEC 2002

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.			
1	1.50	0.00	103.00	-999.00	-999.00	-999.00	0.10	0.00	97.40	97.80	0.20	0.00	-999.00	-999.00	
2	1.60	0.00	103.00	-999.00	-999.00	-999.00	0.10	0.00	97.40	98.00	0.20	0.00	-999.00	-999.00	
3	1.50	0.00	103.00	-999.00	-999.00	-999.00	0.10	0.00	97.40	97.80	0.20	0.00	-999.00	-999.00	
4	1.60	0.00	103.00	-999.00	-999.00	-999.00	0.10	0.00	97.50	97.90	0.20	0.00	-999.00	-999.00	
5	1.50	0.00	103.00	-999.00	-999.00	-999.00	0.10	0.00	97.40	97.70	0.20	0.00	-999.00	-999.00	
6	1.60	0.00	103.00	-999.00	-999.00	-999.00	1.20	0.00	97.40	97.80	0.20	0.00	-999.00	-999.00	
7	1.50	0.00	103.00	-999.00	-999.00	-999.00	17.00	0.00	97.30	98.10	15.40	0.00	-999.00	-999.00	
8	1.50	0.00	103.00	-999.00	-999.00	-999.00	20.50	0.00	97.20	97.90	16.40	0.00	-999.00	-999.00	
9	1.60	0.00	103.30	-999.00	-999.00	-999.00	20.40	0.00	97.20	97.80	20.00	0.00	-999.00	-999.00	
10	1.50	0.00	103.50	-999.00	-999.00	-999.00	20.60	0.00	97.30	97.80	21.10	0.00	-999.00	-999.00	
11	1.60	0.00	103.80	-999.00	-999.00	-999.00	21.00	0.00	97.30	97.80	21.10	0.00	-999.00	-999.00	
12	1.60	0.00	104.00	-999.00	-999.00	-999.00	20.50	0.00	97.50	97.90	21.00	0.00	-999.00	-999.00	
13	1.50	0.00	104.00	-999.00	-999.00	-999.00	20.60	0.00	97.50	97.80	21.10	0.00	-999.00	-999.00	
14	1.60	0.00	104.10	-999.00	-999.00	-999.00	20.70	0.00	97.40	97.90	21.00	0.00	-999.00	-999.00	
15	1.50	0.00	103.80	-999.00	-999.00	-999.00	20.60	0.00	97.40	97.90	20.90	0.00	-999.00	-999.00	
16	1.60	0.00	103.60	-999.00	-999.00	-999.00	21.10	0.00	97.50	97.80	21.40	0.00	-999.00	-999.00	
17	1.50	0.00	103.40	-999.00	-999.00	-999.00	20.70	0.00	97.50	97.80	21.40	0.00	-999.00	-999.00	
18	1.50	0.00	103.30	-999.00	-999.00	-999.00	20.60	0.00	97.70	97.90	21.40	0.00	-999.00	-999.00	
19	1.60	0.00	103.30	-999.00	-999.00	-999.00	20.70	0.00	97.50	97.90	21.30	0.00	-999.00	-999.00	
20	1.50	0.00	103.30	-999.00	-999.00	-999.00	20.80	0.00	97.50	97.90	21.30	0.00	-999.00	-999.00	
21	1.60	0.00	103.40	-999.00	-999.00	-999.00	25.60	0.00	97.50	98.00	27.60	0.00	-999.00	-999.00	
22	1.50	0.00	103.40	-999.00	-999.00	-999.00	26.40	0.00	97.70	97.90	27.50	0.00	-999.00	-999.00	
23	1.60	0.00	103.40	-999.00	-999.00	-999.00	25.50	0.00	97.80	98.00	27.50	0.00	-999.00	-999.00	
24	1.50	0.00	103.40	-999.00	-999.00	-999.00	13.70	0.00	97.70	98.30	18.70	0.00	-999.00	-999.00	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL OR FB	GAS %SAT. WA FB	TAILW.	GAS % SAT	
1	21.70	0.00	-999.00	-999.00	34.70	0.00	96.10	95.80	93.70	0.00	95.40	95.70	95.20	96.00	
2	0.40	0.00	-999.00	-999.00	20.20	0.00	96.10	95.80	92.20	0.00	95.50	95.60	95.20	95.90	
3	0.40	0.00	-999.00	-999.00	11.40	0.00	96.00	95.80	91.70	0.00	95.50	95.60	95.20	96.00	
4	0.40	0.00	-999.00	-999.00	0.20	0.00	96.10	95.70	92.50	0.00	95.50	95.60	95.30	96.00	
5	0.40	0.00	-999.00	-999.00	0.20	0.00	96.10	95.60	131.60	0.00	95.60	95.70	95.40	96.00	
6	1.30	0.00	-999.00	-999.00	1.40	0.00	96.10	95.50	134.70	0.00	95.50	95.70	95.30	95.90	
7	13.80	0.00	-999.00	-999.00	10.30	0.00	96.10	95.80	120.40	0.00	95.60	95.70	95.40	95.90	
8	14.10	0.00	-999.00	-999.00	10.80	0.00	96.10	95.80	119.90	0.00	95.60	95.70	95.30	96.10	
9	16.30	0.00	-999.00	-999.00	11.60	0.00	96.10	95.80	119.10	0.00	95.50	95.80	95.40	96.10	
10	18.00	0.00	-999.00	-999.00	11.70	0.00	96.20	96.10	119.20	0.00	95.50	95.70	95.40	96.10	
11	19.50	0.00	-999.00	-999.00	11.60	0.00	96.20	97.60	119.00	0.00	95.60	96.00	95.50	96.20	
12	20.00	0.00	-999.00	-999.00	11.60	0.00	96.30	97.30	108.50	0.00	95.70	95.90	95.70	96.20	
13	19.40	0.00	-999.00	-999.00	11.90	0.00	96.40	97.00	103.60	0.00	95.90	96.00	95.80	96.30	
14	19.40	0.00	-999.00	-999.00	12.70	0.00	96.40	97.00	102.10	0.00	96.10	96.20	95.70	96.40	
15	19.20	0.00	-999.00	-999.00	20.50	0.00	96.40	96.90	102.20	0.00	96.10	96.20	95.80	96.40	
16	19.10	0.00	-999.00	-999.00	19.40	0.00	96.40	96.80	102.40	0.00	96.10	96.20	95.80	96.40	
17	19.00	0.00	-999.00	-999.00	21.10	0.00	96.40	96.80	103.10	0.00	96.10	96.20	95.70	96.40	
18	19.30	0.00	-999.00	-999.00	20.90	0.00	96.50	97.40	106.80	0.00	96.20	96.30	95.70	96.50	
19	19.00	0.00	-999.00	-999.00	20.90	0.00	96.50	96.60	106.90	0.00	96.00	96.30	95.70	96.50	
20	20.50	0.00	-999.00	-999.00	20.90	0.00	96.50	96.40	106.70	0.00	96.20	96.40	95.80	96.60	
21	21.20	0.00	-999.00	-999.00	23.30	0.00	96.60	96.40	106.40	0.00	96.20	96.50	95.90	96.60	
22	26.20	0.00	-999.00	-999.00	26.50	0.00	96.50	96.40	95.20	0.00	96.20	96.50	95.90	96.70	
23	27.00	0.00	-999.00	-999.00	25.90	0.00	96.50	96.40	94.60	0.00	96.20	96.50	95.90	96.70	
24	21.50	0.00	-999.00	-999.00	19.90	0.00	96.60	96.50	94.10	0.00	96.30	96.60	96.00	96.80	

26 DEC 2002

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

26 DEC 2002

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	LOWER GRANITE	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.		
1	1.60	0.00	103.40	-999.00	-999.00	-999.00	0.10	0.00	97.80	98.30	0.20	0.00	-999.00	-999.00	
2	1.50	0.00	103.40	-999.00	-999.00	-999.00	0.10	0.00	97.80	98.50	0.20	0.00	-999.00	-999.00	
3	1.60	0.00	103.50	-999.00	-999.00	-999.00	0.10	0.00	97.80	98.40	0.20	0.00	-999.00	-999.00	
4	1.60	0.00	103.60	-999.00	-999.00	-999.00	0.10	0.00	97.80	98.40	0.20	0.00	-999.00	-999.00	
5	1.50	0.00	103.60	-999.00	-999.00	-999.00	0.10	0.00	97.90	98.40	0.20	0.00	-999.00	-999.00	
6	1.50	0.00	103.60	-999.00	-999.00	-999.00	1.20	0.00	97.90	98.40	0.20	0.00	-999.00	-999.00	
7	1.60	0.00	103.40	-999.00	-999.00	-999.00	13.20	0.00	97.90	98.60	16.60	0.00	-999.00	-999.00	
8	1.50	0.00	103.40	-999.00	-999.00	-999.00	13.90	0.00	97.90	98.60	16.70	0.00	-999.00	-999.00	
9	1.50	0.00	103.40	-999.00	-999.00	-999.00	18.00	0.00	97.80	98.30	18.70	0.00	-999.00	-999.00	
10	1.60	0.00	103.70	-999.00	-999.00	-999.00	18.30	0.00	97.70	98.20	18.80	0.00	-999.00	-999.00	
11	1.50	0.00	104.00	-999.00	-999.00	-999.00	18.30	0.00	97.80	98.20	18.70	0.00	-999.00	-999.00	
12	1.50	0.00	104.20	-999.00	-999.00	-999.00	18.40	0.00	97.90	98.10	18.60	0.00	-999.00	-999.00	
13	1.60	0.00	104.20	-999.00	-999.00	-999.00	18.80	0.00	97.70	98.20	18.60	0.00	-999.00	-999.00	
14	1.50	0.00	104.10	-999.00	-999.00	-999.00	18.50	0.00	97.90	98.20	18.90	0.00	-999.00	-999.00	
15	1.50	0.00	103.90	-999.00	-999.00	-999.00	18.60	0.00	97.80	98.20	18.90	0.00	-999.00	-999.00	
16	1.60	0.00	103.80	-999.00	-999.00	-999.00	19.00	0.00	97.60	98.10	19.50	0.00	-999.00	-999.00	
17	1.50	0.00	103.70	-999.00	-999.00	-999.00	34.50	0.00	97.70	98.50	37.90	0.00	-999.00	-999.00	
18	1.50	0.00	103.60	-999.00	-999.00	-999.00	37.60	0.00	97.70	98.30	37.70	0.00	-999.00	-999.00	
19	1.60	0.00	103.50	-999.00	-999.00	-999.00	36.80	0.00	97.50	98.10	37.80	0.00	-999.00	-999.00	
20	1.50	0.00	103.50	-999.00	-999.00	-999.00	38.40	0.00	97.50	98.10	37.60	0.00	-999.00	-999.00	
21	1.50	0.00	103.50	-999.00	-999.00	-999.00	27.90	0.00	97.50	98.20	27.50	0.00	-999.00	-999.00	
22	1.50	0.00	103.50	-999.00	-999.00	-999.00	27.00	0.00	97.60	98.10	28.90	0.00	-999.00	-999.00	
23	1.60	0.00	103.60	-999.00	-999.00	-999.00	16.90	0.00	97.70	98.70	27.50	0.00	-999.00	-999.00	
24	1.50	0.00	103.70	-999.00	-999.00	-999.00	0.10	0.00	97.60	98.30	13.80	0.00	-999.00	-999.00	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB	WA TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB	GAS % SAT	
1	12.50	0.00	-999.00	-999.00	17.20	0.00	96.70	96.60	0.00	96.40	96.70	96.00	0.00	96.90	
2	0.40	0.00	-999.00	-999.00	1.10	0.00	96.80	96.50	0.00	96.60	96.70	96.20	0.00	97.00	
3	0.40	0.00	-999.00	-999.00	0.20	0.00	96.90	96.50	0.00	96.50	96.70	96.10	0.00	97.00	
4	0.40	0.00	-999.00	-999.00	0.20	0.00	96.90	96.50	0.00	96.50	96.70	96.20	0.00	97.00	
5	0.40	0.00	-999.00	-999.00	0.20	0.00	96.90	96.50	0.00	96.50	96.70	96.10	0.00	97.00	
6	2.30	0.00	-999.00	-999.00	1.20	0.00	96.90	96.50	0.00	96.50	96.70	96.20	0.00	97.00	
7	13.40	0.00	-999.00	-999.00	10.30	0.00	96.90	96.70	0.00	96.50	96.70	96.10	0.00	97.00	
8	13.80	0.00	-999.00	-999.00	10.70	0.00	96.70	96.60	0.00	96.30	96.60	96.00	0.00	96.80	
9	18.70	0.00	-999.00	-999.00	12.20	0.00	96.60	96.50	0.00	96.20	96.50	95.90	0.00	96.70	
10	19.50	0.00	-999.00	-999.00	12.30	0.00	96.70	96.60	0.00	96.20	96.50	96.00	0.00	96.70	
11	19.00	0.00	-999.00	-999.00	12.30	0.00	96.70	97.50	0.00	96.20	96.50	96.00	0.00	96.60	
12	19.00	0.00	-999.00	-999.00	12.50	0.00	96.80	97.60	0.00	96.30	96.60	96.30	0.00	96.70	
13	19.00	0.00	-999.00	-999.00	12.30	0.00	96.80	97.30	0.00	96.40	96.60	96.30	0.00	96.80	
14	19.00	0.00	-999.00	-999.00	12.30	0.00	96.80	97.40	0.00	96.40	96.80	96.30	0.00	96.70	
15	19.30	0.00	-999.00	-999.00	12.80	0.00	96.80	97.20	0.00	96.30	96.70	96.30	0.00	96.80	
16	19.90	0.00	-999.00	-999.00	27.30	0.00	96.70	97.10	0.00	96.50	96.70	96.20	0.00	96.90	
17	36.70	0.00	-999.00	-999.00	41.40	0.00	96.70	97.00	0.00	96.40	96.60	96.10	0.00	96.90	
18	37.50	0.00	-999.00	-999.00	43.30	0.00	96.70	96.90	0.00	96.40	96.60	96.10	0.00	97.00	
19	37.30	0.00	-999.00	-999.00	42.30	0.00	96.70	96.60	0.00	96.40	96.70	96.20	0.00	97.10	
20	38.70	0.00	-999.00	-999.00	38.50	0.00	96.70	96.50	0.00	96.40	96.70	96.20	0.00	97.20	
21	35.50	0.00	-999.00	-999.00	38.00	0.00	96.80	96.50	0.00	96.50	96.80	96.30	0.00	97.20	
22	28.00	0.00	-999.00	-999.00	33.40	0.00	96.90	96.60	0.00	96.60	96.90	96.50	0.00	97.30	
23	27.10	0.00	-999.00	-999.00	27.80	0.00	97.00	96.70	0.00	96.90	97.00	96.50	0.00	97.60	
24	27.00	0.00	-999.00	-999.00	27.00	0.00	97.00	96.70	0.00	97.10	97.10	96.70	0.00	97.60	

27 DEC 2002

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

27 DEC 2002

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	LOWER GRANITE	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.		
1	1.50	0.00	103.70	-999.00	-999.00	-999.00	0.10	0.00	97.60	98.50	0.20	0.00	-999.00	-999.00	
2	1.60	0.00	103.60	-999.00	-999.00	-999.00	0.10	0.00	97.70	98.70	1.60	0.00	-999.00	-999.00	
3	1.50	0.00	103.70	-999.00	-999.00	-999.00	0.10	0.00	97.80	98.70	0.20	0.00	-999.00	-999.00	
4	1.50	0.00	103.80	-999.00	-999.00	-999.00	0.10	0.00	98.00	98.80	0.20	0.00	-999.00	-999.00	
5	1.60	0.00	103.90	-999.00	-999.00	-999.00	0.10	0.00	98.10	99.10	0.20	0.00	-999.00	-999.00	
6	1.50	0.00	104.40	-999.00	-999.00	-999.00	1.40	0.00	98.40	99.30	0.20	0.00	-999.00	-999.00	
7	1.50	0.00	104.80	-999.00	-999.00	-999.00	16.40	0.00	98.40	99.40	17.40	0.00	-999.00	-999.00	
8	1.60	0.00	104.90	-999.00	-999.00	-999.00	18.90	0.00	98.40	99.10	19.40	0.00	-999.00	-999.00	
9	1.50	0.00	105.00	-999.00	-999.00	-999.00	19.30	0.00	98.30	98.90	19.80	0.00	-999.00	-999.00	
10	1.50	0.00	105.20	-999.00	-999.00	-999.00	20.40	0.00	98.30	98.80	19.70	0.00	-999.00	-999.00	
11	1.60	0.00	105.40	-999.00	-999.00	-999.00	20.40	0.00	98.10	98.60	19.70	0.00	-999.00	-999.00	
12	1.50	0.00	105.70	-999.00	-999.00	-999.00	20.40	0.00	98.00	98.40	19.60	0.00	-999.00	-999.00	
13	1.50	0.00	105.40	-999.00	-999.00	-999.00	20.60	0.00	97.90	98.20	19.50	0.00	-999.00	-999.00	
14	1.60	0.00	105.30	-999.00	-999.00	-999.00	20.80	0.00	97.90	98.20	19.70	0.00	-999.00	-999.00	
15	1.50	0.00	105.30	-999.00	-999.00	-999.00	20.40	0.00	97.80	98.20	19.70	0.00	-999.00	-999.00	
16	1.60	0.00	105.10	-999.00	-999.00	-999.00	20.60	0.00	97.80	98.10	19.90	0.00	-999.00	-999.00	
17	1.50	0.00	104.90	-999.00	-999.00	-999.00	20.50	0.00	97.60	98.00	19.90	0.00	-999.00	-999.00	
18	1.50	0.00	104.90	-999.00	-999.00	-999.00	20.60	0.00	97.60	97.90	19.90	0.00	-999.00	-999.00	
19	1.60	0.00	104.80	-999.00	-999.00	-999.00	20.60	0.00	97.50	97.80	20.00	0.00	-999.00	-999.00	
20	1.50	0.00	104.70	-999.00	-999.00	-999.00	22.60	0.00	97.40	98.40	20.00	0.00	-999.00	-999.00	
21	1.50	0.00	104.60	-999.00	-999.00	-999.00	20.60	0.00	97.40	97.80	20.10	0.00	-999.00	-999.00	
22	1.60	0.00	104.50	-999.00	-999.00	-999.00	19.80	0.00	97.20	97.70	18.30	0.00	-999.00	-999.00	
23	1.50	0.00	104.60	-999.00	-999.00	-999.00	2.40	0.00	97.20	97.70	13.90	0.00	-999.00	-999.00	
24	1.50	0.00	104.60	-999.00	-999.00	-999.00	0.10	0.00	97.20	97.80	0.20	0.00	-999.00	-999.00	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	MCNARY	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	PASCO	
1	13.60	0.00	-999.00	-999.00	12.40	0.00	97.10	97.00	0.00	97.20	97.40	96.80	0.00	97.70	
2	0.40	0.00	-999.00	-999.00	0.40	0.00	97.20	97.00	87.70	0.00	97.40	97.40	96.80	0.00	97.80
3	0.40	0.00	-999.00	-999.00	0.30	0.00	97.30	97.10	84.20	0.00	97.50	97.50	96.90	0.00	97.90
4	0.40	0.00	-999.00	-999.00	0.30	0.00	97.40	97.20	85.60	0.00	97.50	97.60	97.00	0.00	98.00
5	0.40	0.00	-999.00	-999.00	0.30	0.00	97.50	97.10	104.90	0.00	97.50	97.80	97.20	0.00	98.10
6	1.40	0.00	-999.00	-999.00	0.30	0.00	97.70	97.30	114.10	0.00	97.50	97.80	97.20	0.00	98.20
7	18.50	0.00	-999.00	-999.00	11.00	0.00	97.60	97.30	141.30	0.00	97.60	97.90	97.30	0.00	98.30
8	19.50	0.00	-999.00	-999.00	17.90	0.00	97.70	97.30	142.00	0.00	97.60	97.80	97.40	0.00	98.20
9	19.40	0.00	-999.00	-999.00	17.60	0.00	97.50	97.30	142.70	0.00	97.40	97.80	97.20	0.00	98.10
10	19.70	0.00	-999.00	-999.00	17.60	0.00	97.30	99.10	133.20	0.00	97.10	97.60	97.20	0.00	97.90
11	19.60	0.00	-999.00	-999.00	19.10	0.00	97.40	98.60	123.40	0.00	97.10	97.50	97.10	0.00	98.00
12	19.50	0.00	-999.00	-999.00	19.80	0.00	97.40	98.00	117.90	0.00	97.20	97.60	97.10	0.00	98.00
13	19.80	0.00	-999.00	-999.00	19.60	0.00	97.30	97.90	114.10	0.00	97.80	97.70	97.20	0.00	98.00
14	19.40	0.00	-999.00	-999.00	19.60	0.00	97.20	99.00	113.20	0.00	97.40	97.70	97.20	0.00	98.00
15	19.60	0.00	-999.00	-999.00	19.60	0.00	97.10	97.80	113.10	0.00	97.10	97.40	96.90	0.00	97.90
16	19.70	0.00	-999.00	-999.00	19.70	0.00	97.00	97.30	112.80	0.00	97.00	97.30	96.80	0.00	97.90
17	19.60	0.00	-999.00	-999.00	20.10	0.00	96.90	97.20	113.30	0.00	97.00	97.20	96.60	0.00	97.80
18	19.80	0.00	-999.00	-999.00	19.70	0.00	96.70	96.90	121.60	0.00	96.80	97.10	96.50	0.00	97.70
19	19.60	0.00	-999.00	-999.00	19.70	0.00	96.80	96.70	122.40	0.00	96.80	97.10	96.50	0.00	97.60
20	19.60	0.00	-999.00	-999.00	19.70	0.00	96.70	96.80	121.90	0.00	96.90	97.10	96.50	0.00	97.60
21	19.40	0.00	-999.00	-999.00	19.60	0.00	96.70	96.70	121.40	0.00	96.80	97.20	96.70	0.00	97.40
22	15.60	0.00	-999.00	-999.00	12.40	0.00	96.70	96.70	103.20	0.00	97.10	97.20	96.60	0.00	97.50
23	14.30	0.00	-999.00	-999.00	11.50	0.00	96.60	96.50	85.00	0.00	97.20	97.20	96.60	0.00	97.40
24	1.20	0.00	-999.00	-999.00	0.40	0.00	96.80	96.60	74.90	0.00	97.20	97.20	96.60	0.00	97.30

28 DEC 2002

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

28 DEC 2002

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. TAI LW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAI LW.	LOWER GRANITE	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAI LW.		
1	1.60	0.00	104.60	-999.00	-999.00	-999.00	0.10	0.00	97.30	97.80	1.60	0.00	-999.00	-999.00	
2	1.50	0.00	104.70	-999.00	-999.00	-999.00	0.10	0.00	97.30	97.80	0.20	0.00	-999.00	-999.00	
3	1.60	0.00	104.60	-999.00	-999.00	-999.00	0.10	0.00	97.30	97.80	0.20	0.00	-999.00	-999.00	
4	1.50	0.00	104.70	-999.00	-999.00	-999.00	0.10	0.00	97.30	97.80	0.20	0.00	-999.00	-999.00	
5	1.50	0.00	104.70	-999.00	-999.00	-999.00	0.10	0.00	97.40	98.00	0.20	0.00	-999.00	-999.00	
6	1.50	0.00	104.80	-999.00	-999.00	-999.00	1.20	0.00	97.70	98.40	0.20	0.00	-999.00	-999.00	
7	1.60	0.00	104.80	-999.00	-999.00	-999.00	13.20	0.00	97.70	98.40	13.80	0.00	-999.00	-999.00	
8	1.50	0.00	104.90	-999.00	-999.00	-999.00	13.60	0.00	97.80	98.50	13.90	0.00	-999.00	-999.00	
9	1.50	0.00	-999.00	-999.00	-999.00	-999.00	17.40	0.00	-999.00	-999.00	13.80	0.00	-999.00	-999.00	
10	1.60	0.00	-999.00	-999.00	-999.00	-999.00	19.50	0.00	-999.00	-999.00	18.10	0.00	-999.00	-999.00	
11	1.50	0.00	-999.00	-999.00	-999.00	-999.00	19.90	0.00	-999.00	-999.00	17.90	0.00	-999.00	-999.00	
12	1.50	0.00	-999.00	-999.00	-999.00	-999.00	19.60	0.00	-999.00	-999.00	18.30	0.00	-999.00	-999.00	
13	1.60	0.00	-999.00	-999.00	-999.00	-999.00	19.70	0.00	-999.00	-999.00	18.10	0.00	-999.00	-999.00	
14	1.50	0.00	-999.00	-999.00	-999.00	-999.00	19.60	0.00	-999.00	-999.00	17.90	0.00	-999.00	-999.00	
15	1.50	0.00	-999.00	-999.00	-999.00	-999.00	19.70	0.00	-999.00	-999.00	18.00	0.00	-999.00	-999.00	
16	1.60	0.00	-999.00	-999.00	-999.00	-999.00	20.40	0.00	-999.00	-999.00	18.40	0.00	-999.00	-999.00	
17	1.50	0.00	-999.00	-999.00	-999.00	-999.00	26.70	0.00	-999.00	-999.00	21.50	0.00	-999.00	-999.00	
18	1.60	0.00	-999.00	-999.00	-999.00	-999.00	27.10	0.00	-999.00	-999.00	27.30	0.00	-999.00	-999.00	
19	1.50	0.00	-999.00	-999.00	-999.00	-999.00	25.90	0.00	-999.00	-999.00	24.50	0.00	-999.00	-999.00	
20	1.50	0.00	-999.00	-999.00	-999.00	-999.00	25.90	0.00	-999.00	-999.00	24.60	0.00	-999.00	-999.00	
21	1.60	0.00	-999.00	-999.00	-999.00	-999.00	26.00	0.00	-999.00	-999.00	24.60	0.00	-999.00	-999.00	
22	1.50	0.00	-999.00	-999.00	-999.00	-999.00	13.30	0.00	-999.00	-999.00	20.20	0.00	-999.00	-999.00	
23	1.60	0.00	-999.00	-999.00	-999.00	-999.00	0.10	0.00	-999.00	-999.00	0.20	0.00	-999.00	-999.00	
24	1.50	0.00	-999.00	-999.00	-999.00	-999.00	0.10	0.00	-999.00	-999.00	0.20	0.00	-999.00	-999.00	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAI LW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAI LW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. OR FB	WA TAI LW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB		
1	0.40	0.00	-999.00	-999.00	0.20	0.00	96.90	96.50	0.00	97.20	97.30	96.70	0.00	97.40	
2	0.40	0.00	-999.00	-999.00	0.20	0.00	96.90	96.60	0.00	97.20	97.30	96.80	0.00	97.50	
3	0.40	0.00	-999.00	-999.00	0.20	0.00	97.00	96.80	0.00	97.20	97.30	96.80	0.00	97.50	
4	0.40	0.00	-999.00	-999.00	0.20	0.00	97.10	96.80	0.00	97.40	97.50	96.90	0.00	97.50	
5	0.40	0.00	-999.00	-999.00	0.20	0.00	97.30	96.90	0.00	97.40	97.60	97.20	0.00	-999.00	
6	1.90	0.00	-999.00	-999.00	1.00	0.00	97.20	96.80	0.00	97.40	97.60	97.20	0.00	-999.00	
7	11.00	0.00	-999.00	-999.00	11.30	0.00	97.30	97.00	0.00	97.60	97.70	97.20	0.00	-999.00	
8	13.80	0.00	-999.00	-999.00	11.90	0.00	97.20	97.10	0.00	97.60	97.70	97.30	0.00	-999.00	
9	14.00	0.00	-999.00	-999.00	12.80	0.00	-999.00	-999.00	0.00	-999.00	-999.00	-999.00	0.00	-999.00	
10	20.90	0.00	-999.00	-999.00	20.70	0.00	-999.00	-999.00	0.00	-999.00	-999.00	-999.00	0.00	-999.00	
11	20.70	0.00	-999.00	-999.00	18.50	0.00	-999.00	-999.00	0.00	-999.00	-999.00	-999.00	0.00	-999.00	
12	20.80	0.00	-999.00	-999.00	18.80	0.00	-999.00	-999.00	0.00	-999.00	-999.00	-999.00	0.00	-999.00	
13	20.80	0.00	-999.00	-999.00	18.50	0.00	-999.00	-999.00	0.00	-999.00	-999.00	-999.00	0.00	-999.00	
14	20.80	0.00	-999.00	-999.00	18.60	0.00	-999.00	-999.00	0.00	-999.00	-999.00	-999.00	0.00	-999.00	
15	21.30	0.00	-999.00	-999.00	18.70	0.00	-999.00	-999.00	0.00	-999.00	-999.00	-999.00	0.00	-999.00	
16	21.00	0.00	-999.00	-999.00	19.10	0.00	-999.00	-999.00	0.00	-999.00	-999.00	-999.00	0.00	-999.00	
17	31.10	0.00	-999.00	-999.00	31.50	0.00	-999.00	-999.00	0.00	-999.00	-999.00	-999.00	0.00	-999.00	
18	31.50	0.00	-999.00	-999.00	31.50	0.00	-999.00	-999.00	0.00	-999.00	-999.00	-999.00	0.00	-999.00	
19	29.50	0.00	-999.00	-999.00	30.40	0.00	-999.00	-999.00	0.00	-999.00	-999.00	-999.00	0.00	-999.00	
20	26.80	0.00	-999.00	-999.00	30.40	0.00	-999.00	-999.00	0.00	-999.00	-999.00	-999.00	0.00	-999.00	
21	26.00	0.00	-999.00	-999.00	28.10	0.00	-999.00	-999.00	0.00	-999.00	-999.00	-999.00	0.00	-999.00	
22	14.80	0.00	-999.00	-999.00	16.20	0.00	-999.00	-999.00	0.00	-999.00	-999.00	-999.00	0.00	-999.00	
23	0.40	0.00	-999.00	-999.00	9.20	0.00	-999.00	-999.00	0.00	-999.00	-999.00	-999.00	0.00	-999.00	
24	0.40	0.00	-999.00	-999.00	8.90	0.00	-999.00	-999.00	0.00	-999.00	-999.00	-999.00	0.00	-999.00	

29 DEC 2002

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

29 DEC 2002

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. TAI LW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAI LW.	LOWER GRANITE	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAI LW.		
1	1.50	0.00	-999.00	-999.00	-999.00	-999.00	0.10	0.00	-999.00	-999.00	0.20	0.00	-999.00	-999.00	
2	1.60	0.00	-999.00	-999.00	-999.00	-999.00	0.80	0.00	-999.00	-999.00	0.20	0.00	-999.00	-999.00	
3	1.50	0.00	-999.00	-999.00	-999.00	-999.00	13.30	0.00	-999.00	-999.00	12.10	0.00	-999.00	-999.00	
4	1.60	0.00	-999.00	-999.00	-999.00	-999.00	13.60	0.00	-999.00	-999.00	12.10	0.00	-999.00	-999.00	
5	1.50	0.00	-999.00	-999.00	-999.00	-999.00	13.50	0.00	-999.00	-999.00	12.10	0.00	-999.00	-999.00	
6	1.50	0.00	-999.00	-999.00	-999.00	-999.00	13.70	0.00	-999.00	-999.00	12.10	0.00	-999.00	-999.00	
7	1.60	0.00	-999.00	-999.00	-999.00	-999.00	16.90	0.00	-999.00	-999.00	12.10	0.00	-999.00	-999.00	
8	1.50	0.00	-999.00	-999.00	-999.00	-999.00	19.90	0.00	-999.00	-999.00	18.10	0.00	-999.00	-999.00	
9	1.60	0.00	-999.00	-999.00	-999.00	-999.00	19.80	0.00	-999.00	-999.00	18.10	0.00	-999.00	-999.00	
10	1.50	0.00	-999.00	-999.00	-999.00	-999.00	19.70	0.00	-999.00	-999.00	18.40	0.00	-999.00	-999.00	
11	1.50	0.00	-999.00	-999.00	-999.00	-999.00	20.50	0.00	-999.00	-999.00	21.10	0.00	-999.00	-999.00	
12	1.60	0.00	-999.00	-999.00	-999.00	-999.00	20.70	0.00	-999.00	-999.00	19.90	0.00	-999.00	-999.00	
13	1.50	0.00	-999.00	-999.00	-999.00	-999.00	21.00	0.00	-999.00	-999.00	20.80	0.00	-999.00	-999.00	
14	1.50	0.00	-999.00	-999.00	-999.00	-999.00	20.70	0.00	-999.00	-999.00	22.10	0.00	-999.00	-999.00	
15	1.60	0.00	-999.00	-999.00	-999.00	-999.00	20.70	0.00	-999.00	-999.00	20.90	0.00	-999.00	-999.00	
16	1.50	0.00	-999.00	-999.00	-999.00	-999.00	20.60	0.00	-999.00	-999.00	21.00	0.00	-999.00	-999.00	
17	1.50	0.00	-999.00	-999.00	-999.00	-999.00	20.70	0.00	-999.00	-999.00	21.50	0.00	-999.00	-999.00	
18	1.60	0.00	-999.00	-999.00	-999.00	-999.00	22.80	0.00	-999.00	-999.00	22.40	0.00	-999.00	-999.00	
19	1.50	0.00	-999.00	-999.00	-999.00	-999.00	20.70	0.00	-999.00	-999.00	24.60	0.00	-999.00	-999.00	
20	1.60	0.00	-999.00	-999.00	-999.00	-999.00	20.70	0.00	-999.00	-999.00	24.60	0.00	-999.00	-999.00	
21	1.50	0.00	-999.00	-999.00	-999.00	-999.00	20.40	0.00	-999.00	-999.00	24.50	0.00	-999.00	-999.00	
22	1.50	0.00	-999.00	-999.00	-999.00	-999.00	14.00	0.00	-999.00	-999.00	13.70	0.00	-999.00	-999.00	
23	1.60	0.00	-999.00	-999.00	-999.00	-999.00	13.90	0.00	-999.00	-999.00	15.20	0.00	-999.00	-999.00	
24	1.50	0.00	-999.00	-999.00	-999.00	-999.00	12.30	0.00	-999.00	-999.00	15.00	0.00	-999.00	-999.00	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAI LW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAI LW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. OR FB	WA TAI LW. FB	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB		
1	0.40	0.00	-999.00	-999.00	8.90	0.00-999.00-999.00	119.90	0.00	-999.00	-999.00	-999.00	0.00	-999.00	-999.00	
2	0.60	0.00	-999.00	-999.00	8.90	0.00-999.00-999.00	137.20	0.00	-999.00	-999.00	-999.00	0.00	-999.00	-999.00	
3	13.20	0.00	-999.00	-999.00	9.00	0.00-999.00-999.00	137.60	0.00	-999.00	-999.00	-999.00	0.00	-999.00	-999.00	
4	13.20	0.00	-999.00	-999.00	8.90	0.00-999.00-999.00	137.10	0.00	-999.00	-999.00	-999.00	0.00	-999.00	-999.00	
5	13.20	0.00	-999.00	-999.00	8.90	0.00-999.00-999.00	108.50	0.00	-999.00	-999.00	-999.00	0.00	-999.00	-999.00	
6	13.20	0.00	-999.00	-999.00	9.00	0.00-999.00-999.00	107.10	0.00	-999.00	-999.00	-999.00	0.00	-999.00	-999.00	
7	13.50	0.00	-999.00	-999.00	10.60	0.00-999.00-999.00	106.90	0.00	-999.00	-999.00	-999.00	0.00	-999.00	-999.00	
8	20.40	0.00	-999.00	-999.00	11.60	0.00-999.00-999.00	95.30	0.00	-999.00	-999.00	-999.00	0.00	-999.00	-999.00	
9	20.70	0.00	-999.00	-999.00	11.90	0.00-999.00-999.00	94.70	0.00	-999.00	-999.00	-999.00	0.00	-999.00	-999.00	
10	20.80	0.00	-999.00	-999.00	19.60	0.00-999.00-999.00	95.50	0.00	-999.00	-999.00	-999.00	0.00	-999.00	-999.00	
11	22.30	0.00	-999.00	-999.00	22.60	0.00-999.00-999.00	95.00	0.00	-999.00	-999.00	-999.00	0.00	-999.00	-999.00	
12	21.10	0.00	-999.00	-999.00	21.20	0.00-999.00-999.00	94.60	0.00	-999.00	-999.00	-999.00	0.00	-999.00	-999.00	
13	20.70	0.00	-999.00	-999.00	22.30	0.00-999.00-999.00	94.60	0.00	-999.00	-999.00	-999.00	0.00	-999.00	-999.00	
14	20.70	0.00	-999.00	-999.00	20.80	0.00-999.00-999.00	94.40	0.00	-999.00	-999.00	-999.00	0.00	-999.00	-999.00	
15	22.20	0.00	-999.00	-999.00	20.80	0.00-999.00-999.00	94.80	0.00	-999.00	-999.00	-999.00	0.00	-999.00	-999.00	
16	20.70	0.00	-999.00	-999.00	20.80	0.00-999.00-999.00	118.00	0.00	-999.00	-999.00	-999.00	0.00	-999.00	-999.00	
17	21.00	0.00	-999.00	-999.00	21.20	0.00-999.00-999.00	120.80	0.00	-999.00	-999.00	-999.00	0.00	-999.00	-999.00	
18	20.70	0.00	-999.00	-999.00	21.00	0.00-999.00-999.00	121.70	0.00	-999.00	-999.00	-999.00	0.00	-999.00	-999.00	
19	25.70	0.00	-999.00	-999.00	20.90	0.00-999.00-999.00	120.70	0.00	-999.00	-999.00	-999.00	0.00	-999.00	-999.00	
20	26.20	0.00	-999.00	-999.00	20.90	0.00-999.00-999.00	121.00	0.00	-999.00	-999.00	-999.00	0.00	-999.00	-999.00	
21	28.20	0.00	-999.00	-999.00	20.10	0.00-999.00-999.00	120.60	0.00	-999.00	-999.00	-999.00	0.00	-999.00	-999.00	
22	15.80	0.00	-999.00	-999.00	12.40	0.00-999.00-999.00	100.50	0.00	-999.00	-999.00	-999.00	0.00	-999.00	-999.00	
23	14.50	0.00	-999.00	-999.00	11.70	0.00-999.00-999.00	98.80	0.00	-999.00	-999.00	-999.00	0.00	-999.00	-999.00	
24	13.70	0.00	-999.00	-999.00	11.70	0.00-999.00-999.00	98.90	0.00	-999.00	-999.00	-999.00	0.00	-999.00	-999.00	

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**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

30 DEC 2002

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	LOWER GRANITE	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	LOWER GRANITE	LITTLE GOOSE
1	1.60	0.00	104.40	-999.00	-999.00	-999.00	0.10	0.00	97.40	97.50	13.70	0.00	-999.00	-999.00	-999.00
2	1.50	0.00	104.50	-999.00	-999.00	-999.00	0.10	0.00	97.50	97.90	0.20	0.00	-999.00	-999.00	-999.00
3	1.50	0.00	104.50	-999.00	-999.00	-999.00	0.10	0.00	97.50	97.80	1.60	0.00	-999.00	-999.00	-999.00
4	1.60	0.00	104.60	-999.00	-999.00	-999.00	0.10	0.00	97.60	97.70	0.20	0.00	-999.00	-999.00	-999.00
5	1.50	0.00	104.60	-999.00	-999.00	-999.00	1.50	0.00	97.40	97.60	0.20	0.00	-999.00	-999.00	-999.00
6	1.50	0.00	104.60	-999.00	-999.00	-999.00	14.20	0.00	97.50	97.70	0.20	0.00	-999.00	-999.00	-999.00
7	1.60	0.00	104.50	-999.00	-999.00	-999.00	24.20	0.00	97.50	98.20	12.40	0.00	-999.00	-999.00	-999.00
8	1.50	0.00	104.40	-999.00	-999.00	-999.00	27.90	0.00	97.50	97.90	27.30	0.00	-999.00	-999.00	-999.00
9	1.50	0.00	104.50	-999.00	-999.00	-999.00	29.90	0.00	97.60	98.00	27.30	0.00	-999.00	-999.00	-999.00
10	1.60	0.00	104.70	-999.00	-999.00	-999.00	28.70	0.00	97.60	98.00	27.30	0.00	-999.00	-999.00	-999.00
11	1.50	0.00	104.30	-999.00	-999.00	-999.00	28.30	0.00	97.70	98.00	29.40	0.00	-999.00	-999.00	-999.00
12	1.60	0.00	104.30	-999.00	-999.00	-999.00	28.30	0.00	97.70	98.00	29.70	0.00	-999.00	-999.00	-999.00
13	1.50	0.00	104.10	-999.00	-999.00	-999.00	28.30	0.00	97.80	98.10	29.30	0.00	-999.00	-999.00	-999.00
14	1.60	0.00	104.30	-999.00	-999.00	-999.00	28.30	0.00	97.90	98.20	29.40	0.00	-999.00	-999.00	-999.00
15	1.50	0.00	104.30	-999.00	-999.00	-999.00	25.90	0.00	97.90	98.10	29.30	0.00	-999.00	-999.00	-999.00
16	1.60	0.00	104.00	-999.00	-999.00	-999.00	25.40	0.00	97.90	98.10	29.20	0.00	-999.00	-999.00	-999.00
17	1.50	0.00	103.90	-999.00	-999.00	-999.00	25.80	0.00	98.00	98.30	29.20	0.00	-999.00	-999.00	-999.00
18	1.50	0.00	103.90	-999.00	-999.00	-999.00	25.90	0.00	98.00	98.20	29.20	0.00	-999.00	-999.00	-999.00
19	1.60	0.00	104.00	-999.00	-999.00	-999.00	25.90	0.00	98.10	98.30	30.70	0.00	-999.00	-999.00	-999.00
20	1.50	0.00	104.10	-999.00	-999.00	-999.00	28.00	0.00	98.20	98.90	29.40	0.00	-999.00	-999.00	-999.00
21	1.60	0.00	104.80	-999.00	-999.00	-999.00	27.50	0.00	98.30	98.90	29.50	0.00	-999.00	-999.00	-999.00
22	1.50	0.00	105.00	-999.00	-999.00	-999.00	20.80	0.00	98.30	98.80	21.20	0.00	-999.00	-999.00	-999.00
23	1.50	0.00	105.20	-999.00	-999.00	-999.00	14.10	0.00	98.40	99.00	13.80	0.00	-999.00	-999.00	-999.00
24	1.60	0.00	105.30	-999.00	-999.00	-999.00	14.40	0.00	98.60	99.00	13.70	0.00	-999.00	-999.00	-999.00

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB	WA TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB	WA TAILW.	
1	0.40	0.00	-999.00	-999.00	11.70	0.00	97.10	96.80	0.00	97.50	97.60	97.00	0.00	96.50	
2	0.40	0.00	-999.00	-999.00	9.20	0.00	97.10	96.90	0.00	97.40	97.60	97.00	0.00	96.50	
3	0.40	0.00	-999.00	-999.00	8.90	0.00	97.20	97.10	0.00	97.50	97.60	97.00	0.00	96.50	
4	0.40	0.00	-999.00	-999.00	8.90	0.00	97.10	97.10	0.00	97.50	97.80	97.10	0.00	96.50	
5	0.40	0.00	-999.00	-999.00	8.90	0.00	97.30	97.20	0.00	97.70	97.80	97.10	0.00	96.50	
6	2.70	0.00	-999.00	-999.00	8.90	0.00	97.20	97.20	0.00	97.60	97.80	97.20	0.00	96.60	
7	13.70	0.00	-999.00	-999.00	9.10	0.00	97.20	97.20	0.00	97.50	97.60	97.10	0.00	96.60	
8	25.60	0.00	-999.00	-999.00	11.80	0.00	97.30	97.30	0.00	97.50	97.60	97.10	0.00	96.70	
9	27.60	0.00	-999.00	-999.00	23.20	0.00	97.20	97.30	0.00	97.50	97.60	97.10	0.00	96.70	
10	28.90	0.00	-999.00	-999.00	27.40	0.00	97.40	97.40	0.00	97.40	97.60	97.10	0.00	96.80	
11	29.10	0.00	-999.00	-999.00	29.10	0.00	97.40	97.70	0.00	97.50	97.70	97.30	0.00	97.30	
12	29.10	0.00	-999.00	-999.00	28.10	0.00	97.60	97.50	0.00	97.60	97.80	97.80	0.00	97.40	
13	29.10	0.00	-999.00	-999.00	27.50	0.00	97.70	97.90	0.00	97.70	97.90	97.80	0.00	97.50	
14	29.10	0.00	-999.00	-999.00	27.60	0.00	97.90	97.80	0.00	98.20	97.70	97.70	0.00	97.50	
15	29.20	0.00	-999.00	-999.00	27.60	0.00	97.70	97.50	0.00	98.40	98.10	0.00	0.00	97.40	
16	29.80	0.00	-999.00	-999.00	29.20	0.00	97.80	97.40	0.00	98.50	98.20	97.90	0.00	97.50	
17	30.90	0.00	-999.00	-999.00	28.20	0.00	97.70	97.50	0.00	98.40	98.20	97.90	0.00	97.50	
18	29.20	0.00	-999.00	-999.00	29.70	0.00	97.80	97.80	0.00	98.40	98.20	97.90	0.00	97.50	
19	29.10	0.00	-999.00	-999.00	28.20	0.00	97.90	97.90	0.00	98.60	98.50	98.10	0.00	97.70	
20	29.20	0.00	-999.00	-999.00	28.10	0.00	98.00	97.80	0.00	98.80	98.60	98.20	0.00	97.80	
21	29.60	0.00	-999.00	-999.00	28.70	0.00	98.10	98.40	0.00	98.90	98.90	98.30	0.00	97.80	
22	28.70	0.00	-999.00	-999.00	28.00	0.00	98.20	97.90	0.00	98.40	99.00	99.00	0.00	97.80	
23	20.60	0.00	-999.00	-999.00	21.30	0.00	98.30	98.00	0.00	99.00	99.00	98.60	0.00	97.80	
24	17.10	0.00	-999.00	-999.00	18.80	0.00	98.30	98.10	0.00	99.10	98.70	97.70	0.00	97.70	

31 DEC 2002

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

31 DEC 2002

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	LOWER GRANITE	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.		
1	1.50	0.00	105.40	-999.00	-999.00	-999.00	0.10	0.00	98.70	99.10	1.60	0.00	-999.00	-999.00	
2	1.60	0.00	105.40	-999.00	-999.00	-999.00	0.10	0.00	98.70	99.10	1.60	0.00	-999.00	-999.00	
3	1.50	0.00	105.30	-999.00	-999.00	-999.00	0.10	0.00	98.80	99.30	0.20	0.00	-999.00	-999.00	
4	1.50	0.00	105.40	-999.00	-999.00	-999.00	0.10	0.00	98.80	99.60	0.20	0.00	-999.00	-999.00	
5	1.60	0.00	105.40	-999.00	-999.00	-999.00	0.10	0.00	98.80	99.50	0.20	0.00	-999.00	-999.00	
6	1.50	0.00	105.30	-999.00	-999.00	-999.00	1.30	0.00	98.70	99.60	0.20	0.00	-999.00	-999.00	
7	1.50	0.00	105.20	-999.00	-999.00	-999.00	20.10	0.00	98.60	99.30	13.80	0.00	-999.00	-999.00	
8	1.60	0.00	105.10	-999.00	-999.00	-999.00	25.50	0.00	98.40	99.00	26.10	0.00	-999.00	-999.00	
9	1.50	0.00	105.10	-999.00	-999.00	-999.00	25.70	0.00	98.50	98.80	26.10	0.00	-999.00	-999.00	
10	1.60	0.00	105.30	-999.00	-999.00	-999.00	25.80	0.00	98.20	98.50	25.80	0.00	-999.00	-999.00	
11	1.50	0.00	105.30	-999.00	-999.00	-999.00	26.00	0.00	98.10	98.40	25.90	0.00	-999.00	-999.00	
12	1.50	0.00	105.40	-999.00	-999.00	-999.00	25.70	0.00	98.00	98.30	25.80	0.00	-999.00	-999.00	
13	1.60	0.00	105.50	-999.00	-999.00	-999.00	17.90	0.00	98.00	98.60	26.20	0.00	-999.00	-999.00	
14	1.50	0.00	105.30	-999.00	-999.00	-999.00	17.20	0.00	97.90	98.20	26.10	0.00	-999.00	-999.00	
15	1.50	0.00	105.10	-999.00	-999.00	-999.00	17.10	0.00	97.70	98.10	17.50	0.00	-999.00	-999.00	
16	1.60	0.00	104.70	-999.00	-999.00	-999.00	17.40	0.00	97.70	98.00	17.60	0.00	-999.00	-999.00	
17	1.50	0.00	104.40	-999.00	-999.00	-999.00	27.10	0.00	97.60	98.00	17.50	0.00	-999.00	-999.00	
18	1.50	0.00	104.30	-999.00	-999.00	-999.00	26.40	0.00	97.40	97.90	26.00	0.00	-999.00	-999.00	
19	1.60	0.00	104.20	-999.00	-999.00	-999.00	25.90	0.00	97.40	97.70	25.90	0.00	-999.00	-999.00	
20	1.50	0.00	104.20	-999.00	-999.00	-999.00	26.00	0.00	97.30	97.70	26.00	0.00	-999.00	-999.00	
21	1.60	0.00	104.10	-999.00	-999.00	-999.00	27.40	0.00	97.40	98.40	27.20	0.00	-999.00	-999.00	
22	1.50	0.00	104.00	-999.00	-999.00	-999.00	20.60	0.00	97.30	97.90	21.20	0.00	-999.00	-999.00	
23	1.50	0.00	103.90	-999.00	-999.00	-999.00	13.30	0.00	97.20	97.80	12.40	0.00	-999.00	-999.00	
24	1.60	0.00	103.90	-999.00	-999.00	-999.00	0.10	0.00	97.20	97.60	0.20	0.00	-999.00	-999.00	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. WA FB TAILW.	MCNARY	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB		
1	0.50	0.00	-999.00	-999.00	9.40	0.00	98.30	98.10	99.00	99.20	98.70	0.00	-97.60		
2	0.40	0.00	-999.00	-999.00	9.10	0.00	98.20	98.00	98.80	99.20	98.50	0.00	-97.50		
3	0.40	0.00	-999.00	-999.00	8.90	0.00	98.40	98.10	98.80	99.10	98.70	0.00	-97.50		
4	1.90	0.00	-999.00	-999.00	8.80	0.00	98.40	98.00	97.60	99.10	98.50	0.00	-97.30		
5	0.40	0.00	-999.00	-999.00	8.80	0.00	98.30	97.90	98.60	99.00	98.40	0.00	-97.20		
6	1.90	0.00	-999.00	-999.00	8.90	0.00	98.20	97.80	111.80	98.50	98.80	0.00	-97.30		
7	13.00	0.00	-999.00	-999.00	9.90	0.00	98.00	97.80	112.70	98.40	98.60	0.00	-97.10		
8	26.00	0.00	-999.00	-999.00	20.70	0.00	97.80	97.70	112.70	98.40	98.50	0.00	-97.10		
9	25.90	0.00	-999.00	-999.00	21.00	0.00	97.70	97.70	113.00	98.20	98.30	0.00	-96.90		
10	26.20	0.00	-999.00	-999.00	19.40	0.00	99.00	99.60	110.90	98.10	98.20	0.00	-96.90		
11	26.10	0.00	-999.00	-999.00	19.40	0.00	98.90	0.00	110.40	97.90	98.20	0.00	-96.90		
12	26.00	0.00	-999.00	-999.00	19.70	0.00	98.70	97.70	110.90	97.90	98.10	0.00	-96.90		
13	26.50	0.00	-999.00	-999.00	19.30	0.00	98.30	97.60	110.40	97.80	98.00	0.00	-96.90		
14	26.10	0.00	-999.00	-999.00	19.20	0.00	97.90	97.20	110.10	97.80	97.80	0.00	-96.80		
15	26.10	0.00	-999.00	-999.00	18.80	0.00	97.40	97.10	110.30	97.70	97.80	0.00	-96.60		
16	26.00	0.00	-999.00	-999.00	19.20	0.00	97.10	97.00	110.80	97.60	97.60	0.00	-96.70		
17	26.10	0.00	-999.00	-999.00	18.90	0.00	96.80	96.70	111.20	97.30	97.40	0.00	-96.50		
18	26.20	0.00	-999.00	-999.00	19.10	0.00	96.70	96.50	111.50	97.30	97.30	0.00	-96.40		
19	26.70	0.00	-999.00	-999.00	19.40	0.00	96.50	96.20	111.10	97.20	97.20	0.00	-96.30		
20	26.20	0.00	-999.00	-999.00	20.90	0.00	96.30	96.20	110.40	97.10	97.10	0.00	-96.20		
21	26.30	0.00	-999.00	-999.00	21.20	0.00	96.20	96.10	112.70	97.00	96.90	0.00	-96.10		
22	26.50	0.00	-999.00	-999.00	20.80	0.00	96.10	96.00	112.60	97.00	96.80	0.00	-96.10		
23	16.90	0.00	-999.00	-999.00	18.30	0.00	96.10	96.00	111.60	96.80	96.90	0.00	-96.40		
24	5.90	0.00	-999.00	-999.00	9.40	0.00	96.10	96.00	110.90	96.80	96.90	0.00	-96.00		

01 JAN 2003

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

01 JAN 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.			
1	1.50	0.00	103.90	-999.00	-999.00	-999.00	0.10	0.00	97.30	97.70	0.20	0.00	-999.00	-999.00	
2	1.60	0.00	103.90	-999.00	-999.00	-999.00	0.10	0.00	97.10	97.40	0.20	0.00	-999.00	-999.00	
3	1.50	0.00	103.80	-999.00	-999.00	-999.00	0.10	0.00	97.10	97.50	0.20	0.00	-999.00	-999.00	
4	1.50	0.00	103.70	-999.00	-999.00	-999.00	0.10	0.00	97.10	97.50	0.20	0.00	-999.00	-999.00	
5	1.60	0.00	103.90	-999.00	-999.00	-999.00	1.80	0.00	97.00	97.50	0.20	0.00	-999.00	-999.00	
6	1.50	0.00	103.80	-999.00	-999.00	-999.00	15.40	0.00	97.10	97.60	13.90	0.00	-999.00	-999.00	
7	1.50	0.00	103.80	-999.00	-999.00	-999.00	14.80	0.00	97.30	97.90	13.70	0.00	-999.00	-999.00	
8	1.60	0.00	103.90	-999.00	-999.00	-999.00	14.80	0.00	97.30	97.70	13.80	0.00	-999.00	-999.00	
9	1.50	0.00	104.00	-999.00	-999.00	-999.00	14.40	0.00	97.30	97.60	13.90	0.00	-999.00	-999.00	
10	1.60	0.00	104.30	-999.00	-999.00	-999.00	14.90	0.00	97.30	97.80	13.70	0.00	-999.00	-999.00	
11	1.50	0.00	104.70	-999.00	-999.00	-999.00	20.10	0.00	97.50	97.70	13.90	0.00	-999.00	-999.00	
12	1.60	0.00	104.80	-999.00	-999.00	-999.00	20.60	0.00	97.60	97.80	13.70	0.00	-999.00	-999.00	
13	1.50	0.00	105.00	-999.00	-999.00	-999.00	26.60	0.00	97.60	98.10	21.50	0.00	-999.00	-999.00	
14	1.50	0.00	104.90	-999.00	-999.00	-999.00	27.50	0.00	97.70	98.00	21.30	0.00	-999.00	-999.00	
15	1.60	0.00	104.80	-999.00	-999.00	-999.00	27.10	0.00	97.70	97.90	21.40	0.00	-999.00	-999.00	
16	1.50	0.00	104.50	-999.00	-999.00	-999.00	27.10	0.00	97.60	98.00	21.40	0.00	-999.00	-999.00	
17	1.60	0.00	104.20	-999.00	-999.00	-999.00	27.20	0.00	97.60	97.90	20.90	0.00	-999.00	-999.00	
18	1.50	0.00	104.10	-999.00	-999.00	-999.00	27.20	0.00	97.60	97.90	20.60	0.00	-999.00	-999.00	
19	1.50	0.00	104.20	-999.00	-999.00	-999.00	27.80	0.00	97.80	98.10	22.50	0.00	-999.00	-999.00	
20	1.60	0.00	104.20	-999.00	-999.00	-999.00	28.20	0.00	97.90	98.00	21.60	0.00	-999.00	-999.00	
21	1.50	0.00	104.20	-999.00	-999.00	-999.00	28.30	0.00	97.70	98.00	21.60	0.00	-999.00	-999.00	
22	1.60	0.00	104.10	-999.00	-999.00	-999.00	26.80	0.00	97.70	98.00	21.90	0.00	-999.00	-999.00	
23	1.50	0.00	104.10	-999.00	-999.00	-999.00	20.20	0.00	97.80	98.30	21.00	0.00	-999.00	-999.00	
24	1.60	0.00	104.20	-999.00	-999.00	-999.00	0.10	0.00	97.80	98.40	0.20	0.00	-999.00	-999.00	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.			
1	0.30	0.00	-999.00	-999.00	8.90	0.00	96.10	95.80	109.60	0.00	96.80	96.90	96.30	0.00	96.00
2	0.30	0.00	-999.00	-999.00	10.60	0.00	96.00	95.80	111.00	0.00	96.70	96.90	96.10	0.00	95.90
3	0.30	0.00	-999.00	-999.00	8.90	0.00	95.90	95.70	107.30	0.00	96.70	96.80	96.10	0.00	95.90
4	0.30	0.00	-999.00	-999.00	8.90	0.00	96.00	95.80	107.30	0.00	96.80	96.70	96.20	0.00	95.90
5	1.80	0.00	-999.00	-999.00	8.90	0.00	95.90	95.90	121.70	0.00	96.70	96.70	96.20	0.00	95.90
6	1.30	0.00	-999.00	-999.00	8.90	0.00	96.00	96.00	118.50	0.00	96.90	96.80	96.30	0.00	96.00
7	13.70	0.00	-999.00	-999.00	9.00	0.00	96.10	96.10	118.00	0.00	96.90	97.00	96.30	0.00	96.10
8	13.70	0.00	-999.00	-999.00	10.40	0.00	96.10	96.20	113.30	0.00	96.90	97.00	96.30	0.00	96.00
9	13.70	0.00	-999.00	-999.00	8.90	0.00	96.10	96.80	109.40	0.00	96.90	97.00	96.60	0.00	95.90
10	13.70	0.00	-999.00	-999.00	8.90	0.00	96.10	97.10	107.80	0.00	96.90	97.00	96.60	0.00	95.90
11	13.90	0.00	-999.00	-999.00	10.60	0.00	96.40	96.80	110.40	0.00	97.00	97.10	96.70	0.00	96.00
12	13.90	0.00	-999.00	-999.00	10.50	0.00	96.50	96.90	109.60	0.00	97.10	97.20	96.80	0.00	96.10
13	20.30	0.00	-999.00	-999.00	12.30	0.00	96.50	97.00	105.00	0.00	97.20	97.30	96.90	0.00	96.20
14	20.50	0.00	-999.00	-999.00	12.40	0.00	96.40	97.80	96.10	0.00	97.20	97.30	96.70	0.00	96.10
15	20.70	0.00	-999.00	-999.00	12.40	0.00	96.40	97.10	96.90	0.00	97.30	97.30	96.70	0.00	96.10
16	22.20	0.00	-999.00	-999.00	14.20	0.00	96.50	98.30	99.60	0.00	97.40	97.50	96.60	0.00	96.20
17	21.10	0.00	-999.00	-999.00	12.60	0.00	96.70	98.00	101.40	0.00	97.40	97.40	96.80	0.00	96.20
18	20.70	0.00	-999.00	-999.00	12.60	0.00	96.60	97.10	99.70	0.00	97.30	97.40	96.90	0.00	96.10
19	20.70	0.00	-999.00	-999.00	13.30	0.00	96.60	96.80	97.70	0.00	97.30	97.40	96.70	0.00	96.10
20	20.70	0.00	-999.00	-999.00	17.70	0.00	96.60	97.70	98.70	0.00	97.30	97.40	96.90	0.00	96.20
21	20.70	0.00	-999.00	-999.00	18.90	0.00	96.70	96.90	92.50	0.00	97.30	97.40	96.70	0.00	96.10
22	21.00	0.00	-999.00	-999.00	18.50	0.00	96.60	96.80	89.00	0.00	97.30	97.50	96.70	0.00	96.10
23	20.30	0.00	-999.00	-999.00	18.30	0.00	96.60	96.80	81.30	0.00	97.30	97.40	96.50	0.00	96.00
24	13.30	0.00	-999.00	-999.00	18.60	0.00	96.70	96.70	76.30	0.00	97.40	97.40	96.80	0.00	96.10

02 JAN 2003

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

02 JAN 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	LOWER GRANITE	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.		
1	1.50	0.00	104.10	-999.00	-999.00	-999.00	0.10	0.00	97.80	98.30	0.20	0.00	-999.00	-999.00	
2	1.60	0.00	103.90	-999.00	-999.00	-999.00	0.10	0.00	97.70	98.20	0.20	0.00	-999.00	-999.00	
3	1.60	0.00	103.90	-999.00	-999.00	-999.00	0.10	0.00	97.80	98.40	0.20	0.00	-999.00	-999.00	
4	1.60	0.00	103.80	-999.00	-999.00	-999.00	0.10	0.00	97.90	98.50	0.20	0.00	-999.00	-999.00	
5	1.60	0.00	104.00	-999.00	-999.00	-999.00	0.10	0.00	97.90	98.60	0.20	0.00	-999.00	-999.00	
6	1.60	0.00	104.00	-999.00	-999.00	-999.00	1.90	0.00	98.10	98.60	0.20	0.00	-999.00	-999.00	
7	1.50	0.00	103.80	-999.00	-999.00	-999.00	19.70	0.00	98.20	98.90	13.70	0.00	-999.00	-999.00	
8	1.60	0.00	104.00	-999.00	-999.00	-999.00	20.70	0.00	98.00	98.60	21.10	0.00	-999.00	-999.00	
9	1.60	0.00	104.00	-999.00	-999.00	-999.00	20.60	0.00	98.20	98.50	21.20	0.00	-999.00	-999.00	
10	1.60	0.00	104.00	-999.00	-999.00	-999.00	20.70	0.00	98.10	98.50	21.00	0.00	-999.00	-999.00	
11	1.60	0.00	104.20	-999.00	-999.00	-999.00	19.60	0.00	98.30	98.50	18.00	0.00	-999.00	-999.00	
12	1.60	0.00	104.50	-999.00	-999.00	-999.00	19.20	0.00	98.30	98.90	17.80	0.00	-999.00	-999.00	
13	1.60	0.00	104.60	-999.00	-999.00	-999.00	19.30	0.00	98.50	98.40	17.80	0.00	-999.00	-999.00	
14	1.60	0.00	104.70	-999.00	-999.00	-999.00	17.00	0.00	98.70	98.30	17.30	0.00	-999.00	-999.00	
15	1.50	0.00	104.70	-999.00	-999.00	-999.00	16.90	0.00	98.70	98.30	17.40	0.00	-999.00	-999.00	
16	1.60	0.00	104.50	-999.00	-999.00	-999.00	17.30	0.00	98.70	98.30	17.00	0.00	-999.00	-999.00	
17	1.50	0.00	104.10	-999.00	-999.00	-999.00	16.90	0.00	98.80	98.40	16.90	0.00	-999.00	-999.00	
18	1.60	0.00	104.40	-999.00	-999.00	-999.00	17.30	0.00	98.80	98.40	16.80	0.00	-999.00	-999.00	
19	1.50	0.00	104.40	-999.00	-999.00	-999.00	17.60	0.00	98.80	98.50	18.40	0.00	-999.00	-999.00	
20	1.50	0.00	104.40	-999.00	-999.00	-999.00	29.20	0.00	98.60	98.60	30.00	0.00	-999.00	-999.00	
21	1.60	0.00	104.10	-999.00	-999.00	-999.00	30.00	0.00	98.50	98.50	29.70	0.00	-999.00	-999.00	
22	1.50	0.00	104.10	-999.00	-999.00	-999.00	31.40	0.00	98.60	98.50	29.40	0.00	-999.00	-999.00	
23	1.60	0.00	104.30	-999.00	-999.00	-999.00	13.60	0.00	98.80	99.40	19.80	0.00	-999.00	-999.00	
24	1.50	0.00	104.50	-999.00	-999.00	-999.00	0.10	0.00	99.00	99.30	13.00	0.00	-999.00	-999.00	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	MCNARY	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	PASCO	
1	0.30	0.00	-999.00	-999.00	18.50	0.00	96.70	96.60	75.60	0.00	97.40	97.50	96.80	95.90	
2	0.30	0.00	-999.00	-999.00	9.80	0.00	96.70	96.60	71.80	0.00	97.20	97.30	96.90	95.90	
3	0.30	0.00	-999.00	-999.00	8.90	0.00	96.80	96.70	70.20	0.00	97.40	97.50	96.90	96.00	
4	0.30	0.00	-999.00	-999.00	8.90	0.00	96.80	96.70	75.90	0.00	97.50	97.60	97.00	96.10	
5	0.30	0.00	-999.00	-999.00	9.00	0.00	97.00	96.80	84.90	0.00	97.60	97.70	97.10	96.30	
6	1.00	0.00	-999.00	-999.00	9.00	0.00	97.00	96.80	90.30	0.00	97.70	97.70	97.00	96.30	
7	13.90	0.00	-999.00	-999.00	11.80	0.00	97.00	96.80	96.20	0.00	97.50	97.60	97.00	96.20	
8	20.10	0.00	-999.00	-999.00	13.30	0.00	96.90	97.00	114.40	0.00	97.40	97.50	96.90	96.10	
9	20.40	0.00	-999.00	-999.00	12.50	0.00	96.80	96.90	115.40	0.00	97.20	97.40	96.90	96.00	
10	20.90	0.00	-999.00	-999.00	18.10	0.00	96.70	97.00	101.20	0.00	97.30	97.30	97.10	96.00	
11	17.90	0.00	-999.00	-999.00	18.30	0.00	96.70	97.00	100.10	0.00	97.40	97.50	97.10	96.00	
12	17.90	0.00	-999.00	-999.00	20.00	0.00	96.80	97.90	99.70	0.00	97.70	97.70	97.30	96.00	
13	17.80	0.00	-999.00	-999.00	18.20	0.00	97.00	97.40	100.90	0.00	97.90	97.80	97.30	96.30	
14	17.80	0.00	-999.00	-999.00	17.60	0.00	97.10	97.30	101.00	0.00	97.90	97.70	97.20	96.30	
15	18.20	0.00	-999.00	-999.00	17.50	0.00	97.30	98.20	101.20	0.00	97.90	97.70	97.10	96.30	
16	17.80	0.00	-999.00	-999.00	17.50	0.00	97.40	97.40	100.70	0.00	97.90	97.60	97.20	96.50	
17	19.10	0.00	-999.00	-999.00	17.90	0.00	97.40	97.10	101.60	0.00	97.80	97.80	97.20	96.60	
18	17.50	0.00	-999.00	-999.00	17.50	0.00	97.30	97.10	103.00	0.00	97.70	97.60	97.10	96.70	
19	17.90	0.00	-999.00	-999.00	17.90	0.00	97.30	97.00	103.00	0.00	97.70	97.50	97.00	96.60	
20	28.90	0.00	-999.00	-999.00	29.60	0.00	97.50	97.00	102.00	0.00	97.50	97.50	96.90	96.50	
21	30.00	0.00	-999.00	-999.00	30.00	0.00	97.60	97.20	99.90	0.00	97.70	97.80	97.10	96.60	
22	34.60	0.00	-999.00	-999.00	34.10	0.00	97.70	97.30	86.10	0.00	97.70	97.90	97.20	96.70	
23	26.10	0.00	-999.00	-999.00	24.50	0.00	97.70	97.20	81.50	0.00	97.80	97.90	97.20	96.80	
24	14.10	0.00	-999.00	-999.00	13.10	0.00	97.60	97.20	77.60	0.00	97.80	97.90	97.20	96.90	

03 JAN 2003

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

03 JAN 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	LOWER GRANITE	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.		
1	1.60	0.00	104.60	-999.00	-999.00	-999.00	1.60	0.00	98.90	99.30	12.70	0.00	-999.00	-999.00	
2	1.60	0.00	104.60	-999.00	-999.00	-999.00	12.50	0.00	98.90	99.20	12.80	0.00	-999.00	-999.00	
3	1.60	0.00	104.30	-999.00	-999.00	-999.00	13.50	0.00	98.50	98.70	14.20	0.00	-999.00	-999.00	
4	1.60	0.00	103.90	-999.00	-999.00	-999.00	13.40	0.00	98.50	98.40	12.70	0.00	-999.00	-999.00	
5	1.50	0.00	103.70	-999.00	-999.00	-999.00	13.40	0.00	98.40	98.30	12.70	0.00	-999.00	-999.00	
6	1.50	0.00	103.80	-999.00	-999.00	-999.00	13.30	0.00	98.40	98.20	12.70	0.00	-999.00	-999.00	
7	1.60	0.00	104.00	-999.00	-999.00	-999.00	13.40	0.00	98.30	98.10	12.70	0.00	-999.00	-999.00	
8	1.50	0.00	103.90	-999.00	-999.00	-999.00	17.30	0.00	98.20	98.00	13.70	0.00	-999.00	-999.00	
9	1.50	0.00	104.00	-999.00	-999.00	-999.00	24.90	0.00	98.20	98.10	26.00	0.00	-999.00	-999.00	
10	1.60	0.00	104.20	-999.00	-999.00	-999.00	25.20	0.00	98.20	98.00	23.80	0.00	-999.00	-999.00	
11	1.50	0.00	104.40	-999.00	-999.00	-999.00	25.20	0.00	98.30	97.90	23.80	0.00	-999.00	-999.00	
12	1.60	0.00	104.60	-999.00	-999.00	-999.00	25.30	0.00	98.50	97.90	23.80	0.00	-999.00	-999.00	
13	1.50	0.00	104.70	-999.00	-999.00	-999.00	25.70	0.00	98.60	98.10	23.80	0.00	-999.00	-999.00	
14	1.50	0.00	104.70	-999.00	-999.00	-999.00	25.30	0.00	98.60	98.10	23.80	0.00	-999.00	-999.00	
15	1.60	0.00	104.50	-999.00	-999.00	-999.00	25.20	0.00	98.50	98.00	23.80	0.00	-999.00	-999.00	
16	1.60	0.00	104.40	-999.00	-999.00	-999.00	25.20	0.00	98.50	98.00	23.90	0.00	-999.00	-999.00	
17	1.60	0.00	104.20	-999.00	-999.00	-999.00	17.80	0.00	98.60	98.20	24.10	0.00	-999.00	-999.00	
18	1.60	0.00	103.80	-999.00	-999.00	-999.00	17.10	0.00	98.50	99.00	23.80	0.00	-999.00	-999.00	
19	1.60	0.00	103.60	-999.00	-999.00	-999.00	17.10	0.00	98.50	98.40	23.70	0.00	-999.00	-999.00	
20	1.60	0.00	103.80	-999.00	-999.00	-999.00	17.10	0.00	98.70	98.50	23.70	0.00	-999.00	-999.00	
21	1.50	0.00	103.80	-999.00	-999.00	-999.00	17.10	0.00	98.70	98.30	23.60	0.00	-999.00	-999.00	
22	1.60	0.00	103.90	-999.00	-999.00	-999.00	11.00	0.00	98.70	98.30	23.70	0.00	-999.00	-999.00	
23	1.50	0.00	104.10	-999.00	-999.00	-999.00	0.10	0.00	98.80	98.50	11.70	0.00	-999.00	-999.00	
24	1.50	0.00	104.30	-999.00	-999.00	-999.00	0.10	0.00	98.80	98.50	1.70	0.00	-999.00	-999.00	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB	WA TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB	GAS % SAT	
1	13.50	0.00	-999.00	-999.00	12.40	0.00	97.40	97.00	0.00	97.40	97.60	96.90	0.00	96.70	
2	13.60	0.00	-999.00	-999.00	12.60	0.00	97.10	97.00	0.00	97.30	97.40	96.70	0.00	96.60	
3	13.60	0.00	-999.00	-999.00	12.50	0.00	97.00	97.00	0.00	97.00	97.30	96.60	0.00	96.60	
4	13.50	0.00	-999.00	-999.00	12.30	0.00	97.00	96.90	0.00	97.00	97.40	96.50	0.00	96.60	
5	13.40	0.00	-999.00	-999.00	12.10	0.00	96.80	97.00	0.00	95.70	0.00	96.90	97.30	96.50	0.00
6	13.40	0.00	-999.00	-999.00	12.10	0.00	96.70	96.80	0.00	94.80	0.00	96.80	97.10	96.40	0.00
7	14.90	0.00	-999.00	-999.00	12.50	0.00	96.50	96.70	0.00	94.50	0.00	96.60	96.90	96.20	0.00
8	13.60	0.00	-999.00	-999.00	12.70	0.00	96.50	96.50	0.00	94.80	0.00	96.60	96.80	96.30	0.00
9	21.10	0.00	-999.00	-999.00	19.80	0.00	96.50	96.50	0.00	94.50	0.00	96.60	96.80	96.10	0.00
10	26.00	0.00	-999.00	-999.00	20.10	0.00	96.40	96.40	0.00	99.80	0.00	96.50	96.80	96.30	0.00
11	26.20	0.00	-999.00	-999.00	27.20	0.00	96.60	97.30	0.00	100.50	0.00	96.60	97.00	96.50	0.00
12	26.60	0.00	-999.00	-999.00	26.80	0.00	96.70	96.90	0.00	100.20	0.00	96.90	97.10	96.60	0.00
13	26.50	0.00	-999.00	-999.00	26.10	0.00	96.80	97.70	0.00	100.20	0.00	97.10	97.10	96.70	0.00
14	26.90	0.00	-999.00	-999.00	26.20	0.00	97.20	97.00	0.00	100.50	0.00	97.20	97.10	96.70	0.00
15	26.30	0.00	-999.00	-999.00	26.30	0.00	97.60	96.90	0.00	110.00	0.00	97.20	97.10	96.70	0.00
16	26.50	0.00	-999.00	-999.00	26.20	0.00	97.50	96.80	0.00	111.00	0.00	97.30	97.20	96.70	0.00
17	26.20	0.00	-999.00	-999.00	26.70	0.00	97.30	96.70	0.00	111.40	0.00	97.20	97.30	96.70	0.00
18	26.20	0.00	-999.00	-999.00	26.20	0.00	97.30	96.70	0.00	111.80	0.00	97.30	97.30	96.60	0.00
19	26.70	0.00	-999.00	-999.00	26.10	0.00	97.20	96.70	0.00	111.60	0.00	97.20	97.30	96.60	0.00
20	26.30	0.00	-999.00	-999.00	26.20	0.00	97.20	96.70	0.00	111.30	0.00	97.10	97.40	96.70	0.00
21	26.20	0.00	-999.00	-999.00	26.10	0.00	97.20	96.70	0.00	86.80	0.00	97.10	97.40	96.70	0.00
22	26.20	0.00	-999.00	-999.00	26.40	0.00	97.20	96.80	0.00	76.70	0.00	97.20	97.40	96.70	0.00
23	22.20	0.00	-999.00	-999.00	20.00	0.00	97.30	96.80	0.00	75.30	0.00	97.20	97.40	96.70	0.00
24	12.80	0.00	-999.00	-999.00	13.30	0.00	97.20	96.80	0.00	67.30	0.00	97.10	97.60	96.80	0.00

04 JAN 2003

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

04 JAN 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	LOWER GRANITE	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.		
1	1.50	0.00	104.30	-999.00	-999.00	-999.00	0.10	0.00	98.80	98.60	0.20	0.00	-999.00	-999.00	
2	1.50	0.00	104.30	-999.00	-999.00	-999.00	0.10	0.00	98.90	98.80	0.20	0.00	-999.00	-999.00	
3	1.60	0.00	104.30	-999.00	-999.00	-999.00	0.10	0.00	99.00	98.70	0.20	0.00	-999.00	-999.00	
4	1.50	0.00	104.20	-999.00	-999.00	-999.00	2.40	0.00	99.10	99.00	0.20	0.00	-999.00	-999.00	
5	1.50	0.00	104.20	-999.00	-999.00	-999.00	16.20	0.00	99.10	99.20	11.90	0.00	-999.00	-999.00	
6	1.60	0.00	104.30	-999.00	-999.00	-999.00	19.10	0.00	99.20	99.10	17.30	0.00	-999.00	-999.00	
7	1.50	0.00	104.30	-999.00	-999.00	-999.00	22.60	0.00	99.10	99.20	17.30	0.00	-999.00	-999.00	
8	1.50	0.00	104.40	-999.00	-999.00	-999.00	24.40	0.00	99.10	99.10	24.70	0.00	-999.00	-999.00	
9	1.60	0.00	104.50	-999.00	-999.00	-999.00	25.00	0.00	99.10	99.00	24.60	0.00	-999.00	-999.00	
10	1.60	0.00	104.40	-999.00	-999.00	-999.00	24.80	0.00	99.10	99.00	24.70	0.00	-999.00	-999.00	
11	1.60	0.00	104.90	-999.00	-999.00	-999.00	26.70	0.00	99.30	99.00	27.40	0.00	-999.00	-999.00	
12	1.50	0.00	104.90	-999.00	-999.00	-999.00	27.40	0.00	99.30	99.20	27.40	0.00	-999.00	-999.00	
13	1.50	0.00	105.10	-999.00	-999.00	-999.00	27.50	0.00	99.10	99.00	27.40	0.00	-999.00	-999.00	
14	1.60	0.00	105.00	-999.00	-999.00	-999.00	28.10	0.00	99.20	99.10	27.40	0.00	-999.00	-999.00	
15	1.50	0.00	104.90	-999.00	-999.00	-999.00	27.60	0.00	99.20	99.10	27.40	0.00	-999.00	-999.00	
16	1.60	0.00	104.70	-999.00	-999.00	-999.00	27.60	0.00	99.20	98.90	27.00	0.00	-999.00	-999.00	
17	1.50	0.00	104.50	-999.00	-999.00	-999.00	27.70	0.00	99.20	98.80	27.00	0.00	-999.00	-999.00	
18	1.50	0.00	104.50	-999.00	-999.00	-999.00	27.70	0.00	99.00	98.80	27.10	0.00	-999.00	-999.00	
19	1.60	0.00	104.30	-999.00	-999.00	-999.00	28.20	0.00	99.00	98.70	27.10	0.00	-999.00	-999.00	
20	1.50	0.00	104.20	-999.00	-999.00	-999.00	27.80	0.00	99.00	98.60	27.30	0.00	-999.00	-999.00	
21	1.60	0.00	104.40	-999.00	-999.00	-999.00	27.80	0.00	98.90	98.60	27.10	0.00	-999.00	-999.00	
22	1.50	0.00	104.30	-999.00	-999.00	-999.00	27.50	0.00	98.70	98.50	27.30	0.00	-999.00	-999.00	
23	1.60	0.00	104.10	-999.00	-999.00	-999.00	17.10	0.00	98.60	98.30	16.50	0.00	-999.00	-999.00	
24	1.60	0.00	104.10	-999.00	-999.00	-999.00	13.00	0.00	98.50	98.20	13.90	0.00	-999.00	-999.00	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB	WA TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB	GAS %SAT	
1	0.30	0.00	-999.00	-999.00	10.50	0.00	97.20	96.90	0.00	97.30	97.60	96.80	0.00	97.40	
2	0.30	0.00	-999.00	-999.00	0.30	0.00	97.10	96.90	0.00	97.20	97.70	96.90	0.00	97.40	
3	0.30	0.00	-999.00	-999.00	0.30	0.00	97.20	96.90	0.00	97.30	97.80	97.00	0.00	97.50	
4	0.30	0.00	-999.00	-999.00	0.30	0.00	97.30	96.90	0.00	97.50	97.90	97.00	0.00	97.60	
5	2.20	0.00	-999.00	-999.00	0.90	0.00	97.30	97.00	0.00	97.70	98.00	97.20	0.00	97.50	
6	13.40	0.00	-999.00	-999.00	11.60	0.00	97.40	97.00	0.00	97.60	97.90	97.10	0.00	97.50	
7	13.20	0.00	-999.00	-999.00	13.10	0.00	97.20	96.90	0.00	97.40	97.80	97.00	0.00	97.40	
8	20.60	0.00	-999.00	-999.00	20.70	0.00	97.30	97.10	0.00	97.30	97.80	97.10	0.00	97.50	
9	25.30	0.00	-999.00	-999.00	25.00	0.00	97.50	98.20	0.00	97.50	97.90	97.20	0.00	97.60	
10	26.40	0.00	-999.00	-999.00	23.90	0.00	97.50	98.40	0.00	97.70	98.10	97.50	0.00	97.80	
11	27.60	0.00	-999.00	-999.00	26.80	0.00	97.60	97.60	0.00	97.50	97.80	97.10	0.00	97.70	
12	27.90	0.00	-999.00	-999.00	27.60	0.00	97.40	97.80	0.00	97.50	97.90	97.40	0.00	97.70	
13	27.30	0.00	-999.00	-999.00	28.20	0.00	97.60	97.50	0.00	97.60	98.10	97.40	0.00	97.90	
14	27.30	0.00	-999.00	-999.00	27.60	0.00	97.70	97.50	0.00	97.50	98.00	97.30	0.00	97.80	
15	27.30	0.00	-999.00	-999.00	27.50	0.00	97.70	97.40	0.00	97.50	98.00	97.30	0.00	98.00	
16	27.40	0.00	-999.00	-999.00	27.50	0.00	97.70	97.40	0.00	97.50	97.80	97.20	0.00	98.00	
17	28.00	0.00	-999.00	-999.00	28.00	0.00	97.40	97.10	0.00	97.30	97.70	96.90	0.00	97.90	
18	27.50	0.00	-999.00	-999.00	27.50	0.00	97.40	97.10	0.00	97.30	97.50	96.80	0.00	97.90	
19	27.50	0.00	-999.00	-999.00	27.40	0.00	97.40	97.00	0.00	97.20	97.50	96.80	0.00	97.80	
20	27.60	0.00	-999.00	-999.00	26.40	0.00	97.20	96.80	0.00	97.10	97.30	96.60	0.00	97.70	
21	27.50	0.00	-999.00	-999.00	26.30	0.00	97.10	96.90	0.00	97.00	97.20	96.60	0.00	97.60	
22	27.50	0.00	-999.00	-999.00	26.90	0.00	97.00	96.60	0.00	96.80	97.20	96.50	0.00	97.50	
23	27.50	0.00	-999.00	-999.00	26.10	0.00	96.90	96.50	0.00	96.80	97.00	96.30	0.00	97.30	
24	18.10	0.00	-999.00	-999.00	19.00	0.00	96.70	96.40	0.00	96.80	97.00	96.20	0.00	97.10	

05 JAN 2003

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

05 JAN 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	LOWER GRANITE	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.		
1	1.50	0.00	103.70	-999.00	-999.00	-999.00	0.20	0.00	98.30	98.10	0.20	0.00	-999.00	-999.00	
2	1.50	0.00	103.60	-999.00	-999.00	-999.00	0.20	0.00	98.20	98.00	0.20	0.00	-999.00	-999.00	
3	1.60	0.00	103.90	-999.00	-999.00	-999.00	0.20	0.00	98.00	98.00	0.20	0.00	-999.00	-999.00	
4	1.50	0.00	104.00	-999.00	-999.00	-999.00	0.20	0.00	98.00	97.90	0.20	0.00	-999.00	-999.00	
5	1.50	0.00	104.00	-999.00	-999.00	-999.00	0.20	0.00	97.90	97.80	0.20	0.00	-999.00	-999.00	
6	1.60	0.00	103.90	-999.00	-999.00	-999.00	1.10	0.00	97.90	97.80	0.20	0.00	-999.00	-999.00	
7	1.50	0.00	103.80	-999.00	-999.00	-999.00	13.50	0.00	97.80	97.90	13.80	0.00	-999.00	-999.00	
8	1.60	0.00	103.80	-999.00	-999.00	-999.00	20.20	0.00	97.60	97.60	13.80	0.00	-999.00	-999.00	
9	1.50	0.00	103.80	-999.00	-999.00	-999.00	20.70	0.00	97.50	97.40	19.40	0.00	-999.00	-999.00	
10	1.60	0.00	104.00	-999.00	-999.00	-999.00	24.70	0.00	97.40	97.40	19.50	0.00	-999.00	-999.00	
11	1.50	0.00	104.30	-999.00	-999.00	-999.00	22.00	0.00	97.50	104.00	19.70	0.00	-999.00	-999.00	
12	1.60	0.00	104.30	-999.00	-999.00	-999.00	21.20	0.00	97.70	108.40	19.50	0.00	-999.00	-999.00	
13	1.50	0.00	104.30	-999.00	-999.00	-999.00	21.20	0.00	97.70	101.60	19.50	0.00	-999.00	-999.00	
14	1.60	0.00	104.30	-999.00	-999.00	-999.00	21.10	0.00	97.80	100.70	19.50	0.00	-999.00	-999.00	
15	1.50	0.00	104.10	-999.00	-999.00	-999.00	21.60	0.00	97.80	99.60	19.50	0.00	-999.00	-999.00	
16	1.50	0.00	103.90	-999.00	-999.00	-999.00	21.20	0.00	98.00	98.80	19.40	0.00	-999.00	-999.00	
17	1.50	0.00	103.70	-999.00	-999.00	-999.00	23.70	0.00	97.80	98.50	19.50	0.00	-999.00	-999.00	
18	1.50	0.00	103.50	-999.00	-999.00	-999.00	25.70	0.00	98.00	98.10	25.20	0.00	-999.00	-999.00	
19	1.50	0.00	103.50	-999.00	-999.00	-999.00	26.10	0.00	97.90	98.00	24.90	0.00	-999.00	-999.00	
20	1.50	0.00	103.40	-999.00	-999.00	-999.00	32.90	0.00	97.90	97.90	33.80	0.00	-999.00	-999.00	
21	1.50	0.00	103.30	-999.00	-999.00	-999.00	33.80	0.00	97.80	97.80	37.30	0.00	-999.00	-999.00	
22	1.50	0.00	103.30	-999.00	-999.00	-999.00	27.10	0.00	97.70	97.70	31.90	0.00	-999.00	-999.00	
23	1.50	0.00	103.30	-999.00	-999.00	-999.00	13.40	0.00	97.70	97.90	14.10	0.00	-999.00	-999.00	
24	1.60	0.00	103.50	-999.00	-999.00	-999.00	0.10	0.00	97.70	97.60	0.20	0.00	-999.00	-999.00	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	MCNARY	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	PASCO	
1	0.30	0.00	-999.00	-999.00	1.10	0.00	96.40	96.30	67.70	0.00	96.70	96.80	96.10	97.00	
2	0.30	0.00	-999.00	-999.00	0.30	0.00	96.30	96.00	67.10	0.00	96.40	96.70	96.00	96.90	
3	0.30	0.00	-999.00	-999.00	0.30	0.00	96.20	95.90	67.40	0.00	96.40	96.60	95.80	96.60	
4	0.30	0.00	-999.00	-999.00	0.30	0.00	96.10	95.70	67.30	0.00	96.50	96.60	95.90	96.60	
5	0.30	0.00	-999.00	-999.00	0.30	0.00	96.10	95.70	67.10	0.00	96.40	96.40	95.90	96.50	
6	1.80	0.00	-999.00	-999.00	1.40	0.00	96.00	95.70	67.00	0.00	96.20	96.30	95.80	96.50	
7	18.70	0.00	-999.00	-999.00	11.90	0.00	95.80	95.60	68.40	0.00	96.20	96.30	95.70	96.40	
8	18.10	0.00	-999.00	-999.00	18.10	0.00	95.80	95.40	67.20	0.00	96.10	96.20	95.60	96.20	
9	18.20	0.00	-999.00	-999.00	19.30	0.00	95.80	95.50	79.50	0.00	96.00	96.30	95.70	96.10	
10	18.10	0.00	-999.00	-999.00	17.80	0.00	95.80	96.40	94.10	0.00	96.00	96.20	95.70	96.10	
11	17.90	0.00	-999.00	-999.00	17.70	0.00	95.80	96.50	94.10	0.00	96.30	96.20	95.90	96.00	
12	18.10	0.00	-999.00	-999.00	17.60	0.00	95.80	97.30	100.60	0.00	96.60	96.30	95.90	96.00	
13	18.00	0.00	-999.00	-999.00	19.40	0.00	95.70	96.70	103.40	0.00	96.60	96.30	95.90	96.10	
14	17.90	0.00	-999.00	-999.00	17.50	0.00	95.70	96.30	108.10	0.00	96.90	96.40	95.90	96.20	
15	18.30	0.00	-999.00	-999.00	17.60	0.00	95.70	96.20	108.50	0.00	96.70	96.40	95.90	96.10	
16	19.30	0.00	-999.00	-999.00	18.70	0.00	95.60	96.30	111.00	0.00	96.30	96.30	95.70	96.10	
17	20.40	0.00	-999.00	-999.00	18.90	0.00	95.60	96.40	115.70	0.00	96.50	96.30	95.70	96.20	
18	27.60	0.00	-999.00	-999.00	23.70	0.00	95.60	95.70	119.40	0.00	96.30	96.30	95.70	96.10	
19	26.20	0.00	-999.00	-999.00	23.80	0.00	95.50	95.60	115.20	0.00	96.30	96.30	95.70	96.00	
20	39.50	0.00	-999.00	-999.00	34.00	0.00	95.70	95.40	114.80	0.00	96.30	96.40	95.70	95.90	
21	39.90	0.00	-999.00	-999.00	39.30	0.00	95.60	96.10	114.20	0.00	96.40	96.40	95.70	95.90	
22	34.50	0.00	-999.00	-999.00	34.00	0.00	95.70	95.40	103.20	0.00	96.40	96.40	95.70	95.90	
23	33.40	0.00	-999.00	-999.00	34.10	0.00	95.60	95.50	76.70	0.00	96.40	96.50	95.50	95.90	
24	18.20	0.00	-999.00	-999.00	20.70	0.00	95.60	95.50	66.70	0.00	96.20	96.40	95.50	95.80	

06 JAN 2003

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

06 JAN 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	LOWER GRANITE	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.		
1	1.50	0.00	103.70	-999.00	-999.00	-999.00	0.10	0.00	97.90	97.90	0.20	0.00	-999.00	-999.00	
2	1.50	0.00	103.50	-999.00	-999.00	-999.00	0.10	0.00	97.90	97.90	0.20	0.00	-999.00	-999.00	
3	1.60	0.00	103.40	-999.00	-999.00	-999.00	0.70	0.00	97.90	97.90	0.20	0.00	-999.00	-999.00	
4	1.50	0.00	103.40	-999.00	-999.00	-999.00	13.10	0.00	97.90	98.50	0.20	0.00	-999.00	-999.00	
5	1.50	0.00	103.40	-999.00	-999.00	-999.00	13.50	0.00	97.80	97.90	13.70	0.00	-999.00	-999.00	
6	1.60	0.00	103.40	-999.00	-999.00	-999.00	17.40	0.00	97.80	97.90	17.30	0.00	-999.00	-999.00	
7	1.50	0.00	103.30	-999.00	-999.00	-999.00	26.60	0.00	97.70	97.80	29.10	0.00	-999.00	-999.00	
8	1.60	0.00	103.20	-999.00	-999.00	-999.00	27.00	0.00	97.80	97.80	27.30	0.00	-999.00	-999.00	
9	1.50	0.00	103.50	-999.00	-999.00	-999.00	27.00	0.00	97.80	97.70	27.50	0.00	-999.00	-999.00	
10	1.60	0.00	104.00	-999.00	-999.00	-999.00	31.40	0.00	97.80	98.00	30.30	0.00	-999.00	-999.00	
11	1.50	0.00	104.40	-999.00	-999.00	-999.00	30.40	0.00	97.90	98.10	30.10	0.00	-999.00	-999.00	
12	1.60	0.00	104.50	-999.00	-999.00	-999.00	30.20	0.00	98.00	97.90	30.30	0.00	-999.00	-999.00	
13	1.50	0.00	105.10	-999.00	-999.00	-999.00	28.90	0.00	98.00	98.00	30.30	0.00	-999.00	-999.00	
14	1.60	0.00	104.80	-999.00	-999.00	-999.00	28.70	0.00	98.10	98.00	30.20	0.00	-999.00	-999.00	
15	1.50	0.00	104.70	-999.00	-999.00	-999.00	26.10	0.00	98.10	97.80	30.20	0.00	-999.00	-999.00	
16	1.60	0.00	104.60	-999.00	-999.00	-999.00	26.00	0.00	98.10	97.80	29.70	0.00	-999.00	-999.00	
17	1.70	0.00	104.20	-999.00	-999.00	-999.00	26.60	0.00	98.10	97.80	30.30	0.00	-999.00	-999.00	
18	1.60	0.00	103.50	-999.00	-999.00	-999.00	27.80	0.00	98.10	98.60	30.00	0.00	-999.00	-999.00	
19	1.50	0.00	102.40	-999.00	-999.00	-999.00	26.20	0.00	98.10	97.80	29.70	0.00	-999.00	-999.00	
20	1.60	0.00	103.20	-999.00	-999.00	-999.00	32.40	0.00	98.10	98.00	33.90	0.00	-999.00	-999.00	
21	1.50	0.00	103.40	-999.00	-999.00	-999.00	32.90	0.00	98.10	98.00	34.00	0.00	-999.00	-999.00	
22	1.60	0.00	103.50	-999.00	-999.00	-999.00	34.00	0.00	98.10	98.00	34.50	0.00	-999.00	-999.00	
23	1.50	0.00	103.40	-999.00	-999.00	-999.00	1.20	0.00	98.10	98.10	14.10	0.00	-999.00	-999.00	
24	1.60	0.00	103.40	-999.00	-999.00	-999.00	0.10	0.00	98.10	98.00	0.20	0.00	-999.00	-999.00	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB	WA TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB	GAS %SAT	
1	0.20	0.00	-999.00	-999.00	0.80	0.00	95.60	95.40	66.80	0.00	96.20	96.40	95.50	95.70	
2	0.20	0.00	-999.00	-999.00	0.30	0.00	95.60	95.40	63.20	0.00	96.00	96.40	95.50	95.60	
3	0.20	0.00	-999.00	-999.00	0.30	0.00	95.50	95.40	80.50	0.00	96.00	96.30	95.50	95.60	
4	0.20	0.00	-999.00	-999.00	0.30	0.00	95.50	95.30	81.50	0.00	96.00	96.40	95.50	95.60	
5	1.70	0.00	-999.00	-999.00	0.30	0.00	95.50	95.30	94.60	0.00	96.10	96.40	95.50	95.60	
6	1.60	0.00	-999.00	-999.00	1.40	0.00	95.50	95.20	113.80	0.00	95.90	96.30	95.60	95.40	
7	18.80	0.00	-999.00	-999.00	10.30	0.00	95.50	95.30	114.50	0.00	95.90	96.20	95.50	95.40	
8	26.60	0.00	-999.00	-999.00	12.00	0.00	95.50	95.30	113.60	0.00	95.90	96.10	95.60	95.40	
9	29.40	0.00	-999.00	-999.00	23.60	0.00	95.60	96.00	113.90	0.00	96.00	96.10	95.60	95.40	
10	31.40	0.00	-999.00	-999.00	28.20	0.00	95.60	96.30	108.70	0.00	96.00	96.10	96.40	95.40	
11	31.20	0.00	-999.00	-999.00	28.50	0.00	95.60	96.80	106.30	0.00	96.20	96.20	96.50	95.40	
12	32.80	0.00	-999.00	-999.00	34.10	0.00	95.70	96.00	105.30	0.00	96.30	96.30	96.20	95.50	
13	33.30	0.00	-999.00	-999.00	32.80	0.00	95.90	96.00	103.40	0.00	96.30	96.30	96.00	95.70	
14	33.60	0.00	-999.00	-999.00	33.30	0.00	96.00	96.20	102.20	0.00	96.40	96.40	95.90	95.80	
15	33.00	0.00	-999.00	-999.00	32.70	0.00	95.90	96.10	104.60	0.00	96.60	96.40	96.00	95.80	
16	32.80	0.00	-999.00	-999.00	32.80	0.00	95.90	95.80	106.20	0.00	96.60	96.60	95.90	95.90	
17	32.70	0.00	-999.00	-999.00	32.90	0.00	95.90	95.80	106.90	0.00	96.50	96.60	95.90	96.00	
18	33.60	0.00	-999.00	-999.00	32.80	0.00	95.90	95.70	115.50	0.00	96.50	96.60	95.90	96.10	
19	32.70	0.00	-999.00	-999.00	33.30	0.00	95.90	95.70	124.40	0.00	96.50	96.50	95.90	96.10	
20	33.60	0.00	-999.00	-999.00	34.30	0.00	96.00	95.80	140.10	0.00	96.50	96.50	95.90	96.20	
21	34.10	0.00	-999.00	-999.00	34.30	0.00	96.00	95.80	139.60	0.00	96.50	96.50	95.90	96.20	
22	33.90	0.00	-999.00	-999.00	34.10	0.00	96.00	95.80	119.40	0.00	96.50	96.50	95.90	96.20	
23	27.30	0.00	-999.00	-999.00	27.80	0.00	96.00	95.80	92.90	0.00	96.40	96.50	95.90	96.20	
24	14.40	0.00	-999.00	-999.00	13.80	0.00	96.00	95.80	83.60	0.00	96.60	96.50	95.90	96.40	

07 JAN 2003

WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT

07 JAN 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.			
1	1.50	0.00	103.40	-999.00	-999.00	-999.00	0.10	0.00	98.20	98.20	0.20	0.00	-999.00	-999.00	
2	1.60	0.00	103.40	-999.00	-999.00	-999.00	0.10	0.00	98.20	98.20	0.20	0.00	-999.00	-999.00	
3	1.50	0.00	103.50	-999.00	-999.00	-999.00	0.10	0.00	98.10	98.20	0.20	0.00	-999.00	-999.00	
4	1.60	0.00	103.50	-999.00	-999.00	-999.00	0.10	0.00	98.30	98.40	1.70	0.00	-999.00	-999.00	
5	1.50	0.00	103.60	-999.00	-999.00	-999.00	0.10	0.00	98.30	98.40	0.20	0.00	-999.00	-999.00	
6	1.60	0.00	103.60	-999.00	-999.00	-999.00	0.80	0.00	98.20	98.40	0.20	0.00	-999.00	-999.00	
7	1.50	0.00	103.50	-999.00	-999.00	-999.00	19.70	0.00	98.20	98.30	21.30	0.00	-999.00	-999.00	
8	1.60	0.00	103.50	-999.00	-999.00	-999.00	21.20	0.00	98.10	98.10	21.10	0.00	-999.00	-999.00	
9	1.60	0.00	103.60	-999.00	-999.00	-999.00	26.60	0.00	98.10	98.00	27.60	0.00	-999.00	-999.00	
10	1.50	0.00	103.70	-999.00	-999.00	-999.00	27.00	0.00	98.10	97.90	27.30	0.00	-999.00	-999.00	
11	1.60	0.00	103.90	-999.00	-999.00	-999.00	26.90	0.00	98.20	98.00	27.50	0.00	-999.00	-999.00	
12	1.50	0.00	104.20	-999.00	-999.00	-999.00	27.00	0.00	98.20	97.90	27.30	0.00	-999.00	-999.00	
13	1.60	0.00	104.30	-999.00	-999.00	-999.00	27.50	0.00	98.30	98.00	27.30	0.00	-999.00	-999.00	
14	1.50	0.00	104.40	-999.00	-999.00	-999.00	26.90	0.00	98.30	98.00	27.50	0.00	-999.00	-999.00	
15	1.60	0.00	104.40	-999.00	-999.00	-999.00	27.10	0.00	98.30	98.00	34.80	0.00	-999.00	-999.00	
16	1.50	0.00	104.20	-999.00	-999.00	-999.00	27.00	0.00	98.20	98.00	27.20	0.00	-999.00	-999.00	
17	1.60	0.00	104.10	-999.00	-999.00	-999.00	29.40	0.00	98.20	98.10	27.40	0.00	-999.00	-999.00	
18	1.50	0.00	103.90	-999.00	-999.00	-999.00	30.50	0.00	98.20	98.00	27.30	0.00	-999.00	-999.00	
19	1.60	0.00	103.80	-999.00	-999.00	-999.00	32.40	0.00	98.20	98.00	29.00	0.00	-999.00	-999.00	
20	1.50	0.00	103.80	-999.00	-999.00	-999.00	32.70	0.00	98.10	98.00	30.70	0.00	-999.00	-999.00	
21	1.60	0.00	103.80	-999.00	-999.00	-999.00	32.60	0.00	98.10	98.00	29.90	0.00	-999.00	-999.00	
22	1.50	0.00	103.80	-999.00	-999.00	-999.00	32.10	0.00	98.10	97.90	25.80	0.00	-999.00	-999.00	
23	1.60	0.00	103.80	-999.00	-999.00	-999.00	18.90	0.00	98.20	98.10	21.70	0.00	-999.00	-999.00	
24	1.50	0.00	103.80	-999.00	-999.00	-999.00	0.40	0.00	98.30	98.00	1.70	0.00	-999.00	-999.00	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.			
1	13.60	0.00	-999.00	-999.00	11.50	0.00	95.90	95.80	83.00	0.00	96.50	96.50	96.00		96.40
2	1.00	0.00	-999.00	-999.00	0.30	0.00	96.00	95.70	83.00	0.00	96.50	96.60	96.00		96.40
3	0.10	0.00	-999.00	-999.00	0.30	0.00	96.00	95.70	75.30	0.00	96.50	96.60	95.90		96.40
4	0.10	0.00	-999.00	-999.00	0.30	0.00	96.00	95.80	91.90	0.00	96.50	96.70	95.90		96.50
5	0.10	0.00	-999.00	-999.00	0.30	0.00	96.00	95.70	92.30	0.00	96.50	96.60	95.90		96.40
6	1.90	0.00	-999.00	-999.00	1.40	0.00	96.00	95.60	92.60	0.00	96.50	96.60	95.90		96.50
7	18.80	0.00	-999.00	-999.00	11.40	0.00	96.00	95.80	111.80	0.00	96.50	96.70	95.90		96.40
8	19.80	0.00	-999.00	-999.00	12.50	0.00	96.00	95.80	117.50	0.00	96.50	96.60	96.00		96.40
9	28.80	0.00	-999.00	-999.00	18.70	0.00	95.90	95.80	108.80	0.00	96.50	96.60	96.00		96.40
10	26.50	0.00	-999.00	-999.00	24.50	0.00	95.90	96.60	103.90	0.00	96.50	96.60	96.00		96.40
11	27.10	0.00	-999.00	-999.00	24.10	0.00	95.90	96.70	98.10	0.00	96.60	96.60	96.10		96.40
12	27.20	0.00	-999.00	-999.00	25.70	0.00	96.00	96.30	80.80	0.00	96.80	96.70	96.20		96.60
13	27.40	0.00	-999.00	-999.00	24.00	0.00	96.10	96.40	90.70	0.00	96.90	96.70	96.20		96.70
14	27.20	0.00	-999.00	-999.00	24.00	0.00	96.10	97.00	91.70	0.00	96.90	96.70	96.30		96.70
15	26.90	0.00	-999.00	-999.00	24.30	0.00	96.20	97.30	91.60	0.00	96.90	96.80	96.30		96.80
16	26.90	0.00	-999.00	-999.00	25.60	0.00	96.20	96.40	101.90	0.00	96.90	96.70	96.30		96.80
17	30.30	0.00	-999.00	-999.00	29.30	0.00	96.20	96.20	112.00	0.00	96.90	96.70	96.30		96.80
18	32.60	0.00	-999.00	-999.00	31.60	0.00	96.20	97.00	116.40	0.00	96.90	96.70	96.20		96.80
19	32.70	0.00	-999.00	-999.00	31.90	0.00	96.20	96.20	121.00	0.00	96.90	96.70	96.30		96.90
20	33.30	0.00	-999.00	-999.00	32.40	0.00	96.20	96.00	131.20	0.00	96.90	96.90	96.30		96.80
21	32.60	0.00	-999.00	-999.00	31.80	0.00	96.20	96.00	131.20	0.00	96.90	96.90	96.40		96.80
22	32.00	0.00	-999.00	-999.00	31.70	0.00	96.20	96.00	129.80	0.00	96.90	96.90	96.60		96.80
23	18.10	0.00	-999.00	-999.00	31.50	0.00	96.20	96.00	93.30	0.00	97.00	96.90	96.60		96.80
24	0.10	0.00	-999.00	-999.00	18.30	0.00	96.10	96.00	74.60	0.00	97.20	96.90	96.50		96.70

08 JAN 2003

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

08 JAN 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	LOWER GRANITE	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.		
1	1.60	0.00	103.80	-999.00	-999.00	-999.00	0.10	0.00	98.20	98.20	0.20	0.00	-999.00	-999.00	
2	1.50	0.00	103.80	-999.00	-999.00	-999.00	0.10	0.00	98.10	98.20	0.20	0.00	-999.00	-999.00	
3	1.60	0.00	103.80	-999.00	-999.00	-999.00	0.10	0.00	98.10	98.00	0.20	0.00	-999.00	-999.00	
4	1.50	0.00	103.90	-999.00	-999.00	-999.00	0.10	0.00	98.20	98.00	0.20	0.00	-999.00	-999.00	
5	1.60	0.00	103.90	-999.00	-999.00	-999.00	0.10	0.00	98.20	98.10	0.20	0.00	-999.00	-999.00	
6	1.50	0.00	103.90	-999.00	-999.00	-999.00	11.60	0.00	98.20	98.40	11.80	0.00	-999.00	-999.00	
7	1.60	0.00	104.00	-999.00	-999.00	-999.00	18.00	0.00	98.10	98.40	18.90	0.00	-999.00	-999.00	
8	1.50	0.00	104.00	-999.00	-999.00	-999.00	18.40	0.00	98.10	98.20	18.60	0.00	-999.00	-999.00	
9	1.60	0.00	104.00	-999.00	-999.00	-999.00	18.60	0.00	98.10	98.50	19.80	0.00	-999.00	-999.00	
10	1.50	0.00	104.30	-999.00	-999.00	-999.00	18.40	0.00	98.00	98.10	22.40	0.00	-999.00	-999.00	
11	1.60	0.00	104.70	-999.00	-999.00	-999.00	20.40	0.00	98.10	98.10	12.60	0.00	-999.00	-999.00	
12	1.50	0.00	104.80	-999.00	-999.00	-999.00	20.60	0.00	98.20	98.10	16.70	0.00	-999.00	-999.00	
13	1.60	0.00	104.80	-999.00	-999.00	-999.00	20.70	0.00	98.30	98.30	20.20	0.00	-999.00	-999.00	
14	1.50	0.00	104.70	-999.00	-999.00	-999.00	20.90	0.00	98.30	98.30	10.40	0.00	-999.00	-999.00	
15	1.60	0.00	104.50	-999.00	-999.00	-999.00	20.70	0.00	98.30	98.20	11.50	0.00	-999.00	-999.00	
16	1.50	0.00	104.40	-999.00	-999.00	-999.00	27.40	0.00	98.30	98.40	11.80	0.00	-999.00	-999.00	
17	1.60	0.00	104.20	-999.00	-999.00	-999.00	27.20	0.00	98.20	98.10	24.20	0.00	-999.00	-999.00	
18	1.40	0.00	104.00	-999.00	-999.00	-999.00	30.30	0.00	98.30	98.10	31.50	0.00	-999.00	-999.00	
19	1.50	0.00	105.20	-999.00	-999.00	-999.00	33.10	0.00	98.10	98.00	31.40	0.00	-999.00	-999.00	
20	1.50	0.00	107.30	-999.00	-999.00	-999.00	32.80	0.00	98.30	98.20	31.60	0.00	-999.00	-999.00	
21	1.50	0.00	105.90	-999.00	-999.00	-999.00	39.70	0.00	98.10	98.00	38.00	0.00	-999.00	-999.00	
22	1.50	0.00	105.30	-999.00	-999.00	-999.00	39.20	0.00	98.10	98.00	39.20	0.00	-999.00	-999.00	
23	1.50	0.00	105.10	-999.00	-999.00	-999.00	14.30	0.00	98.10	98.10	18.80	0.00	-999.00	-999.00	
24	1.50	0.00	105.10	-999.00	-999.00	-999.00	0.00	0.00	98.20	98.20	1.50	0.00	-999.00	-999.00	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	MCNARY	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	PASCO	
1	0.10	0.00	-999.00	-999.00	9.30	0.00	96.20	96.00	76.40	0.00	97.30	97.00	96.50	0.00	96.80
2	0.10	0.00	-999.00	-999.00	9.10	0.00	96.20	95.90	74.20	0.00	97.30	97.00	96.50	0.00	96.60
3	0.10	0.00	-999.00	-999.00	9.20	0.00	96.20	95.90	91.70	0.00	97.20	97.00	96.50	0.00	96.60
4	0.10	0.00	-999.00	-999.00	9.20	0.00	96.20	96.00	113.90	0.00	97.30	97.00	96.60	0.00	96.60
5	19.00	0.00	-999.00	-999.00	9.40	0.00	96.20	96.00	142.70	0.00	97.30	97.10	96.60	0.00	96.60
6	18.40	0.00	-999.00	-999.00	9.30	0.00	96.30	96.00	149.90	0.00	97.30	97.10	96.70	0.00	96.50
7	18.70	0.00	-999.00	-999.00	12.40	0.00	96.30	96.30	150.70	0.00	97.30	97.00	96.70	0.00	96.60
8	18.40	0.00	-999.00	-999.00	18.20	0.00	96.30	96.40	150.10	0.00	97.30	97.10	96.90	0.00	96.60
9	18.40	0.00	-999.00	-999.00	19.80	0.00	96.20	96.40	130.80	0.00	97.30	97.10	96.80	0.00	96.60
10	18.20	0.00	-999.00	-999.00	18.00	0.00	96.20	96.40	110.40	0.00	97.40	97.10	96.80	0.00	96.60
11	13.20	0.00	-999.00	-999.00	9.40	0.00	96.30	96.60	88.80	0.00	97.60	97.30	96.70	0.00	96.70
12	12.90	0.00	-999.00	-999.00	9.00	0.00	96.20	96.50	90.70	0.00	97.50	97.40	96.90	0.00	96.70
13	13.10	0.00	-999.00	-999.00	9.00	0.00	96.20	96.60	91.80	0.00	97.70	97.40	97.00	0.00	96.80
14	14.60	0.00	-999.00	-999.00	9.10	0.10	96.40	96.60	100.20	0.00	97.70	97.40	97.00	0.00	96.90
15	14.80	0.00	-999.00	-999.00	10.60	0.00	96.40	96.60	110.20	0.00	97.60	97.60	97.00	0.00	97.00
16	15.00	0.00	-999.00	-999.00	9.30	0.00	96.30	96.60	110.80	0.00	97.60	97.60	99.20	0.00	97.00
17	20.50	0.00	-999.00	-999.00	18.80	0.00	96.40	97.50	120.30	0.00	97.60	97.60	97.00	0.00	97.00
18	30.40	0.00	-999.00	-999.00	32.40	0.00	96.40	96.70	129.30	0.00	97.60	97.50	97.00	0.00	97.00
19	38.10	0.00	-999.00	-999.00	33.70	0.00	96.50	97.00	129.70	0.00	97.60	97.60	97.00	0.00	96.90
20	39.20	0.00	-999.00	-999.00	34.50	0.00	96.50	96.30	129.90	0.00	97.60	97.60	97.00	0.00	96.90
21	39.90	0.00	-999.00	-999.00	38.10	0.00	96.40	96.30	128.80	0.00	97.60	97.60	97.00	0.00	96.90
22	39.50	0.00	-999.00	-999.00	38.10	0.00	96.40	96.30	128.70	0.00	97.60	97.60	97.00	0.00	96.80
23	30.00	0.00	-999.00	-999.00	28.90	0.00	96.40	96.30	115.50	0.00	97.50	97.60	97.00	0.00	96.80
24	20.00	0.00	-999.00	-999.00	12.80	0.00	96.40	96.30	108.60	0.00	97.60	97.60	97.00	0.00	96.70

09 JAN 2003

WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT

09 JAN 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	LITTLE GOOSE	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.		
1	1.50	0.00	105.10	-999.00	-999.00	-999.00	0.00	0.00	98.20	98.00	0.00	0.00	-999.00	-999.00	-999.00
2	1.50	0.00	105.10	-999.00	-999.00	-999.00	0.00	0.00	98.10	98.00	0.00	0.00	-999.00	-999.00	-999.00
3	1.50	0.00	105.10	-999.00	-999.00	-999.00	0.00	0.00	98.10	98.00	0.00	0.00	-999.00	-999.00	-999.00
4	1.50	0.00	105.00	-999.00	-999.00	-999.00	0.90	0.00	98.10	98.00	0.00	0.00	-999.00	-999.00	-999.00
5	1.50	0.00	105.00	-999.00	-999.00	-999.00	13.30	0.00	98.10	98.10	0.00	0.00	-999.00	-999.00	-999.00
6	1.50	0.00	104.90	-999.00	-999.00	-999.00	13.40	0.00	98.00	98.20	11.60	0.00	-999.00	-999.00	-999.00
7	1.50	0.00	104.90	-999.00	-999.00	-999.00	13.60	0.00	98.00	98.20	11.50	0.00	-999.00	-999.00	-999.00
8	1.50	0.00	105.00	-999.00	-999.00	-999.00	19.40	0.00	98.00	98.00	11.30	0.00	-999.00	-999.00	-999.00
9	1.50	0.00	105.20	-999.00	-999.00	-999.00	20.20	0.00	97.90	98.00	21.30	0.00	-999.00	-999.00	-999.00
10	1.50	0.00	105.50	-999.00	-999.00	-999.00	19.90	0.00	98.10	98.00	23.30	0.00	-999.00	-999.00	-999.00
11	1.50	0.00	105.70	-999.00	-999.00	-999.00	19.80	0.00	98.10	98.20	24.40	0.00	-999.00	-999.00	-999.00
12	1.50	0.00	106.00	-999.00	-999.00	-999.00	19.70	0.00	98.20	98.10	24.60	0.00	-999.00	-999.00	-999.00
13	1.50	0.00	106.00	-999.00	-999.00	-999.00	19.80	0.00	98.30	98.20	26.30	0.00	-999.00	-999.00	-999.00
14	1.50	0.00	105.90	-999.00	-999.00	-999.00	21.60	0.00	98.40	98.20	28.90	0.00	-999.00	-999.00	-999.00
15	1.50	0.00	105.60	-999.00	-999.00	-999.00	27.20	0.00	98.40	98.20	30.30	0.00	-999.00	-999.00	-999.00
16	1.50	0.00	105.30	-999.00	-999.00	-999.00	28.40	0.00	98.40	98.40	30.10	0.00	-999.00	-999.00	-999.00
17	1.50	0.00	105.20	-999.00	-999.00	-999.00	26.80	0.00	98.40	98.10	30.50	0.00	-999.00	-999.00	-999.00
18	1.50	0.00	105.00	-999.00	-999.00	-999.00	30.80	0.00	98.40	98.20	31.40	0.00	-999.00	-999.00	-999.00
19	1.50	0.00	105.20	-999.00	-999.00	-999.00	31.20	0.00	98.40	98.20	33.60	0.00	-999.00	-999.00	-999.00
20	1.50	0.00	105.20	-999.00	-999.00	-999.00	31.90	0.00	98.50	98.20	35.00	0.00	-999.00	-999.00	-999.00
21	1.50	0.00	105.20	-999.00	-999.00	-999.00	31.40	0.00	98.40	98.20	33.00	0.00	-999.00	-999.00	-999.00
22	1.50	0.00	105.20	-999.00	-999.00	-999.00	30.80	0.00	98.30	98.20	32.80	0.00	-999.00	-999.00	-999.00
23	1.50	0.00	105.30	-999.00	-999.00	-999.00	15.10	0.00	98.30	98.30	14.90	0.00	-999.00	-999.00	-999.00
24	1.50	0.00	105.20	-999.00	-999.00	-999.00	13.00	0.00	98.30	98.20	13.80	0.00	-999.00	-999.00	-999.00

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. WA FB TAILW.	PASCO	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB	GAS %SAT	
1	1.60	0.00	-999.00	-999.00	12.10	0.00	96.40	96.20	97.60	97.00	0.00	0.00	96.70		
2	0.10	0.00	-999.00	-999.00	9.10	0.00	96.40	96.20	97.60	97.00	0.00	0.00	96.60		
3	0.10	0.00	-999.00	-999.00	9.00	0.00	96.40	96.20	97.60	97.00	0.00	0.00	96.50		
4	0.10	0.00	-999.00	-999.00	9.00	0.00	96.40	96.20	97.60	96.90	0.00	0.00	96.60		
5	0.10	0.00	-999.00	-999.00	9.00	0.00	96.40	96.20	97.60	96.90	0.00	0.00	96.40		
6	0.10	0.00	-999.00	-999.00	10.60	0.00	96.50	96.40	97.60	97.00	0.00	0.00	96.50		
7	12.60	0.00	-999.00	-999.00	9.00	0.00	96.40	96.40	97.60	97.00	0.00	0.00	96.50		
8	13.40	0.00	-999.00	-999.00	9.00	0.00	96.40	96.40	97.50	97.00	0.00	0.00	96.30		
9	20.30	0.00	-999.00	-999.00	9.70	0.00	96.40	96.40	97.40	96.90	0.00	0.00	96.30		
10	20.90	0.00	-999.00	-999.00	19.80	0.00	96.40	96.50	97.40	97.40	0.00	0.00	96.20		
11	21.00	0.00	-999.00	-999.00	19.60	0.00	96.40	97.40	97.50	97.50	0.00	0.00	96.20		
12	21.30	0.00	-999.00	-999.00	22.70	0.00	96.50	97.00	97.50	97.00	0.00	0.00	96.20		
13	28.70	0.00	-999.00	-999.00	23.50	0.00	96.50	96.80	97.60	97.10	0.00	0.00	96.30		
14	32.60	0.00	-999.00	-999.00	27.70	0.00	96.60	97.70	97.70	97.00	0.00	0.00	96.30		
15	33.10	0.00	-999.00	-999.00	28.90	0.00	96.60	97.30	97.70	97.10	0.00	0.00	96.40		
16	34.80	0.00	-999.00	-999.00	28.40	0.00	96.60	96.80	97.70	97.00	0.00	0.00	96.40		
17	33.20	0.00	-999.00	-999.00	28.50	0.00	96.70	96.50	97.70	97.00	0.00	0.00	96.40		
18	34.70	0.00	-999.00	-999.00	28.60	0.00	96.70	96.60	97.70	97.00	0.00	0.00	96.40		
19	33.20	0.00	-999.00	-999.00	28.90	0.00	96.70	96.50	97.60	96.90	0.00	0.00	96.40		
20	33.90	0.00	-999.00	-999.00	33.20	0.00	96.90	96.50	97.60	96.90	0.00	0.00	96.50		
21	33.30	0.00	-999.00	-999.00	33.00	0.00	96.80	96.60	97.60	96.90	0.00	0.00	96.40		
22	32.50	0.00	-999.00	-999.00	34.20	0.00	96.80	96.60	97.60	96.90	0.00	0.00	96.40		
23	16.50	0.00	-999.00	-999.00	18.40	0.00	96.70	96.60	97.60	96.80	0.00	0.00	96.40		
24	13.80	0.00	-999.00	-999.00	12.70	0.00	96.70	96.70	97.60	96.80	0.00	0.00	96.40		

10 JAN 2003

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

10 JAN 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.			
1	1.50	0.00	105.20	-999.00	-999.00	-999.00	0.00	0.00	98.40	98.30	0.10	0.00	-999.00	-999.00	
2	1.50	0.00	105.20	-999.00	-999.00	-999.00	0.00	0.00	98.40	98.60	0.10	0.00	-999.00	-999.00	
3	1.50	0.00	105.20	-999.00	-999.00	-999.00	0.00	0.00	98.40	98.70	0.10	0.00	-999.00	-999.00	
4	1.50	0.00	105.20	-999.00	-999.00	-999.00	0.00	0.00	98.40	98.50	0.10	0.00	-999.00	-999.00	
5	1.50	0.00	105.20	-999.00	-999.00	-999.00	0.70	0.00	98.40	98.50	1.60	0.00	-999.00	-999.00	
6	1.50	0.00	105.20	-999.00	-999.00	-999.00	13.30	0.00	98.40	98.50	13.20	0.00	-999.00	-999.00	
7	1.50	0.00	105.20	-999.00	-999.00	-999.00	13.70	0.00	98.40	98.70	14.10	0.00	-999.00	-999.00	
8	1.50	0.00	105.20	-999.00	-999.00	-999.00	18.50	0.00	98.40	98.50	19.00	0.00	-999.00	-999.00	
9	1.50	0.00	105.30	-999.00	-999.00	-999.00	19.00	0.00	98.40	98.20	21.70	0.00	-999.00	-999.00	
10	1.50	0.00	105.40	-999.00	-999.00	-999.00	19.20	0.00	98.30	98.20	24.20	0.00	-999.00	-999.00	
11	1.50	0.00	105.50	-999.00	-999.00	-999.00	19.10	0.00	98.30	98.20	27.70	0.00	-999.00	-999.00	
12	1.50	0.00	105.90	-999.00	-999.00	-999.00	25.50	0.00	98.50	98.20	31.80	0.00	-999.00	-999.00	
13	1.50	0.00	106.10	-999.00	-999.00	-999.00	26.70	0.00	98.50	98.30	33.40	0.00	-999.00	-999.00	
14	1.50	0.00	106.10	-999.00	-999.00	-999.00	26.80	0.00	98.70	98.30	32.90	0.00	-999.00	-999.00	
15	1.50	0.00	106.20	-999.00	-999.00	-999.00	30.60	0.00	98.70	98.30	32.50	0.00	-999.00	-999.00	
16	1.50	0.00	105.90	-999.00	-999.00	-999.00	31.30	0.00	98.70	98.30	32.90	0.00	-999.00	-999.00	
17	1.50	0.00	105.60	-999.00	-999.00	-999.00	31.50	0.00	98.60	98.30	34.00	0.00	-999.00	-999.00	
18	1.50	0.00	105.30	-999.00	-999.00	-999.00	33.50	0.00	98.60	98.30	29.10	0.00	-999.00	-999.00	
19	1.50	0.00	105.30	-999.00	-999.00	-999.00	33.70	0.00	98.50	98.40	25.20	0.00	-999.00	-999.00	
20	1.50	0.00	105.30	-999.00	-999.00	-999.00	33.70	0.00	98.50	98.20	25.20	0.00	-999.00	-999.00	
21	1.50	0.00	105.10	-999.00	-999.00	-999.00	34.40	0.00	98.50	98.30	25.50	0.00	-999.00	-999.00	
22	1.50	0.00	105.10	-999.00	-999.00	-999.00	34.50	0.00	98.50	98.40	24.50	0.00	-999.00	-999.00	
23	1.50	0.00	105.10	-999.00	-999.00	-999.00	13.50	0.00	98.60	98.40	14.20	0.00	-999.00	-999.00	
24	1.50	0.00	105.10	-999.00	-999.00	-999.00	0.00	0.00	98.60	98.50	0.90	0.00	-999.00	-999.00	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.			
1	0.80	0.00	-999.00	-999.00	7.50	0.00	96.80	96.60	112.70	0.00	97.70	97.60	96.80	0.00	96.40
2	0.20	0.00	-999.00	-999.00	0.30	0.00	96.70	96.50	112.30	0.00	97.50	97.50	96.80	0.00	96.40
3	0.20	0.00	-999.00	-999.00	0.30	0.00	96.70	96.50	121.10	0.00	97.50	97.40	96.80	0.00	96.40
4	0.20	0.00	-999.00	-999.00	0.90	0.00	96.80	96.50	122.40	0.00	97.60	97.40	96.80	0.00	96.50
5	0.20	0.00	-999.00	-999.00	8.50	0.10	96.80	96.50	108.60	0.00	97.50	97.50	96.90	0.00	96.60
6	14.20	0.00	-999.00	-999.00	9.10	0.00	96.80	96.60	111.80	0.00	97.50	97.50	96.80	0.00	96.60
7	14.90	0.00	-999.00	-999.00	13.40	0.00	96.80	96.60	118.60	0.00	97.40	97.50	96.80	0.00	96.60
8	19.20	0.00	-999.00	-999.00	19.30	0.00	96.80	96.80	123.90	0.00	97.40	97.40	96.70	0.00	96.50
9	21.00	0.00	-999.00	-999.00	19.00	0.00	96.70	97.40	104.70	0.00	97.30	97.40	96.60	0.00	96.40
10	19.40	0.00	-999.00	-999.00	19.00	0.00	96.70	97.20	102.00	0.00	97.30	97.30	0.00	0.00	96.30
11	19.50	0.00	-999.00	-999.00	19.00	0.00	96.70	97.00	99.80	0.00	97.30	97.30	96.90	0.00	96.30
12	20.10	0.00	-999.00	-999.00	19.10	0.00	96.70	96.90	100.70	0.00	97.40	97.40	97.20	0.00	96.20
13	28.70	0.00	-999.00	-999.00	25.80	0.00	96.80	96.90	102.40	0.00	97.50	97.50	97.00	0.00	96.20
14	28.30	0.00	-999.00	-999.00	24.20	0.00	96.80	96.90	104.90	0.00	97.60	97.40	97.00	0.00	96.10
15	30.70	0.00	-999.00	-999.00	24.80	0.00	96.80	96.90	103.20	0.00	97.50	97.40	96.90	0.00	96.20
16	31.60	0.00	-999.00	-999.00	30.20	0.00	96.80	97.50	106.50	0.00	97.40	97.40	96.90	0.00	96.20
17	36.70	0.00	-999.00	-999.00	30.60	0.00	96.80	96.90	108.90	0.00	97.40	97.40	96.80	0.00	96.00
18	39.00	0.00	-999.00	-999.00	36.30	0.00	96.80	96.70	111.90	0.00	97.40	97.40	96.80	0.00	96.00
19	32.80	0.00	-999.00	-999.00	32.30	0.00	96.80	96.70	113.70	0.00	97.40	97.40	97.00	0.00	96.00
20	31.90	0.00	-999.00	-999.00	32.30	0.00	96.80	96.70	115.00	0.00	97.40	97.50	97.00	0.00	96.00
21	32.10	0.00	-999.00	-999.00	32.40	0.00	96.80	96.70	112.20	0.00	97.40	97.40	97.00	0.00	96.10
22	33.80	0.00	-999.00	-999.00	31.80	0.00	96.80	96.70	108.30	0.00	97.50	97.50	97.00	0.00	96.00
23	17.10	0.00	-999.00	-999.00	18.50	0.00	96.80	96.70	104.00	0.00	97.40	97.40	97.00	0.00	96.10
24	0.30	0.00	-999.00	-999.00	9.30	0.00	96.80	96.60	105.60	0.00	97.40	97.40	96.80	0.00	96.00

11 JAN 2003

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

11 JAN 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	LOWER GRANITE	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.		
1	1.50	0.00	105.10	-999.00	-999.00	-999.00	0.00	0.00	98.50	98.30	0.00	0.00	-999.00	-999.00	
2	1.50	0.00	104.90	-999.00	-999.00	-999.00	0.00	0.00	98.50	98.20	1.50	0.00	-999.00	-999.00	
3	1.50	0.00	104.90	-999.00	-999.00	-999.00	0.00	0.00	98.40	98.20	0.00	0.00	-999.00	-999.00	
4	1.50	0.00	105.00	-999.00	-999.00	-999.00	0.00	0.00	98.40	98.20	0.00	0.00	-999.00	-999.00	
5	1.50	0.00	105.00	-999.00	-999.00	-999.00	1.10	0.00	98.50	98.20	0.00	0.00	-999.00	-999.00	
6	1.50	0.00	105.00	-999.00	-999.00	-999.00	14.50	0.00	98.60	98.60	0.00	0.00	-999.00	-999.00	
7	1.50	0.00	105.10	-999.00	-999.00	-999.00	25.60	0.00	98.60	98.60	19.30	0.00	-999.00	-999.00	
8	1.50	0.00	105.10	-999.00	-999.00	-999.00	25.50	0.00	98.60	98.50	25.90	0.00	-999.00	-999.00	
9	1.50	0.00	105.10	-999.00	-999.00	-999.00	25.70	0.00	98.30	98.00	26.10	0.00	-999.00	-999.00	
10	1.50	0.00	105.30	-999.00	-999.00	-999.00	25.90	0.00	98.40	98.10	26.10	0.00	-999.00	-999.00	
11	1.50	0.00	105.70	-999.00	-999.00	-999.00	25.80	0.00	98.60	98.20	25.40	0.00	-999.00	-999.00	
12	1.50	0.00	106.00	-999.00	-999.00	-999.00	26.40	0.00	98.70	98.30	26.70	0.00	-999.00	-999.00	
13	1.50	0.00	106.30	-999.00	-999.00	-999.00	26.00	0.00	98.90	98.40	26.80	0.00	-999.00	-999.00	
14	1.50	0.00	106.30	-999.00	-999.00	-999.00	25.70	0.00	99.10	98.60	27.40	0.00	-999.00	-999.00	
15	1.50	0.00	106.10	-999.00	-999.00	-999.00	25.90	0.00	99.10	98.60	27.00	0.00	-999.00	-999.00	
16	1.50	0.00	105.90	-999.00	-999.00	-999.00	26.90	0.00	99.00	98.50	26.50	0.00	-999.00	-999.00	
17	1.50	0.00	105.40	-999.00	-999.00	-999.00	27.50	0.00	98.90	98.50	26.20	0.00	-999.00	-999.00	
18	1.50	0.00	105.30	-999.00	-999.00	-999.00	27.10	0.00	98.90	98.60	28.10	0.00	-999.00	-999.00	
19	1.50	0.00	105.10	-999.00	-999.00	-999.00	27.10	0.00	99.00	98.50	27.60	0.00	-999.00	-999.00	
20	1.50	0.00	105.10	-999.00	-999.00	-999.00	26.00	0.00	98.90	98.60	27.30	0.00	-999.00	-999.00	
21	1.50	0.00	105.10	-999.00	-999.00	-999.00	17.60	0.00	99.10	98.70	20.00	0.00	-999.00	-999.00	
22	1.50	0.00	105.00	-999.00	-999.00	-999.00	17.10	0.00	99.00	98.60	17.60	0.00	-999.00	-999.00	
23	1.50	0.00	105.00	-999.00	-999.00	-999.00	12.50	0.00	98.90	98.60	12.50	0.00	-999.00	-999.00	
24	1.50	0.00	105.10	-999.00	-999.00	-999.00	12.20	0.00	99.00	98.60	12.20	0.00	-999.00	-999.00	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB	MCNARY	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	PASCO	
1	0.20	0.00	-999.00	-999.00	8.90	0.00	96.80	96.60	0.00	97.40	97.40	96.80	0.00	96.00	
2	0.20	0.00	-999.00	-999.00	8.90	0.00	96.80	96.50	0.00	97.20	97.40	96.80	0.00	96.00	
3	0.20	0.00	-999.00	-999.00	8.90	0.00	96.80	96.50	0.00	97.20	97.40	96.80	0.00	96.00	
4	0.20	0.00	-999.00	-999.00	9.10	0.00	96.80	96.60	0.00	97.30	97.30	96.70	0.00	96.20	
5	0.20	0.00	-999.00	-999.00	8.90	0.00	96.90	96.70	0.00	97.40	97.40	96.80	0.00	96.30	
6	2.40	0.00	-999.00	-999.00	8.90	0.00	96.90	96.80	0.00	97.30	97.30	96.80	0.00	96.30	
7	20.90	0.00	-999.00	-999.00	8.80	0.00	96.70	96.80	0.00	97.20	97.20	96.80	0.00	96.10	
8	19.90	0.00	-999.00	-999.00	8.90	0.00	96.70	96.80	0.00	97.20	97.30	96.80	0.00	96.20	
9	19.90	0.00	-999.00	-999.00	9.00	0.00	96.70	96.80	0.00	97.20	97.20	96.80	0.00	96.10	
10	20.40	0.00	-999.00	-999.00	8.90	0.00	96.80	96.90	0.00	97.30	97.40	97.00	0.00	96.30	
11	26.10	0.00	-999.00	-999.00	10.80	0.00	96.80	97.10	0.00	97.40	97.40	97.10	0.00	96.30	
12	27.30	0.00	-999.00	-999.00	19.50	0.00	96.90	97.30	0.00	97.50	97.60	97.00	0.00	96.40	
13	27.80	0.00	-999.00	-999.00	24.10	0.00	97.20	97.60	0.00	97.60	97.60	97.20	0.00	96.60	
14	27.20	0.00	-999.00	-999.00	23.60	0.00	97.00	98.40	0.00	97.70	97.70	97.10	0.00	96.70	
15	27.40	0.00	-999.00	-999.00	24.10	0.00	97.10	97.30	0.00	97.70	97.70	97.10	0.00	96.80	
16	29.90	0.00	-999.00	-999.00	29.10	0.00	96.90	97.10	0.00	97.70	97.70	97.10	0.00	96.80	
17	30.10	0.00	-999.00	-999.00	29.20	0.00	96.90	97.30	0.00	97.60	97.70	97.00	0.00	97.00	
18	30.10	0.00	-999.00	-999.00	29.20	0.00	96.90	96.80	0.00	97.60	97.70	97.00	0.00	97.00	
19	30.50	0.00	-999.00	-999.00	29.70	0.00	96.80	96.80	0.00	97.60	97.50	97.00	0.00	97.00	
20	30.00	0.00	-999.00	-999.00	28.90	0.00	96.90	96.80	0.00	97.50	97.60	97.00	0.00	97.00	
21	29.80	0.00	-999.00	-999.00	28.90	0.00	96.90	96.70	0.00	97.50	97.60	97.10	0.00	97.00	
22	26.40	0.00	-999.00	-999.00	28.90	0.00	96.90	96.80	0.00	97.50	97.60	97.10	0.00	97.00	
23	19.40	0.00	-999.00	-999.00	23.80	0.00	96.90	96.70	0.00	97.40	97.60	97.00	0.00	97.00	
24	13.40	0.00	-999.00	-999.00	19.40	0.00	97.00	96.70	0.00	97.50	97.60	97.00	0.00	97.00	

12 JAN 2003

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

12 JAN 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	LOWER GRANITE	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.		
1	1.50	0.00	105.10	-999.00	-999.00	-999.00	12.40	0.00	99.00	98.70	12.20	0.00	-999.00	-999.00	
2	1.50	0.00	105.10	-999.00	-999.00	-999.00	12.40	0.00	99.10	98.70	12.50	0.00	-999.00	-999.00	
3	1.50	0.00	105.10	-999.00	-999.00	-999.00	12.60	0.00	99.30	98.80	12.80	0.00	-999.00	-999.00	
4	1.50	0.00	105.10	-999.00	-999.00	-999.00	12.40	0.00	99.30	98.80	12.60	0.00	-999.00	-999.00	
5	1.50	0.00	105.20	-999.00	-999.00	-999.00	12.40	0.00	99.40	98.90	12.30	0.00	-999.00	-999.00	
6	1.50	0.00	105.20	-999.00	-999.00	-999.00	16.10	0.00	99.40	98.90	16.40	0.00	-999.00	-999.00	
7	1.50	0.00	105.30	-999.00	-999.00	-999.00	16.30	0.00	99.40	98.90	16.90	0.00	-999.00	-999.00	
8	1.50	0.00	105.20	-999.00	-999.00	-999.00	16.50	0.00	99.40	98.80	16.70	0.00	-999.00	-999.00	
9	1.50	0.00	105.30	-999.00	-999.00	-999.00	16.40	0.00	99.30	98.80	16.70	0.00	-999.00	-999.00	
10	1.50	0.00	105.60	-999.00	-999.00	-999.00	16.50	0.00	99.40	98.90	16.70	0.00	-999.00	-999.00	
11	1.50	0.00	105.90	-999.00	-999.00	-999.00	16.30	0.00	99.50	99.00	16.90	0.00	-999.00	-999.00	
12	1.50	0.00	106.30	-999.00	-999.00	-999.00	16.30	0.00	99.50	99.00	16.60	0.00	-999.00	-999.00	
13	1.50	0.00	106.30	-999.00	-999.00	-999.00	16.60	0.00	99.60	99.10	16.70	0.00	-999.00	-999.00	
14	1.50	0.00	106.20	-999.00	-999.00	-999.00	16.40	0.00	99.50	99.00	16.60	0.00	-999.00	-999.00	
15	1.50	0.00	106.00	-999.00	-999.00	-999.00	16.40	0.00	99.60	99.20	18.40	0.00	-999.00	-999.00	
16	1.50	0.00	105.70	-999.00	-999.00	-999.00	16.40	0.00	99.50	99.20	16.70	0.00	-999.00	-999.00	
17	1.50	0.00	105.50	-999.00	-999.00	-999.00	16.70	0.00	99.50	99.10	16.80	0.00	-999.00	-999.00	
18	1.50	0.00	105.80	-999.00	-999.00	-999.00	16.40	0.00	99.60	99.10	16.80	0.00	-999.00	-999.00	
19	1.50	0.00	106.60	-999.00	-999.00	-999.00	16.20	0.00	99.70	99.10	16.70	0.00	-999.00	-999.00	
20	1.50	0.00	106.90	-999.00	-999.00	-999.00	17.90	0.00	99.60	99.10	17.00	0.00	-999.00	-999.00	
21	1.50	0.00	106.70	-999.00	-999.00	-999.00	16.40	0.00	99.50	99.60	16.70	0.00	-999.00	-999.00	
22	1.50	0.00	106.80	-999.00	-999.00	-999.00	16.60	0.00	99.40	99.20	16.50	0.00	-999.00	-999.00	
23	1.50	0.00	106.70	-999.00	-999.00	-999.00	11.60	0.00	99.40	99.00	13.60	0.00	-999.00	-999.00	
24	1.50	0.00	106.30	-999.00	-999.00	-999.00	0.00	0.00	99.40	99.20	0.00	0.00	-999.00	-999.00	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB	WA TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB	GAS % SAT	
1	13.40	0.00	-999.00	-999.00	19.10	0.00	96.80	96.90	0.00	97.40	97.60	97.00	0.00	97.00	
2	13.20	0.00	-999.00	-999.00	12.70	0.00	96.90	96.90	0.00	97.40	97.80	97.00	0.00	97.20	
3	13.20	0.00	-999.00	-999.00	10.60	0.00	97.10	96.90	0.00	97.10	97.80	97.10	0.00	97.20	
4	13.20	0.00	-999.00	-999.00	9.20	0.00	97.00	97.00	0.00	97.20	97.90	97.10	0.00	97.30	
5	13.20	0.00	-999.00	-999.00	12.20	0.00	97.00	96.90	0.00	97.20	97.90	97.20	0.00	97.40	
6	13.20	0.00	-999.00	-999.00	12.20	0.00	97.00	97.00	0.00	97.60	97.90	97.20	0.00	97.40	
7	13.40	0.00	-999.00	-999.00	13.70	0.00	97.00	97.30	0.00	97.60	97.80	97.10	0.00	97.40	
8	13.30	0.00	-999.00	-999.00	12.20	0.00	97.00	97.90	0.00	97.80	97.90	97.10	0.00	97.40	
9	13.30	0.00	-999.00	-999.00	12.40	0.00	97.00	97.40	0.00	97.60	98.00	97.20	0.00	97.50	
10	13.10	0.00	-999.00	-999.00	12.20	0.00	97.00	97.30	0.00	97.60	97.90	97.40	0.00	97.40	
11	13.00	0.00	-999.00	-999.00	12.10	0.00	97.10	98.10	0.00	97.50	97.90	97.30	0.00	97.40	
12	14.60	0.00	-999.00	-999.00	12.10	0.00	97.00	97.70	0.00	97.70	97.90	97.30	0.00	97.50	
13	13.30	0.00	-999.00	-999.00	12.10	0.00	97.10	97.50	0.00	97.70	97.90	97.30	0.00	97.50	
14	13.10	0.00	-999.00	-999.00	12.30	0.00	97.00	97.50	0.00	97.70	97.90	97.30	0.00	97.50	
15	17.80	0.00	-999.00	-999.00	12.20	0.00	97.00	97.40	0.00	97.40	98.10	97.30	0.00	97.50	
16	18.10	0.00	-999.00	-999.00	12.20	0.00	97.00	97.40	0.00	97.40	97.90	97.30	0.00	97.60	
17	18.70	0.00	-999.00	-999.00	12.70	0.00	97.00	97.30	0.00	97.60	97.90	97.20	0.00	97.60	
18	19.10	0.00	-999.00	-999.00	19.00	0.00	97.00	97.20	0.00	116.00	0.00	97.60	0.00	97.60	
19	18.80	0.00	-999.00	-999.00	19.50	0.00	96.90	97.10	0.00	112.20	0.00	97.50	0.00	97.50	
20	18.70	0.00	-999.00	-999.00	19.20	0.00	96.90	97.20	0.00	112.10	0.00	97.50	0.00	97.50	
21	18.80	0.00	-999.00	-999.00	19.20	0.00	96.80	97.00	0.00	110.60	0.00	97.50	0.00	97.40	
22	19.40	0.00	-999.00	-999.00	18.90	0.00	96.80	96.90	0.00	91.20	0.00	97.40	0.00	97.40	
23	16.70	0.00	-999.00	-999.00	12.60	0.00	96.80	96.80	0.00	80.70	0.00	97.30	0.00	97.30	
24	12.60	0.00	-999.00	-999.00	11.70	0.00	96.70	96.60	0.00	77.20	0.00	97.30	0.00	97.30	

13 JAN 2003

WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT

13 JAN 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.			
1	1.50	0.00	105.60	-999.00	-999.00	-999.00	0.00	0.00	99.40	99.00	0.00	0.00	-999.00	-999.00	-999.00
2	1.50	0.00	105.40	-999.00	-999.00	-999.00	0.00	0.00	99.40	99.00	0.00	0.00	-999.00	-999.00	-999.00
3	1.50	0.00	105.20	-999.00	-999.00	-999.00	0.00	0.00	99.30	98.90	0.00	0.00	-999.00	-999.00	-999.00
4	1.50	0.00	105.00	-999.00	-999.00	-999.00	0.00	0.00	99.30	98.90	0.00	0.00	-999.00	-999.00	-999.00
5	1.50	0.00	105.00	-999.00	-999.00	-999.00	0.00	0.00	99.20	98.80	0.00	0.00	-999.00	-999.00	-999.00
6	1.50	0.00	105.20	-999.00	-999.00	-999.00	1.50	0.00	99.20	98.70	0.40	0.00	-999.00	-999.00	-999.00
7	1.50	0.00	105.10	-999.00	-999.00	-999.00	13.10	0.00	99.10	98.80	13.40	0.00	-999.00	-999.00	-999.00
8	1.50	0.00	105.00	-999.00	-999.00	-999.00	16.70	0.00	99.10	98.90	16.40	0.00	-999.00	-999.00	-999.00
9	1.50	0.00	105.10	-999.00	-999.00	-999.00	17.20	0.00	99.00	98.80	19.70	0.00	-999.00	-999.00	-999.00
10	1.60	0.00	105.40	-999.00	-999.00	-999.00	17.30	0.00	99.10	98.80	19.60	0.00	-999.00	-999.00	-999.00
11	1.50	0.00	106.90	-999.00	-999.00	-999.00	19.00	0.00	99.10	98.80	19.70	0.00	-999.00	-999.00	-999.00
12	1.50	0.00	110.90	-999.00	-999.00	-999.00	20.30	0.00	99.30	98.90	21.10	0.00	-999.00	-999.00	-999.00
13	1.50	0.00	107.90	-999.00	-999.00	-999.00	20.60	0.00	99.30	98.90	22.90	0.00	-999.00	-999.00	-999.00
14	1.50	0.00	106.60	-999.00	-999.00	-999.00	20.80	0.00	99.20	98.90	23.30	0.00	-999.00	-999.00	-999.00
15	1.50	0.00	106.30	-999.00	-999.00	-999.00	20.60	0.00	99.30	98.90	24.10	0.00	-999.00	-999.00	-999.00
16	1.50	0.00	106.10	-999.00	-999.00	-999.00	25.00	0.00	99.40	99.30	26.80	0.00	-999.00	-999.00	-999.00
17	1.50	0.00	105.80	-999.00	-999.00	-999.00	25.60	0.00	99.40	99.10	30.80	0.00	-999.00	-999.00	-999.00
18	1.50	0.00	105.70	-999.00	-999.00	-999.00	26.90	0.00	99.40	99.10	36.00	0.00	-999.00	-999.00	-999.00
19	1.50	0.00	105.50	-999.00	-999.00	-999.00	27.00	0.00	99.40	99.00	34.00	0.00	-999.00	-999.00	-999.00
20	1.50	0.00	105.50	-999.00	-999.00	-999.00	27.50	0.00	99.30	99.00	30.70	0.00	-999.00	-999.00	-999.00
21	1.50	0.00	105.50	-999.00	-999.00	-999.00	27.10	0.00	99.30	99.10	20.10	0.00	-999.00	-999.00	-999.00
22	1.50	0.00	105.50	-999.00	-999.00	-999.00	26.80	0.00	99.30	99.00	19.10	0.00	-999.00	-999.00	-999.00
23	1.50	0.00	105.70	-999.00	-999.00	-999.00	20.50	0.00	99.30	100.10	12.50	0.00	-999.00	-999.00	-999.00
24	1.50	0.00	105.80	-999.00	-999.00	-999.00	11.50	0.00	99.30	99.30	0.30	0.00	-999.00	-999.00	-999.00

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL OR FB	GAS %SAT. WA FB	TAILW.	GAS % SAT	
1	0.20	0.00	-999.00	-999.00	9.10	0.00	96.60	96.50	71.60	0.00	97.20	97.60	96.90	97.20	
2	0.20	0.00	-999.00	-999.00	9.00	0.00	96.60	96.50	65.30	0.00	97.10	97.50	96.80	97.20	
3	0.20	0.00	-999.00	-999.00	9.00	0.00	96.50	96.40	64.70	0.00	97.10	97.50	96.80	97.10	
4	0.20	0.00	-999.00	-999.00	9.00	0.00	96.50	96.60	64.70	0.00	97.10	97.40	96.70	97.20	
5	0.20	0.00	-999.00	-999.00	9.10	0.00	96.40	96.60	68.30	0.00	97.10	97.40	96.70	97.10	
6	0.80	0.00	-999.00	-999.00	9.10	0.00	96.30	96.60	90.40	0.00	97.00	97.40	96.70	97.00	
7	13.70	0.00	-999.00	-999.00	11.50	0.00	96.30	96.60	119.90	0.00	97.00	97.40	96.80	96.90	
8	16.10	0.00	-999.00	-999.00	11.70	0.00	96.20	96.50	113.20	0.00	97.00	97.30	96.70	96.90	
9	18.70	0.00	-999.00	-999.00	11.60	0.00	96.10	96.40	102.00	0.00	96.90	97.20	96.60	96.80	
10	18.60	0.00	-999.00	-999.00	13.30	0.00	96.10	96.50	92.20	0.00	96.90	97.20	96.60	97.00	
11	20.10	0.00	-999.00	-999.00	12.70	0.00	96.10	96.60	91.80	0.00	97.00	97.40	97.20	96.90	
12	20.90	0.00	-999.00	-999.00	18.40	0.00	96.20	96.70	90.50	0.00	97.00	97.40	96.90	97.00	
13	21.00	0.00	-999.00	-999.00	18.50	0.00	96.20	96.90	90.50	0.00	97.50	97.60	96.90	97.00	
14	20.90	0.00	-999.00	-999.00	20.00	0.00	96.20	97.40	89.80	0.00	97.20	97.60	96.70	97.10	
15	22.40	0.00	-999.00	-999.00	19.80	0.00	96.20	96.80	89.50	0.00	97.00	97.60	96.60	98.00	
16	20.90	0.00	-999.00	-999.00	19.80	0.00	96.30	96.70	90.50	0.00	96.90	97.50	96.60	97.40	
17	21.30	0.00	-999.00	-999.00	19.80	0.00	96.30	96.60	93.80	0.00	97.00	97.50	96.70	97.20	
18	28.70	0.00	-999.00	-999.00	19.90	0.00	96.30	96.50	102.00	0.00	96.80	97.50	96.50	97.30	
19	33.70	0.00	-999.00	-999.00	24.10	0.00	96.30	96.40	100.70	0.00	96.80	97.50	96.50	97.20	
20	36.20	0.00	-999.00	-999.00	24.00	0.00	96.30	96.30	80.30	0.00	96.80	97.50	96.50	97.10	
21	30.10	0.00	-999.00	-999.00	23.90	0.00	96.30	96.40	57.00	0.00	96.90	97.50	96.50	97.20	
22	30.10	0.00	-999.00	-999.00	23.70	0.00	96.30	96.40	56.10	0.00	96.80	97.50	96.50	97.20	
23	18.40	0.00	-999.00	-999.00	20.70	0.00	96.30	96.30	56.30	0.00	96.80	97.40	96.50	97.10	
24	0.60	0.00	-999.00	-999.00	11.50	0.00	96.30	96.30	56.70	0.00	96.90	97.50	96.50	97.00	

14 JAN 2003

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

14 JAN 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	LOWER GRANITE	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.		
1	1.50	0.00	105.70	-999.00	-999.00	-999.00	0.00	0.00	99.30	99.30	0.00	0.00	-999.00	-999.00	
2	1.50	0.00	106.90	-999.00	-999.00	-999.00	0.00	0.00	99.20	99.30	0.00	0.00	-999.00	-999.00	
3	1.50	0.00	107.40	-999.00	-999.00	-999.00	0.00	0.00	99.20	99.20	0.00	0.00	-999.00	-999.00	
4	1.50	0.00	107.10	-999.00	-999.00	-999.00	0.00	0.00	99.30	99.20	0.00	0.00	-999.00	-999.00	
5	1.50	0.00	106.90	-999.00	-999.00	-999.00	0.00	0.00	99.20	99.10	0.00	0.00	-999.00	-999.00	
6	1.50	0.00	106.90	-999.00	-999.00	-999.00	1.50	0.00	99.20	99.10	1.50	0.00	-999.00	-999.00	
7	1.50	0.00	106.80	-999.00	-999.00	-999.00	17.90	0.00	99.10	99.10	17.90	0.00	-999.00	-999.00	
8	1.50	0.00	106.80	-999.00	-999.00	-999.00	27.00	0.00	99.10	99.30	18.50	0.00	-999.00	-999.00	
9	1.50	0.00	106.80	-999.00	-999.00	-999.00	26.90	0.00	99.10	99.00	25.80	0.00	-999.00	-999.00	
10	1.50	0.00	107.00	-999.00	-999.00	-999.00	27.10	0.00	99.10	99.00	26.20	0.00	-999.00	-999.00	
11	1.50	0.00	107.40	-999.00	-999.00	-999.00	27.10	0.00	99.10	99.00	26.30	0.00	-999.00	-999.00	
12	1.50	0.00	107.50	-999.00	-999.00	-999.00	27.10	0.00	99.20	98.90	26.10	0.00	-999.00	-999.00	
13	1.50	0.00	107.30	-999.00	-999.00	-999.00	27.30	0.00	99.20	98.90	27.00	0.00	-999.00	-999.00	
14	1.50	0.00	107.30	-999.00	-999.00	-999.00	19.80	0.00	99.20	98.90	28.30	0.00	-999.00	-999.00	
15	1.50	0.00	107.30	-999.00	-999.00	-999.00	17.00	0.00	99.10	99.50	29.20	0.00	-999.00	-999.00	
16	1.50	0.00	107.20	-999.00	-999.00	-999.00	17.40	0.00	99.10	99.10	30.20	0.00	-999.00	-999.00	
17	1.50	0.00	107.10	-999.00	-999.00	-999.00	24.40	0.00	99.10	98.80	18.50	0.00	-999.00	-999.00	
18	1.50	0.00	106.90	-999.00	-999.00	-999.00	26.70	0.00	99.20	98.80	25.50	0.00	-999.00	-999.00	
19	1.50	0.00	106.70	-999.00	-999.00	-999.00	27.40	0.00	99.20	98.70	25.80	0.00	-999.00	-999.00	
20	1.50	0.00	106.70	-999.00	-999.00	-999.00	28.80	0.00	99.00	98.80	26.60	0.00	-999.00	-999.00	
21	1.50	0.00	106.70	-999.00	-999.00	-999.00	27.30	0.00	98.90	98.80	27.70	0.00	-999.00	-999.00	
22	1.50	0.00	106.40	-999.00	-999.00	-999.00	26.40	0.00	98.80	98.60	27.30	0.00	-999.00	-999.00	
23	1.50	0.00	106.50	-999.00	-999.00	-999.00	15.20	0.00	98.80	98.50	20.70	0.00	-999.00	-999.00	
24	1.50	0.00	106.60	-999.00	-999.00	-999.00	0.00	0.00	98.80	98.60	17.00	0.00	-999.00	-999.00	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB	WA TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB	GAS % SAT	
1	0.20	0.00	-999.00	-999.00	8.90	0.00	96.30	96.40	73.00	0.00	96.80	97.30	96.50	96.90	
2	0.20	0.00	-999.00	-999.00	8.90	0.00	96.30	96.30	73.90	0.00	96.80	97.30	96.40	96.90	
3	0.20	0.00	-999.00	-999.00	8.90	0.00	96.30	96.30	73.70	0.00	96.70	97.30	96.60	96.80	
4	0.20	0.00	-999.00	-999.00	9.00	0.00	96.30	96.30	74.20	0.00	96.60	97.20	96.70	96.70	
5	0.20	0.00	-999.00	-999.00	8.90	0.00	96.30	96.30	84.90	0.00	96.60	97.20	96.50	96.70	
6	0.20	0.00	-999.00	-999.00	10.40	0.00	96.30	96.40	139.40	0.00	96.60	97.10	96.30	96.70	
7	16.50	0.00	-999.00	-999.00	18.30	0.00	96.20	96.50	151.00	0.00	96.70	97.10	96.40	96.70	
8	18.40	0.00	-999.00	-999.00	18.20	0.00	96.20	96.50	150.90	0.00	96.60	97.10	96.50	96.70	
9	18.80	0.00	-999.00	-999.00	19.60	0.00	96.20	96.60	151.10	0.00	96.70	97.10	96.50	96.70	
10	26.40	0.00	-999.00	-999.00	18.10	0.00	97.40	96.60	151.00	0.00	96.70	96.90	96.60	96.70	
11	27.30	0.00	-999.00	-999.00	18.50	0.00	96.90	97.00	151.10	0.00	96.70	97.00	96.50	96.80	
12	29.40	0.00	-999.00	-999.00	18.10	0.00	96.80	96.80	132.20	0.00	96.70	97.10	96.40	96.90	
13	29.70	0.00	-999.00	-999.00	19.00	0.00	96.70	96.80	112.20	0.00	96.80	97.20	96.50	96.90	
14	29.90	0.00	-999.00	-999.00	18.00	0.00	96.70	96.90	111.30	0.00	96.80	97.20	96.50	97.00	
15	23.00	0.00	-999.00	-999.00	27.40	0.00	96.60	97.10	111.30	0.00	96.80	97.10	96.40	97.00	
16	34.80	0.00	-999.00	-999.00	32.80	0.00	96.60	96.90	111.60	0.00	97.00	97.10	96.30	97.10	
17	30.10	0.00	-999.00	-999.00	29.10	0.00	96.60	97.10	113.00	0.00	97.00	97.10	96.40	97.00	
18	29.40	0.00	-999.00	-999.00	28.70	0.00	96.50	97.10	111.60	0.00	96.80	97.10	96.40	97.10	
19	26.50	0.00	-999.00	-999.00	29.10	0.00	96.50	96.30	111.10	0.00	96.80	97.00	96.30	97.00	
20	28.10	0.00	-999.00	-999.00	29.50	0.00	96.50	96.30	101.70	0.00	96.70	97.00	96.30	96.90	
21	27.70	0.00	-999.00	-999.00	29.00	0.00	96.40	96.20	101.90	0.00	96.70	97.00	96.20	96.80	
22	27.30	0.00	-999.00	-999.00	29.00	0.00	96.30	96.10	101.60	0.00	96.60	97.00	96.10	96.80	
23	26.20	0.00	-999.00	-999.00	28.70	0.00	96.30	96.00	81.00	0.00	96.50	97.00	96.10	96.80	
24	21.70	0.00	-999.00	-999.00	23.60	0.00	96.20	96.10	71.70	0.00	96.50	96.90	96.00	96.60	

15 JAN 2003

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

15 JAN 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	LOWER GRANITE	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.		
1	1.50	0.00	106.00	-999.00	-999.00	-999.00	0.00	0.00	98.70	98.50	14.00	0.00	-999.00	-999.00	
2	1.50	0.00	105.40	-999.00	-999.00	-999.00	0.00	0.00	98.60	98.40	0.00	0.00	-999.00	-999.00	
3	1.50	0.00	105.10	-999.00	-999.00	-999.00	0.00	0.00	98.50	98.30	0.00	0.00	-999.00	-999.00	
4	1.50	0.00	105.10	-999.00	-999.00	-999.00	1.40	0.00	98.50	98.30	0.00	0.00	-999.00	-999.00	
5	1.50	0.00	105.00	-999.00	-999.00	-999.00	12.50	0.00	98.50	98.50	0.00	0.00	-999.00	-999.00	
6	1.50	0.00	105.10	-999.00	-999.00	-999.00	13.60	0.00	98.50	98.50	12.80	0.00	-999.00	-999.00	
7	1.50	0.00	105.10	-999.00	-999.00	-999.00	26.70	0.00	98.40	98.40	20.70	0.00	-999.00	-999.00	
8	1.50	0.00	105.00	-999.00	-999.00	-999.00	26.90	0.00	98.40	98.30	27.20	0.00	-999.00	-999.00	
9	1.50	0.00	105.20	-999.00	-999.00	-999.00	26.80	0.00	98.40	98.10	28.00	0.00	-999.00	-999.00	
10	1.50	0.00	105.80	-999.00	-999.00	-999.00	27.20	0.00	98.30	98.20	27.80	0.00	-999.00	-999.00	
11	1.50	0.00	106.40	-999.00	-999.00	-999.00	27.20	0.00	98.50	98.10	27.50	0.00	-999.00	-999.00	
12	1.50	0.00	106.40	-999.00	-999.00	-999.00	27.30	0.00	98.50	98.70	27.80	0.00	-999.00	-999.00	
13	1.50	0.00	106.50	-999.00	-999.00	-999.00	27.60	0.00	98.50	98.20	26.70	0.00	-999.00	-999.00	
14	1.50	0.00	106.00	-999.00	-999.00	-999.00	20.80	0.00	98.50	98.40	16.30	0.00	-999.00	-999.00	
15	1.50	0.00	105.90	-999.00	-999.00	-999.00	20.40	0.00	98.50	98.30	17.50	0.00	-999.00	-999.00	
16	1.50	0.00	105.50	-999.00	-999.00	-999.00	20.50	0.00	98.50	98.20	18.50	0.00	-999.00	-999.00	
17	1.50	0.00	105.20	-999.00	-999.00	-999.00	28.90	0.00	98.30	98.30	32.30	0.00	-999.00	-999.00	
18	1.50	0.00	105.30	-999.00	-999.00	-999.00	30.40	0.00	98.30	98.30	33.20	0.00	-999.00	-999.00	
19	1.50	0.00	104.30	-999.00	-999.00	-999.00	29.80	0.00	98.30	98.20	31.90	0.00	-999.00	-999.00	
20	1.50	0.00	104.30	-999.00	-999.00	-999.00	29.90	0.00	98.30	98.20	32.20	0.00	-999.00	-999.00	
21	1.50	0.00	104.40	-999.00	-999.00	-999.00	30.10	0.00	98.20	98.20	32.00	0.00	-999.00	-999.00	
22	1.50	0.00	104.40	-999.00	-999.00	-999.00	29.60	0.00	98.10	98.00	30.00	0.00	-999.00	-999.00	
23	1.50	0.00	104.40	-999.00	-999.00	-999.00	14.10	0.00	98.00	98.10	14.90	0.00	-999.00	-999.00	
24	1.50	0.00	104.50	-999.00	-999.00	-999.00	12.90	0.00	98.10	98.00	12.60	0.00	-999.00	-999.00	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB	WA TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB	GAS %SAT	
1	20.70	0.00	-999.00	-999.00	23.20	0.00	96.20	96.00	0.00	96.60	96.80	96.10	0.00	96.50	
2	13.60	0.00	-999.00	-999.00	13.10	0.00	96.10	96.00	80.60	0.00	96.50	96.80	96.10	0.00	96.50
3	0.10	0.00	-999.00	-999.00	9.10	0.00	96.10	96.00	80.70	0.00	96.50	96.70	96.00	0.00	96.40
4	1.60	0.00	-999.00	-999.00	9.00	0.00	96.10	96.00	80.40	0.00	96.50	96.70	96.00	0.00	96.40
5	0.10	0.00	-999.00	-999.00	9.10	0.00	96.10	96.00	81.70	0.00	96.40	96.70	96.00	0.00	96.40
6	0.50	0.00	-999.00	-999.00	9.40	0.00	96.00	95.80	100.90	0.00	96.50	96.70	96.10	0.00	96.50
7	20.60	0.00	-999.00	-999.00	19.20	0.00	96.00	96.20	141.70	0.00	96.30	96.70	96.10	0.00	96.50
8	27.00	0.00	-999.00	-999.00	21.00	0.00	95.90	96.30	137.60	0.00	96.20	96.60	96.00	0.00	96.40
9	27.60	0.00	-999.00	-999.00	19.50	0.00	95.90	96.30	117.80	0.00	96.20	96.60	96.00	0.00	96.40
10	27.40	0.00	-999.00	-999.00	23.60	0.00	95.80	96.50	108.00	0.00	96.40	96.50	95.90	0.00	96.40
11	27.40	0.00	-999.00	-999.00	24.40	0.00	95.80	96.20	107.50	0.00	96.40	96.60	95.90	0.00	96.40
12	27.40	0.00	-999.00	-999.00	23.90	0.00	95.80	96.00	107.30	0.00	96.40	96.70	95.90	0.00	96.30
13	25.70	0.00	-999.00	-999.00	23.70	0.00	95.90	96.00	107.60	0.00	96.60	96.80	96.00	0.00	96.30
14	21.70	0.00	-999.00	-999.00	27.50	0.00	96.00	96.00	107.50	0.00	96.50	96.80	95.90	0.00	96.40
15	20.70	0.00	-999.00	-999.00	19.50	0.00	96.00	96.00	107.50	0.00	96.60	96.80	95.90	0.00	96.40
16	20.80	0.00	-999.00	-999.00	19.60	0.00	95.80	97.00	107.20	0.00	96.50	96.70	95.90	0.00	96.50
17	27.10	0.00	-999.00	-999.00	23.60	0.00	95.80	96.10	110.50	0.00	96.50	96.70	95.90	0.00	96.50
18	28.50	0.00	-999.00	-999.00	24.40	0.00	95.80	95.90	112.10	0.00	96.50	96.70	95.90	0.00	96.50
19	29.40	0.00	-999.00	-999.00	23.90	0.00	95.70	95.60	113.20	0.00	96.40	96.60	95.80	0.00	96.40
20	30.40	0.00	-999.00	-999.00	23.90	0.00	95.70	95.60	113.10	0.00	96.40	96.70	95.80	0.00	96.40
21	29.70	0.00	-999.00	-999.00	23.90	0.00	95.70	95.60	112.80	0.00	96.40	96.70	95.90	0.00	96.40
22	29.80	0.00	-999.00	-999.00	23.80	0.00	95.70	95.60	110.80	0.00	96.40	96.70	95.90	0.00	96.20
23	29.40	0.00	-999.00	-999.00	24.20	0.00	95.60	95.60	76.60	0.00	96.40	96.60	95.90	0.00	96.20
24	18.80	0.00	-999.00	-999.00	23.30	0.00	95.60	95.50	74.60	0.00	96.30	96.50	95.80	0.00	96.20

16 JAN 2003

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

16 JAN 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB %SAT. TAILW.	LOWER GRANITE	TOTAL DISCH KCFS	SPILL KCFS	GAS FB %SAT. TAILW.		
1	1.50	0.00	104.40	-999.00	-999.00	-999.00	2.20	0.00	98.10	98.00	0.30	0.00	-999.00	-999.00	
2	1.50	0.00	104.40	-999.00	-999.00	-999.00	0.10	0.00	98.20	98.10	0.00	0.00	-999.00	-999.00	
3	1.50	0.00	104.40	-999.00	-999.00	-999.00	0.10	0.00	98.10	98.00	0.00	0.00	-999.00	-999.00	
4	1.50	0.00	104.20	-999.00	-999.00	-999.00	0.10	0.00	98.10	98.00	0.00	0.00	-999.00	-999.00	
5	1.50	0.00	104.30	-999.00	-999.00	-999.00	1.40	0.00	98.30	98.00	0.20	0.00	-999.00	-999.00	
6	1.50	0.00	104.10	-999.00	-999.00	-999.00	12.80	0.00	98.10	98.00	12.80	0.00	-999.00	-999.00	
7	1.50	0.00	104.10	-999.00	-999.00	-999.00	19.10	0.00	98.20	98.10	19.50	0.00	-999.00	-999.00	
8	1.60	0.00	104.00	-999.00	-999.00	-999.00	29.00	0.00	98.20	98.10	28.20	0.00	-999.00	-999.00	
9	1.50	0.00	104.10	-999.00	-999.00	-999.00	29.90	0.00	98.20	98.00	29.30	0.00	-999.00	-999.00	
10	1.70	0.00	104.50	-999.00	-999.00	-999.00	29.70	0.00	98.10	97.90	29.10	0.00	-999.00	-999.00	
11	1.60	0.00	102.00	-999.00	-999.00	-999.00	30.40	0.00	98.30	97.90	29.80	0.00	-999.00	-999.00	
12	1.50	0.00	100.40	-999.00	-999.00	-999.00	29.90	0.00	98.50	97.90	29.60	0.00	-999.00	-999.00	
13	1.50	0.00	102.70	-999.00	-999.00	-999.00	29.60	0.00	98.50	98.00	29.60	0.00	-999.00	-999.00	
14	1.50	0.00	104.60	-999.00	-999.00	-999.00	29.10	0.00	98.50	98.00	30.00	0.00	-999.00	-999.00	
15	1.50	0.00	104.90	-999.00	-999.00	-999.00	19.60	0.00	98.60	98.10	17.00	0.00	-999.00	-999.00	
16	1.60	0.00	104.60	-999.00	-999.00	-999.00	19.80	0.00	98.50	98.00	16.70	0.00	-999.00	-999.00	
17	1.50	0.00	104.10	-999.00	-999.00	-999.00	31.70	0.00	98.50	98.30	28.70	0.00	-999.00	-999.00	
18	1.50	0.00	103.50	-999.00	-999.00	-999.00	34.60	0.00	98.50	98.20	29.90	0.00	-999.00	-999.00	
19	1.50	0.00	103.00	-999.00	-999.00	-999.00	36.90	0.00	98.30	98.10	32.80	0.00	-999.00	-999.00	
20	1.50	0.00	102.70	-999.00	-999.00	-999.00	37.20	0.00	98.30	97.90	36.20	0.00	-999.00	-999.00	
21	1.50	0.00	102.70	-999.00	-999.00	-999.00	36.80	0.00	98.30	97.90	40.20	0.00	-999.00	-999.00	
22	1.50	0.00	102.60	-999.00	-999.00	-999.00	27.80	0.00	98.30	97.90	28.90	0.00	-999.00	-999.00	
23	1.50	0.00	102.80	-999.00	-999.00	-999.00	13.90	0.00	98.20	98.10	20.30	0.00	-999.00	-999.00	
24	1.50	0.00	102.60	-999.00	-999.00	-999.00	1.00	0.00	98.20	98.00	12.80	0.00	-999.00	-999.00	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS FB %SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB %SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB %SAT. TAILW.	MCNARY	TOTAL DISCH KCFS	SPILL KCFS	GAS FB %SAT. TAILW.	PASCO	
1	13.20	0.00	-999.00	-999.00	17.50	0.00	95.70	95.60	76.00	96.40	96.70	95.90	96.10		
2	13.20	0.00	-999.00	-999.00	9.60	0.00	95.70	95.60	75.50	0.00	96.30	96.60	95.80	96.10	
3	0.20	0.00	-999.00	-999.00	9.30	0.00	95.60	95.50	75.60	0.00	96.20	96.50	95.80	95.90	
4	0.20	0.00	-999.00	-999.00	9.50	0.00	95.60	95.60	78.50	0.00	96.30	96.50	95.80	95.90	
5	1.70	0.00	-999.00	-999.00	9.30	0.00	95.60	95.50	119.50	0.00	96.30	96.50	95.80	95.80	
6	12.90	0.00	-999.00	-999.00	9.60	0.00	95.60	95.60	125.30	0.00	96.40	96.50	95.90	95.90	
7	19.90	0.00	-999.00	-999.00	20.20	0.00	95.60	95.80	160.30	0.00	96.40	96.40	95.80	95.90	
8	29.90	0.00	-999.00	-999.00	23.90	0.00	95.60	95.90	162.50	0.00	96.40	96.40	95.80	95.90	
9	28.80	0.00	-999.00	-999.00	24.30	0.00	95.50	95.90	162.20	0.00	96.40	96.50	95.90	95.90	
10	28.80	0.00	-999.00	-999.00	24.00	0.00	95.50	95.60	150.50	0.00	96.30	96.40	95.80	95.90	
11	28.80	0.00	-999.00	-999.00	24.00	0.00	95.50	95.70	151.30	0.00	96.30	96.40	95.90	95.90	
12	28.80	0.00	-999.00	-999.00	24.20	0.00	95.60	95.80	151.60	0.00	96.50	96.50	96.00	95.90	
13	29.30	0.00	-999.00	-999.00	24.30	0.00	95.60	95.90	153.20	0.00	96.60	96.50	96.10	96.00	
14	28.50	0.00	-999.00	-999.00	26.20	0.00	95.80	96.00	154.30	0.00	96.60	96.50	96.10	96.10	
15	18.30	0.00	-999.00	-999.00	24.20	0.00	95.80	95.90	154.40	0.00	96.60	96.70	96.10	96.20	
16	18.10	0.00	-999.00	-999.00	24.10	0.00	95.80	95.80	155.20	0.00	96.60	96.70	96.10	96.20	
17	26.40	0.00	-999.00	-999.00	24.30	0.00	95.70	95.80	156.40	0.00	96.50	96.60	96.10	96.20	
18	26.40	0.00	-999.00	-999.00	24.50	0.00	95.70	96.00	137.60	0.00	96.50	96.60	96.20	96.30	
19	26.70	0.00	-999.00	-999.00	26.50	0.00	95.70	95.60	136.80	0.00	96.50	96.70	96.20	96.20	
20	36.00	0.00	-999.00	-999.00	24.80	0.00	95.70	95.60	136.60	0.00	96.50	96.70	96.20	96.20	
21	35.40	0.00	-999.00	-999.00	35.70	0.00	95.70	95.80	135.20	0.00	96.50	96.70	96.10	96.10	
22	35.10	0.00	-999.00	-999.00	35.70	0.00	95.70	96.50	116.90	0.00	96.50	96.70	96.10	96.10	
23	27.40	0.00	-999.00	-999.00	26.50	0.00	95.80	96.20	90.80	0.00	96.40	96.70	96.10	96.10	
24	15.30	0.00	-999.00	-999.00	18.40	0.00	95.70	95.70	72.90	0.00	96.60	96.70	96.10	96.10	

17 JAN 2003

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

17 JAN 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	LOWER GRANITE	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.		
1	1.50	0.00	102.70	-999.00	-999.00	-999.00	0.00	0.00	98.30	97.90	0.00	0.00	-999.00	-999.00	
2	1.50	0.00	102.60	-999.00	-999.00	-999.00	0.00	0.00	98.30	98.00	0.00	0.00	-999.00	-999.00	
3	1.50	0.00	102.60	-999.00	-999.00	-999.00	0.00	0.00	98.30	98.00	0.00	0.00	-999.00	-999.00	
4	1.50	0.00	102.60	-999.00	-999.00	-999.00	1.10	0.00	98.20	-999.00	2.30	0.00	-999.00	-999.00	
5	1.50	0.00	102.60	-999.00	-999.00	-999.00	13.90	0.00	98.30	98.30	13.70	0.00	-999.00	-999.00	
6	1.50	0.00	102.60	-999.00	-999.00	-999.00	26.20	0.00	98.20	98.30	21.20	0.00	-999.00	-999.00	
7	1.50	0.00	102.60	-999.00	-999.00	-999.00	26.90	0.00	98.20	98.20	27.60	0.00	-999.00	-999.00	
8	1.50	0.00	102.70	-999.00	-999.00	-999.00	33.30	0.00	98.20	98.10	33.60	0.00	-999.00	-999.00	
9	1.50	0.00	102.90	-999.00	-999.00	-999.00	33.00	0.00	98.20	98.00	34.00	0.00	-999.00	-999.00	
10	1.50	0.00	103.10	-999.00	-999.00	-999.00	32.70	0.00	98.20	98.00	34.80	0.00	-999.00	-999.00	
11	1.50	0.00	103.10	-999.00	-999.00	-999.00	32.80	0.00	98.20	98.10	33.70	0.00	-999.00	-999.00	
12	1.50	0.00	103.30	-999.00	-999.00	-999.00	32.90	0.00	98.20	98.00	33.50	0.00	-999.00	-999.00	
13	1.50	0.00	103.40	-999.00	-999.00	-999.00	33.60	0.00	98.20	98.00	33.80	0.00	-999.00	-999.00	
14	1.50	0.00	103.60	-999.00	-999.00	-999.00	33.40	0.00	98.30	98.00	34.30	0.00	-999.00	-999.00	
15	1.50	0.00	103.50	-999.00	-999.00	-999.00	33.20	0.00	98.30	98.10	33.60	0.00	-999.00	-999.00	
16	1.50	0.00	103.30	-999.00	-999.00	-999.00	33.20	0.00	98.50	98.30	33.60	0.00	-999.00	-999.00	
17	1.50	0.00	103.10	-999.00	-999.00	-999.00	33.50	0.00	98.40	98.30	33.90	0.00	-999.00	-999.00	
18	1.50	0.00	103.00	-999.00	-999.00	-999.00	34.50	0.00	98.40	98.30	34.30	0.00	-999.00	-999.00	
19	1.50	0.00	102.90	-999.00	-999.00	-999.00	33.90	0.00	98.30	98.30	33.60	0.00	-999.00	-999.00	
20	1.50	0.00	102.90	-999.00	-999.00	-999.00	35.30	0.00	98.50	98.30	33.70	0.00	-999.00	-999.00	
21	1.50	0.00	102.90	-999.00	-999.00	-999.00	27.50	0.00	98.50	98.30	33.70	0.00	-999.00	-999.00	
22	1.50	0.00	103.00	-999.00	-999.00	-999.00	26.80	0.00	98.50	98.30	34.10	0.00	-999.00	-999.00	
23	1.50	0.00	102.90	-999.00	-999.00	-999.00	14.60	0.00	98.50	98.90	27.50	0.00	-999.00	-999.00	
24	1.50	0.00	102.90	-999.00	-999.00	-999.00	13.30	0.00	98.50	98.40	14.30	0.00	-999.00	-999.00	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB	WA TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB		
1	12.50	0.00	-999.00	-999.00	17.00	0.00	95.80	95.60	67.10	0.00	96.60	96.70	96.00	0.00	96.10
2	0.20	0.00	-999.00	-999.00	9.30	0.00	95.80	95.70	66.00	0.00	96.60	96.70	96.00	0.00	96.00
3	1.80	0.00	-999.00	-999.00	8.90	0.00	95.80	95.60	68.40	0.00	96.60	96.70	96.00	0.00	96.00
4	0.30	0.00	-999.00	-999.00	10.40	0.00	95.80	95.60	82.50	0.00	96.60	96.70	96.10	0.00	96.00
5	1.70	0.00	-999.00	-999.00	9.00	0.00	95.70	95.60	115.50	0.00	96.60	96.70	96.10	0.00	96.00
6	14.00	0.00	-999.00	-999.00	9.20	0.00	95.70	95.70	118.00	0.00	96.60	96.70	96.10	0.00	95.90
7	20.80	0.00	-999.00	-999.00	18.80	0.00	95.70	96.00	127.00	0.00	96.60	96.70	96.20	0.00	95.90
8	28.30	0.00	-999.00	-999.00	24.80	0.00	95.60	96.70	152.40	0.00	96.60	96.70	96.10	0.00	95.80
9	29.20	0.00	-999.00	-999.00	25.10	0.00	95.60	96.00	153.20	0.00	96.50	96.60	96.00	0.00	95.80
10	28.70	0.00	-999.00	-999.00	24.00	0.00	95.70	95.90	140.30	0.00	96.50	96.70	96.00	0.00	95.70
11	28.90	0.00	-999.00	-999.00	23.50	0.00	95.70	96.10	139.10	0.00	96.50	96.80	96.10	0.00	95.90
12	33.90	0.00	-999.00	-999.00	23.40	0.00	95.80	96.20	121.20	0.00	96.60	96.80	96.10	0.00	96.00
13	35.70	0.00	-999.00	-999.00	25.90	0.00	95.80	95.80	120.10	0.00	96.60	96.90	96.20	0.00	96.10
14	34.30	0.00	-999.00	-999.00	26.10	0.00	95.80	95.70	121.40	0.00	96.70	96.80	96.10	0.00	96.10
15	35.20	0.00	-999.00	-999.00	26.50	0.00	95.80	95.80	137.60	0.00	96.70	96.80	96.20	0.00	96.20
16	34.60	0.00	-999.00	-999.00	26.20	0.00	95.90	95.80	139.30	0.00	96.80	96.90	96.20	0.00	96.20
17	34.60	0.00	-999.00	-999.00	26.30	0.00	95.90	95.80	161.60	0.00	96.80	96.90	96.20	0.00	96.20
18	34.40	0.00	-999.00	-999.00	35.40	0.00	96.00	95.80	163.70	0.00	96.90	97.00	96.40	0.00	96.30
19	34.40	0.00	-999.00	-999.00	34.70	0.00	95.90	96.50	151.40	0.00	96.90	97.00	96.40	0.00	96.20
20	34.50	0.00	-999.00	-999.00	33.90	0.00	96.00	95.90	140.60	0.00	96.70	97.00	96.40	0.00	96.20
21	35.00	0.00	-999.00	-999.00	33.90	0.00	96.00	95.70	130.00	0.00	96.90	97.00	96.40	0.00	96.30
22	34.20	0.00	-999.00	-999.00	33.70	0.00	96.00	95.80	103.10	0.00	96.80	97.00	96.30	0.00	96.30
23	27.60	0.00	-999.00	-999.00	30.50	0.00	96.00	95.80	101.20	0.00	96.80	97.00	96.30	0.00	96.30
24	15.70	0.00	-999.00	-999.00	26.30	0.00	96.10	95.80	101.80	0.00	96.80	97.10	96.50	0.00	96.40

18 JAN 2003

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

18 JAN 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	LOWER GRANITE	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.		
1	1.50	0.00	102.90	-999.00	-999.00	-999.00	0.40	0.00	98.50	98.20	1.50	0.00	-999.00	-999.00	
2	1.50	0.00	103.70	-999.00	-999.00	-999.00	0.00	0.00	98.50	98.40	0.00	0.00	-999.00	-999.00	
3	1.50	0.00	104.20	-999.00	-999.00	-999.00	0.00	0.00	98.60	98.30	0.00	0.00	-999.00	-999.00	
4	1.50	0.00	104.20	-999.00	-999.00	-999.00	1.50	0.00	98.60	98.50	0.00	0.00	-999.00	-999.00	
5	1.50	0.00	104.10	-999.00	-999.00	-999.00	14.30	0.00	98.70	98.70	1.10	0.00	-999.00	-999.00	
6	1.50	0.00	104.10	-999.00	-999.00	-999.00	26.40	0.00	98.70	98.90	13.50	0.00	-999.00	-999.00	
7	1.50	0.00	104.20	-999.00	-999.00	-999.00	26.80	0.00	98.80	98.80	20.90	0.00	-999.00	-999.00	
8	1.50	0.00	104.20	-999.00	-999.00	-999.00	29.30	0.00	98.70	98.70	30.30	0.00	-999.00	-999.00	
9	1.50	0.00	104.30	-999.00	-999.00	-999.00	29.60	0.00	98.70	98.80	30.10	0.00	-999.00	-999.00	
10	1.50	0.00	104.80	-999.00	-999.00	-999.00	30.00	0.00	98.70	98.70	30.10	0.00	-999.00	-999.00	
11	1.50	0.00	105.10	-999.00	-999.00	-999.00	29.60	0.00	99.00	98.80	30.30	0.00	-999.00	-999.00	
12	1.50	0.00	105.30	-999.00	-999.00	-999.00	29.60	0.00	98.90	98.90	30.70	0.00	-999.00	-999.00	
13	1.50	0.00	105.40	-999.00	-999.00	-999.00	34.20	0.00	99.00	99.00	35.20	0.00	-999.00	-999.00	
14	1.50	0.00	105.30	-999.00	-999.00	-999.00	34.60	0.00	99.00	99.00	35.50	0.00	-999.00	-999.00	
15	1.50	0.00	105.00	-999.00	-999.00	-999.00	35.10	0.00	99.00	99.20	35.50	0.00	-999.00	-999.00	
16	1.50	0.00	104.90	-999.00	-999.00	-999.00	34.50	0.00	99.10	99.00	36.10	0.00	-999.00	-999.00	
17	1.50	0.00	104.80	-999.00	-999.00	-999.00	34.60	0.00	99.10	99.00	35.60	0.00	-999.00	-999.00	
18	1.50	0.00	104.60	-999.00	-999.00	-999.00	34.70	0.00	99.20	99.10	35.50	0.00	-999.00	-999.00	
19	1.50	0.00	104.60	-999.00	-999.00	-999.00	35.00	0.00	99.20	99.10	35.50	0.00	-999.00	-999.00	
20	1.50	0.00	104.70	-999.00	-999.00	-999.00	35.10	0.00	99.20	99.10	36.10	0.00	-999.00	-999.00	
21	1.50	0.00	104.70	-999.00	-999.00	-999.00	35.50	0.00	99.20	99.10	35.20	0.00	-999.00	-999.00	
22	1.50	0.00	104.70	-999.00	-999.00	-999.00	27.30	0.00	99.20	99.00	28.10	0.00	-999.00	-999.00	
23	1.50	0.00	104.60	-999.00	-999.00	-999.00	16.20	0.00	99.20	99.20	14.70	0.00	-999.00	-999.00	
24	1.50	0.00	104.50	-999.00	-999.00	-999.00	13.80	0.00	99.20	99.10	13.90	0.00	-999.00	-999.00	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB	WA TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB	GAS %SAT	
1	12.30	0.00	-999.00	-999.00	12.10	0.00	96.10	95.80	0.00	96.90	97.10	96.50	0.00	96.40	
2	0.20	0.00	-999.00	-999.00	9.00	0.00	96.10	95.90	0.00	96.90	97.10	96.50	0.00	96.40	
3	0.20	0.00	-999.00	-999.00	8.90	0.00	96.10	95.90	0.00	97.00	97.20	96.60	0.00	96.50	
4	1.70	0.00	-999.00	-999.00	8.90	0.00	96.20	96.00	0.00	97.00	97.20	96.60	0.00	96.50	
5	0.20	0.00	-999.00	-999.00	9.10	0.00	96.20	96.00	0.00	97.10	97.20	96.50	0.00	96.50	
6	0.50	0.00	-999.00	-999.00	8.90	0.00	96.20	96.00	0.00	97.00	97.30	96.50	0.00	96.50	
7	13.70	0.00	-999.00	-999.00	8.90	0.00	96.20	96.10	0.00	97.00	97.20	96.50	0.00	96.50	
8	25.80	0.00	-999.00	-999.00	10.60	0.00	96.20	96.20	0.00	97.00	97.30	96.60	0.00	96.50	
9	29.40	0.00	-999.00	-999.00	17.20	0.00	96.20	96.40	0.00	97.00	97.30	96.70	0.00	96.50	
10	33.70	0.00	-999.00	-999.00	23.60	0.00	96.20	96.40	0.00	97.20	97.30	96.50	0.00	96.50	
11	34.50	0.00	-999.00	-999.00	24.10	0.00	96.30	97.20	0.00	97.20	97.30	96.70	0.00	96.60	
12	34.70	0.00	-999.00	-999.00	23.90	0.00	96.40	96.50	0.00	97.30	97.50	96.80	0.00	96.70	
13	35.00	0.00	-999.00	-999.00	23.90	0.00	96.40	96.50	0.00	97.50	97.60	96.90	0.00	96.70	
14	35.00	0.00	-999.00	-999.00	24.20	0.00	96.50	96.70	0.00	97.40	97.60	97.00	0.00	96.90	
15	35.00	0.00	-999.00	-999.00	33.90	0.00	96.60	96.70	0.00	97.60	97.70	97.10	0.00	97.00	
16	35.30	0.00	-999.00	-999.00	34.30	0.00	96.60	96.90	0.00	97.60	97.60	97.10	0.00	97.00	
17	40.40	0.00	-999.00	-999.00	39.10	0.00	96.60	96.40	0.00	97.60	97.70	97.10	0.00	97.00	
18	39.80	0.00	-999.00	-999.00	39.70	0.00	96.70	96.40	0.00	97.60	97.70	97.10	0.00	97.00	
19	40.10	0.00	-999.00	-999.00	39.50	0.00	96.70	96.40	0.00	97.50	97.70	97.30	0.00	96.90	
20	40.00	0.00	-999.00	-999.00	40.30	0.00	96.70	96.50	0.00	97.50	97.70	97.20	0.00	96.90	
21	40.50	0.00	-999.00	-999.00	39.40	0.00	96.70	96.50	0.00	97.50	97.70	97.10	0.00	96.80	
22	40.50	0.00	-999.00	-999.00	38.90	0.00	96.70	96.50	0.00	97.50	97.80	97.20	0.00	96.80	
23	28.20	0.00	-999.00	-999.00	28.80	0.00	96.80	96.50	0.00	97.50	97.80	97.20	0.00	96.80	
24	20.90	0.00	-999.00	-999.00	28.10	0.00	96.80	96.60	0.00	97.60	97.80	97.20	0.00	96.80	

19 JAN 2003

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

19 JAN 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	LOWER GRANITE	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.		
1	1.50	0.00	104.70	-999.00	-999.00	-999.00	13.90	0.00	99.30	99.00	14.20	0.00	-999.00	-999.00	
2	1.50	0.00	104.70	-999.00	-999.00	-999.00	13.30	0.00	99.20	99.10	12.20	0.00	-999.00	-999.00	
3	1.50	0.00	104.70	-999.00	-999.00	-999.00	0.00	0.00	99.40	99.10	0.10	0.00	-999.00	-999.00	
4	1.50	0.00	104.70	-999.00	-999.00	-999.00	0.90	0.00	99.40	99.30	0.10	0.00	-999.00	-999.00	
5	1.50	0.00	104.70	-999.00	-999.00	-999.00	13.10	0.00	99.30	99.30	1.30	0.00	-999.00	-999.00	
6	1.50	0.00	104.60	-999.00	-999.00	-999.00	13.40	0.00	99.30	99.30	13.40	0.00	-999.00	-999.00	
7	1.50	0.00	104.70	-999.00	-999.00	-999.00	13.70	0.00	99.40	99.30	13.80	0.00	-999.00	-999.00	
8	1.50	0.00	104.70	-999.00	-999.00	-999.00	16.90	0.00	99.20	99.20	17.20	0.00	-999.00	-999.00	
9	1.50	0.00	104.80	-999.00	-999.00	-999.00	17.10	0.00	99.20	99.20	19.60	0.00	-999.00	-999.00	
10	1.50	0.00	105.10	-999.00	-999.00	-999.00	20.40	0.00	99.30	99.20	20.10	0.00	-999.00	-999.00	
11	1.50	0.00	105.40	-999.00	-999.00	-999.00	21.00	0.00	99.30	99.20	20.50	0.00	-999.00	-999.00	
12	1.50	0.00	105.70	-999.00	-999.00	-999.00	21.00	0.00	99.50	99.30	20.70	0.00	-999.00	-999.00	
13	1.50	0.00	105.90	-999.00	-999.00	-999.00	20.70	0.00	99.60	99.20	20.90	0.00	-999.00	-999.00	
14	1.50	0.00	106.00	-999.00	-999.00	-999.00	20.60	0.00	99.60	99.30	21.00	0.00	-999.00	-999.00	
15	1.50	0.00	105.80	-999.00	-999.00	-999.00	20.60	0.00	99.50	99.30	20.90	0.00	-999.00	-999.00	
16	1.50	0.00	105.50	-999.00	-999.00	-999.00	21.00	0.00	99.50	99.30	24.10	0.00	-999.00	-999.00	
17	1.50	0.00	105.10	-999.00	-999.00	-999.00	24.00	0.00	99.50	104.30	27.60	0.00	-999.00	-999.00	
18	1.50	0.00	105.00	-999.00	-999.00	-999.00	27.60	0.00	99.70	100.80	34.60	0.00	-999.00	-999.00	
19	1.50	0.00	104.90	-999.00	-999.00	-999.00	27.20	0.00	99.70	100.30	34.10	0.00	-999.00	-999.00	
20	1.50	0.00	104.90	-999.00	-999.00	-999.00	29.70	0.00	99.70	100.00	33.30	0.00	-999.00	-999.00	
21	1.50	0.00	104.80	-999.00	-999.00	-999.00	28.50	0.00	99.70	99.90	33.30	0.00	-999.00	-999.00	
22	1.50	0.00	104.90	-999.00	-999.00	-999.00	25.90	0.00	99.70	99.70	31.30	0.00	-999.00	-999.00	
23	1.50	0.00	104.90	-999.00	-999.00	-999.00	21.80	0.00	99.70	99.70	28.40	0.00	-999.00	-999.00	
24	1.50	0.00	104.70	-999.00	-999.00	-999.00	13.60	0.00	99.70	99.70	22.50	0.00	-999.00	-999.00	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB	WA TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB	GAS % SAT	
1	20.20	0.00	-999.00	-999.00	28.40	0.00	96.80	96.60	72.70	0.00	97.60	97.90	97.30	96.80	
2	13.70	0.00	-999.00	-999.00	12.30	0.00	96.90	96.50	73.40	0.00	97.60	97.90	97.20	96.90	
3	4.60	0.00	-999.00	-999.00	9.00	0.00	96.90	96.50	75.20	0.00	97.60	98.00	97.40	97.00	
4	0.10	0.00	-999.00	-999.00	8.90	0.00	96.90	96.50	74.20	0.00	97.60	97.90	97.50	97.00	
5	0.10	0.00	-999.00	-999.00	8.80	0.00	96.90	96.50	83.40	0.00	97.70	98.00	97.60	97.00	
6	0.10	0.00	-999.00	-999.00	9.00	0.00	96.90	96.40	85.40	0.00	97.60	98.10	97.50	97.00	
7	0.70	0.00	-999.00	-999.00	8.90	0.00	97.00	96.60	86.40	0.00	97.70	98.00	97.60	97.10	
8	13.70	0.00	-999.00	-999.00	8.80	0.00	97.00	96.70	94.70	0.00	97.70	98.10	97.50	97.10	
9	17.00	0.00	-999.00	-999.00	8.80	0.00	97.00	96.90	101.80	0.00	97.80	98.00	97.30	97.00	
10	20.50	0.00	-999.00	-999.00	10.30	0.00	96.90	96.90	100.60	0.00	97.70	98.10	97.30	96.90	
11	21.10	0.00	-999.00	-999.00	18.70	0.00	96.90	97.10	99.30	0.00	97.70	98.10	97.20	97.00	
12	21.40	0.00	-999.00	-999.00	18.30	0.00	97.00	97.30	98.20	0.00	97.80	98.20	97.40	97.00	
13	21.10	0.00	-999.00	-999.00	18.40	0.00	97.10	97.50	94.40	0.00	97.90	98.30	97.50	97.20	
14	21.10	0.00	-999.00	-999.00	20.70	0.00	97.20	97.50	97.00	0.00	98.10	98.40	97.60	97.20	
15	21.20	0.00	-999.00	-999.00	20.80	0.00	97.20	97.40	98.40	0.00	98.10	98.40	97.50	97.20	
16	22.80	0.00	-999.00	-999.00	24.20	0.00	97.10	97.20	99.60	0.00	98.00	98.30	97.60	97.20	
17	27.60	0.00	-999.00	-999.00	26.10	0.00	97.10	97.20	99.20	0.00	97.90	98.30	97.60	97.20	
18	34.30	0.00	-999.00	-999.00	33.80	0.00	97.20	97.00	136.40	0.00	97.90	98.30	97.50	97.20	
19	34.30	0.00	-999.00	-999.00	32.90	0.00	97.20	97.20	140.20	0.00	98.00	98.30	97.50	97.20	
20	34.60	0.00	-999.00	-999.00	33.00	0.00	97.20	97.40	137.30	0.00	97.90	98.40	97.50	97.20	
21	34.90	0.00	-999.00	-999.00	33.40	0.00	97.30	97.10	129.20	0.00	98.00	98.30	97.50	97.20	
22	34.70	0.00	-999.00	-999.00	14.90	0.00	97.20	97.00	128.30	0.00	97.80	98.40	97.60	97.20	
23	34.80	0.00	-999.00	-999.00	9.10	0.00	97.30	96.90	95.40	0.00	97.80	98.30	97.60	97.10	
24	30.00	0.00	-999.00	-999.00	9.00	0.00	97.30	96.90	82.60	0.00	97.80	98.40	97.60	97.10	

20 JAN 2003

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

20 JAN 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.			
1	1.50	0.00	104.70	-999.00	-999.00	-999.00	0.00	0.00	99.70	0.10	0.00	-999.00	-999.00		
2	1.50	0.00	104.70	-999.00	-999.00	-999.00	0.00	0.00	99.70	0.10	0.00	-999.00	-999.00		
3	1.50	0.00	104.50	-999.00	-999.00	-999.00	0.00	0.00	99.70	1.60	0.00	-999.00	-999.00		
4	1.50	0.00	104.00	-999.00	-999.00	-999.00	0.90	0.00	99.70	0.10	0.00	-999.00	-999.00		
5	1.50	0.00	103.80	-999.00	-999.00	-999.00	13.40	0.00	99.70	0.10	0.00	-999.00	-999.00		
6	1.50	0.00	103.70	-999.00	-999.00	-999.00	20.90	0.00	99.60	1.10	0.00	-999.00	-999.00		
7	1.50	0.00	103.70	-999.00	-999.00	-999.00	21.20	0.00	99.60	20.70	0.00	-999.00	-999.00		
8	1.50	0.00	103.60	-999.00	-999.00	-999.00	20.70	0.00	99.70	21.70	0.00	-999.00	-999.00		
9	1.50	0.00	103.90	-999.00	-999.00	-999.00	21.00	0.00	99.70	21.70	0.00	-999.00	-999.00		
10	1.50	0.00	104.20	-999.00	-999.00	-999.00	20.60	0.00	99.50	21.50	0.00	-999.00	-999.00		
11	1.50	0.00	104.60	-999.00	-999.00	-999.00	20.60	0.00	99.70	21.70	0.00	-999.00	-999.00		
12	1.50	0.00	104.80	-999.00	-999.00	-999.00	20.60	0.00	99.70	21.90	0.00	-999.00	-999.00		
13	1.50	0.00	104.90	-999.00	-999.00	-999.00	21.00	0.00	99.80	21.50	0.00	-999.00	-999.00		
14	1.50	0.00	104.90	-999.00	-999.00	-999.00	20.70	0.00	99.80	21.60	0.00	-999.00	-999.00		
15	1.50	0.00	104.80	-999.00	-999.00	-999.00	20.60	0.00	99.80	21.50	0.00	-999.00	-999.00		
16	1.50	0.00	104.50	-999.00	-999.00	-999.00	20.70	0.00	99.80	23.50	0.00	-999.00	-999.00		
17	1.50	0.00	104.10	-999.00	-999.00	-999.00	29.10	0.00	99.80	28.30	0.00	-999.00	-999.00		
18	1.50	0.00	103.90	-999.00	-999.00	-999.00	29.90	0.00	99.80	29.60	0.00	-999.00	-999.00		
19	1.50	0.00	104.00	-999.00	-999.00	-999.00	30.50	0.00	99.90	34.60	0.00	-999.00	-999.00		
20	1.50	0.00	104.00	-999.00	-999.00	-999.00	30.00	0.00	99.90	34.90	0.00	-999.00	-999.00		
21	1.50	0.00	103.80	-999.00	-999.00	-999.00	29.70	0.00	99.90	36.90	0.00	-999.00	-999.00		
22	1.50	0.00	103.80	-999.00	-999.00	-999.00	26.00	0.00	99.90	33.70	0.00	-999.00	-999.00		
23	1.50	0.00	103.80	-999.00	-999.00	-999.00	20.30	0.00	99.80	21.00	0.00	-999.00	-999.00		
24	1.50	0.00	103.90	-999.00	-999.00	-999.00	20.10	0.00	99.90	20.90	0.00	-999.00	-999.00		

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.			
1	1.00	0.00	-999.00	11.90	0.00	97.30	75.80	0.00	97.90	97.70	0.00	97.10			
2	0.10	0.00	-999.00	12.30	0.00	97.20	63.40	0.00	97.90	97.70	0.00	97.10			
3	0.10	0.00	-999.00	9.00	0.00	97.20	66.20	0.00	97.80	97.50	0.00	97.10			
4	0.10	0.00	-999.00	8.90	0.00	97.30	84.10	0.00	97.80	97.60	0.00	97.10			
5	0.10	0.00	-999.00	8.90	0.00	97.30	150.60	0.00	97.90	97.50	0.00	97.10			
6	1.60	0.00	-999.00	9.10	0.00	97.30	149.10	0.00	97.90	97.50	0.00	96.90			
7	13.70	0.00	-999.00	12.10	0.00	97.20	148.00	0.00	97.90	97.40	0.00	96.90			
8	20.20	0.00	-999.00	13.80	0.00	97.20	135.20	0.00	97.90	97.50	0.00	96.80			
9	20.60	0.00	-999.00	18.90	0.00	97.10	115.90	0.00	97.80	97.50	0.00	96.80			
10	20.70	0.00	-999.00	19.50	0.00	97.20	103.90	0.00	97.80	97.40	0.00	96.70			
11	21.10	0.00	-999.00	19.80	0.00	97.30	99.00	0.00	97.80	97.40	0.00	96.80			
12	20.70	0.00	-999.00	19.40	0.00	97.30	98.70	0.00	98.00	97.50	0.00	96.80			
13	22.20	0.00	-999.00	19.10	0.00	97.30	98.50	0.00	98.00	97.50	0.00	97.00			
14	20.60	0.00	-999.00	19.10	0.00	97.40	98.30	0.00	98.10	97.60	0.00	97.00			
15	20.60	0.00	-999.00	19.10	0.00	97.40	98.60	0.00	98.00	97.60	0.00	97.00			
16	20.60	0.00	-999.00	19.80	0.00	97.40	99.10	0.00	98.10	97.60	0.00	97.10			
17	29.60	0.00	-999.00	27.40	0.00	97.40	99.60	0.00	98.10	97.60	0.00	97.20			
18	30.20	0.00	-999.00	29.50	0.00	97.40	100.60	0.00	98.00	97.80	0.00	97.20			
19	34.20	0.00	-999.00	34.10	0.00	97.50	99.20	0.00	98.00	98.40	0.00	97.20			
20	35.10	0.00	-999.00	35.10	0.00	97.50	98.80	0.00	98.00	98.50	0.00	97.20			
21	34.30	0.00	-999.00	35.60	0.00	97.50	98.60	0.00	98.00	98.50	0.00	97.20			
22	34.80	0.00	-999.00	34.80	0.00	97.50	97.60	0.00	98.00	98.50	0.00	97.20			
23	33.80	0.00	-999.00	24.70	0.00	97.50	80.70	0.00	98.00	98.60	0.00	97.40			
24	25.90	0.00	-999.00	23.70	0.00	97.50	79.50	0.00	98.00	98.40	0.00	97.50			

21 JAN 2003

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

21 JAN 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB %SAT. TAILW.	LOWER GRANITE	TOTAL DISCH KCFS	SPILL KCFS	GAS FB %SAT. TAILW.		
1	1.50	0.00	103.90	-999.00	-999.00	-999.00	12.70	0.00	100.00	99.90	19.40	0.00	-999.00	-999.00	
2	1.50	0.00	103.80	-999.00	-999.00	-999.00	12.40	0.00	99.80	99.80	13.00	0.00	-999.00	-999.00	
3	1.50	0.00	103.80	-999.00	-999.00	-999.00	12.40	0.00	99.80	99.70	12.80	0.00	-999.00	-999.00	
4	1.50	0.00	103.80	-999.00	-999.00	-999.00	12.40	0.00	100.00	99.70	12.80	0.00	-999.00	-999.00	
5	1.50	0.00	103.80	-999.00	-999.00	-999.00	12.30	0.00	100.00	99.80	12.80	0.00	-999.00	-999.00	
6	1.50	0.00	103.80	-999.00	-999.00	-999.00	12.60	0.00	100.10	99.80	12.80	0.00	-999.00	-999.00	
7	1.50	0.00	103.90	-999.00	-999.00	-999.00	18.80	0.00	100.10	99.80	12.70	0.00	-999.00	-999.00	
8	1.50	0.00	103.90	-999.00	-999.00	-999.00	19.00	0.00	100.10	99.90	12.50	0.00	-999.00	-999.00	
9	1.50	0.00	103.90	-999.00	-999.00	-999.00	12.60	0.00	100.10	99.80	12.90	0.00	-999.00	-999.00	
10	1.50	0.00	104.20	-999.00	-999.00	-999.00	4.30	0.00	100.10	114.30	13.00	0.00	-999.00	-999.00	
11	1.50	0.00	104.40	-999.00	-999.00	-999.00	13.50	0.00	100.10	102.80	12.70	0.00	-999.00	-999.00	
12	1.50	0.00	104.60	-999.00	-999.00	-999.00	13.50	0.00	100.10	102.60	12.70	0.00	-999.00	-999.00	
13	1.50	0.00	104.60	-999.00	-999.00	-999.00	13.50	0.00	100.10	102.00	12.80	0.00	-999.00	-999.00	
14	1.50	0.00	104.40	-999.00	-999.00	-999.00	13.60	0.00	100.10	101.70	12.80	0.00	-999.00	-999.00	
15	1.50	0.00	104.20	-999.00	-999.00	-999.00	19.10	0.00	100.00	101.10	13.00	0.00	-999.00	-999.00	
16	1.50	0.00	104.20	-999.00	-999.00	-999.00	20.60	0.00	100.10	100.60	13.20	0.00	-999.00	-999.00	
17	1.50	0.00	104.00	-999.00	-999.00	-999.00	20.80	0.00	100.10	100.50	26.40	0.00	-999.00	-999.00	
18	1.50	0.00	103.90	-999.00	-999.00	-999.00	21.00	0.00	100.00	100.10	40.40	0.00	-999.00	-999.00	
19	1.50	0.00	103.80	-999.00	-999.00	-999.00	21.00	0.00	99.90	100.10	44.30	0.00	-999.00	-999.00	
20	1.50	0.00	103.70	-999.00	-999.00	-999.00	21.30	0.00	99.70	99.90	43.90	0.00	-999.00	-999.00	
21	1.50	0.00	103.60	-999.00	-999.00	-999.00	20.90	0.00	99.90	99.90	43.70	0.00	-999.00	-999.00	
22	1.50	0.00	103.50	-999.00	-999.00	-999.00	20.90	0.00	99.70	99.70	40.20	0.00	-999.00	-999.00	
23	1.50	0.00	103.50	-999.00	-999.00	-999.00	20.90	0.00	99.70	99.60	29.60	0.00	-999.00	-999.00	
24	1.50	0.00	103.50	-999.00	-999.00	-999.00	20.80	0.00	99.50	99.60	13.80	0.00	-999.00	-999.00	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS FB %SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB %SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB %SAT. TAILW.	LOWER GRANITE	TOTAL DISCH KCFS	SPILL KCFS	GAS FB %SAT. TAILW.	GAS %SAT	
1	19.10	0.00	-999.00	-999.00	23.80	0.00	97.60	97.30	80.30	0.00	98.10	98.50	97.60	97.60	
2	20.10	0.00	-999.00	-999.00	23.80	0.00	97.50	97.30	81.10	0.00	98.10	98.40	97.60	97.60	
3	13.60	0.00	-999.00	-999.00	12.60	0.00	97.50	97.30	78.70	0.00	98.10	98.50	97.60	97.60	
4	13.30	0.00	-999.00	-999.00	12.10	0.00	97.60	97.30	81.00	0.00	98.10	98.40	97.60	97.60	
5	13.60	0.00	-999.00	-999.00	13.60	0.00	97.60	97.30	113.70	0.00	98.10	98.40	97.60	97.60	
6	13.40	0.00	-999.00	-999.00	12.20	0.00	97.60	97.40	117.30	0.00	98.10	98.40	97.70	97.60	
7	13.70	0.00	-999.00	-999.00	12.00	0.00	97.60	97.50	132.50	0.00	98.20	98.40	97.70	97.70	
8	13.60	0.00	-999.00	-999.00	11.70	0.00	97.60	97.50	137.80	0.00	98.20	98.40	97.70	97.70	
9	13.80	0.00	-999.00	-999.00	11.70	0.00	97.70	97.50	109.90	0.00	98.10	98.40	97.70	97.70	
10	14.00	0.00	-999.00	-999.00	11.80	0.00	97.60	97.60	75.50	0.00	98.20	98.40	97.70	97.70	
11	13.60	0.00	-999.00	-999.00	11.80	0.00	97.60	98.60	73.00	0.00	98.10	98.30	97.60	97.70	
12	13.70	0.00	-999.00	-999.00	11.80	0.00	97.60	98.20	73.00	0.00	98.10	98.40	97.70	97.70	
13	13.70	0.00	-999.00	-999.00	11.80	0.00	97.60	97.90	66.60	0.00	98.20	98.40	97.70	97.70	
14	13.70	0.00	-999.00	-999.00	11.80	0.00	97.60	97.80	66.50	0.00	98.20	98.40	97.80	97.70	
15	13.90	0.00	-999.00	-999.00	11.80	0.00	97.70	97.90	102.00	0.00	98.40	98.70	97.90	97.90	
16	14.10	0.00	-999.00	-999.00	12.60	0.00	97.70	97.80	120.40	0.00	98.30	98.60	97.90	97.80	
17	26.10	0.00	-999.00	-999.00	19.70	0.00	97.60	97.70	133.30	0.00	98.10	98.60	97.80	97.70	
18	39.60	0.00	-999.00	-999.00	31.60	0.00	97.50	97.50	134.90	0.00	98.10	98.40	97.60	97.70	
19	43.10	0.00	-999.00	-999.00	42.30	0.00	97.50	98.20	132.00	0.00	98.00	98.40	97.60	97.70	
20	43.30	0.00	-999.00	-999.00	43.70	0.00	97.40	97.40	130.20	0.00	97.90	98.40	97.60	97.60	
21	44.20	0.00	-999.00	-999.00	42.90	0.00	97.50	97.20	92.40	0.00	97.80	98.30	97.50	97.60	
22	40.40	0.00	-999.00	-999.00	43.00	0.00	97.40	97.20	72.80	0.00	97.80	98.30	97.50	97.40	
23	39.00	0.00	-999.00	-999.00	42.60	0.00	97.40	97.00	71.60	0.00	97.80	98.60	97.50	97.50	
24	14.40	0.00	-999.00	-999.00	33.20	0.00	97.40	97.10	63.50	0.00	97.80	98.40	97.50	97.30	

22 JAN 2003

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

22 JAN 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT FB TAILW.			
1	1.50	0.00	103.50	-999.00	-999.00	-999.00	22.90	0.00	99.80	13.00	0.00	-999.00	-999.00	-999.00	-999.00
2	1.50	0.00	103.60	-999.00	-999.00	-999.00	20.90	0.00	99.40	12.90	0.00	-999.00	-999.00	-999.00	-999.00
3	1.50	0.00	103.60	-999.00	-999.00	-999.00	20.90	0.00	99.40	12.90	0.00	-999.00	-999.00	-999.00	-999.00
4	1.50	0.00	103.70	-999.00	-999.00	-999.00	20.90	0.00	99.70	12.90	0.00	-999.00	-999.00	-999.00	-999.00
5	1.50	0.00	103.80	-999.00	-999.00	-999.00	20.90	0.00	99.80	12.80	0.00	-999.00	-999.00	-999.00	-999.00
6	1.50	0.00	103.60	-999.00	-999.00	-999.00	20.90	0.00	100.00	12.70	0.00	-999.00	-999.00	-999.00	-999.00
7	1.50	0.00	103.60	-999.00	-999.00	-999.00	21.30	0.00	100.00	22.00	0.00	-999.00	-999.00	-999.00	-999.00
8	1.50	0.00	103.50	-999.00	-999.00	-999.00	20.90	0.00	100.00	21.50	0.00	-999.00	-999.00	-999.00	-999.00
9	1.50	0.00	103.80	-999.00	-999.00	-999.00	22.70	1.90	99.90	20.80	0.00	-999.00	-999.00	-999.00	-999.00
10	1.50	0.00	104.10	-999.00	-999.00	-999.00	25.70	4.70	99.80	24.10	0.00	-999.00	-999.00	-999.00	-999.00
11	1.50	0.00	104.30	-999.00	-999.00	-999.00	29.00	8.10	100.00	21.30	0.00	-999.00	-999.00	-999.00	-999.00
12	1.50	0.00	104.20	-999.00	-999.00	-999.00	30.10	10.40	100.00	23.70	0.00	-999.00	-999.00	-999.00	-999.00
13	1.50	0.00	104.40	-999.00	-999.00	-999.00	30.90	21.90	100.10	24.10	0.00	-999.00	-999.00	-999.00	-999.00
14	1.50	0.00	104.20	-999.00	-999.00	-999.00	29.00	0.00	100.30	21.50	0.00	-999.00	-999.00	-999.00	-999.00
15	1.50	0.00	104.10	-999.00	-999.00	-999.00	26.90	0.00	100.20	21.40	0.00	-999.00	-999.00	-999.00	-999.00
16	1.50	0.00	104.00	-999.00	-999.00	-999.00	21.50	0.00	100.30	21.50	0.00	-999.00	-999.00	-999.00	-999.00
17	1.50	0.00	104.00	-999.00	-999.00	-999.00	21.10	0.00	100.40	21.90	0.00	-999.00	-999.00	-999.00	-999.00
18	1.50	0.00	103.90	-999.00	-999.00	-999.00	29.80	0.00	100.40	26.60	0.00	-999.00	-999.00	-999.00	-999.00
19	1.50	0.00	103.80	-999.00	-999.00	-999.00	29.80	0.00	100.60	26.30	0.00	-999.00	-999.00	-999.00	-999.00
20	1.50	0.00	103.90	-999.00	-999.00	-999.00	35.70	0.00	100.70	35.70	0.00	-999.00	-999.00	-999.00	-999.00
21	1.50	0.00	104.00	-999.00	-999.00	-999.00	38.20	0.00	100.30	31.50	0.00	-999.00	-999.00	-999.00	-999.00
22	1.50	0.00	103.90	-999.00	-999.00	-999.00	38.40	0.00	100.10	31.80	0.00	-999.00	-999.00	-999.00	-999.00
23	1.50	0.00	103.80	-999.00	-999.00	-999.00	32.90	0.00	100.30	35.20	0.00	-999.00	-999.00	-999.00	-999.00
24	1.50	0.00	103.70	-999.00	-999.00	-999.00	17.30	0.00	100.30	19.60	0.00	-999.00	-999.00	-999.00	-999.00

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. WA TAILW. FB	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB			
1	13.10	0.00	-999.00	20.10	0.00	97.30	62.90	0.00	97.80	97.50	0.00	-97.30	-97.40	-97.30	-97.20
2	13.30	0.00	-999.00	12.10	0.00	97.40	62.50	0.00	97.90	97.60	0.00	-97.40	-97.30	-97.20	-97.20
3	13.30	0.00	-999.00	11.00	0.00	97.30	112.00	0.00	97.70	97.50	0.00	-97.30	-97.20	-97.20	-97.20
4	13.40	0.00	-999.00	11.70	0.00	97.30	147.70	0.00	97.70	97.50	0.00	-97.20	-97.20	-97.20	-97.20
5	13.30	0.00	-999.00	11.90	0.00	97.30	150.50	0.00	97.80	97.50	0.00	-97.20	-97.20	-97.20	-97.20
6	13.30	0.00	-999.00	12.00	0.00	97.30	152.80	0.00	97.70	97.50	0.00	-97.20	-97.20	-97.20	-97.20
7	13.20	0.00	-999.00	11.90	0.00	97.30	154.00	0.00	97.70	97.50	0.00	-97.20	-97.20	-97.20	-97.20
8	13.30	0.00	-999.00	11.90	0.00	97.40	152.30	0.00	97.90	97.60	0.00	-97.20	-97.20	-97.20	-97.20
9	13.40	0.00	-999.00	12.20	0.00	97.50	157.70	0.00	98.20	97.80	0.00	-97.20	-97.20	-97.20	-97.20
10	21.00	0.00	-999.00	19.80	0.00	97.70	161.30	0.00	98.20	97.80	0.00	-97.30	-97.30	-97.30	-97.30
11	30.90	0.00	-999.00	30.60	0.00	97.60	158.10	0.00	98.10	97.80	0.00	-97.30	-97.20	-97.20	-97.20
12	29.80	0.00	-999.00	28.30	0.00	97.70	161.80	0.00	98.20	97.80	0.00	-97.20	-97.20	-97.20	-97.20
13	27.80	0.00	-999.00	28.20	0.00	97.80	159.20	0.00	98.20	98.00	0.00	-97.30	-97.40	-97.40	-97.40
14	27.70	0.00	-999.00	27.80	0.00	97.90	151.10	0.00	98.30	98.10	0.00	-97.40	-97.40	-97.40	-97.40
15	27.70	0.00	-999.00	21.70	0.00	98.00	156.20	0.00	98.50	98.20	0.00	-97.40	-97.40	-97.40	-97.40
16	22.60	0.00	-999.00	19.80	0.00	98.10	144.20	0.00	98.50	98.90	0.00	-97.50	-97.60	-97.60	-97.60
17	22.00	0.00	-999.00	20.30	0.00	98.00	142.60	0.00	98.60	98.30	0.00	-97.60	-97.60	-97.60	-97.60
18	26.20	0.00	-999.00	21.80	0.00	98.20	144.60	0.00	98.60	98.20	0.00	-97.60	-97.60	-97.60	-97.60
19	26.60	0.00	-999.00	22.00	0.00	98.10	143.20	0.00	98.30	98.70	0.00	-97.60	-97.60	-97.60	-97.60
20	35.30	0.00	-999.00	23.50	0.00	97.90	140.40	0.00	98.40	98.70	0.00	-97.50	-97.50	-97.50	-97.50
21	35.80	0.00	-999.00	26.50	0.00	98.00	114.40	0.00	98.30	98.70	0.00	-97.50	-97.50	-97.50	-97.50
22	35.80	0.00	-999.00	27.80	0.00	97.80	99.00	0.00	98.00	98.50	0.00	-97.40	-97.40	-97.40	-97.40
23	30.60	0.00	-999.00	26.80	0.00	97.80	91.50	0.00	98.10	98.50	0.00	-97.60	-97.60	-97.60	-97.60
24	15.70	0.00	-999.00	20.20	0.00	97.70	66.70	0.00	98.00	98.50	0.00	-97.30	-97.30	-97.30	-97.30

23 JAN 2003

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

23 JAN 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	LOWER GRANITE	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.		
1	1.50	0.00	103.70	-999.00	-999.00	-999.00	16.80	0.00	100.30	100.30	14.20	0.00	-999.00	-999.00	
2	1.50	0.00	103.80	-999.00	-999.00	-999.00	15.90	0.00	100.30	100.10	13.50	0.00	-999.00	-999.00	
3	1.50	0.00	103.70	-999.00	-999.00	-999.00	15.20	0.00	100.10	100.00	13.70	0.00	-999.00	-999.00	
4	1.50	0.00	103.60	-999.00	-999.00	-999.00	13.70	0.00	100.10	100.00	13.50	0.00	-999.00	-999.00	
5	1.50	0.00	103.60	-999.00	-999.00	-999.00	13.00	0.00	100.10	100.00	13.40	0.00	-999.00	-999.00	
6	1.50	0.00	103.60	-999.00	-999.00	-999.00	13.40	0.00	100.00	100.00	13.70	0.00	-999.00	-999.00	
7	1.50	0.00	103.60	-999.00	-999.00	-999.00	25.00	0.00	99.90	99.80	25.20	0.00	-999.00	-999.00	
8	1.50	0.00	103.50	-999.00	-999.00	-999.00	25.80	0.00	99.90	99.80	24.90	0.00	-999.00	-999.00	
9	1.50	0.00	103.70	-999.00	-999.00	-999.00	25.70	0.00	100.00	99.70	25.10	0.00	-999.00	-999.00	
10	1.50	0.00	103.90	-999.00	-999.00	-999.00	26.30	0.00	99.80	99.60	26.50	0.00	-999.00	-999.00	
11	1.50	0.00	104.30	-999.00	-999.00	-999.00	25.80	0.00	100.00	99.70	25.00	0.00	-999.00	-999.00	
12	1.50	0.00	104.40	-999.00	-999.00	-999.00	25.80	0.00	100.10	99.70	25.40	0.00	-999.00	-999.00	
13	1.50	0.00	104.40	-999.00	-999.00	-999.00	25.90	0.00	100.10	99.90	25.00	0.00	-999.00	-999.00	
14	1.50	0.00	104.40	-999.00	-999.00	-999.00	25.80	0.00	100.10	99.90	24.90	0.00	-999.00	-999.00	
15	1.50	0.00	104.30	-999.00	-999.00	-999.00	26.30	0.00	100.10	99.70	24.80	0.00	-999.00	-999.00	
16	1.50	0.00	104.20	-999.00	-999.00	-999.00	26.00	0.00	100.10	99.70	25.50	0.00	-999.00	-999.00	
17	1.50	0.00	103.90	-999.00	-999.00	-999.00	30.30	0.00	100.10	99.70	30.90	0.00	-999.00	-999.00	
18	1.50	0.00	103.70	-999.00	-999.00	-999.00	30.60	0.00	100.10	99.70	31.10	0.00	-999.00	-999.00	
19	1.50	0.00	103.70	-999.00	-999.00	-999.00	30.60	0.00	100.10	99.70	32.60	0.00	-999.00	-999.00	
20	1.50	0.00	103.70	-999.00	-999.00	-999.00	30.90	0.00	100.10	99.70	31.70	0.00	-999.00	-999.00	
21	1.50	0.00	103.70	-999.00	-999.00	-999.00	29.80	0.00	100.10	99.70	31.10	0.00	-999.00	-999.00	
22	1.50	0.00	103.70	-999.00	-999.00	-999.00	19.00	0.00	100.10	101.10	31.20	0.00	-999.00	-999.00	
23	1.50	0.00	103.70	-999.00	-999.00	-999.00	15.60	0.00	100.00	100.00	30.40	0.00	-999.00	-999.00	
24	1.50	0.00	103.50	-999.00	-999.00	-999.00	0.00	0.00	100.00	100.20	17.30	0.00	-999.00	-999.00	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB	MCNARY	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	PASCO	
1	14.30	0.00	-999.00	-999.00	19.00	0.00	97.70	97.50	0.00	97.90	98.40	97.50	0.00	97.40	
2	13.50	0.00	-999.00	-999.00	13.50	0.00	97.60	97.40	102.80	0.00	97.90	98.40	97.60	0.00	97.40
3	13.40	0.00	-999.00	-999.00	12.00	0.00	97.60	97.30	93.70	0.00	97.80	98.30	97.50	0.00	97.20
4	13.40	0.00	-999.00	-999.00	11.90	0.00	97.50	97.50	86.20	0.00	98.00	98.20	97.50	0.00	97.00
5	13.60	0.00	-999.00	-999.00	11.90	0.00	97.50	97.20	98.00	0.00	97.60	98.20	97.40	0.00	97.00
6	13.60	0.00	-999.00	-999.00	13.80	0.00	97.40	97.30	102.20	0.00	97.50	98.00	97.30	0.00	97.00
7	20.20	0.00	-999.00	-999.00	20.00	0.00	97.30	98.20	108.30	0.00	97.50	98.00	97.30	0.00	96.80
8	27.50	0.00	-999.00	-999.00	23.40	0.00	97.30	97.30	111.30	0.00	97.40	98.00	97.30	0.00	96.70
9	26.00	0.00	-999.00	-999.00	23.20	0.00	97.30	97.40	129.20	0.00	97.40	97.90	97.20	0.00	96.70
10	26.00	0.00	-999.00	-999.00	23.90	0.00	97.30	97.40	126.50	0.00	97.50	97.90	97.20	0.00	96.70
11	26.50	0.00	-999.00	-999.00	23.50	0.00	97.40	97.50	125.90	0.00	97.50	97.90	97.20	0.00	96.70
12	26.40	0.00	-999.00	-999.00	24.90	0.00	97.40	97.60	126.80	0.00	97.50	98.00	97.30	0.00	96.70
13	26.50	0.00	-999.00	-999.00	23.20	0.00	97.40	97.80	126.20	0.00	98.40	98.00	97.40	0.00	96.80
14	26.50	0.00	-999.00	-999.00	23.20	0.00	97.40	98.30	126.10	0.00	98.40	98.20	97.40	0.00	97.00
15	26.40	0.00	-999.00	-999.00	23.40	0.00	97.40	97.90	125.50	0.00	98.00	98.20	97.50	0.00	97.20
16	28.10	0.00	-999.00	-999.00	23.30	0.00	97.40	97.70	111.80	0.00	97.90	98.30	97.50	0.00	97.40
17	31.20	0.00	-999.00	-999.00	29.50	0.00	97.40	97.40	111.00	0.00	97.90	98.30	97.50	0.00	97.50
18	31.00	0.00	-999.00	-999.00	30.10	0.00	97.40	97.60	111.40	0.00	98.10	98.20	97.40	0.00	97.70
19	30.90	0.00	-999.00	-999.00	35.70	0.00	97.40	97.30	114.90	0.00	97.90	98.00	97.40	0.00	97.60
20	30.90	0.00	-999.00	-999.00	36.80	0.00	97.50	97.20	115.50	0.00	97.80	98.00	97.30	0.00	97.60
21	30.90	0.00	-999.00	-999.00	36.00	0.00	97.40	97.10	115.40	0.00	97.80	98.00	97.30	0.00	97.60
22	31.50	0.00	-999.00	-999.00	36.10	0.00	97.50	97.20	114.30	0.00	97.70	98.00	97.30	0.00	97.60
23	30.40	0.00	-999.00	-999.00	35.80	0.00	97.40	97.20	84.30	0.00	97.70	98.00	97.20	0.00	97.50
24	16.70	0.00	-999.00	-999.00	23.00	0.00	97.50	97.30	74.40	0.00	97.70	98.20	97.30	0.00	97.50

24 JAN 2003

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

24 JAN 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	LOWER GRANITE	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.		
1	1.50	0.00	103.50	-999.00	-999.00	-999.00	0.00	0.00	100.00	100.20	12.20	0.00	-999.00	-999.00	
2	1.50	0.00	103.60	-999.00	-999.00	-999.00	0.00	0.00	100.10	100.10	0.00	0.00	-999.00	-999.00	
3	1.50	0.00	103.70	-999.00	-999.00	-999.00	0.00	0.00	100.10	100.00	0.00	0.00	-999.00	-999.00	
4	1.50	0.00	103.70	-999.00	-999.00	-999.00	0.30	0.00	100.10	100.00	0.00	0.00	-999.00	-999.00	
5	1.50	0.00	103.70	-999.00	-999.00	-999.00	16.20	0.00	100.10	100.20	0.00	0.00	-999.00	-999.00	
6	1.50	0.00	103.50	-999.00	-999.00	-999.00	17.30	0.00	100.20	100.20	0.90	0.00	-999.00	-999.00	
7	1.50	0.00	103.50	-999.00	-999.00	-999.00	32.20	0.00	100.10	100.20	32.10	0.00	-999.00	-999.00	
8	1.50	0.00	103.50	-999.00	-999.00	-999.00	32.60	0.00	100.10	100.00	33.50	0.00	-999.00	-999.00	
9	1.50	0.00	103.60	-999.00	-999.00	-999.00	32.40	0.00	100.10	99.90	33.90	0.00	-999.00	-999.00	
10	1.50	0.00	103.60	-999.00	-999.00	-999.00	32.80	0.00	100.10	99.80	33.00	0.00	-999.00	-999.00	
11	1.50	0.00	103.70	-999.00	-999.00	-999.00	32.80	0.00	100.30	100.10	32.60	0.00	-999.00	-999.00	
12	1.50	0.00	104.30	-999.00	-999.00	-999.00	33.20	0.00	100.40	100.10	32.70	0.00	-999.00	-999.00	
13	1.50	0.00	104.40	-999.00	-999.00	-999.00	32.80	0.00	100.40	100.20	36.20	0.00	-999.00	-999.00	
14	1.50	0.00	104.60	-999.00	-999.00	-999.00	32.80	0.00	100.50	100.30	35.80	0.00	-999.00	-999.00	
15	1.50	0.00	104.50	-999.00	-999.00	-999.00	32.70	0.00	100.50	100.50	35.70	0.00	-999.00	-999.00	
16	1.50	0.00	104.30	-999.00	-999.00	-999.00	32.90	0.00	100.40	103.10	35.80	0.00	-999.00	-999.00	
17	1.50	0.00	104.10	-999.00	-999.00	-999.00	32.30	0.00	100.30	101.00	35.80	0.00	-999.00	-999.00	
18	1.50	0.00	103.90	-999.00	-999.00	-999.00	30.00	0.00	100.30	100.50	36.40	0.00	-999.00	-999.00	
19	1.50	0.00	103.80	-999.00	-999.00	-999.00	30.20	0.00	100.40	100.40	35.80	0.00	-999.00	-999.00	
20	1.50	0.00	103.80	-999.00	-999.00	-999.00	30.40	0.00	100.50	100.40	35.80	0.00	-999.00	-999.00	
21	1.50	0.00	103.80	-999.00	-999.00	-999.00	32.20	0.00	100.40	100.60	35.80	0.00	-999.00	-999.00	
22	1.50	0.00	103.80	-999.00	-999.00	-999.00	30.10	0.00	100.50	100.40	36.60	0.00	-999.00	-999.00	
23	1.50	0.00	103.80	-999.00	-999.00	-999.00	17.00	0.00	100.50	100.50	34.40	0.00	-999.00	-999.00	
24	1.50	0.00	103.80	-999.00	-999.00	-999.00	0.10	0.00	100.40	100.30	18.70	0.00	-999.00	-999.00	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB	MCNARY	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	PASCO	
1	13.00	0.00	-999.00	-999.00	22.10	0.00	97.50	97.30	0.00	97.80	98.30	97.40	0.00	97.60	
2	0.10	0.00	-999.00	-999.00	11.00	0.00	97.50	97.30	0.00	97.80	98.30	97.40	0.00	97.50	
3	0.10	0.00	-999.00	-999.00	10.50	0.00	97.50	97.30	0.00	97.70	98.30	97.40	0.00	97.40	
4	0.10	0.00	-999.00	-999.00	10.50	0.00	97.50	97.20	0.00	97.70	98.20	97.40	0.00	97.20	
5	0.30	0.00	-999.00	-999.00	10.50	0.00	97.40	97.20	0.00	97.70	98.20	97.40	0.00	97.20	
6	16.50	0.00	-999.00	-999.00	11.20	0.00	97.40	97.20	0.00	97.70	98.20	97.30	0.00	97.20	
7	32.20	0.00	-999.00	-999.00	26.10	0.00	97.50	97.30	0.00	97.80	98.20	97.40	0.00	97.10	
8	32.90	0.00	-999.00	-999.00	26.60	0.00	97.50	97.30	0.00	97.90	98.20	97.40	0.00	97.10	
9	33.30	0.00	-999.00	-999.00	28.50	0.00	97.50	97.70	0.00	97.90	98.30	97.40	0.00	97.10	
10	37.70	0.00	-999.00	-999.00	32.80	0.00	97.50	97.40	0.00	98.00	98.40	97.50	0.00	97.20	
11	36.80	0.00	-999.00	-999.00	33.00	0.00	97.80	97.60	0.00	98.00	98.40	97.50	0.00	97.20	
12	36.90	0.00	-999.00	-999.00	33.60	0.00	98.00	97.60	0.00	98.20	98.60	97.60	0.00	97.40	
13	39.80	0.00	-999.00	-999.00	36.90	0.00	98.20	97.70	0.00	98.70	98.60	97.80	0.00	97.40	
14	40.00	0.00	-999.00	-999.00	37.10	0.00	98.50	97.80	0.00	99.20	98.70	97.90	0.00	97.70	
15	39.90	0.00	-999.00	-999.00	37.10	0.00	98.60	97.70	0.00	99.10	98.80	97.90	0.00	97.80	
16	40.60	0.00	-999.00	-999.00	37.00	0.00	98.50	97.60	0.00	98.70	98.70	97.90	0.00	97.80	
17	39.90	0.00	-999.00	-999.00	37.70	0.00	98.10	97.60	0.00	98.60	98.70	97.70	0.00	97.90	
18	39.50	0.00	-999.00	-999.00	36.80	0.00	98.00	97.50	0.00	98.30	98.70	97.80	0.00	97.90	
19	34.40	0.00	-999.00	-999.00	30.90	0.00	97.90	97.40	0.00	98.20	98.70	97.70	0.00	97.90	
20	34.20	0.00	-999.00	-999.00	30.50	0.00	97.80	97.40	0.00	98.40	98.70	97.80	0.00	97.80	
21	34.00	0.00	-999.00	-999.00	30.50	0.00	97.80	97.40	0.00	98.20	98.30	97.70	0.00	97.80	
22	34.40	0.00	-999.00	-999.00	31.00	0.00	97.70	97.20	0.00	98.30	98.70	97.70	0.00	97.80	
23	33.30	0.00	-999.00	-999.00	30.20	0.00	97.70	97.20	0.00	98.30	98.60	97.70	0.00	97.60	
24	17.00	0.00	-999.00	-999.00	14.10	0.00	97.50	97.20	0.00	98.00	98.60	97.60	0.00	97.60	

25 JAN 2003

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

25 JAN 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	LOWER GRANITE	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.		
1	1.50	0.00	103.60	-999.00	-999.00	-999.00	0.10	0.00	100.40	100.40	1.50	0.00	-999.00	-999.00	
2	1.50	0.00	103.70	-999.00	-999.00	-999.00	0.10	0.00	100.30	100.30	1.50	0.00	-999.00	-999.00	
3	1.50	0.00	103.70	-999.00	-999.00	-999.00	0.10	0.00	100.30	100.50	0.00	0.00	-999.00	-999.00	
4	1.50	0.00	103.60	-999.00	-999.00	-999.00	0.10	0.00	100.30	100.40	0.00	0.00	-999.00	-999.00	
5	1.50	0.00	103.70	-999.00	-999.00	-999.00	1.20	0.00	100.30	100.50	0.00	0.00	-999.00	-999.00	
6	1.50	0.00	103.60	-999.00	-999.00	-999.00	15.70	0.00	100.30	100.40	0.00	0.00	-999.00	-999.00	
7	1.50	0.00	103.60	-999.00	-999.00	-999.00	17.40	0.00	100.20	100.30	12.60	0.00	-999.00	-999.00	
8	1.50	0.00	103.50	-999.00	-999.00	-999.00	30.10	0.00	100.20	100.40	30.00	0.00	-999.00	-999.00	
9	1.50	0.00	103.80	-999.00	-999.00	-999.00	31.20	0.00	100.10	100.00	30.70	0.00	-999.00	-999.00	
10	1.50	0.00	104.00	-999.00	-999.00	-999.00	30.50	0.00	100.30	100.00	30.60	0.00	-999.00	-999.00	
11	1.50	0.00	104.30	-999.00	-999.00	-999.00	33.50	0.00	100.30	100.20	33.80	0.00	-999.00	-999.00	
12	1.50	0.00	104.50	-999.00	-999.00	-999.00	34.00	0.00	100.30	100.10	33.60	0.00	-999.00	-999.00	
13	1.50	0.00	104.60	-999.00	-999.00	-999.00	33.90	0.00	100.50	100.30	33.70	0.00	-999.00	-999.00	
14	1.50	0.00	104.60	-999.00	-999.00	-999.00	37.10	0.00	100.50	100.30	35.90	0.00	-999.00	-999.00	
15	1.50	0.00	104.40	-999.00	-999.00	-999.00	36.60	0.00	100.50	100.30	36.20	0.00	-999.00	-999.00	
16	1.50	0.00	104.30	-999.00	-999.00	-999.00	36.50	0.00	100.40	100.30	36.70	0.00	-999.00	-999.00	
17	1.50	0.00	104.00	-999.00	-999.00	-999.00	36.70	0.00	100.40	100.30	36.10	0.00	-999.00	-999.00	
18	1.50	0.00	103.90	-999.00	-999.00	-999.00	36.70	0.00	100.50	100.40	36.10	0.00	-999.00	-999.00	
19	1.50	0.00	103.80	-999.00	-999.00	-999.00	37.40	0.00	100.60	100.40	36.00	0.00	-999.00	-999.00	
20	1.50	0.00	103.80	-999.00	-999.00	-999.00	36.90	0.00	100.50	100.40	36.70	0.00	-999.00	-999.00	
21	1.50	0.00	103.80	-999.00	-999.00	-999.00	35.60	0.00	100.70	100.40	36.00	0.00	-999.00	-999.00	
22	1.50	0.00	103.80	-999.00	-999.00	-999.00	19.00	0.00	100.80	100.50	31.80	0.00	-999.00	-999.00	
23	1.50	0.00	103.90	-999.00	-999.00	-999.00	0.00	0.00	100.80	100.60	18.00	0.00	-999.00	-999.00	
24	1.50	0.00	103.90	-999.00	-999.00	-999.00	0.00	0.00	100.80	100.70	0.10	0.00	-999.00	-999.00	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB	WA TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB	GAS %SAT	
1	0.20	0.00	-999.00	-999.00	9.20	0.00	97.30	97.10	66.70	0.00	98.00	98.60	97.60	97.50	
2	0.20	0.00	-999.00	-999.00	8.90	0.00	97.30	97.00	65.80	0.00	97.90	98.60	97.70	97.40	
3	0.20	0.00	-999.00	-999.00	8.90	0.00	97.30	97.00	57.00	0.00	97.90	98.60	97.70	97.40	
4	0.20	0.00	-999.00	-999.00	9.00	0.00	97.30	96.90	73.30	0.00	97.90	98.60	97.70	97.40	
5	1.70	0.00	-999.00	-999.00	8.90	0.00	97.20	96.90	91.40	0.00	97.90	98.70	97.70	97.30	
6	0.20	0.00	-999.00	-999.00	8.90	0.00	97.30	97.00	92.20	0.00	97.80	98.60	97.70	97.30	
7	16.30	0.00	-999.00	-999.00	10.10	0.00	97.20	97.10	98.80	0.00	97.80	98.60	97.60	97.40	
8	29.10	0.00	-999.00	-999.00	22.90	0.00	97.20	97.20	111.50	0.00	97.70	98.60	97.40	97.40	
9	29.90	0.00	-999.00	-999.00	25.50	0.00	97.20	97.20	111.30	0.00	97.70	98.40	97.40	97.30	
10	30.40	0.00	-999.00	-999.00	28.30	0.00	97.30	97.30	110.40	0.00	97.80	98.40	97.40	97.30	
11	36.30	0.00	-999.00	-999.00	33.20	0.00	97.30	97.80	110.50	0.00	97.90	98.60	97.50	97.30	
12	36.80	0.00	-999.00	-999.00	31.80	0.00	97.40	97.50	102.10	0.00	98.10	98.70	97.60	97.50	
13	36.80	0.00	-999.00	-999.00	31.80	0.00	97.40	98.10	102.20	0.00	98.10	98.70	97.70	97.60	
14	38.70	0.00	-999.00	-999.00	33.10	0.00	97.40	97.60	102.80	0.00	98.20	98.70	97.70	97.70	
15	38.80	0.00	-999.00	-999.00	33.70	0.00	97.40	97.40	102.70	0.00	98.10	98.60	97.70	97.70	
16	39.50	0.00	-999.00	-999.00	33.00	0.00	97.30	97.30	102.40	0.00	98.10	98.70	97.70	97.90	
17	38.70	0.00	-999.00	-999.00	32.90	0.00	97.40	97.20	103.20	0.00	98.00	98.80	97.70	98.10	
18	38.50	0.00	-999.00	-999.00	32.90	0.00	97.30	97.20	104.60	0.00	98.10	98.80	97.70	98.00	
19	38.50	0.00	-999.00	-999.00	32.80	0.00	97.60	97.20	106.00	0.00	98.10	98.80	97.60	98.10	
20	38.40	0.00	-999.00	-999.00	33.30	0.00	97.40	97.20	107.20	0.00	98.10	98.90	97.60	98.30	
21	38.40	0.00	-999.00	-999.00	32.70	0.00	97.50	97.20	93.20	0.00	98.10	99.10	97.80	98.20	
22	32.40	0.00	-999.00	-999.00	32.40	0.00	97.50	97.30	92.10	0.00	98.30	99.30	97.90	98.20	
23	17.90	0.00	-999.00	-999.00	26.30	0.00	97.60	97.30	86.40	0.00	98.30	99.20	98.00	98.30	
24	0.40	0.00	-999.00	-999.00	19.90	0.00	97.60	97.40	85.80	0.00	98.40	99.20	98.00	98.40	

26 JAN 2003

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

26 JAN 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	LOWER GRANITE	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.		
1	1.50	0.00	103.80	-999.00	-999.00	-999.00	0.00	0.00	100.90	100.80	0.00	0.00	-999.00	-999.00	
2	1.50	0.00	103.90	-999.00	-999.00	-999.00	0.00	0.00	101.00	100.80	0.00	0.00	-999.00	-999.00	
3	1.50	0.00	103.90	-999.00	-999.00	-999.00	0.00	0.00	101.00	0.00	0.00	0.00	-999.00	-999.00	
4	1.50	0.00	103.90	-999.00	-999.00	-999.00	0.00	0.00	101.10	101.10	0.00	0.00	-999.00	-999.00	
5	1.50	0.00	103.90	-999.00	-999.00	-999.00	1.50	0.00	101.10	101.10	0.00	0.00	-999.00	-999.00	
6	1.50	0.00	104.00	-999.00	-999.00	-999.00	15.50	0.00	101.30	101.10	0.60	0.00	-999.00	-999.00	
7	1.50	0.00	104.00	-999.00	-999.00	-999.00	16.20	0.00	101.30	101.60	13.30	0.00	-999.00	-999.00	
8	1.50	0.00	104.00	-999.00	-999.00	-999.00	20.10	0.00	101.40	101.30	13.60	0.00	-999.00	-999.00	
9	1.50	0.00	104.10	-999.00	-999.00	-999.00	20.50	0.00	101.40	101.30	20.70	0.00	-999.00	-999.00	
10	1.50	0.00	104.40	-999.00	-999.00	-999.00	31.20	0.00	101.60	101.40	20.80	0.00	-999.00	-999.00	
11	1.50	0.00	104.60	-999.00	-999.00	-999.00	31.10	0.00	101.60	101.40	24.40	0.00	-999.00	-999.00	
12	1.50	0.00	104.70	-999.00	-999.00	-999.00	31.10	0.00	101.80	101.50	31.60	0.00	-999.00	-999.00	
13	1.50	0.00	104.90	-999.00	-999.00	-999.00	31.10	0.00	101.80	101.50	32.00	0.00	-999.00	-999.00	
14	1.50	0.00	104.90	-999.00	-999.00	-999.00	31.20	0.00	101.80	101.50	32.40	0.00	-999.00	-999.00	
15	1.50	0.00	104.80	-999.00	-999.00	-999.00	31.20	0.00	101.80	101.60	31.80	0.00	-999.00	-999.00	
16	1.50	0.00	104.50	-999.00	-999.00	-999.00	31.70	0.00	101.80	101.60	31.60	0.00	-999.00	-999.00	
17	1.50	0.00	104.50	-999.00	-999.00	-999.00	31.30	0.00	101.80	101.40	31.70	0.00	-999.00	-999.00	
18	1.50	0.00	104.30	-999.00	-999.00	-999.00	31.30	0.00	101.70	101.40	32.40	0.00	-999.00	-999.00	
19	1.50	0.00	104.30	-999.00	-999.00	-999.00	31.30	0.00	101.70	101.40	31.70	0.00	-999.00	-999.00	
20	1.50	0.00	104.30	-999.00	-999.00	-999.00	31.40	0.00	101.50	101.40	31.70	0.00	-999.00	-999.00	
21	1.50	0.00	104.40	-999.00	-999.00	-999.00	31.70	0.00	101.60	101.30	31.70	0.00	-999.00	-999.00	
22	1.50	0.00	104.40	-999.00	-999.00	-999.00	21.40	0.00	101.60	101.50	31.50	0.00	-999.00	-999.00	
23	1.50	0.00	104.50	-999.00	-999.00	-999.00	13.10	0.00	101.60	101.30	15.20	0.00	-999.00	-999.00	
24	1.50	0.00	104.50	-999.00	-999.00	-999.00	0.10	0.00	101.50	101.30	14.20	0.00	-999.00	-999.00	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB	WA TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB	GAS %SAT	
1	0.20	0.00	-999.00	-999.00	9.80	0.00	97.70	97.50	85.60	0.00	98.60	99.30	98.10	98.40	
2	0.20	0.00	-999.00	-999.00	9.00	0.00	97.80	97.60	82.50	0.00	98.60	99.30	98.10	98.50	
3	0.20	0.00	-999.00	-999.00	8.90	0.00	97.80	97.60	89.50	0.00	98.60	99.20	98.10	98.60	
4	0.20	0.00	-999.00	-999.00	8.90	0.00	97.90	97.70	81.70	0.00	98.60	99.20	98.00	98.60	
5	0.20	0.00	-999.00	-999.00	8.90	0.00	97.90	97.70	81.50	0.00	98.70	99.30	98.20	98.70	
6	0.40	0.00	-999.00	-999.00	8.90	0.00	98.10	97.80	78.70	0.00	98.80	99.50	98.30	98.70	
7	13.80	0.00	-999.00	-999.00	9.00	0.00	98.10	98.00	79.50	0.00	98.90	99.50	98.40	98.90	
8	14.00	0.00	-999.00	-999.00	8.90	0.00	98.10	98.10	81.60	0.00	99.00	99.60	98.40	98.90	
9	13.60	0.00	-999.00	-999.00	8.90	0.00	98.10	98.20	81.20	0.00	98.90	99.50	98.40	98.70	
10	13.60	0.00	-999.00	-999.00	8.90	0.00	98.10	98.20	94.50	0.00	99.00	99.50	98.40	98.70	
11	14.50	0.00	-999.00	-999.00	8.90	0.00	98.10	98.40	93.00	0.00	99.10	99.50	98.40	98.80	
12	26.60	0.00	-999.00	-999.00	9.30	0.00	98.20	98.40	83.20	0.00	99.10	99.50	98.40	98.90	
13	31.00	0.00	-999.00	-999.00	18.90	0.00	98.30	98.60	82.70	0.00	99.20	99.50	98.50	99.10	
14	31.20	0.00	-999.00	-999.00	19.30	0.00	98.30	98.60	92.20	0.00	99.30	99.70	98.60	99.10	
15	31.40	0.00	-999.00	-999.00	19.30	0.00	98.30	98.70	91.30	0.00	99.30	99.50	98.70	99.20	
16	31.80	0.00	-999.00	-999.00	19.90	0.00	98.20	99.00	89.60	0.00	99.30	99.50	98.70	99.30	
17	31.40	0.00	-999.00	-999.00	32.30	0.00	98.10	98.40	102.40	0.00	99.40	99.30	98.70	99.40	
18	31.40	0.00	-999.00	-999.00	30.60	0.00	98.10	98.20	104.20	0.00	99.20	99.30	98.60	99.40	
19	31.20	0.00	-999.00	-999.00	30.60	0.00	98.20	98.60	100.40	0.00	99.20	99.30	98.50	99.50	
20	31.40	0.00	-999.00	-999.00	30.40	0.00	98.10	98.00	102.70	0.00	99.20	99.20	98.40	99.60	
21	31.30	0.00	-999.00	-999.00	30.30	0.00	98.20	97.90	101.10	0.00	99.10	99.20	98.40	99.70	
22	32.30	0.00	-999.00	-999.00	30.00	0.00	98.20	97.90	89.20	0.00	99.20	99.10	98.40	99.70	
23	14.70	0.00	-999.00	-999.00	18.70	0.00	98.20	97.80	85.60	0.00	99.20	99.20	98.50	99.70	
24	13.70	0.00	-999.00	-999.00	17.70	0.00	98.20	97.70	88.00	0.00	99.20	99.10	98.50	99.70	

27 JAN 2003

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

27 JAN 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. TAI LW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAI LW.	LOWER GRANITE	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAI LW.		
1	1.50	0.00	104.40	-999.00	-999.00	-999.00	0.10	0.00	101.50	101.40	0.00	0.00	-999.00	-999.00	
2	1.50	0.00	104.20	-999.00	-999.00	-999.00	0.10	0.00	101.50	101.20	0.00	0.00	-999.00	-999.00	
3	1.50	0.00	104.20	-999.00	-999.00	-999.00	0.10	0.00	101.40	101.30	0.00	0.00	-999.00	-999.00	
4	1.50	0.00	104.20	-999.00	-999.00	-999.00	0.10	0.00	101.40	101.30	0.00	0.00	-999.00	-999.00	
5	1.60	0.00	104.30	-999.00	-999.00	-999.00	1.40	0.00	101.40	101.20	0.20	0.00	-999.00	-999.00	
6	1.60	0.00	104.40	-999.00	-999.00	-999.00	13.30	0.00	101.40	101.20	13.70	0.00	-999.00	-999.00	
7	1.50	0.00	103.10	-999.00	-999.00	-999.00	25.00	0.00	101.30	101.60	14.40	0.00	-999.00	-999.00	
8	1.50	0.00	102.70	-999.00	-999.00	-999.00	29.90	0.00	101.30	101.20	21.40	0.00	-999.00	-999.00	
9	1.50	0.00	103.10	-999.00	-999.00	-999.00	30.70	0.00	101.20	101.10	21.60	0.00	-999.00	-999.00	
10	1.50	0.00	103.50	-999.00	-999.00	-999.00	30.30	0.00	101.30	102.10	25.50	0.00	-999.00	-999.00	
11	1.50	0.00	103.70	-999.00	-999.00	-999.00	32.10	0.00	101.30	101.60	28.00	0.00	-999.00	-999.00	
12	1.50	0.00	103.90	-999.00	-999.00	-999.00	33.30	0.00	101.40	101.40	27.70	0.00	-999.00	-999.00	
13	1.50	0.00	104.10	-999.00	-999.00	-999.00	33.00	0.00	102.00	101.40	29.30	0.00	-999.00	-999.00	
14	1.50	0.00	104.10	-999.00	-999.00	-999.00	31.50	0.00	102.00	101.50	28.70	0.00	-999.00	-999.00	
15	1.50	0.00	104.10	-999.00	-999.00	-999.00	27.70	0.00	102.10	101.40	29.00	0.00	-999.00	-999.00	
16	1.50	0.00	104.00	-999.00	-999.00	-999.00	27.80	0.00	101.80	101.40	29.60	0.00	-999.00	-999.00	
17	1.50	0.00	103.50	-999.00	-999.00	-999.00	41.80	0.00	101.60	101.40	33.20	0.00	-999.00	-999.00	
18	1.50	0.00	103.30	-999.00	-999.00	-999.00	41.60	0.00	101.60	101.90	41.10	0.00	-999.00	-999.00	
19	1.50	0.00	103.10	-999.00	-999.00	-999.00	43.00	0.00	101.50	101.30	47.70	0.00	-999.00	-999.00	
20	1.50	0.00	103.00	-999.00	-999.00	-999.00	43.00	0.00	101.50	101.30	53.20	0.00	-999.00	-999.00	
21	1.50	0.00	103.00	-999.00	-999.00	-999.00	42.20	0.00	101.40	101.20	52.20	0.00	-999.00	-999.00	
22	1.50	0.00	102.90	-999.00	-999.00	-999.00	42.20	0.00	101.30	101.60	52.10	0.00	-999.00	-999.00	
23	1.50	0.00	103.00	-999.00	-999.00	-999.00	42.70	0.00	101.30	101.10	52.20	0.00	-999.00	-999.00	
24	1.50	0.00	102.80	-999.00	-999.00	-999.00	42.60	0.00	101.20	101.10	51.70	0.00	-999.00	-999.00	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAI LW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAI LW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB	WA TAI LW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB	GAS % SAT	
1	13.30	0.00	-999.00	-999.00	10.90	0.00	98.10	97.60	0.00	99.10	99.10	98.40	0.00	99.70	
2	0.20	0.00	-999.00	-999.00	9.10	0.00	98.10	97.60	0.00	99.10	98.90	98.40	0.00	99.60	
3	0.20	0.00	-999.00	-999.00	9.00	0.00	98.10	97.60	0.00	99.10	98.90	98.40	0.00	99.60	
4	0.20	0.00	-999.00	-999.00	9.30	0.00	98.10	97.60	0.00	99.10	98.90	98.40	0.00	99.50	
5	0.20	0.00	-999.00	-999.00	10.70	0.00	98.10	97.60	0.00	99.00	98.90	98.40	0.00	99.50	
6	13.70	0.00	-999.00	-999.00	9.30	0.00	98.10	97.60	0.00	99.00	98.90	98.40	0.00	99.50	
7	13.80	0.00	-999.00	-999.00	9.10	0.00	98.10	97.70	0.00	98.90	98.90	98.30	0.00	99.40	
8	19.70	0.00	-999.00	-999.00	9.10	0.00	98.10	97.70	0.00	98.90	98.90	98.30	0.00	99.40	
9	21.20	0.00	-999.00	-999.00	13.10	0.00	98.00	97.70	0.00	98.90	98.90	98.30	0.00	99.30	
10	31.70	0.00	-999.00	-999.00	20.00	0.00	98.00	98.50	0.00	98.90	98.90	98.30	0.00	99.40	
11	31.00	0.00	-999.00	-999.00	20.40	0.00	98.10	98.20	0.00	99.10	99.10	98.40	0.00	99.30	
12	31.40	0.00	-999.00	-999.00	20.20	0.00	98.10	98.40	0.00	99.20	99.20	98.50	0.00	99.50	
13	30.90	0.00	-999.00	-999.00	23.90	0.00	98.10	98.40	0.00	99.30	99.30	98.50	0.00	100.20	
14	29.20	0.00	-999.00	-999.00	21.10	0.00	98.30	98.40	0.00	99.40	99.30	98.60	0.00	100.20	
15	29.20	0.00	-999.00	-999.00	21.10	0.00	98.30	98.40	0.00	99.40	99.30	98.70	0.00	100.10	
16	29.20	0.00	-999.00	-999.00	21.60	0.00	98.30	98.20	0.00	99.30	99.30	99.10	0.00	100.10	
17	30.40	0.00	-999.00	-999.00	24.00	0.00	98.20	98.10	0.00	99.40	99.20	98.70	0.00	100.40	
18	40.90	0.00	-999.00	-999.00	29.50	0.00	98.20	98.00	0.00	99.20	99.10	98.70	0.00	100.40	
19	49.40	0.00	-999.00	-999.00	48.00	0.00	98.10	97.70	0.00	99.20	99.10	98.60	0.00	100.30	
20	53.60	0.00	-999.00	-999.00	53.20	0.00	98.00	97.70	0.00	99.20	98.90	98.60	0.00	100.20	
21	53.30	0.00	-999.00	-999.00	53.30	0.00	98.10	97.80	0.00	99.10	98.90	98.50	0.00	100.20	
22	53.10	0.00	-999.00	-999.00	54.00	0.00	98.10	97.80	0.00	99.10	98.90	98.50	0.00	100.20	
23	52.90	0.00	-999.00	-999.00	53.00	0.00	98.10	97.70	0.00	99.20	98.70	98.50	0.00	100.00	
24	51.80	0.00	-999.00	-999.00	52.90	0.00	98.00	97.70	0.00	99.10	98.80	98.40	0.00	100.00	

28 JAN 2003

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

28 JAN 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.			
1	1.50	0.00	102.70	-999.00	-999.00	-999.00	42.70	0.00	101.00	100.90	49.70	0.00	-999.00	-999.00	
2	1.50	0.00	102.60	-999.00	-999.00	-999.00	43.60	0.00	101.00	100.90	46.60	0.00	-999.00	-999.00	
3	1.50	0.00	102.70	-999.00	-999.00	-999.00	42.50	0.00	101.00	100.80	42.70	0.00	-999.00	-999.00	
4	1.50	0.00	102.60	-999.00	-999.00	-999.00	42.70	0.00	100.90	100.80	42.30	0.00	-999.00	-999.00	
5	1.50	0.00	102.70	-999.00	-999.00	-999.00	42.40	0.00	100.90	100.80	44.20	0.00	-999.00	-999.00	
6	1.50	0.00	102.70	-999.00	-999.00	-999.00	42.20	0.00	101.00	100.60	43.90	0.00	-999.00	-999.00	
7	1.50	0.00	102.50	-999.00	-999.00	-999.00	41.80	0.00	100.90	100.70	44.20	0.00	-999.00	-999.00	
8	1.50	0.00	102.40	-999.00	-999.00	-999.00	39.30	0.00	100.70	100.50	44.10	0.00	-999.00	-999.00	
9	1.50	0.00	102.60	-999.00	-999.00	-999.00	38.60	0.00	100.70	100.50	45.20	0.00	-999.00	-999.00	
10	1.50	0.00	102.90	-999.00	-999.00	-999.00	38.40	0.00	100.80	100.50	48.50	0.00	-999.00	-999.00	
11	1.50	0.00	103.30	-999.00	-999.00	-999.00	38.20	0.00	100.70	100.50	49.10	0.00	-999.00	-999.00	
12	1.50	0.00	103.50	-999.00	-999.00	-999.00	38.80	0.00	100.90	101.00	48.90	0.00	-999.00	-999.00	
13	1.50	0.00	103.70	-999.00	-999.00	-999.00	38.50	0.00	100.90	101.10	49.00	0.00	-999.00	-999.00	
14	1.50	0.00	103.90	-999.00	-999.00	-999.00	38.80	0.00	100.90	100.90	49.70	0.00	-999.00	-999.00	
15	1.50	0.00	103.80	-999.00	-999.00	-999.00	38.80	0.00	100.80	100.80	49.00	0.00	-999.00	-999.00	
16	1.50	0.00	103.50	-999.00	-999.00	-999.00	36.10	0.00	100.90	100.90	49.50	0.00	-999.00	-999.00	
17	1.50	0.00	103.10	-999.00	-999.00	-999.00	52.30	0.00	100.70	100.60	57.50	0.00	-999.00	-999.00	
18	1.50	0.00	102.80	-999.00	-999.00	-999.00	53.30	0.00	100.70	100.60	58.70	0.00	-999.00	-999.00	
19	1.50	0.00	102.60	-999.00	-999.00	-999.00	53.00	0.00	100.60	100.50	57.90	0.00	-999.00	-999.00	
20	1.50	0.00	102.60	-999.00	-999.00	-999.00	53.40	0.00	100.50	100.40	58.20	0.00	-999.00	-999.00	
21	1.50	0.00	102.60	-999.00	-999.00	-999.00	55.40	0.00	100.40	100.50	59.40	0.00	-999.00	-999.00	
22	1.50	0.00	102.60	-999.00	-999.00	-999.00	39.80	0.00	100.40	100.30	50.30	0.00	-999.00	-999.00	
23	1.50	0.00	102.60	-999.00	-999.00	-999.00	39.30	0.00	100.40	100.30	40.30	0.00	-999.00	-999.00	
24	1.50	0.00	102.70	-999.00	-999.00	-999.00	39.60	0.00	100.50	100.30	35.80	0.00	-999.00	-999.00	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.			
1	51.90	0.00	-999.00	-999.00	51.80	0.00	98.00	97.70	105.40	0.00	99.10	98.70	98.50	0.00	99.80
2	48.40	0.00	-999.00	-999.00	49.90	0.00	98.00	97.60	103.80	0.00	99.00	98.70	98.40	0.00	99.60
3	44.70	0.00	-999.00	-999.00	48.30	0.00	98.10	97.60	105.90	0.00	98.90	98.70	98.30	0.00	99.50
4	44.30	0.00	-999.00	-999.00	45.50	0.00	98.00	97.50	114.10	0.00	98.90	98.70	98.30	0.00	99.40
5	46.00	0.00	-999.00	-999.00	47.40	0.00	98.10	97.70	123.90	0.00	98.80	98.70	98.30	0.00	99.30
6	49.60	0.00	-999.00	-999.00	48.20	0.00	98.00	97.70	136.30	0.00	98.90	98.60	98.40	0.00	99.20
7	48.20	0.00	-999.00	-999.00	48.00	0.00	97.90	97.60	149.10	0.00	98.80	98.60	98.40	0.00	98.90
8	47.50	0.00	-999.00	-999.00	48.00	0.00	98.10	97.60	143.80	0.00	98.90	98.60	98.30	0.00	98.80
9	47.40	0.00	-999.00	-999.00	50.40	0.00	98.10	97.80	143.70	0.00	98.90	98.40	98.60	0.00	98.60
10	49.20	0.00	-999.00	-999.00	49.40	0.00	98.20	0.00	143.00	0.00	99.00	98.60	98.60	0.00	98.40
11	49.10	0.00	-999.00	-999.00	49.50	0.00	98.20	98.60	142.70	0.00	99.10	98.70	98.70	0.00	98.30
12	50.70	0.00	-999.00	-999.00	49.40	0.00	98.50	98.30	143.80	0.00	99.40	98.80	98.80	0.00	98.40
13	50.00	0.00	-999.00	-999.00	49.40	0.00	98.40	98.20	142.40	0.00	99.40	98.80	98.80	0.00	98.30
14	49.60	0.00	-999.00	-999.00	50.30	0.00	98.30	98.30	143.20	0.00	99.50	98.90	98.90	0.00	98.30
15	49.60	0.00	-999.00	-999.00	49.40	0.00	98.20	98.30	143.90	0.00	99.40	98.90	98.90	0.00	98.30
16	51.30	0.00	-999.00	-999.00	49.90	0.00	98.20	98.20	146.70	0.00	99.70	99.10	98.80	0.00	98.40
17	57.50	0.00	-999.00	-999.00	57.70	0.00	98.10	98.10	144.60	0.00	99.40	98.90	98.70	0.00	98.50
18	58.00	0.00	-999.00	-999.00	57.70	0.00	98.30	98.20	144.00	0.00	99.20	98.90	98.80	0.00	98.50
19	58.80	0.00	-999.00	-999.00	59.00	0.00	98.30	98.30	140.30	0.00	99.20	98.70	99.20	0.00	98.60
20	57.90	0.00	-999.00	-999.00	59.60	0.00	98.20	98.10	140.20	0.00	99.20	98.80	98.90	0.00	98.60
21	57.30	0.00	-999.00	-999.00	58.30	0.00	98.20	98.40	140.40	0.00	99.20	98.30	98.60	0.00	98.50
22	50.10	0.00	-999.00	-999.00	44.90	0.00	98.40	98.00	119.80	0.00	99.10	1022.90	98.60	0.00	98.30
23	50.10	0.00	-999.00	-999.00	43.90	0.00	98.30	98.10	110.40	0.00	99.00	1423.90	98.60	0.00	98.20
24	40.90	0.00	-999.00	-999.00	34.90	0.00	98.40	98.00	108.30	0.00	99.10	255.40	98.60	0.00	98.30

29 JAN 2003

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

29 JAN 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	LOWER GRANITE	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.		
1	1.50	0.00	102.60	-999.00	-999.00	-999.00	39.40	0.00	100.40	100.30	35.30	0.00	-999.00	-999.00	
2	1.50	0.00	102.80	-999.00	-999.00	-999.00	39.90	0.00	100.30	100.30	36.00	0.00	-999.00	-999.00	
3	1.50	0.00	102.60	-999.00	-999.00	-999.00	39.30	0.00	100.40	100.30	35.30	0.00	-999.00	-999.00	
4	1.50	0.00	102.60	-999.00	-999.00	-999.00	39.20	0.00	100.40	100.30	35.30	0.00	-999.00	-999.00	
5	1.50	0.00	102.60	-999.00	-999.00	-999.00	39.60	0.00	100.40	100.10	35.60	0.00	-999.00	-999.00	
6	1.50	0.00	102.60	-999.00	-999.00	-999.00	49.40	0.00	100.30	100.00	45.10	0.00	-999.00	-999.00	
7	1.50	0.00	102.60	-999.00	-999.00	-999.00	50.80	0.00	100.20	100.10	51.90	0.00	-999.00	-999.00	
8	1.50	0.00	102.60	-999.00	-999.00	-999.00	49.80	0.00	100.20	100.10	51.40	0.00	-999.00	-999.00	
9	1.50	0.00	102.90	-999.00	-999.00	-999.00	48.00	0.00	100.40	100.20	51.60	0.00	-999.00	-999.00	
10	1.50	0.00	103.10	-999.00	-999.00	-999.00	47.80	0.00	100.40	100.10	51.40	0.00	-999.00	-999.00	
11	1.50	0.00	103.50	-999.00	-999.00	-999.00	45.90	0.00	100.60	100.30	52.40	0.00	-999.00	-999.00	
12	1.50	0.00	103.80	-999.00	-999.00	-999.00	46.60	0.00	100.60	100.60	51.30	0.00	-999.00	-999.00	
13	1.50	0.00	103.90	-999.00	-999.00	-999.00	45.90	0.00	100.60	100.30	51.40	0.00	-999.00	-999.00	
14	1.50	0.00	103.60	-999.00	-999.00	-999.00	45.90	0.00	100.50	100.30	51.50	0.00	-999.00	-999.00	
15	1.50	0.00	103.40	-999.00	-999.00	-999.00	45.80	0.00	100.50	100.30	51.60	0.00	-999.00	-999.00	
16	1.50	0.00	103.30	-999.00	-999.00	-999.00	40.70	0.00	100.50	100.30	52.40	0.00	-999.00	-999.00	
17	1.50	0.00	103.20	-999.00	-999.00	-999.00	40.50	0.00	100.70	100.50	51.50	0.00	-999.00	-999.00	
18	1.50	0.00	103.40	-999.00	-999.00	-999.00	46.50	0.00	100.80	100.50	51.60	0.00	-999.00	-999.00	
19	1.50	0.00	103.70	-999.00	-999.00	-999.00	45.90	0.00	100.80	100.50	51.50	0.00	-999.00	-999.00	
20	1.50	0.00	103.50	-999.00	-999.00	-999.00	45.90	0.00	100.80	100.60	52.20	0.00	-999.00	-999.00	
21	1.50	0.00	103.40	-999.00	-999.00	-999.00	45.90	0.00	100.80	100.50	51.30	0.00	-999.00	-999.00	
22	1.50	0.00	103.30	-999.00	-999.00	-999.00	46.10	0.00	101.00	100.60	51.00	0.00	-999.00	-999.00	
23	1.50	0.00	103.30	-999.00	-999.00	-999.00	47.10	0.00	101.00	100.70	42.20	0.00	-999.00	-999.00	
24	1.50	0.00	103.20	-999.00	-999.00	-999.00	46.20	0.00	101.00	100.70	37.90	0.00	-999.00	-999.00	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB	MCNARY	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	PASCO	
1	39.70	0.00	-999.00	-999.00	34.80	0.00	98.40	98.00	0.00	99.10	1527.50	98.70	0.00	98.20	
2	42.00	0.00	-999.00	-999.00	34.20	0.00	98.40	98.10	0.00	99.10	1152.30	98.60	0.00	98.00	
3	40.30	0.00	-999.00	-999.00	34.20	0.00	98.40	98.00	0.00	99.10	927.90	98.70	0.00	97.90	
4	40.40	0.00	-999.00	-999.00	34.40	0.00	98.30	98.10	0.00	99.10	614.10	98.70	0.00	97.70	
5	40.60	0.00	-999.00	-999.00	40.00	0.00	98.30	98.10	0.00	99.10	99.10	98.60	0.00	97.70	
6	41.70	0.00	-999.00	-999.00	42.20	0.00	98.40	98.10	0.00	99.20	99.10	98.70	0.00	97.70	
7	49.60	0.00	-999.00	-999.00	49.10	0.00	98.50	98.20	0.00	99.40	99.20	98.80	0.00	97.60	
8	50.00	0.00	-999.00	-999.00	49.90	0.00	98.40	98.90	0.00	99.20	99.10	98.70	0.00	97.50	
9	49.60	0.00	-999.00	-999.00	50.10	0.00	98.60	98.40	0.00	99.20	99.10	98.70	0.00	97.60	
10	49.30	0.00	-999.00	-999.00	50.10	0.00	98.60	98.40	0.00	99.20	99.20	98.70	0.00	97.60	
11	51.60	0.00	-999.00	-999.00	50.10	0.00	98.70	98.40	0.00	99.30	99.10	98.70	0.00	97.70	
12	49.80	0.00	-999.00	-999.00	51.10	0.00	98.70	98.50	0.00	99.30	99.20	98.70	0.00	97.70	
13	54.60	0.00	-999.00	-999.00	50.20	0.00	98.70	98.50	0.00	99.40	99.30	98.80	0.00	97.60	
14	54.80	0.00	-999.00	-999.00	50.00	0.00	98.90	98.70	0.00	99.70	99.40	98.90	0.00	97.80	
15	54.90	0.00	-999.00	-999.00	51.70	0.00	99.10	98.90	0.00	99.70	99.30	99.00	0.00	98.00	
16	57.90	0.00	-999.00	-999.00	54.80	0.00	99.20	98.90	0.00	99.70	99.40	99.10	0.00	98.00	
17	59.00	0.00	-999.00	-999.00	56.30	0.00	99.30	99.10	0.00	99.80	99.50	99.30	0.00	98.20	
18	57.80	0.00	-999.00	-999.00	55.20	0.00	99.30	99.00	0.00	99.70	99.40	99.20	0.00	98.10	
19	57.90	0.00	-999.00	-999.00	55.20	0.00	99.20	99.00	0.00	99.70	99.40	99.20	0.00	98.10	
20	57.30	0.00	-999.00	-999.00	55.20	0.00	99.30	99.00	0.00	99.70	99.40	99.20	0.00	98.30	
21	57.30	0.00	-999.00	-999.00	55.20	0.00	99.30	99.10	0.00	99.70	99.40	99.20	0.00	98.30	
22	58.30	0.00	-999.00	-999.00	55.30	0.00	99.30	99.00	0.00	99.70	99.40	99.30	0.00	98.30	
23	48.10	0.00	-999.00	-999.00	54.40	0.00	99.40	99.10	0.00	99.90	99.60	99.60	0.00	98.50	
24	40.90	0.00	-999.00	-999.00	41.20	0.00	99.40	99.20	0.00	99.90	99.60	99.70	0.00	98.60	

30 JAN 2003

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

30 JAN 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	LOWER GRANITE	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.		
1	1.50	0.00	103.20	-999.00	-999.00	-999.00	45.10	0.00	101.10	100.70	35.90	0.00	-999.00	-999.00	
2	1.50	0.00	103.30	-999.00	-999.00	-999.00	43.50	0.00	101.10	100.90	34.20	0.00	-999.00	-999.00	
3	1.50	0.00	103.30	-999.00	-999.00	-999.00	41.80	0.00	101.00	100.80	28.40	0.00	-999.00	-999.00	
4	1.50	0.00	103.20	-999.00	-999.00	-999.00	39.70	0.00	101.00	100.80	25.90	0.00	-999.00	-999.00	
5	1.50	0.00	103.10	-999.00	-999.00	-999.00	42.90	0.00	101.00	100.80	26.30	0.00	-999.00	-999.00	
6	1.50	0.00	103.10	-999.00	-999.00	-999.00	40.40	0.00	101.10	100.70	34.60	0.00	-999.00	-999.00	
7	1.50	0.00	103.10	-999.00	-999.00	-999.00	40.30	0.00	101.10	100.70	38.10	0.00	-999.00	-999.00	
8	1.50	0.00	103.10	-999.00	-999.00	-999.00	40.30	0.00	100.90	100.60	38.20	0.00	-999.00	-999.00	
9	1.50	0.00	103.30	-999.00	-999.00	-999.00	40.60	0.00	100.90	100.50	39.00	0.00	-999.00	-999.00	
10	1.50	0.00	103.60	-999.00	-999.00	-999.00	41.50	0.00	101.00	100.40	38.10	0.00	-999.00	-999.00	
11	1.50	0.00	103.80	-999.00	-999.00	-999.00	41.00	0.00	101.00	100.50	38.10	0.00	-999.00	-999.00	
12	1.50	0.00	103.90	-999.00	-999.00	-999.00	40.80	0.00	101.20	100.60	39.00	0.00	-999.00	-999.00	
13	1.50	0.00	103.90	-999.00	-999.00	-999.00	37.80	0.00	101.30	100.70	38.30	0.00	-999.00	-999.00	
14	1.50	0.00	103.90	-999.00	-999.00	-999.00	37.60	0.00	101.50	100.70	38.40	0.00	-999.00	-999.00	
15	1.50	0.00	104.10	-999.00	-999.00	-999.00	40.70	0.00	101.40	100.70	39.00	0.00	-999.00	-999.00	
16	1.50	0.00	104.00	-999.00	-999.00	-999.00	37.80	0.00	101.40	100.90	38.30	0.00	-999.00	-999.00	
17	1.50	0.00	103.80	-999.00	-999.00	-999.00	37.90	0.00	101.30	100.90	38.40	0.00	-999.00	-999.00	
18	1.50	0.00	103.40	-999.00	-999.00	-999.00	44.40	0.00	101.30	100.90	46.10	0.00	-999.00	-999.00	
19	1.50	0.00	103.20	-999.00	-999.00	-999.00	44.80	0.00	101.50	101.10	45.40	0.00	-999.00	-999.00	
20	1.50	0.00	103.30	-999.00	-999.00	-999.00	45.50	0.00	101.40	101.20	45.40	0.00	-999.00	-999.00	
21	1.50	0.00	103.30	-999.00	-999.00	-999.00	44.70	0.00	101.50	101.20	46.80	0.00	-999.00	-999.00	
22	1.50	0.00	103.40	-999.00	-999.00	-999.00	44.60	0.00	101.60	101.40	47.30	0.00	-999.00	-999.00	
23	1.50	0.00	103.40	-999.00	-999.00	-999.00	32.90	0.00	101.80	101.40	35.20	0.00	-999.00	-999.00	
24	1.50	0.00	103.30	-999.00	-999.00	-999.00	30.80	0.00	101.70	101.40	29.90	0.00	-999.00	-999.00	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB	McNary	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	GAS %SAT	
1	36.40	0.00	-999.00	-999.00	37.70	0.00	99.30	99.10	0.00	100.00	99.70	99.60	98.50		
2	33.00	0.00	-999.00	-999.00	32.90	0.00	99.30	99.10	0.00	99.90	99.60	99.40	98.50		
3	27.20	0.00	-999.00	-999.00	29.80	0.00	99.30	99.10	0.00	99.90	99.60	99.50	98.50		
4	26.50	0.00	-999.00	-999.00	28.70	0.00	99.30	99.10	0.00	99.90	99.60	99.40	98.60		
5	26.50	0.00	-999.00	-999.00	28.10	0.00	99.30	99.00	0.00	99.90	99.60	99.40	98.50		
6	26.90	0.00	-999.00	-999.00	28.10	0.00	99.30	99.30	0.00	99.90	99.60	99.40	98.40		
7	33.60	0.00	-999.00	-999.00	28.40	0.00	99.20	99.00	0.00	99.80	99.60	99.20	98.40		
8	40.30	0.00	-999.00	-999.00	32.70	0.00	99.10	98.90	0.00	99.80	99.40	99.30	98.30		
9	39.90	0.00	-999.00	-999.00	33.70	0.00	99.00	98.80	0.00	99.80	99.40	99.20	98.20		
10	40.00	0.00	-999.00	-999.00	35.30	0.00	99.00	98.90	0.00	99.80	99.50	99.10	98.10		
11	40.20	0.00	-999.00	-999.00	35.60	0.00	99.00	98.90	0.00	100.00	99.40	99.10	98.20		
12	40.30	0.00	-999.00	-999.00	37.10	0.00	99.00	99.00	0.00	100.00	99.50	99.20	98.20		
13	39.80	0.00	-999.00	-999.00	37.50	0.00	99.10	99.10	0.00	100.00	99.50	99.30	98.30		
14	40.20	0.00	-999.00	-999.00	36.50	0.00	99.00	99.30	0.00	100.10	99.70	99.20	98.30		
15	39.50	0.00	-999.00	-999.00	35.90	0.00	99.00	99.20	0.00	100.10	99.50	99.20	98.40		
16	39.40	0.00	-999.00	-999.00	35.90	0.00	99.10	99.00	0.00	100.20	99.60	99.30	98.50		
17	39.80	0.00	-999.00	-999.00	36.00	0.00	99.10	98.90	0.00	100.20	99.60	99.30	98.50		
18	50.00	0.00	-999.00	-999.00	41.80	0.00	99.20	99.00	0.00	100.20	99.70	99.40	98.80		
19	50.60	0.00	-999.00	-999.00	45.60	0.00	99.30	99.60	0.00	100.10	99.80	99.50	98.80		
20	49.90	0.00	-999.00	-999.00	44.90	0.00	99.30	99.10	0.00	100.10	99.90	99.50	98.90		
21	49.20	0.00	-999.00	-999.00	44.90	0.00	99.40	99.10	0.00	100.20	100.00	99.50	98.90		
22	49.00	0.00	-999.00	-999.00	44.60	0.00	99.40	99.20	0.00	100.10	100.00	99.50	99.00		
23	40.70	0.00	-999.00	-999.00	40.60	0.00	99.50	99.30	0.00	100.20	100.00	99.60	99.10		
24	31.20	0.00	-999.00	-999.00	30.50	0.00	99.50	99.20	0.00	100.20	100.00	99.60	98.80		

31 JAN 2003

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

31 JAN 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.			
1	1.50	0.00	103.20	-999.00	-999.00	-999.00	33.10	0.00	101.70	101.50	30.30	0.00	-999.00	-999.00	
2	1.50	0.00	103.10	-999.00	-999.00	-999.00	30.60	0.00	101.70	101.60	29.50	0.00	-999.00	-999.00	
3	1.50	0.00	103.20	-999.00	-999.00	-999.00	30.60	0.00	101.80	101.60	24.90	0.00	-999.00	-999.00	
4	1.50	0.00	103.10	-999.00	-999.00	-999.00	30.60	0.00	101.90	101.50	26.20	0.00	-999.00	-999.00	
5	1.50	0.00	103.10	-999.00	-999.00	-999.00	30.50	0.00	101.70	101.50	25.30	0.00	-999.00	-999.00	
6	1.50	0.00	103.10	-999.00	-999.00	-999.00	31.10	0.00	101.70	101.40	26.70	0.00	-999.00	-999.00	
7	1.50	0.00	102.90	-999.00	-999.00	-999.00	50.80	0.00	101.60	101.50	48.40	0.00	-999.00	-999.00	
8	1.50	0.00	102.90	-999.00	-999.00	-999.00	54.30	0.00	101.60	101.50	56.80	0.00	-999.00	-999.00	
9	1.50	0.00	103.10	-999.00	-999.00	-999.00	55.80	0.00	101.50	101.60	59.80	0.00	-999.00	-999.00	
10	1.50	0.00	103.40	-999.00	-999.00	-999.00	62.90	0.00	101.50	101.40	65.40	0.00	-999.00	-999.00	
11	1.50	0.00	103.60	-999.00	-999.00	-999.00	63.10	0.00	101.50	101.40	65.70	0.00	-999.00	-999.00	
12	1.50	0.00	103.60	-999.00	-999.00	-999.00	63.90	0.00	101.50	101.30	65.90	0.00	-999.00	-999.00	
13	1.50	0.00	103.70	-999.00	-999.00	-999.00	62.50	0.00	101.60	101.50	70.90	0.00	-999.00	-999.00	
14	1.50	0.00	103.80	-999.00	-999.00	-999.00	64.70	0.00	101.60	101.40	72.50	0.00	-999.00	-999.00	
15	1.50	0.00	103.90	-999.00	-999.00	-999.00	66.20	0.00	101.50	101.50	72.20	0.00	-999.00	-999.00	
16	1.50	0.00	103.70	-999.00	-999.00	-999.00	64.40	0.00	101.60	101.40	73.60	0.00	-999.00	-999.00	
17	1.50	0.00	103.50	-999.00	-999.00	-999.00	65.30	0.00	101.40	101.30	72.30	0.00	-999.00	-999.00	
18	1.50	0.00	103.50	-999.00	-999.00	-999.00	64.20	0.00	101.40	101.30	72.50	0.00	-999.00	-999.00	
19	1.50	0.00	103.40	-999.00	-999.00	-999.00	63.90	0.00	101.30	101.10	73.10	0.00	-999.00	-999.00	
20	1.50	0.00	103.20	-999.00	-999.00	-999.00	65.80	0.00	101.20	101.20	74.90	0.00	-999.00	-999.00	
21	1.50	0.00	103.20	-999.00	-999.00	-999.00	64.10	0.00	101.10	101.00	73.60	0.00	-999.00	-999.00	
22	1.50	0.00	103.60	-999.00	-999.00	-999.00	65.20	0.00	101.10	101.00	66.60	0.00	-999.00	-999.00	
23	1.50	0.00	103.90	-999.00	-999.00	-999.00	64.00	0.00	101.10	100.90	64.50	0.00	-999.00	-999.00	
24	1.50	0.00	103.90	-999.00	-999.00	-999.00	64.00	0.00	101.20	101.00	62.20	0.00	-999.00	-999.00	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.			
1	31.30	0.00	-999.00	-999.00	30.40	0.00	99.50	99.30	87.10	0.00	100.10	100.10	99.70	0.00	99.10
2	30.70	0.00	-999.00	-999.00	29.80	0.00	99.50	99.30	90.10	0.00	100.20	100.20	99.60	0.00	98.90
3	25.70	0.00	-999.00	-999.00	25.10	0.00	99.50	99.30	100.70	0.00	100.20	100.20	99.60	0.00	99.00
4	25.40	0.00	-999.00	-999.00	24.80	0.00	99.50	99.30	101.40	0.00	100.20	100.10	99.60	0.00	99.00
5	25.80	0.00	-999.00	-999.00	24.90	0.00	99.60	99.40	101.70	0.00	100.20	100.00	99.60	0.00	99.00
6	26.40	0.00	-999.00	-999.00	25.80	0.00	99.60	99.40	128.70	0.00	100.00	100.10	99.60	0.00	99.00
7	35.60	0.00	-999.00	-999.00	30.00	0.00	99.60	99.40	140.00	0.00	100.00	100.10	99.70	0.00	99.00
8	58.50	0.00	-999.00	-999.00	46.00	0.00	99.60	99.40	140.20	0.00	99.90	100.10	99.70	0.00	99.20
9	63.30	0.00	-999.00	-999.00	57.50	0.00	99.70	99.90	141.10	0.00	100.00	100.00	99.70	0.00	99.00
10	62.30	0.00	-999.00	-999.00	82.90	0.00	99.60	99.50	141.70	0.00	99.90	100.00	99.60	0.00	99.00
11	73.10	0.00	-999.00	-999.00	72.10	0.00	99.70	99.50	142.60	0.00	100.00	100.30	99.70	0.00	99.00
12	75.40	0.00	-999.00	-999.00	73.70	0.00	100.00	99.60	143.00	0.00	100.20	100.40	99.80	0.00	99.30
13	76.90	0.00	-999.00	-999.00	75.20	0.00	99.90	99.70	143.10	0.00	100.30	100.40	99.90	0.00	99.40
14	79.10	0.00	-999.00	-999.00	80.80	0.00	100.00	100.10	144.60	0.00	100.40	100.50	99.90	0.00	99.40
15	78.90	0.00	-999.00	-999.00	79.70	0.00	100.10	99.90	145.10	0.00	100.30	100.40	99.90	0.00	99.40
16	78.90	0.00	-999.00	-999.00	79.80	0.00	100.00	99.80	153.60	0.00	100.40	100.40	99.80	0.00	99.50
17	78.90	0.00	-999.00	-999.00	80.00	0.00	99.90	99.70	155.30	0.00	100.20	100.20	99.70	0.00	99.40
18	78.10	0.00	-999.00	-999.00	78.40	0.00	99.80	99.70	155.80	0.00	100.00	100.10	99.50	0.00	99.50
19	73.00	0.00	-999.00	-999.00	72.90	0.00	99.80	99.70	155.70	0.00	100.10	100.10	99.50	0.00	99.50
20	73.10	0.00	-999.00	-999.00	72.50	0.00	99.90	99.60	155.60	0.00	100.00	100.00	99.50	0.00	99.60
21	72.80	0.00	-999.00	-999.00	72.50	0.00	99.90	99.50	155.80	0.00	100.10	100.00	99.50	0.00	99.70
22	69.70	0.00	-999.00	-999.00	69.20	0.00	99.80	99.50	155.40	0.00	100.00	99.90	99.50	0.00	99.70
23	65.50	0.00	-999.00	-999.00	61.00	0.00	100.00	99.60	141.10	0.00	100.00	100.00	99.50	0.00	99.70
24	57.10	0.00	-999.00	-999.00	49.50	0.00	99.90	99.60	128.70	0.00	100.00	99.90	99.50	0.00	99.70

01 FEB 2003

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

01 FEB 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	LOWER GRANITE	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.		
1	1.50	0.00	103.90	-999.00	-999.00	-999.00	64.10	0.00	101.20	101.00	59.00	0.00	-999.00	-999.00	
2	1.50	0.00	103.90	-999.00	-999.00	-999.00	63.60	0.00	101.20	101.00	58.80	0.00	-999.00	-999.00	
3	1.50	0.00	103.80	-999.00	-999.00	-999.00	65.10	0.00	101.10	101.00	56.20	0.00	-999.00	-999.00	
4	1.50	0.00	103.80	-999.00	-999.00	-999.00	64.00	0.00	101.00	100.90	55.10	0.00	-999.00	-999.00	
5	1.50	0.00	103.80	-999.00	-999.00	-999.00	63.60	0.00	101.00	100.90	55.20	0.00	-999.00	-999.00	
6	1.50	0.00	103.60	-999.00	-999.00	-999.00	63.20	0.00	100.90	100.80	55.20	0.00	-999.00	-999.00	
7	1.50	0.00	103.60	-999.00	-999.00	-999.00	63.50	0.00	101.00	100.90	57.10	0.00	-999.00	-999.00	
8	1.50	0.00	103.40	-999.00	-999.00	-999.00	64.00	0.00	100.90	100.80	64.00	0.00	-999.00	-999.00	
9	1.50	0.00	103.40	-999.00	-999.00	-999.00	65.40	0.00	100.80	100.80	66.30	0.00	-999.00	-999.00	
10	1.50	0.00	103.40	-999.00	-999.00	-999.00	64.50	0.00	100.80	100.70	66.50	0.00	-999.00	-999.00	
11	1.50	0.00	103.60	-999.00	-999.00	-999.00	64.70	0.00	101.00	100.70	67.60	0.00	-999.00	-999.00	
12	1.50	0.00	103.70	-999.00	-999.00	-999.00	65.00	0.00	101.00	100.80	66.40	0.00	-999.00	-999.00	
13	1.50	0.00	103.60	-999.00	-999.00	-999.00	65.10	0.00	101.00	100.90	66.40	0.00	-999.00	-999.00	
14	1.50	0.00	103.60	-999.00	-999.00	-999.00	66.40	0.00	101.00	100.90	70.00	0.00	-999.00	-999.00	
15	1.50	0.00	103.60	-999.00	-999.00	-999.00	65.50	0.30	101.00	100.80	79.30	0.00	-999.00	-999.00	
16	1.50	0.00	103.70	-999.00	-999.00	-999.00	77.50	12.40	100.90	104.00	87.60	0.00	-999.00	-999.00	
17	1.50	0.00	103.20	-999.00	-999.00	-999.00	85.10	19.90	100.80	107.70	99.40	0.00	-999.00	-999.00	
18	1.50	0.00	103.10	-999.00	-999.00	-999.00	87.70	21.60	100.70	108.70	100.10	0.00	-999.00	-999.00	
19	1.50	0.00	102.90	-999.00	-999.00	-999.00	86.80	21.90	100.60	109.00	98.80	0.00	-999.00	-999.00	
20	1.50	0.00	102.80	-999.00	-999.00	-999.00	86.60	21.80	100.60	109.10	98.70	0.00	-999.00	-999.00	
21	1.50	0.00	102.70	-999.00	-999.00	-999.00	86.50	21.90	100.50	109.10	88.20	0.00	-999.00	-999.00	
22	1.50	0.00	102.80	-999.00	-999.00	-999.00	86.50	21.80	100.50	109.00	89.20	0.00	-999.00	-999.00	
23	1.50	0.00	102.70	-999.00	-999.00	-999.00	88.00	22.20	100.40	109.00	87.30	0.00	-999.00	-999.00	
24	1.50	0.00	102.70	-999.00	-999.00	-999.00	86.40	21.80	100.30	109.10	79.50	0.00	-999.00	-999.00	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB	WA TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB	GAS %SAT	
1	55.30	0.00	-999.00	-999.00	48.90	0.00	99.80	99.60	0.00	100.00	99.90	99.60	0.00	99.70	
2	55.50	0.00	-999.00	-999.00	48.60	0.00	100.00	99.60	0.00	99.90	99.80	99.40	0.00	99.70	
3	55.50	0.00	-999.00	-999.00	44.90	0.00	100.00	99.60	0.00	99.90	99.90	99.40	0.00	99.70	
4	56.80	0.00	-999.00	-999.00	45.40	0.00	99.90	99.60	0.00	99.80	99.90	99.40	0.00	99.70	
5	57.70	0.00	-999.00	-999.00	44.60	0.00	99.90	99.50	0.00	99.90	99.90	99.40	0.00	99.70	
6	55.10	0.00	-999.00	-999.00	44.50	0.00	99.90	99.50	0.00	99.80	99.80	99.50	0.00	99.70	
7	55.30	0.00	-999.00	-999.00	44.90	0.00	99.90	99.50	0.00	99.60	99.80	99.50	0.00	99.60	
8	60.00	0.00	-999.00	-999.00	59.90	0.00	99.90	99.40	0.00	99.70	99.60	99.30	0.00	99.50	
9	70.50	0.00	-999.00	-999.00	69.00	0.00	99.80	99.50	0.00	99.60	99.50	99.20	0.00	99.40	
10	75.50	0.00	-999.00	-999.00	73.60	0.00	99.70	99.80	0.00	99.60	99.50	99.30	0.00	99.30	
11	78.90	0.00	-999.00	-999.00	75.30	0.00	99.70	100.30	0.00	99.60	99.50	99.30	0.00	99.20	
12	77.80	0.00	-999.00	-999.00	76.50	0.00	99.80	99.90	0.00	99.80	99.60	99.50	0.00	99.30	
13	78.80	0.00	-999.00	-999.00	76.70	0.00	99.90	99.90	0.00	99.80	99.70	99.60	0.00	99.30	
14	84.40	0.00	-999.00	-999.00	87.90	0.00	100.00	99.90	0.00	99.90	99.70	99.70	0.00	99.50	
15	84.90	0.00	-999.00	-999.00	93.10	0.00	100.00	99.90	0.00	99.90	99.70	99.50	0.00	99.50	
16	92.20	0.00	-999.00	-999.00	93.20	0.00	100.00	99.80	0.00	99.90	99.60	99.40	0.00	99.60	
17	100.20	0.00	-999.00	-999.00	93.60	0.00	99.90	99.80	0.00	100.00	99.60	99.50	0.00	99.60	
18	109.40	0.00	-999.00	-999.00	94.10	0.00	99.90	99.70	0.00	99.80	99.50	99.60	0.00	99.60	
19	109.40	0.00	-999.00	-999.00	94.60	0.00	99.80	99.60	0.00	99.80	99.40	99.60	0.00	99.60	
20	110.10	0.00	-999.00	-999.00	96.60	0.00	99.80	99.70	0.00	99.70	99.40	99.70	0.00	99.60	
21	109.40	0.00	-999.00	-999.00	95.20	0.00	99.70	99.60	0.00	99.50	99.40	99.60	0.00	99.40	
22	96.20	0.00	-999.00	-999.00	94.80	0.00	99.60	99.50	0.00	99.40	99.30	99.20	0.00	99.30	
23	92.70	0.00	-999.00	-999.00	93.20	0.00	99.60	99.40	0.00	99.30	99.20	99.00	0.00	99.10	
24	85.10	0.00	-999.00	-999.00	94.40	0.00	99.50	99.40	0.00	99.30	99.10	98.90	0.00	98.90	

02 FEB 2003

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

02 FEB 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	LOWER GRANITE	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.		
1	1.50	0.00	102.80	-999.00	-999.00	-999.00	85.80	21.10	100.40	109.00	79.60	0.00	-999.00	-999.00	
2	1.50	0.00	102.70	-999.00	-999.00	-999.00	84.70	19.90	100.30	108.80	76.30	0.00	-999.00	-999.00	
3	1.50	0.00	102.60	-999.00	-999.00	-999.00	83.80	19.00	100.30	108.20	70.60	0.00	-999.00	-999.00	
4	1.50	0.00	102.60	-999.00	-999.00	-999.00	80.00	14.10	100.30	106.00	70.30	0.00	-999.00	-999.00	
5	1.50	0.00	102.60	-999.00	-999.00	-999.00	74.30	9.60	100.30	105.40	65.10	0.00	-999.00	-999.00	
6	1.50	0.00	102.50	-999.00	-999.00	-999.00	74.50	9.60	100.30	105.20	71.00	0.00	-999.00	-999.00	
7	1.50	0.00	102.50	-999.00	-999.00	-999.00	74.60	9.60	100.30	105.10	70.60	0.00	-999.00	-999.00	
8	1.50	0.00	102.40	-999.00	-999.00	-999.00	65.40	0.60	100.30	101.10	70.60	0.00	-999.00	-999.00	
9	1.50	0.00	102.50	-999.00	-999.00	-999.00	64.70	0.00	100.20	100.90	70.70	0.00	-999.00	-999.00	
10	1.50	0.00	102.60	-999.00	-999.00	-999.00	65.80	0.00	100.30	100.60	71.40	0.00	-999.00	-999.00	
11	1.50	0.00	102.70	-999.00	-999.00	-999.00	64.50	0.00	100.30	100.40	69.90	0.00	-999.00	-999.00	
12	1.50	0.00	103.10	-999.00	-999.00	-999.00	64.30	0.00	100.40	100.40	70.20	0.00	-999.00	-999.00	
13	1.50	0.00	103.50	-999.00	-999.00	-999.00	64.10	0.00	100.50	100.40	71.00	0.00	-999.00	-999.00	
14	1.50	0.00	104.00	-999.00	-999.00	-999.00	65.10	0.00	100.50	100.50	66.40	0.00	-999.00	-999.00	
15	1.50	0.00	103.80	-999.00	-999.00	-999.00	63.90	0.00	100.50	100.30	66.20	0.00	-999.00	-999.00	
16	1.50	0.00	103.70	-999.00	-999.00	-999.00	63.70	0.00	100.50	100.30	66.40	0.00	-999.00	-999.00	
17	1.50	0.00	103.20	-999.00	-999.00	-999.00	63.90	0.00	100.50	100.20	67.30	0.00	-999.00	-999.00	
18	1.50	0.00	102.80	-999.00	-999.00	-999.00	63.90	0.00	100.40	100.10	66.70	0.00	-999.00	-999.00	
19	1.50	0.00	102.60	-999.00	-999.00	-999.00	65.30	0.00	100.30	100.20	77.80	0.00	-999.00	-999.00	
20	1.50	0.00	102.30	-999.00	-999.00	-999.00	64.10	0.00	100.30	100.20	78.50	0.00	-999.00	-999.00	
21	1.50	0.00	102.50	-999.00	-999.00	-999.00	64.00	0.00	100.20	100.20	80.60	0.00	-999.00	-999.00	
22	1.50	0.00	102.70	-999.00	-999.00	-999.00	64.30	0.00	100.20	100.20	61.20	0.00	-999.00	-999.00	
23	1.50	0.00	102.70	-999.00	-999.00	-999.00	65.60	0.00	100.20	100.10	56.50	0.00	-999.00	-999.00	
24	1.50	0.00	102.90	-999.00	-999.00	-999.00	64.60	0.00	100.20	100.10	54.40	0.00	-999.00	-999.00	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB	WA TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB	GAS %SAT	
1	84.30	0.00	-999.00	-999.00	85.00	0.00	99.40	99.50	0.00	99.10	99.10	98.90	0.00	98.70	
2	81.50	0.00	-999.00	-999.00	80.20	0.00	99.50	99.30	0.00	99.00	98.90	98.70	0.00	98.50	
3	87.00	0.00	-999.00	-999.00	74.40	0.00	99.50	99.20	0.00	99.00	98.90	98.80	0.00	98.30	
4	79.60	0.00	-999.00	-999.00	74.00	0.00	99.30	99.20	0.00	99.10	99.00	98.80	0.00	98.30	
5	79.10	0.00	-999.00	-999.00	73.90	0.00	99.30	99.20	0.00	99.00	99.00	98.70	0.00	98.10	
6	79.20	0.00	-999.00	-999.00	73.90	0.00	99.20	99.10	0.00	98.90	98.90	98.70	0.00	98.10	
7	74.70	0.00	-999.00	-999.00	75.20	0.00	99.20	99.00	0.00	98.90	98.70	98.60	0.00	98.10	
8	74.80	0.00	-999.00	-999.00	74.20	0.00	99.20	99.00	0.00	98.70	98.60	98.60	0.00	97.90	
9	81.10	0.00	-999.00	-999.00	79.20	0.00	99.30	99.00	0.00	99.10	98.70	98.70	0.00	97.90	
10	79.70	0.00	-999.00	-999.00	79.50	0.00	99.30	99.20	0.00	99.20	98.80	98.70	0.00	97.90	
11	79.90	0.00	-999.00	-999.00	79.60	0.00	99.20	99.10	0.00	99.10	98.80	98.70	0.00	97.80	
12	80.00	0.00	-999.00	-999.00	80.70	0.00	99.40	99.30	0.00	99.30	98.80	98.70	0.00	97.90	
13	80.00	0.00	-999.00	-999.00	80.90	0.00	99.60	99.30	0.00	99.50	98.90	98.90	0.00	98.10	
14	79.90	0.00	-999.00	-999.00	79.80	0.00	99.70	99.70	0.00	99.50	99.00	98.90	0.00	98.10	
15	81.30	0.00	-999.00	-999.00	81.30	0.00	99.60	99.50	0.00	99.70	99.00	98.90	0.00	98.20	
16	80.40	0.00	-999.00	-999.00	80.30	0.00	99.60	99.70	0.00	99.50	99.00	98.90	0.00	98.20	
17	87.00	0.00	-999.00	-999.00	80.00	0.00	99.60	99.40	0.00	99.30	99.00	98.70	0.00	98.20	
18	88.90	0.00	-999.00	-999.00	80.00	0.00	99.50	99.50	0.00	99.10	99.00	98.70	0.00	98.30	
19	87.90	0.00	-999.00	-999.00	83.10	0.00	99.50	99.40	0.00	99.30	99.10	98.70	0.00	98.30	
20	90.70	0.00	-999.00	-999.00	84.40	0.00	99.60	99.30	0.00	99.30	99.20	98.60	0.00	98.50	
21	87.20	0.00	-999.00	-999.00	84.40	0.00	99.40	99.30	0.00	99.50	99.20	98.60	0.00	98.50	
22	73.30	0.00	-999.00	-999.00	70.50	0.00	99.60	99.30	0.00	99.10	99.10	98.60	0.00	98.50	
23	69.10	0.00	-999.00	-999.00	63.80	0.00	99.60	99.20	0.00	99.10	99.10	98.70	0.00	98.50	
24	59.60	0.00	-999.00	-999.00	63.10	0.00	99.60	99.20	0.00	99.10	99.10	98.70	0.00	98.30	

03 FEB 2003

WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT

03 FEB 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.			
1	1.60	0.00	103.10	-999.00	-999.00	-999.00	64.70	0.00	100.20	100.10	45.70	0.00	-999.00	-999.00	
2	1.50	0.00	102.80	-999.00	-999.00	-999.00	66.50	0.00	100.20	100.40	39.00	0.00	-999.00	-999.00	
3	1.50	0.00	102.40	-999.00	-999.00	-999.00	64.40	0.00	100.10	100.20	38.20	0.00	-999.00	-999.00	
4	1.50	0.00	102.60	-999.00	-999.00	-999.00	50.20	0.00	100.20	100.10	38.90	0.00	-999.00	-999.00	
5	1.50	0.00	102.50	-999.00	-999.00	-999.00	50.50	0.00	100.20	100.10	49.20	0.00	-999.00	-999.00	
6	1.50	0.00	102.50	-999.00	-999.00	-999.00	49.60	0.00	100.20	100.10	49.00	0.00	-999.00	-999.00	
7	1.50	0.00	102.40	-999.00	-999.00	-999.00	50.00	0.00	100.20	100.00	49.90	0.00	-999.00	-999.00	
8	1.50	0.00	102.10	-999.00	-999.00	-999.00	63.90	0.00	100.10	100.00	66.50	0.00	-999.00	-999.00	
9	1.50	0.00	102.10	-999.00	-999.00	-999.00	64.80	0.00	100.20	99.90	68.40	0.00	-999.00	-999.00	
10	1.50	0.00	102.30	-999.00	-999.00	-999.00	64.60	0.00	100.00	99.90	67.10	0.00	-999.00	-999.00	
11	1.50	0.00	102.60	-999.00	-999.00	-999.00	66.10	0.00	100.10	99.90	67.40	0.00	-999.00	-999.00	
12	1.50	0.00	102.80	-999.00	-999.00	-999.00	64.90	0.00	99.90	99.80	68.50	0.00	-999.00	-999.00	
13	1.50	0.00	103.10	-999.00	-999.00	-999.00	64.60	0.00	100.00	99.80	67.20	0.00	-999.00	-999.00	
14	1.50	0.00	103.30	-999.00	-999.00	-999.00	64.20	0.00	100.00	99.90	67.30	0.00	-999.00	-999.00	
15	1.50	0.00	103.30	-999.00	-999.00	-999.00	64.00	0.00	100.00	99.90	62.90	0.00	-999.00	-999.00	
16	1.50	0.00	103.20	-999.00	-999.00	-999.00	63.20	0.00	100.00	99.70	63.80	0.00	-999.00	-999.00	
17	1.50	0.00	103.10	-999.00	-999.00	-999.00	57.30	0.00	99.90	99.70	60.90	0.00	-999.00	-999.00	
18	1.50	0.00	102.80	-999.00	-999.00	-999.00	55.60	0.00	99.80	99.70	60.90	0.00	-999.00	-999.00	
19	1.50	0.00	102.50	-999.00	-999.00	-999.00	57.80	0.00	99.70	99.70	60.70	0.00	-999.00	-999.00	
20	1.50	0.00	102.20	-999.00	-999.00	-999.00	55.80	0.00	99.70	99.70	62.30	0.00	-999.00	-999.00	
21	1.50	0.00	102.20	-999.00	-999.00	-999.00	55.80	0.00	99.70	99.50	62.20	0.00	-999.00	-999.00	
22	1.50	0.00	102.30	-999.00	-999.00	-999.00	55.70	0.00	99.60	99.50	54.60	0.00	-999.00	-999.00	
23	1.50	0.00	102.30	-999.00	-999.00	-999.00	48.40	0.00	99.60	99.50	50.80	0.00	-999.00	-999.00	
24	1.50	0.00	102.30	-999.00	-999.00	-999.00	40.60	0.00	99.50	99.40	41.50	0.00	-999.00	-999.00	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.			
1	55.60	0.00	-999.00	-999.00	47.00	0.00	99.60	99.20	104.80	0.00	99.10	99.10	98.50	0.00	98.40
2	45.90	0.00	-999.00	-999.00	38.80	0.00	99.50	99.20	98.80	0.00	99.00	99.00	98.50	0.00	98.20
3	40.90	0.00	-999.00	-999.00	38.20	0.00	99.50	99.30	116.60	0.00	99.00	98.90	98.50	0.00	98.10
4	40.80	0.00	-999.00	-999.00	33.20	0.00	99.50	99.30	126.50	0.00	99.00	99.00	98.50	0.00	98.00
5	40.70	0.00	-999.00	-999.00	33.00	0.00	99.50	99.30	134.60	0.00	99.00	99.00	98.50	0.00	97.90
6	42.20	0.00	-999.00	-999.00	33.40	0.00	99.70	99.10	144.80	0.00	99.00	99.00	98.50	0.00	97.80
7	51.60	0.00	-999.00	-999.00	40.60	0.00	99.60	99.10	161.40	0.00	98.90	99.00	98.70	0.00	97.70
8	67.00	0.00	-999.00	-999.00	55.70	0.00	99.60	99.20	166.60	0.00	98.80	99.00	98.60	0.00	97.70
9	73.10	0.00	-999.00	-999.00	72.60	0.00	99.40	99.60	173.90	0.00	98.90	98.90	98.70	0.00	97.70
10	73.50	0.00	-999.00	-999.00	72.40	0.00	99.60	99.40	175.10	0.00	98.80	98.80	98.80	0.00	97.50
11	73.40	0.00	-999.00	-999.00	72.50	0.00	99.50	99.50	174.40	0.00	98.90	98.80	98.70	0.00	97.50
12	74.80	0.00	-999.00	-999.00	72.60	0.00	99.60	99.50	176.00	0.00	99.00	99.00	98.80	0.00	97.70
13	73.60	0.00	-999.00	-999.00	72.50	0.00	99.60	99.70	178.10	0.00	99.00	99.00	99.10	0.00	97.70
14	73.40	0.00	-999.00	-999.00	73.90	0.00	99.70	99.70	177.90	0.00	99.10	99.10	99.20	0.00	97.70
15	73.60	0.00	-999.00	-999.00	73.90	0.00	99.80	99.70	177.90	0.00	99.40	99.10	99.20	0.00	97.90
16	73.40	0.00	-999.00	-999.00	72.70	0.00	99.80	99.70	175.90	0.00	99.20	99.30	99.20	0.00	98.00
17	73.20	0.00	-999.00	-999.00	72.50	0.00	99.70	99.70	176.00	0.00	99.20	99.20	99.00	0.00	98.10
18	67.70	0.00	-999.00	-999.00	65.80	0.00	99.70	99.40	176.20	0.00	99.20	99.00	98.80	0.00	98.10
19	66.60	0.00	-999.00	-999.00	66.10	0.00	99.70	99.40	178.00	0.00	99.30	99.00	98.90	0.00	98.20
20	63.90	0.00	-999.00	-999.00	64.50	0.00	99.70	99.50	165.30	0.00	99.20	99.00	98.80	0.00	98.10
21	63.60	0.00	-999.00	-999.00	64.10	0.00	99.60	99.40	163.50	0.00	99.10	98.90	98.70	0.00	98.20
22	55.70	0.00	-999.00	-999.00	55.40	0.00	99.70	99.40	143.90	0.00	99.10	98.90	98.60	0.00	98.20
23	54.80	0.00	-999.00	-999.00	49.30	0.00	99.60	99.40	125.10	0.00	99.00	98.90	98.60	0.00	98.20
24	46.40	0.00	-999.00	-999.00	39.40	0.00	99.60	99.30	110.70	0.00	98.80	98.80	98.50	0.00	98.00

04 FEB 2003

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

04 FEB 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB	%SAT. TAILW.	
1	1.50	0.00	102.20	-999.00	-999.00	-999.00	41.00	0.00	99.50	99.40	39.90	0.00	-999.00	-999.00	
2	1.10	0.00	102.20	-999.00	-999.00	-999.00	40.20	0.00	99.40	99.20	40.10	0.00	-999.00	-999.00	
3	1.50	0.00	102.00	-999.00	-999.00	-999.00	40.00	0.00	99.40	99.20	35.30	0.00	-999.00	-999.00	
4	1.50	0.00	102.00	-999.00	-999.00	-999.00	50.10	0.00	99.30	99.10	35.00	0.00	-999.00	-999.00	
5	1.10	0.00	101.90	-999.00	-999.00	-999.00	54.60	0.00	99.30	99.00	48.30	0.00	-999.00	-999.00	
6	1.50	0.00	101.90	-999.00	-999.00	-999.00	54.90	0.00	99.30	99.00	55.00	0.00	-999.00	-999.00	
7	1.50	0.00	101.80	-999.00	-999.00	-999.00	60.00	0.00	99.00	99.00	65.00	0.00	-999.00	-999.00	
8	1.50	0.00	101.90	-999.00	-999.00	-999.00	61.40	0.00	99.00	98.90	64.10	0.00	-999.00	-999.00	
9	1.50	0.00	102.20	-999.00	-999.00	-999.00	60.60	0.00	99.00	98.90	64.20	0.00	-999.00	-999.00	
10	1.50	0.00	102.70	-999.00	-999.00	-999.00	60.50	0.00	98.90	98.80	65.40	0.00	-999.00	-999.00	
11	1.50	0.00	103.00	-999.00	-999.00	-999.00	53.60	0.00	98.90	98.80	61.40	0.00	-999.00	-999.00	
12	1.50	0.00	103.00	-999.00	-999.00	-999.00	45.20	0.00	98.90	98.80	53.70	0.00	-999.00	-999.00	
13	1.70	0.00	103.00	-999.00	-999.00	-999.00	46.70	0.00	99.00	98.90	50.40	0.00	-999.00	-999.00	
14	1.60	0.00	102.90	-999.00	-999.00	-999.00	45.50	0.00	99.10	98.90	45.90	0.00	-999.00	-999.00	
15	1.50	0.00	103.20	-999.00	-999.00	-999.00	44.70	0.00	99.00	98.90	44.50	0.00	-999.00	-999.00	
16	1.50	0.00	102.90	-999.00	-999.00	-999.00	53.00	0.00	99.00	98.90	44.90	0.00	-999.00	-999.00	
17	1.50	0.00	102.20	-999.00	-999.00	-999.00	53.60	0.00	99.00	98.90	48.70	0.00	-999.00	-999.00	
18	1.50	0.00	101.80	-999.00	-999.00	-999.00	55.50	0.00	99.00	98.90	54.70	0.00	-999.00	-999.00	
19	1.50	0.00	101.60	-999.00	-999.00	-999.00	55.90	0.00	99.00	98.90	55.20	0.00	-999.00	-999.00	
20	1.50	0.00	101.70	-999.00	-999.00	-999.00	58.80	0.00	98.90	98.80	54.90	0.00	-999.00	-999.00	
21	1.50	0.00	101.80	-999.00	-999.00	-999.00	56.20	0.00	98.90	98.90	54.80	0.00	-999.00	-999.00	
22	1.50	0.00	102.00	-999.00	-999.00	-999.00	52.00	0.00	98.90	98.90	54.70	0.00	-999.00	-999.00	
23	1.50	0.00	102.00	-999.00	-999.00	-999.00	43.50	0.00	98.90	98.90	43.10	0.00	-999.00	-999.00	
24	1.50	0.00	102.20	-999.00	-999.00	-999.00	39.60	0.00	98.90	98.80	38.40	0.00	-999.00	-999.00	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. OR FB	WA TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB	FB	
1	45.40	0.00	-999.00 -999.00	39.80	0.00	99.60 99.30	113.00	0.00	98.80	98.80	98.50	0.00	98.00		
2	45.20	0.00	-999.00 -999.00	39.00	0.00	99.50 99.30	115.70	0.00	98.80	98.80	98.30	0.00	97.80		
3	35.80	0.00	-999.00 -999.00	34.40	0.00	99.50 99.10	107.30	0.00	98.70	98.60	98.30	0.00	97.80		
4	35.10	0.00	-999.00 -999.00	34.20	0.00	99.40 99.00	107.70	0.00	98.50	98.60	98.20	0.00	97.70		
5	35.20	0.00	-999.00 -999.00	34.40	0.00	99.40 99.00	158.10	0.00	98.50	98.50	98.30	0.00	97.70		
6	51.90	0.00	-999.00 -999.00	50.50	0.00	99.30 98.90	168.20	0.00	98.60	98.50	98.30	0.00	97.50		
7	64.40	0.00	-999.00 -999.00	53.70	0.00	99.40 99.20	177.20	0.00	98.40	98.40	98.20	0.00	97.40		
8	65.00	0.00	-999.00 -999.00	57.80	0.00	99.30 99.00	177.20	0.00	98.40	98.30	98.10	0.00	97.10		
9	67.30	0.00	-999.00 -999.00	65.30	0.00	99.30 98.90	160.70	0.00	98.40	98.20	98.00	0.00	97.10		
10	66.70	0.00	-999.00 -999.00	64.20	0.00	99.30 99.20	157.80	0.00	98.30	98.30	98.10	0.00	97.10		
11	67.80	0.00	-999.00 -999.00	65.30	0.00	99.30 99.60	158.20	0.00	98.30	98.30	98.10	0.00	97.10		
12	63.20	0.00	-999.00 -999.00	58.70	0.00	99.30 99.30	150.80	0.00	98.40	98.40	98.20	0.00	97.30		
13	55.80	0.00	-999.00 -999.00	53.70	0.00	99.60 99.40	145.20	0.00	98.60	98.60	98.20	0.00	97.30		
14	48.90	0.00	-999.00 -999.00	49.50	0.00	100.20 99.50	142.40	0.00	98.80	98.60	98.30	0.00	97.50		
15	47.80	0.00	-999.00 -999.00	49.30	0.00	99.70 99.60	141.10	0.00	99.00	98.60	98.30	0.00	97.60		
16	48.50	0.00	-999.00 -999.00	49.50	0.00	100.00 99.40	146.60	0.00	99.00	98.60	98.20	0.00	97.90		
17	48.10	0.00	-999.00 -999.00	47.60	0.00	99.70 99.30	152.40	0.00	99.00	98.50	98.20	0.00	97.90		
18	56.10	0.00	-999.00 -999.00	48.40	0.00	99.70 99.20	163.20	0.00	98.90	98.40	98.20	0.00	98.10		
19	59.80	0.00	-999.00 -999.00	49.40	0.00	99.70 99.20	161.40	0.00	98.80	98.40	98.20	0.00	98.20		
20	61.40	0.00	-999.00 -999.00	57.50	0.00	99.90 99.20	164.80	0.00	98.60	98.30	98.20	0.00	98.20		
21	62.60	0.00	-999.00 -999.00	58.30	0.00	99.70 99.40	161.50	0.00	98.50	98.30	98.10	0.00	98.20		
22	61.20	0.00	-999.00 -999.00	59.40	0.00	99.60 99.30	131.50	0.00	98.40	98.30	98.20	0.00	98.20		
23	51.70	0.00	-999.00 -999.00	58.10	0.00	99.60 99.40	104.00	0.00	98.50	98.30	98.10	0.00	98.20		
24	44.50	0.00	-999.00 -999.00	50.00	0.00	99.60 99.40	90.80	0.00	98.50	98.40	98.00	0.00	98.10		

05 FEB 2003

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

05 FEB 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.			
1	1.50	0.00	102.20	-999.00	-999.00	-999.00	40.40	0.00	99.00	98.80	38.80	0.00	-999.00	-999.00	
2	1.50	0.00	102.20	-999.00	-999.00	-999.00	39.40	0.00	99.00	98.90	39.50	0.00	-999.00	-999.00	
3	1.50	0.00	102.00	-999.00	-999.00	-999.00	35.50	0.00	99.00	98.70	38.10	0.00	-999.00	-999.00	
4	1.50	0.00	102.10	-999.00	-999.00	-999.00	35.60	0.00	99.00	98.70	38.10	0.00	-999.00	-999.00	
5	1.50	0.00	102.10	-999.00	-999.00	-999.00	35.60	0.00	99.00	98.70	38.90	0.00	-999.00	-999.00	
6	1.50	0.00	102.10	-999.00	-999.00	-999.00	41.90	0.00	99.10	98.80	39.80	0.00	-999.00	-999.00	
7	1.50	0.00	102.10	-999.00	-999.00	-999.00	41.50	0.00	99.00	98.80	45.00	0.00	-999.00	-999.00	
8	1.50	0.00	102.00	-999.00	-999.00	-999.00	49.00	0.00	99.00	98.70	50.00	0.00	-999.00	-999.00	
9	1.50	0.00	102.10	-999.00	-999.00	-999.00	44.20	0.00	99.00	98.70	48.20	0.00	-999.00	-999.00	
10	1.50	0.00	102.50	-999.00	-999.00	-999.00	43.50	0.00	99.00	98.70	47.40	0.00	-999.00	-999.00	
11	1.50	0.00	102.90	-999.00	-999.00	-999.00	34.30	0.00	99.00	98.80	48.20	0.00	-999.00	-999.00	
12	1.50	0.00	103.10	-999.00	-999.00	-999.00	33.50	0.00	99.10	98.90	47.20	0.00	-999.00	-999.00	
13	1.50	0.00	103.10	-999.00	-999.00	-999.00	33.00	0.00	99.10	98.80	40.30	0.00	-999.00	-999.00	
14	1.50	0.00	103.30	-999.00	-999.00	-999.00	33.10	0.00	99.10	98.80	39.40	0.00	-999.00	-999.00	
15	1.50	0.00	103.30	-999.00	-999.00	-999.00	38.70	0.00	99.40	99.10	40.80	0.00	-999.00	-999.00	
16	1.50	0.00	103.10	-999.00	-999.00	-999.00	42.70	0.00	99.30	99.10	44.30	0.00	-999.00	-999.00	
17	1.50	0.00	102.60	-999.00	-999.00	-999.00	44.40	0.00	99.40	98.90	45.30	0.00	-999.00	-999.00	
18	1.50	0.00	102.20	-999.00	-999.00	-999.00	44.90	0.00	99.60	98.70	45.80	0.00	-999.00	-999.00	
19	1.50	0.00	102.00	-999.00	-999.00	-999.00	45.00	0.00	99.50	98.80	47.70	0.00	-999.00	-999.00	
20	1.50	0.00	101.80	-999.00	-999.00	-999.00	45.00	0.00	99.30	98.80	47.70	0.00	-999.00	-999.00	
21	1.50	0.00	101.80	-999.00	-999.00	-999.00	44.80	0.00	99.30	98.70	45.40	0.00	-999.00	-999.00	
22	1.50	0.00	101.80	-999.00	-999.00	-999.00	35.60	0.00	99.10	98.70	36.00	0.00	-999.00	-999.00	
23	1.50	0.00	101.80	-999.00	-999.00	-999.00	27.00	0.00	99.00	98.60	25.30	0.00	-999.00	-999.00	
24	1.50	0.00	101.60	-999.00	-999.00	-999.00	20.80	0.00	98.90	99.00	21.30	0.00	-999.00	-999.00	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.			
1	40.30	0.00	-999.00	-999.00	40.20	0.00	99.60	99.40		90.00	0.00	98.50	98.50	98.00	98.10
2	40.10	0.00	-999.00	-999.00	39.70	0.00	99.70	99.30		91.20	0.00	98.50	98.50	98.10	98.00
3	39.20	0.00	-999.00	-999.00	35.50	0.00	99.70	99.30		90.30	0.00	98.60	98.50	98.10	98.00
4	38.60	0.00	-999.00	-999.00	34.70	0.00	99.70	99.50		92.80	0.00	98.50	98.40	98.10	97.90
5	39.30	0.00	-999.00	-999.00	34.90	0.00	99.70	99.30		105.60	0.00	98.50	98.40	98.20	97.80
6	39.70	0.00	-999.00	-999.00	35.40	0.00	99.70	99.40		131.50	0.00	98.50	98.50	98.30	97.70
7	45.40	0.00	-999.00	-999.00	39.50	0.00	99.70	99.40		145.10	0.00	98.50	98.50	98.30	97.50
8	49.60	0.00	-999.00	-999.00	48.10	0.00	99.70	99.30		145.30	0.00	98.50	98.40	98.20	97.40
9	49.00	0.00	-999.00	-999.00	49.40	0.00	99.70	99.50		142.80	0.00	98.50	98.50	98.20	97.30
10	50.00	0.00	-999.00	-999.00	47.80	0.00	99.70	100.10		142.10	0.00	98.50	98.50	98.20	97.20
11	52.00	0.00	-999.00	-999.00	47.90	0.00	99.70	99.50		132.70	0.00	98.40	98.40	98.20	97.20
12	50.60	0.00	-999.00	-999.00	47.70	0.00	99.80	100.00		131.60	0.00	98.50	98.40	98.20	97.20
13	50.70	0.00	-999.00	-999.00	49.30	0.00	99.80	99.50		123.20	0.00	98.50	98.50	98.20	97.20
14	51.60	0.00	-999.00	-999.00	48.70	0.00	99.80	99.60		122.70	0.00	98.50	98.50	98.30	97.20
15	48.50	0.00	-999.00	-999.00	47.80	0.00	99.80	99.70		122.50	0.00	99.00	98.40	98.30	97.20
16	49.00	0.00	-999.00	-999.00	48.10	0.00	99.70	99.50		130.30	0.00	99.00	98.40	98.30	97.30
17	49.30	0.00	-999.00	-999.00	46.30	0.00	99.70	99.70		143.00	12.00	98.80	98.40	98.20	97.30
18	50.70	0.00	-999.00	-999.00	46.40	0.00	99.70	99.30		142.60	11.20	98.50	98.40	101.70	97.20
19	49.50	0.00	-999.00	-999.00	47.20	0.00	99.60	99.30		131.30	0.20	98.40	98.30	102.60	97.20
20	50.40	0.00	-999.00	-999.00	46.10	0.00	99.60	99.20		132.10	0.00	98.40	98.30	99.90	97.20
21	47.80	0.00	-999.00	-999.00	45.90	0.00	99.40	99.00		130.90	0.00	98.20	98.20	99.20	97.10
22	44.50	0.00	-999.00	-999.00	45.80	0.00	99.40	99.00		111.60	0.00	98.20	98.10	98.70	97.10
23	28.10	0.00	-999.00	-999.00	33.20	0.00	99.30	99.00		84.90	0.00	98.10	98.10	98.30	96.90
24	20.50	0.00	-999.00	-999.00	20.50	0.00	99.30	98.90		75.20	0.00	98.10	98.10	98.10	96.70

06 FEB 2003

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

06 FEB 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.			
1	1.50	0.00	101.80	-999.00	-999.00	-999.00	12.90	0.00	98.80	98.70	12.90	0.00	-999.00	-999.00	
2	1.50	0.00	101.70	-999.00	-999.00	-999.00	20.50	0.00	98.90	98.70	12.70	0.00	-999.00	-999.00	
3	1.50	0.00	101.60	-999.00	-999.00	-999.00	24.40	0.00	98.80	98.70	12.40	0.00	-999.00	-999.00	
4	1.50	0.00	101.60	-999.00	-999.00	-999.00	24.80	0.00	98.80	98.50	13.10	0.00	-999.00	-999.00	
5	1.50	0.00	101.50	-999.00	-999.00	-999.00	33.70	0.00	98.70	98.50	25.00	0.00	-999.00	-999.00	
6	1.50	0.00	101.60	-999.00	-999.00	-999.00	44.20	0.00	98.70	98.50	34.70	0.00	-999.00	-999.00	
7	1.50	0.00	101.50	-999.00	-999.00	-999.00	47.10	0.00	98.80	98.60	46.10	0.00	-999.00	-999.00	
8	1.50	0.00	101.40	-999.00	-999.00	-999.00	44.70	0.00	98.80	98.40	48.60	0.00	-999.00	-999.00	
9	1.50	0.00	101.70	-999.00	-999.00	-999.00	44.70	0.00	98.70	98.40	48.70	0.00	-999.00	-999.00	
10	1.50	0.00	102.00	-999.00	-999.00	-999.00	44.60	0.00	98.80	98.50	48.50	0.00	-999.00	-999.00	
11	1.50	0.00	102.50	-999.00	-999.00	-999.00	47.20	0.00	98.80	98.50	49.50	0.00	-999.00	-999.00	
12	1.50	0.00	102.60	-999.00	-999.00	-999.00	51.10	0.00	99.00	98.60	51.30	0.00	-999.00	-999.00	
13	1.50	0.00	102.70	-999.00	-999.00	-999.00	50.20	0.00	99.10	98.70	51.60	0.00	-999.00	-999.00	
14	1.50	0.00	102.80	-999.00	-999.00	-999.00	50.50	0.00	99.10	98.80	51.50	0.00	-999.00	-999.00	
15	1.50	0.00	102.50	-999.00	-999.00	-999.00	50.50	0.00	99.00	98.80	51.50	0.00	-999.00	-999.00	
16	1.50	0.00	102.30	-999.00	-999.00	-999.00	50.50	0.00	99.00	98.70	52.50	0.00	-999.00	-999.00	
17	1.50	0.00	102.30	-999.00	-999.00	-999.00	51.50	0.00	99.10	98.70	51.10	0.00	-999.00	-999.00	
18	1.50	0.00	102.30	-999.00	-999.00	-999.00	50.70	0.00	99.00	98.90	51.20	0.00	-999.00	-999.00	
19	1.50	0.00	102.00	-999.00	-999.00	-999.00	50.70	0.00	99.30	98.90	51.30	0.00	-999.00	-999.00	
20	1.50	0.00	101.70	-999.00	-999.00	-999.00	53.60	0.00	99.30	98.90	56.70	0.00	-999.00	-999.00	
21	1.50	0.00	101.70	-999.00	-999.00	-999.00	53.20	0.00	99.00	98.90	55.80	0.00	-999.00	-999.00	
22	1.50	0.00	101.70	-999.00	-999.00	-999.00	33.30	0.00	99.00	98.90	52.10	0.00	-999.00	-999.00	
23	1.50	0.00	101.70	-999.00	-999.00	-999.00	17.50	0.00	99.00	99.50	21.10	0.00	-999.00	-999.00	
24	1.50	0.00	101.60	-999.00	-999.00	-999.00	16.40	0.00	98.90	99.00	21.00	0.00	-999.00	-999.00	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. WA FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.			
1	13.80	0.00	-999.00	-999.00	18.90	0.00	99.30	98.90	74.90	0.00	97.90	98.00	98.00	96.70	
2	13.00	0.00	-999.00	-999.00	17.60	0.00	99.10	98.90	83.00	0.00	97.90	97.90	98.00	96.50	
3	13.10	0.00	-999.00	-999.00	17.60	0.00	99.10	98.90	83.30	0.00	97.90	97.90	98.00	96.50	
4	13.30	0.00	-999.00	-999.00	17.60	0.00	99.10	98.70	84.80	0.00	97.90	97.90	97.80	96.40	
5	20.70	0.00	-999.00	-999.00	17.90	0.00	99.00	98.70	112.10	0.00	97.70	97.90	97.80	96.30	
6	26.30	0.00	-999.00	-999.00	17.80	0.00	99.10	98.70	131.30	0.00	97.70	97.80	97.80	96.20	
7	33.90	0.00	-999.00	-999.00	23.60	0.00	99.10	98.60	134.20	0.00	97.70	97.80	97.70	96.20	
8	44.70	0.00	-999.00	-999.00	29.90	0.00	99.10	98.60	135.80	0.00	97.50	97.70	97.50	96.10	
9	53.80	0.00	-999.00	-999.00	45.20	0.00	99.10	98.80	135.40	0.00	97.60	97.70	97.60	96.10	
10	55.00	0.00	-999.00	-999.00	50.60	0.00	99.00	99.30	134.70	0.00	97.60	97.70	97.60	96.00	
11	62.60	0.00	-999.00	-999.00	50.50	0.00	99.00	98.90	134.40	0.00	98.30	97.60	97.70	96.00	
12	64.90	0.00	-999.00	-999.00	63.40	0.00	99.10	98.90	121.30	0.00	99.00	97.80	97.80	96.20	
13	64.20	0.00	-999.00	-999.00	62.80	0.00	99.10	99.70	121.10	0.00	100.20	97.90	97.90	96.30	
14	64.80	0.00	-999.00	-999.00	62.80	0.00	99.20	99.20	121.50	0.70	100.60	98.00	98.10	96.50	
15	63.80	0.00	-999.00	-999.00	62.70	0.00	99.20	99.20	121.20	0.00	100.80	98.00	98.10	96.80	
16	55.40	0.00	-999.00	-999.00	63.50	0.00	99.30	99.10	146.00	1.90	100.30	98.20	98.10	97.00	
17	52.70	0.00	-999.00	-999.00	50.80	0.00	99.30	99.20	145.80	0.00	99.30	98.10	98.40	97.10	
18	53.10	0.00	-999.00	-999.00	50.00	0.00	99.40	99.00	145.90	0.00	98.80	98.30	98.40	97.30	
19	52.30	0.00	-999.00	-999.00	50.20	0.00	99.30	99.00	153.30	0.00	98.40	98.10	98.30	97.30	
20	59.00	0.00	-999.00	-999.00	56.70	0.00	99.50	99.00	154.60	0.00	98.20	98.00	98.20	97.30	
21	59.10	0.00	-999.00	-999.00	58.10	0.00	99.50	99.10	153.10	0.00	98.20	98.10	98.20	97.30	
22	58.10	0.00	-999.00	-999.00	57.20	0.00	99.40	99.10	112.40	0.00	98.10	98.10	98.10	97.30	
23	44.70	0.00	-999.00	-999.00	45.80	0.00	99.30	98.90	76.90	0.00	98.10	98.10	98.00	97.20	
24	27.80	0.00	-999.00	-999.00	33.40	0.00	99.30	99.10	92.70	0.00	98.10	98.20	98.00	97.30	

07 FEB 2003

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

07 FEB 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	LOWER GRANITE	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.		
1	1.50	0.00	101.40	-999.00	-999.00	-999.00	16.30	0.00	99.00	98.90	21.60	0.00	-999.00	-999.00	
2	1.50	0.00	101.30	-999.00	-999.00	-999.00	22.10	0.00	98.90	99.80	21.20	0.00	-999.00	-999.00	
3	1.50	0.00	101.60	-999.00	-999.00	-999.00	21.20	0.00	99.00	99.00	21.30	0.00	-999.00	-999.00	
4	1.50	0.00	101.70	-999.00	-999.00	-999.00	28.90	0.00	99.10	98.90	21.70	0.00	-999.00	-999.00	
5	1.50	0.00	101.80	-999.00	-999.00	-999.00	33.80	0.00	99.10	99.00	35.00	0.00	-999.00	-999.00	
6	1.50	0.00	101.70	-999.00	-999.00	-999.00	38.20	0.00	99.00	98.90	38.90	0.00	-999.00	-999.00	
7	1.50	0.00	101.50	-999.00	-999.00	-999.00	45.90	0.00	99.10	98.90	45.70	0.00	-999.00	-999.00	
8	1.50	0.00	101.50	-999.00	-999.00	-999.00	45.10	0.00	99.00	98.90	45.60	0.00	-999.00	-999.00	
9	1.50	0.00	101.70	-999.00	-999.00	-999.00	35.80	0.00	99.00	98.90	42.30	0.00	-999.00	-999.00	
10	1.50	0.00	102.10	-999.00	-999.00	-999.00	35.50	0.00	98.90	98.90	34.30	0.00	-999.00	-999.00	
11	1.50	0.00	102.40	-999.00	-999.00	-999.00	35.60	0.00	98.90	98.90	32.20	0.00	-999.00	-999.00	
12	1.50	0.00	102.80	-999.00	-999.00	-999.00	36.20	0.00	99.10	99.00	33.80	0.00	-999.00	-999.00	
13	1.50	0.00	102.90	-999.00	-999.00	-999.00	35.60	0.00	99.20	99.00	34.20	0.00	-999.00	-999.00	
14	1.10	0.00	102.80	-999.00	-999.00	-999.00	35.50	0.00	99.20	99.10	32.20	0.00	-999.00	-999.00	
15	1.10	0.00	102.70	-999.00	-999.00	-999.00	35.50	0.00	99.20	99.10	32.10	0.00	-999.00	-999.00	
16	1.50	0.00	102.60	-999.00	-999.00	-999.00	36.00	0.00	99.30	99.20	31.90	0.00	-999.00	-999.00	
17	1.50	0.00	102.70	-999.00	-999.00	-999.00	49.20	0.00	99.40	99.20	46.20	0.00	-999.00	-999.00	
18	1.50	0.00	102.70	-999.00	-999.00	-999.00	49.20	0.00	99.40	99.20	49.50	0.00	-999.00	-999.00	
19	1.50	0.00	102.60	-999.00	-999.00	-999.00	49.20	0.00	99.30	99.30	49.00	0.00	-999.00	-999.00	
20	1.10	0.00	102.50	-999.00	-999.00	-999.00	53.50	0.00	99.30	99.30	55.50	0.00	-999.00	-999.00	
21	1.50	0.00	102.70	-999.00	-999.00	-999.00	52.80	0.00	99.40	99.30	55.60	0.00	-999.00	-999.00	
22	1.50	0.00	102.70	-999.00	-999.00	-999.00	28.80	0.00	99.40	99.40	55.70	0.00	-999.00	-999.00	
23	1.50	0.00	102.80	-999.00	-999.00	-999.00	18.10	0.00	99.40	99.40	29.80	0.00	-999.00	-999.00	
24	1.50	0.00	102.40	-999.00	-999.00	-999.00	17.70	0.00	99.60	99.40	20.00	0.00	-999.00	-999.00	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB	WA TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB	GAS %SAT	
1	18.30	0.00	-999.00	-999.00	22.80	0.00	99.40	99.10	0.00	98.10	98.20	97.90	0.00	97.10	
2	17.90	0.00	-999.00	-999.00	18.10	0.00	99.30	99.00	0.00	98.10	98.20	97.90	0.00	96.90	
3	19.50	0.00	-999.00	-999.00	17.60	0.00	99.40	99.00	0.00	98.10	98.30	97.90	0.00	96.90	
4	18.30	0.00	-999.00	-999.00	17.70	0.00	99.40	98.90	0.00	98.20	98.30	98.10	0.00	96.80	
5	27.90	0.00	-999.00	-999.00	22.10	0.00	99.40	98.90	0.00	98.10	98.30	98.10	0.00	96.70	
6	38.30	0.00	-999.00	-999.00	32.40	0.00	99.50	99.00	0.00	98.10	98.30	98.10	0.00	96.60	
7	45.00	0.00	-999.00	-999.00	38.90	0.00	99.50	99.20	0.00	98.10	98.40	98.10	0.00	96.70	
8	45.20	0.00	-999.00	-999.00	44.20	0.00	99.20	99.00	0.00	98.00	98.30	98.00	0.00	96.70	
9	45.30	0.00	-999.00	-999.00	43.70	0.00	99.40	99.50	0.00	98.10	98.40	98.00	0.00	96.60	
10	40.90	0.00	-999.00	-999.00	41.60	0.00	99.50	99.10	0.00	98.20	98.30	98.10	0.00	96.60	
11	38.80	0.00	-999.00	-999.00	38.70	0.00	99.60	99.20	0.00	99.30	98.40	98.20	0.00	96.70	
12	36.20	0.00	-999.00	-999.00	33.60	0.00	99.60	99.70	0.00	100.10	98.70	98.40	0.00	96.80	
13	36.30	0.00	-999.00	-999.00	34.00	0.00	99.50	99.60	0.00	100.80	98.70	98.50	0.00	97.00	
14	36.40	0.00	-999.00	-999.00	35.00	0.00	99.60	99.70	0.00	101.70	98.80	98.60	0.00	97.20	
15	36.40	0.00	-999.00	-999.00	33.50	0.00	99.60	99.60	0.00	100.80	98.80	98.80	0.00	97.40	
16	36.00	0.00	-999.00	-999.00	33.90	0.00	99.70	99.50	0.00	99.90	98.90	98.80	0.00	97.60	
17	49.40	0.00	-999.00	-999.00	45.70	0.00	99.70	99.80	0.00	99.80	98.90	98.70	0.00	97.90	
18	48.00	0.00	-999.00	-999.00	47.70	0.00	99.80	99.70	0.00	99.20	98.90	98.70	0.00	97.90	
19	48.10	0.00	-999.00	-999.00	46.90	0.00	99.80	99.50	0.00	98.90	99.00	98.80	0.00	97.90	
20	54.80	0.00	-999.00	-999.00	53.50	0.00	99.80	99.40	0.00	98.90	99.10	98.80	0.00	97.70	
21	56.10	0.00	-999.00	-999.00	52.10	0.00	99.80	99.50	0.00	98.90	99.10	98.80	0.00	97.70	
22	55.70	0.00	-999.00	-999.00	52.10	0.00	99.80	99.50	0.00	98.80	99.20	98.80	0.00	97.70	
23	43.80	0.00	-999.00	-999.00	42.90	0.00	99.80	99.90	0.00	98.70	99.10	98.60	0.00	97.70	
24	29.80	0.00	-999.00	-999.00	33.50	0.00	99.70	99.50	0.00	98.70	99.10	98.60	0.00	97.70	

08 FEB 2003

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

08 FEB 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB	%SAT. TAILW.	
1	1.50	0.00	102.30	-999.00	-999.00	-999.00	17.50	0.00	99.40	99.30	19.70	0.00	-999.00	-999.00	
2	1.50	0.00	102.40	-999.00	-999.00	-999.00	17.50	0.00	99.40	99.30	19.60	0.00	-999.00	-999.00	
3	1.50	0.00	102.80	-999.00	-999.00	-999.00	17.90	0.00	99.40	99.30	20.00	0.00	-999.00	-999.00	
4	1.50	0.00	103.00	-999.00	-999.00	-999.00	21.10	0.00	99.40	99.30	20.00	0.00	-999.00	-999.00	
5	1.50	0.00	103.00	-999.00	-999.00	-999.00	37.50	0.00	99.40	99.70	27.70	0.00	-999.00	-999.00	
6	1.50	0.00	102.90	-999.00	-999.00	-999.00	44.10	0.00	99.50	99.50	43.60	0.00	-999.00	-999.00	
7	1.50	0.00	103.00	-999.00	-999.00	-999.00	44.20	0.00	99.50	99.50	45.70	0.00	-999.00	-999.00	
8	1.50	0.00	103.10	-999.00	-999.00	-999.00	45.40	0.00	99.40	99.30	44.40	0.00	-999.00	-999.00	
9	1.50	0.00	102.90	-999.00	-999.00	-999.00	44.70	0.00	99.40	99.20	44.30	0.00	-999.00	-999.00	
10	1.50	0.00	103.00	-999.00	-999.00	-999.00	44.50	0.00	99.40	99.20	45.10	0.00	-999.00	-999.00	
11	1.50	0.00	103.80	-999.00	-999.00	-999.00	44.80	0.00	99.60	99.30	45.70	0.00	-999.00	-999.00	
12	1.50	0.00	104.20	-999.00	-999.00	-999.00	44.80	0.00	99.60	99.30	45.30	0.00	-999.00	-999.00	
13	1.50	0.00	104.40	-999.00	-999.00	-999.00	45.60	0.00	99.80	99.40	45.50	0.00	-999.00	-999.00	
14	1.50	0.00	104.50	-999.00	-999.00	-999.00	39.00	0.00	99.90	99.40	39.70	0.00	-999.00	-999.00	
15	1.50	0.00	104.30	-999.00	-999.00	-999.00	44.50	0.00	100.00	99.40	46.50	0.00	-999.00	-999.00	
16	1.50	0.00	104.00	-999.00	-999.00	-999.00	45.10	0.00	100.00	99.40	49.80	0.00	-999.00	-999.00	
17	1.50	0.00	103.80	-999.00	-999.00	-999.00	47.40	0.00	100.10	99.60	49.70	0.00	-999.00	-999.00	
18	1.50	0.00	103.40	-999.00	-999.00	-999.00	45.00	0.00	99.90	99.50	49.80	0.00	-999.00	-999.00	
19	1.50	0.00	103.30	-999.00	-999.00	-999.00	45.10	0.00	99.80	99.50	49.30	0.00	-999.00	-999.00	
20	1.50	0.00	103.30	-999.00	-999.00	-999.00	44.80	0.00	100.10	99.60	49.90	0.00	-999.00	-999.00	
21	1.50	0.00	103.40	-999.00	-999.00	-999.00	35.00	0.00	100.20	99.50	44.70	0.00	-999.00	-999.00	
22	1.50	0.00	103.30	-999.00	-999.00	-999.00	28.20	0.00	100.00	99.50	38.10	0.00	-999.00	-999.00	
23	1.50	0.00	103.30	-999.00	-999.00	-999.00	18.70	0.00	99.80	99.70	19.50	0.00	-999.00	-999.00	
24	1.50	0.00	103.30	-999.00	-999.00	-999.00	15.20	0.00	99.80	99.60	14.70	0.00	-999.00	-999.00	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. OR FB	WA TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB	%SAT	
1	19.80	0.00	-999.00 -999.00	19.20	0.00	99.70 99.40	111.50	0.00	98.80	99.10	98.60	0.00	97.70		
2	19.70	0.00	-999.00 -999.00	18.60	0.00	99.60 99.40	111.50	0.00	98.70	99.10	98.60	0.00	97.70		
3	19.60	0.00	-999.00 -999.00	18.60	0.00	99.70 99.30	110.60	0.00	98.60	99.10	98.60	0.00	97.70		
4	19.70	0.00	-999.00 -999.00	18.60	0.00	99.70 99.40	110.60	0.00	98.60	99.00	98.60	0.00	97.80		
5	20.50	0.00	-999.00 -999.00	19.50	0.00	99.70 99.50	156.40	0.00	98.50	99.00	98.70	0.00	97.80		
6	34.40	0.00	-999.00 -999.00	29.50	0.00	99.70 99.30	157.40	0.00	98.60	98.80	98.70	0.00	97.60		
7	43.30	0.00	-999.00 -999.00	39.30	0.00	99.70 99.80	157.70	0.00	98.60	98.90	98.70	0.00	97.50		
8	43.40	0.00	-999.00 -999.00	39.80	0.00	99.70 99.50	160.20	0.00	98.80	98.90	98.60	0.00	97.50		
9	43.30	0.00	-999.00 -999.00	39.90	0.00	99.70 99.40	160.80	0.00	98.60	98.80	98.70	0.00	97.50		
10	48.90	0.00	-999.00 -999.00	49.60	0.00	99.80 99.40	144.20	0.00	98.70	98.80	98.60	0.00	97.50		
11	50.20	0.00	-999.00 -999.00	50.10	0.00	99.80 100.30	143.10	0.00	99.00	98.90	98.70	0.00	97.60		
12	50.10	0.00	-999.00 -999.00	50.10	0.00	99.90 99.70	143.60	0.00	99.20	99.00	98.80	0.00	97.70		
13	50.30	0.00	-999.00 -999.00	50.00	0.00	100.10 99.80	131.90	0.00	100.20	99.30	99.00	0.00	97.90		
14	43.60	0.00	-999.00 -999.00	44.10	0.00	100.10 99.80	131.80	0.00	100.80	99.10	98.90	0.00	98.10		
15	43.10	0.00	-999.00 -999.00	43.40	0.00	100.10 99.90	143.60	0.00	100.70	99.10	99.10	0.00	98.30		
16	49.80	0.00	-999.00 -999.00	42.60	0.00	100.00 99.70	145.40	0.00	99.90	99.20	99.00	0.00	98.50		
17	51.10	0.00	-999.00 -999.00	42.70	0.00	100.10 99.70	146.00	0.00	99.60	99.20	99.00	0.00	98.80		
18	50.20	0.00	-999.00 -999.00	50.50	0.00	100.00 99.60	137.10	0.00	99.20	99.20	99.00	0.00	98.80		
19	55.00	0.00	-999.00 -999.00	51.20	0.00	100.00 99.60	136.50	0.00	99.20	99.20	99.00	0.00	99.00		
20	55.10	0.00	-999.00 -999.00	50.90	0.00	100.20 99.70	136.70	0.00	99.10	99.40	99.10	0.00	99.10		
21	49.60	0.00	-999.00 -999.00	51.80	0.00	100.20 99.60	116.80	0.00	99.10	99.50	99.00	0.00	99.10		
22	48.70	0.00	-999.00 -999.00	50.40	0.00	100.10 99.60	107.40	0.00	98.90	99.40	99.00	0.00	99.10		
23	29.40	0.00	-999.00 -999.00	40.70	0.00	100.00 99.60	98.30	0.00	98.90	99.50	98.90	0.00	99.10		
24	19.00	0.00	-999.00 -999.00	24.30	0.00	100.00 99.60	97.80	0.00	98.90	99.40	98.90	0.00	98.80		

09 FEB 2003

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

09 FEB 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.			
1	1.50	0.00	103.40	-999.00	-999.00	-999.00	15.00	0.00	99.60	14.20	0.00	-999.00	-999.00	-999.00	-999.00
2	1.50	0.00	103.20	-999.00	-999.00	-999.00	14.20	0.00	99.60	12.80	0.00	-999.00	-999.00	-999.00	-999.00
3	1.50	0.00	103.20	-999.00	-999.00	-999.00	16.70	0.00	99.50	15.10	0.00	-999.00	-999.00	-999.00	-999.00
4	1.50	0.00	103.20	-999.00	-999.00	-999.00	17.20	0.00	99.50	15.00	0.00	-999.00	-999.00	-999.00	-999.00
5	1.50	0.00	103.20	-999.00	-999.00	-999.00	17.10	0.00	99.50	15.50	0.00	-999.00	-999.00	-999.00	-999.00
6	1.50	0.00	103.20	-999.00	-999.00	-999.00	34.30	0.00	99.60	18.50	0.00	-999.00	-999.00	-999.00	-999.00
7	1.50	0.00	103.20	-999.00	-999.00	-999.00	40.20	0.00	99.50	21.60	0.00	-999.00	-999.00	-999.00	-999.00
8	1.50	0.00	103.20	-999.00	-999.00	-999.00	41.00	0.00	99.60	44.20	0.00	-999.00	-999.00	-999.00	-999.00
9	1.50	0.00	103.60	-999.00	-999.00	-999.00	40.60	0.00	99.60	45.70	0.00	-999.00	-999.00	-999.00	-999.00
10	1.50	0.00	103.90	-999.00	-999.00	-999.00	40.50	0.00	99.50	40.40	0.00	-999.00	-999.00	-999.00	-999.00
11	1.50	0.00	104.20	-999.00	-999.00	-999.00	40.40	0.00	99.70	40.40	0.00	-999.00	-999.00	-999.00	-999.00
12	1.50	0.00	104.40	-999.00	-999.00	-999.00	40.60	0.00	99.80	45.00	0.00	-999.00	-999.00	-999.00	-999.00
13	1.50	0.00	104.70	-999.00	-999.00	-999.00	41.20	0.00	99.90	40.60	0.00	-999.00	-999.00	-999.00	-999.00
14	1.50	0.00	104.90	-999.00	-999.00	-999.00	40.60	0.00	100.00	39.70	0.00	-999.00	-999.00	-999.00	-999.00
15	1.50	0.00	105.00	-999.00	-999.00	-999.00	40.60	0.00	100.20	44.00	0.00	-999.00	-999.00	-999.00	-999.00
16	1.50	0.00	104.80	-999.00	-999.00	-999.00	40.60	0.00	100.30	39.80	0.00	-999.00	-999.00	-999.00	-999.00
17	1.50	0.00	104.50	-999.00	-999.00	-999.00	40.70	0.00	100.40	40.40	0.00	-999.00	-999.00	-999.00	-999.00
18	1.50	0.00	104.10	-999.00	-999.00	-999.00	43.70	0.00	100.50	42.20	0.00	-999.00	-999.00	-999.00	-999.00
19	1.50	0.00	103.80	-999.00	-999.00	-999.00	45.00	0.00	100.50	46.20	0.00	-999.00	-999.00	-999.00	-999.00
20	1.50	0.00	103.60	-999.00	-999.00	-999.00	49.00	0.00	100.60	49.70	0.00	-999.00	-999.00	-999.00	-999.00
21	1.50	0.00	103.50	-999.00	-999.00	-999.00	49.00	0.00	100.60	50.20	0.00	-999.00	-999.00	-999.00	-999.00
22	1.50	0.00	103.50	-999.00	-999.00	-999.00	33.00	0.00	100.50	33.80	0.00	-999.00	-999.00	-999.00	-999.00
23	1.50	0.00	103.60	-999.00	-999.00	-999.00	15.90	0.00	100.50	19.30	0.00	-999.00	-999.00	-999.00	-999.00
24	1.50	0.00	103.80	-999.00	-999.00	-999.00	3.10	0.00	100.40	16.80	0.00	-999.00	-999.00	-999.00	-999.00

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. WA FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB			
1	14.00	0.00	-999.00	12.00	0.00	99.90	100.30	0.00	98.90	98.90	0.00	98.90			98.70
2	14.80	0.00	-999.00	9.60	0.00	99.70	98.20	0.00	99.00	99.50	0.00	98.90			98.60
3	13.30	0.00	-999.00	9.40	0.00	99.70	105.70	0.00	98.90	99.50	0.00	98.90			98.60
4	13.30	0.00	-999.00	9.40	0.00	99.70	99.50	0.00	99.00	99.50	0.00	98.90			98.30
5	13.60	0.00	-999.00	9.30	0.00	99.70	91.10	0.00	98.80	99.40	0.00	98.90			98.30
6	13.60	0.00	-999.00	10.80	0.00	99.60	94.20	0.00	98.80	99.50	0.00	98.90			98.30
7	17.50	0.00	-999.00	11.60	0.00	99.60	108.30	0.00	98.80	99.40	0.00	98.90			98.30
8	18.80	0.00	-999.00	19.30	0.00	99.60	116.00	0.00	98.80	99.40	0.00	98.90			98.10
9	44.50	0.00	-999.00	20.40	0.00	99.70	115.60	0.00	98.80	99.40	0.00	98.90			97.90
10	49.30	0.00	-999.00	36.50	0.00	99.90	113.30	0.00	98.90	99.40	0.00	98.90			98.10
11	49.60	0.00	-999.00	51.00	0.00	100.20	120.30	0.00	99.40	99.40	0.00	99.10			98.20
12	49.40	0.00	-999.00	54.70	0.00	100.30	119.10	0.00	99.70	99.50	0.00	99.30			98.20
13	49.30	0.00	-999.00	52.10	0.00	100.30	119.40	0.00	100.70	99.50	0.00	99.40			98.50
14	49.00	0.00	-999.00	52.10	0.00	100.40	119.10	0.00	101.10	99.80	0.00	99.60			98.90
15	40.90	0.00	-999.00	49.80	0.00	100.60	112.10	0.00	100.70	99.80	0.00	99.70			99.20
16	40.70	0.00	-999.00	40.70	0.00	100.60	111.50	0.00	100.40	99.90	0.00	99.80			99.30
17	41.90	0.00	-999.00	40.30	0.00	100.70	131.90	0.00	100.40	100.00	0.00	99.90			99.70
18	41.00	0.00	-999.00	40.50	0.00	100.70	143.70	0.00	100.20	100.10	0.00	99.90			99.70
19	41.50	0.00	-999.00	37.50	0.00	100.70	143.20	0.00	100.20	100.10	0.00	99.80			99.50
20	48.80	0.00	-999.00	47.10	0.00	100.70	145.30	0.00	100.00	100.30	0.00	99.80			99.70
21	48.30	0.00	-999.00	47.30	0.00	100.60	142.70	0.00	99.80	100.20	0.00	99.70			99.60
22	34.00	0.00	-999.00	33.60	0.00	100.50	108.30	0.00	99.70	100.10	0.00	99.50			99.30
23	32.50	0.00	-999.00	32.20	0.00	100.30	93.20	0.00	99.50	100.00	0.00	99.40			99.40
24	32.40	0.00	-999.00	31.50	0.00	100.20	85.10	0.00	99.40	99.80	0.00	99.30			99.30

10 FEB 2003

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

10 FEB 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	LOWER GRANITE	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.		
1	1.50	0.00	103.60	-999.00	-999.00	-999.00	0.00	0.00	100.20	101.00	16.60	0.00	-999.00	-999.00	
2	1.50	0.00	103.90	-999.00	-999.00	-999.00	1.70	0.00	100.20	100.60	16.90	0.00	-999.00	-999.00	
3	1.50	0.00	104.40	-999.00	-999.00	-999.00	16.80	0.00	100.10	100.40	18.00	0.00	-999.00	-999.00	
4	1.50	0.00	104.30	-999.00	-999.00	-999.00	17.80	0.00	100.00	100.10	18.10	0.00	-999.00	-999.00	
5	1.30	0.00	104.20	-999.00	-999.00	-999.00	17.40	0.00	99.90	100.00	18.10	0.00	-999.00	-999.00	
6	1.50	0.00	104.50	-999.00	-999.00	-999.00	17.50	0.00	99.80	99.80	18.50	0.00	-999.00	-999.00	
7	1.50	0.00	105.70	-999.00	-999.00	-999.00	18.10	0.00	99.70	99.70	18.10	0.00	-999.00	-999.00	
8	1.50	0.00	104.90	-999.00	-999.00	-999.00	29.00	0.00	99.70	99.60	18.10	0.00	-999.00	-999.00	
9	1.50	0.00	104.90	-999.00	-999.00	-999.00	30.20	0.00	99.70	99.60	18.40	0.00	-999.00	-999.00	
10	1.40	0.00	105.00	-999.00	-999.00	-999.00	29.50	0.00	99.70	99.60	29.00	0.00	-999.00	-999.00	
11	1.40	0.00	105.30	-999.00	-999.00	-999.00	29.70	0.00	99.80	99.60	30.40	0.00	-999.00	-999.00	
12	1.50	0.00	105.80	-999.00	-999.00	-999.00	29.70	0.00	100.30	99.60	31.50	0.00	-999.00	-999.00	
13	1.40	0.00	105.90	-999.00	-999.00	-999.00	32.90	0.00	100.90	99.60	30.10	0.00	-999.00	-999.00	
14	1.50	0.00	106.00	-999.00	-999.00	-999.00	32.60	0.00	100.50	99.80	30.00	0.00	-999.00	-999.00	
15	1.50	0.00	105.70	-999.00	-999.00	-999.00	33.90	0.00	100.40	99.90	27.00	0.00	-999.00	-999.00	
16	1.40	0.00	105.60	-999.00	-999.00	-999.00	34.10	0.00	100.10	99.90	30.30	0.00	-999.00	-999.00	
17	1.50	0.00	105.10	-999.00	-999.00	-999.00	35.60	0.00	99.90	100.00	36.10	0.00	-999.00	-999.00	
18	1.50	0.00	105.00	-999.00	-999.00	-999.00	34.40	0.00	99.90	99.90	36.00	0.00	-999.00	-999.00	
19	1.40	0.00	104.70	-999.00	-999.00	-999.00	34.10	0.00	99.90	99.90	37.10	0.00	-999.00	-999.00	
20	1.50	0.00	104.50	-999.00	-999.00	-999.00	34.00	0.00	100.00	99.90	36.20	0.00	-999.00	-999.00	
21	1.40	0.00	104.50	-999.00	-999.00	-999.00	31.00	0.00	100.10	99.90	36.90	0.00	-999.00	-999.00	
22	1.50	0.00	104.70	-999.00	-999.00	-999.00	15.80	0.00	100.20	99.90	16.00	0.00	-999.00	-999.00	
23	1.50	0.00	104.60	-999.00	-999.00	-999.00	14.60	0.00	100.10	99.90	14.40	0.00	-999.00	-999.00	
24	1.50	0.00	104.60	-999.00	-999.00	-999.00	0.40	0.00	100.00	99.90	0.10	0.00	-999.00	-999.00	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB	WA TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB	GAS %SAT	
1	32.40	0.00	-999.00	-999.00	31.40	0.00	100.00	99.70	0.00	99.30	99.60	99.10	0.00	99.10	
2	32.00	0.00	-999.00	-999.00	31.20	0.00	99.90	99.60	0.00	99.20	99.50	99.10	0.00	99.00	
3	19.10	0.00	-999.00	-999.00	19.60	0.00	99.80	99.40	0.00	99.20	99.40	99.10	0.00	98.80	
4	17.90	0.00	-999.00	-999.00	19.20	0.00	99.80	99.40	0.00	99.00	99.20	99.00	0.00	98.60	
5	17.90	0.00	-999.00	-999.00	18.80	0.00	99.70	99.30	0.00	98.90	99.10	98.80	0.00	98.60	
6	17.90	0.00	-999.00	-999.00	18.90	0.00	99.50	99.30	0.00	98.80	99.20	98.70	0.00	98.30	
7	17.90	0.00	-999.00	-999.00	18.90	0.00	99.40	99.20	0.00	98.70	99.10	98.80	0.00	98.00	
8	18.20	0.00	-999.00	-999.00	20.40	0.00	99.30	99.00	0.00	98.60	99.00	98.70	0.00	97.70	
9	17.90	0.00	-999.00	-999.00	19.20	0.00	99.30	99.10	0.00	98.90	99.00	98.70	0.00	97.60	
10	18.00	0.00	-999.00	-999.00	20.50	0.00	99.50	99.20	0.00	98.80	99.10	98.80	0.00	97.60	
11	18.50	0.00	-999.00	-999.00	19.00	0.00	99.50	100.00	0.00	99.50	99.10	98.80	0.00	98.20	
12	28.50	0.00	-999.00	-999.00	18.90	0.00	99.50	99.60	0.00	100.30	99.20	98.90	0.00	98.10	
13	29.10	0.00	-999.00	-999.00	19.10	0.00	99.70	100.50	0.00	100.70	0.00	99.20	0.00	98.30	
14	29.60	0.00	-999.00	-999.00	20.00	0.00	99.70	100.30	0.00	100.40	99.60	99.30	0.00	98.70	
15	34.60	0.00	-999.00	-999.00	29.50	0.00	99.80	100.10	0.00	100.20	99.80	99.20	0.00	99.00	
16	36.40	0.00	-999.00	-999.00	29.90	0.00	99.80	100.10	0.00	100.70	99.90	99.10	0.00	99.40	
17	35.00	0.00	-999.00	-999.00	30.30	0.00	99.90	99.90	0.00	100.80	99.90	99.20	0.00	99.50	
18	35.00	0.00	-999.00	-999.00	34.40	0.00	99.90	99.50	0.00	99.70	99.90	99.00	0.00	99.70	
19	35.50	0.00	-999.00	-999.00	34.70	0.00	100.00	99.50	0.00	99.60	100.00	99.00	0.00	99.70	
20	34.80	0.00	-999.00	-999.00	35.30	0.00	100.20	99.40	0.00	99.80	100.00	99.00	0.00	99.80	
21	34.00	0.00	-999.00	-999.00	34.10	0.00	100.20	99.40	0.00	99.80	100.00	99.10	0.00	99.70	
22	15.90	0.00	-999.00	-999.00	18.40	0.00	99.90	99.40	0.00	99.60	100.00	99.00	0.00	99.70	
23	15.20	0.00	-999.00	-999.00	17.60	0.00	99.80	99.40	0.00	99.60	100.10	99.00	0.00	99.50	
24	16.80	0.00	-999.00	-999.00	17.70	0.00	99.80	99.40	0.00	99.30	100.10	98.90	0.00	99.50	

11 FEB 2003

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

11 FEB 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.			
	KCFS	KCFS	TAILW.	%SAT	%SAT	%SAT	KCFS	KCFS	FB TAILW.	KCFS	KCFS	%SAT	TAILW.		
1	1.50	0.00	104.50	-999.00	-999.00	-999.00	0.00	0.00	100.10	0.10	0.00	-999.00	-999.00		
2	1.40	0.00	104.30	-999.00	-999.00	-999.00	0.00	0.00	100.00	0.10	0.00	-999.00	-999.00		
3	1.50	0.00	104.40	-999.00	-999.00	-999.00	1.30	0.00	100.00	0.10	0.00	-999.00	-999.00		
4	1.50	0.00	104.40	-999.00	-999.00	-999.00	13.40	0.00	100.00	1.00	0.00	-999.00	-999.00		
5	1.50	0.00	104.10	-999.00	-999.00	-999.00	15.50	0.00	99.90	14.10	0.00	-999.00	-999.00		
6	1.50	0.00	103.90	-999.00	-999.00	-999.00	30.60	0.00	99.90	28.30	0.00	-999.00	-999.00		
7	1.50	0.00	103.90	-999.00	-999.00	-999.00	34.00	0.00	99.90	34.10	0.00	-999.00	-999.00		
8	1.50	0.00	103.60	-999.00	-999.00	-999.00	42.60	0.00	99.90	34.00	0.00	-999.00	-999.00		
9	1.50	0.00	103.20	-999.00	-999.00	-999.00	47.00	0.00	99.80	47.30	0.00	-999.00	-999.00		
10	1.50	0.00	103.20	-999.00	-999.00	-999.00	46.30	0.00	99.90	47.10	0.00	-999.00	-999.00		
11	1.50	0.00	103.30	-999.00	-999.00	-999.00	48.70	0.00	100.00	50.30	0.00	-999.00	-999.00		
12	1.40	0.00	104.50	-999.00	-999.00	-999.00	51.20	0.00	100.20	50.70	0.00	-999.00	-999.00		
13	1.50	0.00	106.40	-999.00	-999.00	-999.00	51.50	0.00	100.30	51.60	0.00	-999.00	-999.00		
14	1.50	0.00	107.30	-999.00	-999.00	-999.00	51.90	0.00	100.40	51.90	0.00	-999.00	-999.00		
15	1.50	0.00	107.70	-999.00	-999.00	-999.00	51.60	0.00	100.40	63.80	0.00	-999.00	-999.00		
16	1.50	0.00	107.40	-999.00	-999.00	-999.00	49.60	0.00	100.30	63.70	0.00	-999.00	-999.00		
17	1.50	0.00	105.50	-999.00	-999.00	-999.00	47.10	0.00	100.40	52.80	0.00	-999.00	-999.00		
18	1.50	0.00	104.20	-999.00	-999.00	-999.00	48.80	0.00	100.40	50.70	0.00	-999.00	-999.00		
19	1.50	0.00	103.50	-999.00	-999.00	-999.00	47.80	0.00	100.30	50.80	0.00	-999.00	-999.00		
20	1.50	0.00	103.20	-999.00	-999.00	-999.00	38.20	0.00	100.40	50.70	0.00	-999.00	-999.00		
21	1.50	0.00	103.20	-999.00	-999.00	-999.00	32.50	0.00	100.40	50.30	0.00	-999.00	-999.00		
22	1.50	0.00	103.20	-999.00	-999.00	-999.00	26.70	0.00	100.40	33.40	0.00	-999.00	-999.00		
23	1.50	0.00	103.10	-999.00	-999.00	-999.00	16.10	0.00	100.50	14.60	0.00	-999.00	-999.00		
24	1.50	0.00	103.10	-999.00	-999.00	-999.00	14.10	0.00	100.40	13.70	0.00	-999.00	-999.00		

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT
	KCFS	KCFS	TAILW.	KCFS	KCFS	TAILW.	KCFS	KCFS	FB TAILW.	KCFS	KCFS	FB	FB		SAT
1	15.00	0.00	-999.00	17.90	0.00	99.60	75.30	0.00	99.30	98.80	0.00	99.40			
2	13.50	0.00	-999.00	12.50	0.00	99.60	75.20	0.00	99.30	98.90	0.00	99.20			
3	13.40	0.00	-999.00	11.50	0.00	99.60	75.70	0.00	99.10	98.80	0.00	99.10			
4	13.40	0.00	-999.00	11.70	0.00	99.50	94.40	0.00	99.20	98.90	0.00	99.00			
5	14.20	0.00	-999.00	11.70	0.00	99.50	116.40	0.00	99.20	98.90	0.00	98.70			
6	29.80	0.00	-999.00	31.10	0.00	99.50	117.80	0.00	99.30	98.90	0.00	98.60			
7	34.00	0.00	-999.00	35.20	0.00	98.80	136.00	0.00	99.20	99.00	0.00	98.40			
8	33.70	0.00	-999.00	35.00	0.00	100.40	137.70	0.00	99.10	98.80	0.00	98.20			
9	34.40	0.00	-999.00	35.60	0.00	101.20	137.70	0.00	99.10	99.00	0.00	97.90			
10	47.40	0.00	-999.00	35.00	0.00	100.90	137.30	0.00	99.00	99.00	0.00	97.80			
11	51.80	0.00	-999.00	37.70	0.00	100.40	140.10	0.00	99.20	100.00	0.00	97.80			
12	51.40	0.00	-999.00	50.30	0.00	100.00	140.40	0.00	100.30	100.10	0.00	97.90			
13	50.80	0.00	-999.00	50.50	0.00	100.10	140.20	0.00	100.50	100.20	0.00	98.00			
14	50.30	0.00	-999.00	51.60	0.50	100.20	140.20	0.00	100.70	100.30	0.00	98.10			
15	50.90	0.00	-999.00	50.70	0.20	102.20	139.90	0.00	100.30	99.60	0.00	98.20			
16	63.60	0.00	-999.00	50.60	0.10	100.80	133.30	0.00	100.10	100.30	0.00	98.40			
17	64.20	0.00	-999.00	50.40	0.00	100.50	133.50	0.00	99.90	100.30	0.00	98.70			
18	52.40	0.00	-999.00	50.30	0.00	100.30	151.50	0.00	99.80	100.20	0.00	98.80			
19	50.80	0.00	-999.00	51.30	0.00	100.20	152.10	0.00	99.80	100.30	0.00	98.80			
20	50.70	0.00	-999.00	50.60	0.00	100.30	142.10	0.00	99.80	100.30	0.00	98.80			
21	50.60	0.00	-999.00	50.50	0.00	100.00	122.60	0.00	99.70	100.20	0.00	99.00			
22	50.10	0.00	-999.00	49.90	0.00	99.80	101.90	0.00	99.70	100.20	0.00	98.90			
23	31.50	0.00	-999.00	37.80	0.00	99.80	85.20	0.00	99.70	100.20	0.00	99.10			
24	14.60	0.00	-999.00	21.40	0.00	99.90	84.50	0.00	99.50	100.20	0.00	98.90			

12 FEB 2003

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

12 FEB 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.			
1	1.50	0.00	102.90	-999.00	-999.00	-999.00	13.80	0.00	100.40	12.80	0.00	-999.00	-999.00	-999.00	-999.00
2	1.50	0.00	102.90	-999.00	-999.00	-999.00	13.70	0.00	100.50	0.10	0.00	-999.00	-999.00	-999.00	-999.00
3	1.50	0.00	102.90	-999.00	-999.00	-999.00	13.80	0.00	100.40	0.10	0.00	-999.00	-999.00	-999.00	-999.00
4	1.50	0.00	102.70	-999.00	-999.00	-999.00	14.00	0.00	100.40	0.40	0.00	-999.00	-999.00	-999.00	-999.00
5	1.50	0.00	102.80	-999.00	-999.00	-999.00	14.40	0.00	100.30	13.80	0.00	-999.00	-999.00	-999.00	-999.00
6	1.50	0.00	102.80	-999.00	-999.00	-999.00	26.70	0.00	100.30	28.30	0.00	-999.00	-999.00	-999.00	-999.00
7	1.50	0.00	102.60	-999.00	-999.00	-999.00	38.20	0.00	100.30	38.20	0.00	-999.00	-999.00	-999.00	-999.00
8	1.50	0.00	102.90	-999.00	-999.00	-999.00	38.70	0.00	100.30	43.20	0.00	-999.00	-999.00	-999.00	-999.00
9	1.50	0.00	103.20	-999.00	-999.00	-999.00	39.50	0.00	100.30	38.90	0.00	-999.00	-999.00	-999.00	-999.00
10	1.50	0.00	103.60	-999.00	-999.00	-999.00	39.00	0.00	100.40	39.30	0.00	-999.00	-999.00	-999.00	-999.00
11	1.50	0.00	103.80	-999.00	-999.00	-999.00	39.00	0.00	100.60	41.20	0.00	-999.00	-999.00	-999.00	-999.00
12	1.50	0.00	104.10	-999.00	-999.00	-999.00	38.70	0.00	100.70	41.60	0.00	-999.00	-999.00	-999.00	-999.00
13	1.50	0.00	104.50	-999.00	-999.00	-999.00	38.60	0.00	100.80	42.20	0.00	-999.00	-999.00	-999.00	-999.00
14	1.50	0.00	104.80	-999.00	-999.00	-999.00	39.30	0.00	101.30	42.30	0.00	-999.00	-999.00	-999.00	-999.00
15	1.50	0.00	104.90	-999.00	-999.00	-999.00	38.60	0.00	101.40	43.00	0.00	-999.00	-999.00	-999.00	-999.00
16	1.50	0.00	105.00	-999.00	-999.00	-999.00	38.30	0.00	101.40	42.00	0.00	-999.00	-999.00	-999.00	-999.00
17	1.50	0.00	104.80	-999.00	-999.00	-999.00	38.40	0.00	101.40	41.60	0.00	-999.00	-999.00	-999.00	-999.00
18	1.50	0.00	105.00	-999.00	-999.00	-999.00	39.70	0.00	101.30	41.20	0.00	-999.00	-999.00	-999.00	-999.00
19	1.50	0.00	105.00	-999.00	-999.00	-999.00	26.70	0.00	101.30	37.20	0.00	-999.00	-999.00	-999.00	-999.00
20	1.50	0.00	105.00	-999.00	-999.00	-999.00	25.50	0.00	101.30	33.50	0.00	-999.00	-999.00	-999.00	-999.00
21	1.50	0.00	105.00	-999.00	-999.00	-999.00	16.80	0.00	101.40	33.50	0.00	-999.00	-999.00	-999.00	-999.00
22	1.50	0.00	104.90	-999.00	-999.00	-999.00	15.70	0.00	101.40	25.10	0.00	-999.00	-999.00	-999.00	-999.00
23	1.50	0.00	104.50	-999.00	-999.00	-999.00	2.40	0.00	101.50	0.00	0.00	-999.00	-999.00	-999.00	-999.00
24	1.60	0.00	104.20	-999.00	-999.00	-999.00	0.00	0.00	101.60	1.50	0.00	-999.00	-999.00	-999.00	-999.00

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL OR KCFS	GAS %SAT. WA FB	GAS %SAT. FB		
1	13.50	0.00	-999.00	-999.00	10.50	0.00	99.90	99.30	84.60	0.00	99.50	100.20	99.30	98.80	
2	13.40	0.00	-999.00	-999.00	9.30	0.00	99.90	99.20	80.60	0.00	99.40	100.10	99.10	98.70	
3	13.40	0.00	-999.00	-999.00	9.30	0.00	99.80	99.10	83.60	0.00	99.40	100.10	99.10	98.60	
4	13.40	0.00	-999.00	-999.00	9.30	0.00	99.70	99.10	84.60	0.00	99.40	100.10	99.00	98.50	
5	14.20	0.00	-999.00	-999.00	10.20	0.00	99.80	99.10	102.60	0.00	99.40	100.10	99.10	98.30	
6	26.60	0.00	-999.00	-999.00	23.80	0.00	99.80	99.00	114.80	0.00	99.40	100.10	99.20	98.30	
7	38.50	0.00	-999.00	-999.00	36.90	0.00	99.70	99.00	124.90	0.00	99.40	99.90	99.30	98.00	
8	39.00	0.00	-999.00	-999.00	37.50	0.00	99.70	99.10	125.30	0.00	99.40	99.90	99.10	97.80	
9	39.00	0.00	-999.00	-999.00	37.60	0.00	99.80	99.10	125.20	0.00	99.40	99.90	99.10	97.70	
10	39.00	0.00	-999.00	-999.00	39.00	0.00	99.90	99.20	124.80	0.00	99.50	99.90	99.10	97.70	
11	41.10	0.00	-999.00	-999.00	38.20	0.00	100.20	99.40	125.20	0.00	99.80	99.90	99.30	97.70	
12	39.00	0.00	-999.00	-999.00	37.60	0.00	101.10	100.10	125.20	0.00	100.40	100.10	99.40	97.80	
13	39.90	0.00	-999.00	-999.00	37.50	0.00	101.20	99.90	126.10	0.00	101.00	100.30	99.60	97.90	
14	38.30	0.00	-999.00	-999.00	37.10	0.00	102.20	100.00	127.30	0.00	101.10	100.40	99.80	98.00	
15	38.20	0.00	-999.00	-999.00	38.70	0.00	102.70	99.90	126.60	0.00	100.80	100.60	99.90	98.20	
16	40.10	0.00	-999.00	-999.00	38.00	0.00	101.30	99.90	125.10	0.00	100.60	100.70	99.80	98.40	
17	37.80	0.00	-999.00	-999.00	37.40	0.00	100.70	100.50	126.80	0.00	100.60	100.70	99.80	98.60	
18	37.90	0.00	-999.00	-999.00	37.60	0.00	100.80	99.90	127.90	0.00	100.50	100.70	99.90	99.00	
19	37.70	0.00	-999.00	-999.00	39.10	0.00	100.70	99.90	127.30	0.00	100.50	100.80	99.80	99.10	
20	39.10	0.00	-999.00	-999.00	37.60	0.00	100.70	99.80	117.50	0.00	100.40	100.90	99.80	99.30	
21	37.60	0.00	-999.00	-999.00	38.00	0.00	100.50	100.60	97.90	0.00	100.30	101.00	99.90	99.40	
22	37.50	0.00	-999.00	-999.00	36.20	0.00	100.40	99.90	84.70	0.00	100.50	101.00	99.90	99.60	
23	14.10	0.00	-999.00	-999.00	20.30	0.00	100.50	99.80	75.80	0.00	100.40	101.10	99.90	99.60	
24	12.80	0.00	-999.00	-999.00	16.80	0.00	100.50	99.80	75.00	0.00	100.40	101.20	100.00	99.60	

13 FEB 2003

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

13 FEB 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.			
1	1.50	0.00	104.20	-999.00	-999.00	-999.00	0.00	0.00	101.40	101.20	0.00	0.00	-999.00	-999.00	-999.00
2	1.50	0.00	106.60	-999.00	-999.00	-999.00	0.00	0.00	101.60	101.30	0.00	0.00	-999.00	-999.00	-999.00
3	1.50	0.00	106.80	-999.00	-999.00	-999.00	0.00	0.00	101.60	101.30	0.00	0.00	-999.00	-999.00	-999.00
4	1.50	0.00	106.50	-999.00	-999.00	-999.00	1.40	0.00	101.70	101.20	0.00	0.00	-999.00	-999.00	-999.00
5	1.50	0.00	106.60	-999.00	-999.00	-999.00	17.00	0.00	101.70	101.50	17.20	0.00	-999.00	-999.00	-999.00
6	1.50	0.00	106.70	-999.00	-999.00	-999.00	33.20	0.00	101.70	101.80	26.40	0.00	-999.00	-999.00	-999.00
7	1.50	0.00	106.20	-999.00	-999.00	-999.00	37.10	0.00	101.70	101.50	29.70	0.00	-999.00	-999.00	-999.00
8	1.50	0.00	105.20	-999.00	-999.00	-999.00	37.60	0.00	101.60	101.50	32.80	0.00	-999.00	-999.00	-999.00
9	1.50	0.00	105.00	-999.00	-999.00	-999.00	38.80	0.00	101.60	101.50	34.10	0.00	-999.00	-999.00	-999.00
10	1.50	0.00	105.00	-999.00	-999.00	-999.00	38.50	0.00	101.60	101.50	33.20	0.00	-999.00	-999.00	-999.00
11	1.40	0.00	105.20	-999.00	-999.00	-999.00	38.70	0.00	101.60	101.50	33.60	0.00	-999.00	-999.00	-999.00
12	1.50	0.00	105.30	-999.00	-999.00	-999.00	38.90	0.00	101.70	101.60	35.40	0.00	-999.00	-999.00	-999.00
13	1.50	0.00	105.50	-999.00	-999.00	-999.00	46.30	0.00	101.70	101.60	34.80	0.00	-999.00	-999.00	-999.00
14	1.50	0.00	105.20	-999.00	-999.00	-999.00	46.50	0.00	101.80	101.50	44.50	0.00	-999.00	-999.00	-999.00
15	1.50	0.00	105.20	-999.00	-999.00	-999.00	47.30	0.00	101.80	101.50	44.80	0.00	-999.00	-999.00	-999.00
16	1.50	0.00	105.10	-999.00	-999.00	-999.00	46.60	0.00	101.70	101.50	45.00	0.00	-999.00	-999.00	-999.00
17	1.50	0.00	104.70	-999.00	-999.00	-999.00	46.70	0.00	101.70	101.50	45.80	0.00	-999.00	-999.00	-999.00
18	1.50	0.00	104.50	-999.00	-999.00	-999.00	48.50	0.00	101.50	101.40	44.80	0.00	-999.00	-999.00	-999.00
19	1.50	0.00	104.50	-999.00	-999.00	-999.00	47.10	0.00	101.50	101.40	45.10	0.00	-999.00	-999.00	-999.00
20	1.50	0.00	104.30	-999.00	-999.00	-999.00	48.30	0.00	101.60	101.30	46.70	0.00	-999.00	-999.00	-999.00
21	1.50	0.00	104.30	-999.00	-999.00	-999.00	46.40	0.00	101.60	101.30	45.10	0.00	-999.00	-999.00	-999.00
22	1.40	0.00	104.10	-999.00	-999.00	-999.00	15.60	0.00	101.60	101.40	44.50	0.00	-999.00	-999.00	-999.00
23	1.50	0.00	104.10	-999.00	-999.00	-999.00	0.00	0.00	101.50	101.30	2.10	0.00	-999.00	-999.00	-999.00
24	1.50	0.00	104.20	-999.00	-999.00	-999.00	0.00	0.00	101.40	101.30	0.00	0.00	-999.00	-999.00	-999.00

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.			
1	0.10	0.00	-999.00	-999.00	9.60	0.00	100.50	99.70	74.80	0.00	100.50	101.00	100.00		99.50
2	0.10	0.00	-999.00	-999.00	9.90	0.00	100.40	99.80	70.90	0.00	100.30	101.00	100.00		99.40
3	0.10	0.00	-999.00	-999.00	9.80	0.00	100.50	99.80	74.20	0.00	100.40	101.10	100.10		99.40
4	0.90	0.00	-999.00	-999.00	11.30	0.00	100.50	99.90	84.30	0.00	100.50	101.20	100.30		99.30
5	18.10	0.00	-999.00	-999.00	9.90	0.00	100.50	99.90	94.30	0.00	100.50	101.10	100.30		99.20
6	17.20	0.00	-999.00	-999.00	9.90	0.00	100.60	99.90	100.40	0.00	100.50	101.20	100.30		99.10
7	26.10	0.00	-999.00	-999.00	10.70	0.00	100.60	99.90	110.80	0.00	100.40	101.20	100.30		99.00
8	32.20	0.00	-999.00	-999.00	21.40	0.00	100.50	99.90	129.20	0.00	100.40	101.20	100.30		99.00
9	33.20	0.00	-999.00	-999.00	23.70	0.00	100.70	100.30	131.10	0.00	100.40	101.20	100.30		98.80
10	34.20	0.00	-999.00	-999.00	21.70	0.00	100.70	100.50	142.00	0.00	100.50	101.10	100.30		98.70
11	32.90	0.00	-999.00	-999.00	22.00	0.00	100.70	100.40	142.70	0.00	100.60	101.10	100.30		98.70
12	32.90	0.00	-999.00	-999.00	22.10	0.00	100.70	100.40	143.50	0.00	100.60	101.20	100.30		98.70
13	33.20	0.00	-999.00	-999.00	34.00	0.00	100.70	100.20	145.90	0.00	100.70	101.20	100.30		98.80
14	39.90	0.00	-999.00	-999.00	34.80	0.00	100.70	100.20	146.40	0.00	101.00	101.20	100.30		98.80
15	40.10	0.00	-999.00	-999.00	39.10	0.00	100.90	100.10	146.20	0.00	100.90	101.20	100.30		98.80
16	48.60	0.00	-999.00	-999.00	40.30	0.00	100.80	100.00	147.30	0.00	100.90	101.20	100.30		98.70
17	48.00	0.00	-999.00	-999.00	43.70	0.00	100.80	100.00	147.80	0.00	100.80	101.20	100.30		98.70
18	47.80	0.00	-999.00	-999.00	44.10	0.00	100.60	100.30	147.50	0.00	100.80	101.10	100.30		98.70
19	47.80	0.00	-999.00	-999.00	44.10	0.00	100.60	100.00	147.90	0.00	100.70	101.10	100.20		98.70
20	48.40	0.00	-999.00	-999.00	44.20	0.00	100.60	99.90	149.30	0.00	100.60	101.10	100.10		98.60
21	48.50	0.00	-999.00	-999.00	44.20	0.00	100.40	99.90	149.10	0.00	100.50	101.00	100.00		98.50
22	48.40	0.00	-999.00	-999.00	44.50	0.00	100.40	99.90	113.60	0.00	100.50	100.90	100.00		98.40
23	19.30	0.00	-999.00	-999.00	29.10	0.00	100.30	99.70	77.10	0.00	100.40	100.80	100.00		98.50
24	1.70	0.00	-999.00	-999.00	13.60	0.00	100.30	99.70	58.80	0.00	100.40	100.80	99.90		98.40

14 FEB 2003

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

14 FEB 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	LOWER GRANITE	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.		
1	1.50	0.00	104.10	-999.00	-999.00	-999.00	0.00	0.00	101.40	101.20	0.00	0.00	-999.00	-999.00	
2	1.40	0.00	104.20	-999.00	-999.00	-999.00	0.00	0.00	101.20	101.20	0.00	0.00	-999.00	-999.00	
3	1.50	0.00	104.20	-999.00	-999.00	-999.00	0.00	0.00	101.30	101.20	0.00	0.00	-999.00	-999.00	
4	1.50	0.00	104.10	-999.00	-999.00	-999.00	0.00	0.00	101.20	101.20	0.00	0.00	-999.00	-999.00	
5	1.50	0.00	105.70	-999.00	-999.00	-999.00	1.10	0.00	101.10	101.10	0.30	0.00	-999.00	-999.00	
6	1.50	0.00	106.20	-999.00	-999.00	-999.00	16.50	0.00	101.10	101.20	16.80	0.00	-999.00	-999.00	
7	1.50	0.00	104.90	-999.00	-999.00	-999.00	32.10	0.00	101.00	101.40	33.10	0.00	-999.00	-999.00	
8	1.50	0.00	104.20	-999.00	-999.00	-999.00	32.80	0.00	101.00	101.00	33.10	0.00	-999.00	-999.00	
9	1.50	0.00	104.00	-999.00	-999.00	-999.00	33.10	0.00	100.90	100.90	33.30	0.00	-999.00	-999.00	
10	1.50	0.00	104.00	-999.00	-999.00	-999.00	33.10	0.00	100.90	100.90	33.30	0.00	-999.00	-999.00	
11	1.50	0.00	104.30	-999.00	-999.00	-999.00	33.80	0.00	100.80	100.80	33.80	0.00	-999.00	-999.00	
12	1.40	0.00	104.60	-999.00	-999.00	-999.00	33.40	0.00	100.90	100.90	33.10	0.00	-999.00	-999.00	
13	1.50	0.00	104.90	-999.00	-999.00	-999.00	33.20	0.00	100.90	100.90	33.20	0.00	-999.00	-999.00	
14	1.50	0.00	105.00	-999.00	-999.00	-999.00	33.00	0.00	100.90	100.90	33.10	0.00	-999.00	-999.00	
15	1.40	0.00	104.80	-999.00	-999.00	-999.00	33.30	0.00	100.80	100.80	33.10	0.00	-999.00	-999.00	
16	1.50	0.00	104.50	-999.00	-999.00	-999.00	34.60	0.00	100.80	100.80	33.60	0.00	-999.00	-999.00	
17	1.50	0.00	104.20	-999.00	-999.00	-999.00	47.50	0.00	100.80	100.70	33.10	0.00	-999.00	-999.00	
18	1.50	0.00	104.10	-999.00	-999.00	-999.00	48.40	0.00	100.80	100.70	33.50	0.00	-999.00	-999.00	
19	1.50	0.00	103.80	-999.00	-999.00	-999.00	48.30	0.00	100.80	100.70	43.30	0.00	-999.00	-999.00	
20	1.50	0.00	103.90	-999.00	-999.00	-999.00	45.40	0.00	100.80	100.70	43.00	0.00	-999.00	-999.00	
21	1.50	0.00	103.90	-999.00	-999.00	-999.00	44.20	0.00	100.70	100.70	42.30	0.00	-999.00	-999.00	
22	1.50	0.00	103.80	-999.00	-999.00	-999.00	28.60	0.00	101.00	100.70	41.80	0.00	-999.00	-999.00	
23	1.50	0.00	103.70	-999.00	-999.00	-999.00	26.30	0.00	101.00	100.80	30.10	0.00	-999.00	-999.00	
24	1.50	0.00	103.70	-999.00	-999.00	-999.00	0.00	0.00	101.00	100.60	25.60	0.00	-999.00	-999.00	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB	WA TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB	GAS %SAT	
1	0.30	0.00	-999.00	-999.00	13.00	0.00	100.30	99.60	58.10	0.00	100.50	100.80	99.90	0.00	98.30
2	0.30	0.00	-999.00	-999.00	13.10	0.00	100.30	99.60	58.70	0.00	100.50	100.80	99.90	0.00	98.20
3	0.30	0.00	-999.00	-999.00	13.30	0.00	100.30	99.60	75.00	0.00	100.50	100.80	100.00	0.00	98.00
4	0.30	0.00	-999.00	-999.00	14.60	0.00	100.20	99.70	76.20	0.00	100.40	100.70	100.00	0.00	98.00
5	2.60	0.00	-999.00	-999.00	13.10	0.00	100.20	99.70	76.80	0.00	100.40	100.60	99.90	0.00	97.90
6	16.50	0.00	-999.00	-999.00	14.50	0.00	100.10	99.40	81.90	0.00	100.30	100.60	100.00	0.00	97.70
7	32.10	0.00	-999.00	-999.00	12.80	0.00	100.00	99.40	116.10	0.00	100.00	100.50	99.80	0.00	97.70
8	32.60	0.00	-999.00	-999.00	12.90	0.00	100.00	99.30	118.60	0.00	99.90	100.40	99.60	0.00	97.60
9	33.30	0.00	-999.00	-999.00	13.10	0.00	99.90	100.00	132.30	0.00	99.90	100.40	99.60	0.00	97.50
10	32.80	0.00	-999.00	-999.00	25.10	0.00	100.00	99.40	137.30	0.00	100.00	100.30	99.60	0.00	97.50
11	32.80	0.00	-999.00	-999.00	26.00	0.00	99.90	99.40	142.70	0.00	99.90	100.30	99.60	0.00	97.40
12	32.80	0.00	-999.00	-999.00	30.70	0.00	100.00	99.60	142.80	0.00	100.10	100.40	99.80	0.00	97.50
13	32.80	0.00	-999.00	-999.00	31.80	0.00	100.00	99.50	143.70	0.00	101.40	100.50	100.10	0.00	97.70
14	32.90	0.00	-999.00	-999.00	31.10	0.00	100.00	99.60	149.10	0.00	101.10	100.50	100.00	0.00	97.80
15	33.40	0.00	-999.00	-999.00	31.10	0.00	100.10	99.50	149.20	0.00	100.90	100.50	100.00	0.00	97.90
16	32.90	0.00	-999.00	-999.00	31.10	0.00	100.10	99.50	149.50	0.00	100.60	100.70	100.00	0.00	98.10
17	32.80	0.00	-999.00	-999.00	31.20	0.00	100.00	99.50	145.20	0.00	100.70	100.80	100.10	0.00	98.10
18	32.80	0.00	-999.00	-999.00	31.80	0.00	100.30	99.50	145.70	0.00	100.50	100.90	100.00	0.00	98.20
19	32.80	0.00	-999.00	-999.00	31.10	0.00	100.30	99.50	145.70	0.00	100.50	101.00	99.90	0.00	98.20
20	33.10	0.00	-999.00	-999.00	31.40	0.00	100.20	99.50	145.70	0.00	100.40	101.10	99.90	0.00	98.30
21	40.60	0.00	-999.00	-999.00	38.70	0.00	100.20	99.50	131.00	0.00	100.30	101.00	99.90	0.00	98.30
22	39.30	0.00	-999.00	-999.00	39.10	0.00	100.10	99.50	106.50	0.00	100.30	101.00	99.90	0.00	98.30
23	39.00	0.00	-999.00	-999.00	38.90	0.00	100.20	99.50	90.60	0.00	100.20	100.90	99.90	0.00	98.30
24	31.70	0.00	-999.00	-999.00	29.90	0.00	100.20	99.50	86.70	0.00	100.30	101.00	99.90	0.00	98.30

15 FEB 2003

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

15 FEB 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	LOWER GRANITE	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.		
1	1.50	0.00	103.80	-999.00	-999.00	-999.00	0.00	0.00	100.90	100.80	16.90	0.00	-999.00	-999.00	
2	1.50	0.00	103.90	-999.00	-999.00	-999.00	0.00	0.00	100.90	101.00	0.30	0.00	-999.00	-999.00	
3	1.50	0.00	103.90	-999.00	-999.00	-999.00	0.00	0.00	100.90	101.00	0.00	0.00	-999.00	-999.00	
4	1.50	0.00	103.90	-999.00	-999.00	-999.00	0.00	0.00	101.00	101.00	0.00	0.00	-999.00	-999.00	
5	1.50	0.00	103.80	-999.00	-999.00	-999.00	0.00	0.00	101.00	100.90	0.00	0.00	-999.00	-999.00	
6	1.50	0.00	103.70	-999.00	-999.00	-999.00	0.20	0.00	101.00	100.90	0.00	0.00	-999.00	-999.00	
7	1.50	0.00	103.80	-999.00	-999.00	-999.00	14.60	0.00	101.10	100.80	12.30	0.00	-999.00	-999.00	
8	1.50	0.00	103.90	-999.00	-999.00	-999.00	31.20	0.00	101.00	101.20	16.90	0.00	-999.00	-999.00	
9	1.50	0.00	104.10	-999.00	-999.00	-999.00	31.90	0.00	101.10	101.20	27.70	0.00	-999.00	-999.00	
10	1.50	0.00	104.50	-999.00	-999.00	-999.00	34.80	0.00	101.30	101.20	33.50	0.00	-999.00	-999.00	
11	1.50	0.00	104.80	-999.00	-999.00	-999.00	34.90	0.00	101.40	101.30	33.80	0.00	-999.00	-999.00	
12	1.50	0.00	104.90	-999.00	-999.00	-999.00	35.50	0.00	101.50	101.30	33.80	0.00	-999.00	-999.00	
13	1.50	0.00	105.20	-999.00	-999.00	-999.00	38.60	0.00	101.50	101.50	36.00	0.00	-999.00	-999.00	
14	1.50	0.00	105.40	-999.00	-999.00	-999.00	38.80	0.00	101.80	101.60	37.00	0.00	-999.00	-999.00	
15	1.50	0.00	105.30	-999.00	-999.00	-999.00	40.20	0.00	101.60	101.60	38.30	0.00	-999.00	-999.00	
16	1.50	0.00	105.20	-999.00	-999.00	-999.00	45.40	0.00	101.60	101.50	45.80	0.00	-999.00	-999.00	
17	1.50	0.00	104.90	-999.00	-999.00	-999.00	46.70	0.00	101.80	101.60	45.90	0.00	-999.00	-999.00	
18	1.50	0.00	104.70	-999.00	-999.00	-999.00	47.00	0.00	101.80	101.60	50.80	0.00	-999.00	-999.00	
19	1.50	0.00	104.60	-999.00	-999.00	-999.00	47.10	0.00	101.90	101.70	50.60	0.00	-999.00	-999.00	
20	1.50	0.00	104.70	-999.00	-999.00	-999.00	43.00	0.00	101.90	101.70	47.50	0.00	-999.00	-999.00	
21	1.50	0.00	104.70	-999.00	-999.00	-999.00	39.60	0.00	101.90	101.70	44.80	0.00	-999.00	-999.00	
22	1.40	0.00	104.70	-999.00	-999.00	-999.00	18.30	0.00	102.00	102.00	33.10	0.00	-999.00	-999.00	
23	1.50	0.00	104.70	-999.00	-999.00	-999.00	13.70	0.00	102.10	102.00	17.20	0.00	-999.00	-999.00	
24	1.50	0.00	104.60	-999.00	-999.00	-999.00	0.30	0.00	102.20	102.00	4.60	0.00	-999.00	-999.00	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB	WA TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB	GAS %SAT	
1	17.80	0.00	-999.00	-999.00	19.80	0.00	100.20	99.60	89.00	0.00	100.30	101.00	99.90	98.40	
2	15.40	0.00	-999.00	-999.00	18.90	0.00	100.20	99.60	85.60	0.00	100.30	100.90	99.90	98.30	
3	0.30	0.00	-999.00	-999.00	12.10	0.00	100.20	99.60	79.70	0.00	100.30	101.00	99.80	98.30	
4	0.30	0.00	-999.00	-999.00	9.20	0.00	100.30	99.60	80.30	0.00	100.30	101.00	100.00	98.40	
5	0.30	0.00	-999.00	-999.00	9.10	0.00	100.30	99.70	81.20	0.00	100.40	101.00	100.20	98.30	
6	1.10	0.00	-999.00	-999.00	9.30	0.00	100.40	99.50	88.20	0.00	100.40	101.00	100.00	98.40	
7	13.20	0.00	-999.00	-999.00	9.10	0.00	100.40	99.70	97.60	0.00	100.40	100.90	100.10	98.40	
8	16.80	0.00	-999.00	-999.00	10.90	0.00	100.40	99.80	102.50	0.00	100.40	100.90	100.00	98.40	
9	27.10	0.00	-999.00	-999.00	19.60	0.00	100.40	99.80	104.30	0.00	100.50	100.90	100.10	98.30	
10	34.40	0.00	-999.00	-999.00	10.80	0.00	100.60	99.80	103.20	0.00	100.50	101.00	100.10	98.50	
11	34.50	0.00	-999.00	-999.00	28.40	0.00	100.60	100.10	102.80	0.00	100.50	101.00	100.10	98.50	
12	34.60	0.00	-999.00	-999.00	33.20	0.00	100.80	100.80	100.50	0.00	100.50	101.00	100.30	98.60	
13	34.50	0.00	-999.00	-999.00	32.50	0.00	100.80	100.50	99.80	0.00	100.70	101.10	100.20	98.80	
14	34.50	0.00	-999.00	-999.00	32.60	0.00	101.10	100.30	96.90	0.00	100.90	101.10	100.30	98.80	
15	36.70	0.00	-999.00	-999.00	32.80	0.00	100.90	100.20	95.90	0.00	101.00	101.10	100.10	98.80	
16	44.00	0.00	-999.00	-999.00	38.80	0.00	101.00	100.30	105.20	0.00	101.20	101.20	100.30	98.90	
17	45.70	0.00	-999.00	-999.00	40.30	0.00	101.20	100.30	108.90	0.00	101.30	101.20	100.40	99.00	
18	50.50	0.00	-999.00	-999.00	45.60	0.00	101.20	100.30	112.30	0.00	101.10	101.30	100.40	99.00	
19	51.50	0.00	-999.00	-999.00	46.10	0.00	101.30	100.50	115.70	0.00	101.30	101.40	100.60	99.20	
20	51.30	0.00	-999.00	-999.00	46.10	0.00	101.40	100.50	112.90	0.00	101.20	101.30	100.40	99.20	
21	47.80	0.00	-999.00	-999.00	46.00	0.00	101.20	100.60	105.70	0.00	101.30	101.40	100.60	99.30	
22	34.50	0.00	-999.00	-999.00	37.60	0.00	101.40	100.60	99.10	0.00	101.20	101.50	100.70	99.20	
23	17.40	0.00	-999.00	-999.00	20.80	0.00	101.50	100.70	91.50	0.00	101.30	101.60	100.70	99.30	
24	0.30	0.00	-999.00	-999.00	10.00	0.00	101.80	100.90	87.00	0.00	101.40	101.60	100.70	99.40	

16 FEB 2003

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

16 FEB 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.			
1	1.50	0.00	104.70	-999.00	-999.00	-999.00	1.70	0.00	102.50	102.20	0.00	0.00	-999.00	-999.00	
2	1.50	0.00	104.60	-999.00	-999.00	-999.00	0.00	0.00	102.50	102.30	0.00	0.00	-999.00	-999.00	
3	1.50	0.00	104.70	-999.00	-999.00	-999.00	0.00	0.00	102.50	102.90	0.00	0.00	-999.00	-999.00	
4	1.50	0.00	104.80	-999.00	-999.00	-999.00	0.00	0.00	102.60	102.90	0.00	0.00	-999.00	-999.00	
5	1.50	0.00	104.90	-999.00	-999.00	-999.00	0.00	0.00	102.60	102.80	0.00	0.00	-999.00	-999.00	
6	1.50	0.00	104.90	-999.00	-999.00	-999.00	0.80	0.00	102.50	102.70	0.10	0.00	-999.00	-999.00	
7	1.50	0.00	105.00	-999.00	-999.00	-999.00	15.10	0.00	102.50	102.90	14.90	0.00	-999.00	-999.00	
8	1.50	0.00	104.90	-999.00	-999.00	-999.00	32.40	0.00	102.40	102.60	28.30	0.00	-999.00	-999.00	
9	1.50	0.00	105.00	-999.00	-999.00	-999.00	32.70	0.00	102.30	102.30	32.40	0.00	-999.00	-999.00	
10	1.50	0.00	105.10	-999.00	-999.00	-999.00	32.60	0.00	102.20	102.20	32.30	0.00	-999.00	-999.00	
11	1.50	0.00	105.20	-999.00	-999.00	-999.00	32.80	0.00	102.10	102.10	33.50	0.00	-999.00	-999.00	
12	1.50	0.00	105.20	-999.00	-999.00	-999.00	32.70	0.00	102.10	101.90	33.80	0.00	-999.00	-999.00	
13	1.50	0.00	105.00	-999.00	-999.00	-999.00	33.20	0.00	102.00	101.90	33.30	0.00	-999.00	-999.00	
14	1.50	0.00	104.90	-999.00	-999.00	-999.00	32.80	0.00	102.00	101.80	33.40	0.00	-999.00	-999.00	
15	1.40	0.00	104.90	-999.00	-999.00	-999.00	32.80	0.00	101.80	101.70	33.40	0.00	-999.00	-999.00	
16	1.50	0.00	104.70	-999.00	-999.00	-999.00	32.90	0.00	101.80	101.60	34.10	0.00	-999.00	-999.00	
17	1.40	0.00	104.50	-999.00	-999.00	-999.00	35.10	0.00	101.70	101.50	34.90	0.00	-999.00	-999.00	
18	1.50	0.00	104.20	-999.00	-999.00	-999.00	39.90	0.00	101.60	101.50	38.70	0.00	-999.00	-999.00	
19	1.50	0.00	104.00	-999.00	-999.00	-999.00	45.40	0.00	101.50	101.30	43.80	0.00	-999.00	-999.00	
20	1.50	0.00	103.90	-999.00	-999.00	-999.00	45.70	0.00	101.40	101.30	43.70	0.00	-999.00	-999.00	
21	1.50	0.00	103.80	-999.00	-999.00	-999.00	40.60	0.00	101.40	101.20	41.90	0.00	-999.00	-999.00	
22	1.50	0.00	103.80	-999.00	-999.00	-999.00	37.90	0.00	101.30	101.20	36.00	0.00	-999.00	-999.00	
23	1.50	0.00	104.00	-999.00	-999.00	-999.00	22.10	0.00	101.30	101.10	22.50	0.00	-999.00	-999.00	
24	1.40	0.00	103.90	-999.00	-999.00	-999.00	14.20	0.00	101.10	101.00	12.80	0.00	-999.00	-999.00	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.			
1	0.30	0.00	-999.00	-999.00	8.70	0.00	101.60	101.00	88.40	0.00	101.40	101.70	100.80	0.00	99.50
2	0.30	0.00	-999.00	-999.00	8.70	0.00	101.70	101.00	81.70	0.00	101.40	101.70	100.80	0.00	99.50
3	0.30	0.00	-999.00	-999.00	8.90	0.00	101.70	101.00	80.00	0.00	101.40	101.70	100.80	0.00	99.60
4	0.30	0.00	-999.00	-999.00	8.70	0.00	101.70	101.10	79.00	0.00	101.40	101.70	100.90	0.00	99.60
5	0.30	0.00	-999.00	-999.00	8.70	0.00	101.70	101.00	80.70	0.00	101.30	101.70	100.80	0.00	99.60
6	0.50	0.00	-999.00	-999.00	8.70	0.00	101.70	101.00	85.80	0.00	101.20	101.60	100.80	0.00	99.60
7	13.30	0.00	-999.00	-999.00	8.70	0.00	101.60	100.90	89.30	0.00	101.20	101.60	100.70	0.00	99.50
8	14.90	0.00	-999.00	-999.00	10.40	0.00	101.50	100.90	99.70	0.00	101.10	101.50	100.60	0.00	99.30
9	33.20	0.00	-999.00	-999.00	23.80	0.00	101.40	100.80	102.50	0.00	101.20	101.40	100.50	0.00	99.30
10	33.90	0.00	-999.00	-999.00	24.60	0.00	101.30	101.00	106.10	0.00	101.10	101.30	100.50	0.00	99.00
11	37.80	0.00	-999.00	-999.00	29.70	0.00	101.30	100.70	106.80	0.00	101.00	101.30	100.60	0.00	99.00
12	38.30	0.00	-999.00	-999.00	31.80	0.00	101.20	100.70	107.90	0.00	101.20	101.20	100.50	0.00	98.90
13	39.40	0.00	-999.00	-999.00	34.20	0.00	101.20	100.80	104.60	0.00	101.10	101.30	100.60	0.00	98.90
14	38.10	0.00	-999.00	-999.00	34.00	0.00	101.20	100.70	103.50	0.00	101.10	101.40	100.60	0.00	99.00
15	38.50	0.00	-999.00	-999.00	34.00	0.00	101.20	101.40	104.20	0.00	101.10	101.40	100.60	0.00	99.10
16	40.70	0.00	-999.00	-999.00	35.00	0.00	101.20	100.80	111.20	0.00	101.20	101.30	100.50	0.00	99.10
17	40.90	0.00	-999.00	-999.00	35.50	0.00	101.10	100.60	112.70	0.00	101.20	101.30	100.40	0.00	99.20
18	41.10	0.00	-999.00	-999.00	39.90	0.00	101.10	100.40	114.70	0.00	101.00	101.10	100.30	0.00	99.30
19	46.70	0.00	-999.00	-999.00	42.10	0.00	101.10	100.30	125.00	0.00	100.90	100.90	100.10	0.00	99.20
20	47.20	0.00	-999.00	-999.00	42.30	0.00	100.90	100.90	125.00	0.00	100.80	100.80	100.00	0.00	99.30
21	44.80	0.00	-999.00	-999.00	40.70	0.00	100.90	100.20	124.30	0.00	100.80	100.70	99.90	0.00	99.20
22	36.30	0.00	-999.00	-999.00	30.50	0.00	100.80	100.10	115.50	0.00	100.50	100.70	99.80	0.00	99.20
23	18.50	0.00	-999.00	-999.00	18.50	0.00	100.70	100.10	93.70	0.00	100.50	100.40	99.80	0.00	99.20
24	15.50	0.00	-999.00	-999.00	9.10	0.00	100.60	100.00	84.00	0.00	100.30	100.40	99.70	0.00	99.10

17 FEB 2003

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

17 FEB 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	LOWER GRANITE	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.		
1	1.50	0.00	103.90	-999.00	-999.00	-999.00	13.60	0.00	101.10	101.00	12.70	0.00	-999.00	-999.00	
2	1.50	0.00	103.90	-999.00	-999.00	-999.00	0.80	0.00	101.10	101.00	0.00	0.00	-999.00	-999.00	
3	1.50	0.00	103.90	-999.00	-999.00	-999.00	0.00	0.00	101.10	100.80	0.00	0.00	-999.00	-999.00	
4	1.50	0.00	103.80	-999.00	-999.00	-999.00	0.00	0.00	101.10	101.00	0.00	0.00	-999.00	-999.00	
5	1.50	0.00	103.80	-999.00	-999.00	-999.00	0.00	0.00	101.00	101.00	0.00	0.00	-999.00	-999.00	
6	1.40	0.00	103.80	-999.00	-999.00	-999.00	0.60	0.00	101.00	100.90	0.30	0.00	-999.00	-999.00	
7	1.50	0.00	103.70	-999.00	-999.00	-999.00	20.50	0.00	101.00	101.10	12.80	0.00	-999.00	-999.00	
8	1.50	0.00	104.00	-999.00	-999.00	-999.00	21.80	0.00	101.00	101.00	16.30	0.00	-999.00	-999.00	
9	1.50	0.00	104.10	-999.00	-999.00	-999.00	21.90	0.00	101.00	100.80	16.90	0.00	-999.00	-999.00	
10	1.50	0.00	104.50	-999.00	-999.00	-999.00	31.30	0.00	101.10	100.90	29.20	0.00	-999.00	-999.00	
11	1.50	0.00	104.70	-999.00	-999.00	-999.00	31.80	0.00	101.00	101.00	31.90	0.00	-999.00	-999.00	
12	1.40	0.00	104.70	-999.00	-999.00	-999.00	31.60	0.00	101.10	100.90	35.70	0.00	-999.00	-999.00	
13	1.50	0.00	105.00	-999.00	-999.00	-999.00	33.10	0.00	101.10	101.00	36.50	0.00	-999.00	-999.00	
14	1.40	0.00	105.30	-999.00	-999.00	-999.00	46.90	0.00	101.10	101.00	48.80	0.00	-999.00	-999.00	
15	1.50	0.00	105.40	-999.00	-999.00	-999.00	47.80	0.00	101.10	100.80	51.30	0.00	-999.00	-999.00	
16	1.40	0.00	104.90	-999.00	-999.00	-999.00	48.00	0.00	101.10	100.80	52.90	0.00	-999.00	-999.00	
17	1.50	0.00	104.60	-999.00	-999.00	-999.00	48.40	0.00	101.10	100.80	51.40	0.00	-999.00	-999.00	
18	1.50	0.00	104.30	-999.00	-999.00	-999.00	49.60	0.00	101.10	100.80	51.40	0.00	-999.00	-999.00	
19	1.50	0.00	104.00	-999.00	-999.00	-999.00	48.50	0.00	101.10	100.80	52.40	0.00	-999.00	-999.00	
20	1.50	0.00	103.80	-999.00	-999.00	-999.00	48.80	0.00	100.90	100.80	52.80	0.00	-999.00	-999.00	
21	1.50	0.00	103.90	-999.00	-999.00	-999.00	41.20	0.00	101.00	100.70	50.70	0.00	-999.00	-999.00	
22	1.50	0.00	103.90	-999.00	-999.00	-999.00	30.80	0.00	101.00	100.80	31.00	0.00	-999.00	-999.00	
23	1.50	0.00	103.90	-999.00	-999.00	-999.00	26.30	0.00	101.10	101.10	25.30	0.00	-999.00	-999.00	
24	1.50	0.00	103.90	-999.00	-999.00	-999.00	23.30	0.00	101.20	100.90	20.10	0.00	-999.00	-999.00	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB	WA TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB	GAS %SAT	
1	12.30	0.00	-999.00	-999.00	8.70	0.00	100.60	100.00	68.60	0.00	100.30	100.30	99.60	0.00	98.80
2	0.30	0.00	-999.00	-999.00	8.70	0.00	100.60	100.00	68.70	0.00	100.20	100.40	99.80	0.00	98.80
3	0.30	0.00	-999.00	-999.00	8.70	0.00	100.60	100.00	66.60	0.00	100.30	100.50	99.80	0.00	98.70
4	0.30	0.00	-999.00	-999.00	8.70	0.00	100.50	99.90	68.10	0.00	100.20	100.30	99.90	0.00	98.50
5	0.30	0.00	-999.00	-999.00	8.90	0.00	100.60	99.90	85.10	0.00	100.20	100.40	99.80	0.00	98.40
6	0.30	0.00	-999.00	-999.00	8.70	0.00	100.50	100.00	108.40	0.00	100.20	100.40	99.60	0.00	98.30
7	9.60	0.00	-999.00	-999.00	10.20	0.00	100.50	99.80	121.40	0.00	100.10	100.20	99.60	0.00	98.10
8	16.20	0.00	-999.00	-999.00	11.60	0.00	100.40	99.80	122.20	0.00	100.10	100.30	99.40	0.00	98.00
9	17.30	0.00	-999.00	-999.00	10.30	0.00	100.40	99.90	119.60	0.00	100.10	100.20	99.50	0.00	97.70
10	31.70	0.00	-999.00	-999.00	19.30	0.00	100.30	99.90	117.50	0.00	100.10	100.20	99.50	0.00	97.70
11	33.20	0.00	-999.00	-999.00	26.10	0.00	100.30	100.80	118.50	0.00	100.10	100.20	99.60	0.00	97.80
12	40.40	0.00	-999.00	-999.00	29.20	0.00	100.40	100.30	114.10	0.00	100.20	100.40	99.80	0.00	97.90
13	41.20	0.00	-999.00	-999.00	28.30	0.00	100.40	100.20	112.10	0.00	100.30	100.50	99.90	0.00	98.10
14	51.60	0.00	-999.00	-999.00	40.10	0.00	100.50	100.40	111.50	0.00	100.40	100.50	99.90	0.00	98.30
15	55.40	0.00	-999.00	-999.00	46.70	0.00	100.50	100.10	114.00	0.00	100.50	100.50	99.90	0.00	98.40
16	55.50	0.00	-999.00	-999.00	55.60	0.00	100.60	100.30	110.80	0.00	100.60	100.60	99.90	0.00	98.60
17	55.30	0.00	-999.00	-999.00	55.80	0.00	100.60	100.00	107.70	0.00	100.60	100.60	99.70	0.00	98.80
18	56.40	0.00	-999.00	-999.00	57.40	0.00	100.40	99.90	106.40	0.00	100.60	100.50	99.70	0.00	98.90
19	54.90	0.00	-999.00	-999.00	54.80	0.00	100.50	100.60	117.80	0.00	100.70	100.50	99.70	0.00	99.10
20	51.50	0.00	-999.00	-999.00	55.60	0.00	100.60	99.90	115.80	0.00	100.70	100.60	99.70	0.00	99.30
21	49.50	0.00	-999.00	-999.00	49.30	0.00	100.60	99.90	113.40	0.00	100.80	100.60	99.80	0.00	99.30
22	33.40	0.00	-999.00	-999.00	30.20	0.00	100.50	100.00	91.50	0.00	100.60	100.60	99.70	0.00	99.30
23	26.10	0.00	-999.00	-999.00	25.10	0.00	100.50	100.00	88.30	0.00	100.50	100.50	99.70	0.00	99.40
24	15.50	0.00	-999.00	-999.00	12.90	0.00	100.50	100.10	88.30	0.00	100.50	100.50	99.80	0.00	99.40

18 FEB 2003

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

18 FEB 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	LOWER GRANITE	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.		
1	1.40	0.00	104.00	-999.00	-999.00	-999.00	22.80	0.00	101.00	100.90	14.10	0.00	-999.00	-999.00	
2	1.50	0.00	104.00	-999.00	-999.00	-999.00	24.50	0.00	101.20	101.00	20.90	0.00	-999.00	-999.00	
3	1.40	0.00	104.00	-999.00	-999.00	-999.00	23.00	0.00	101.20	101.00	21.70	0.00	-999.00	-999.00	
4	1.50	0.00	104.10	-999.00	-999.00	-999.00	26.50	0.00	101.20	101.00	21.30	0.00	-999.00	-999.00	
5	1.50	0.00	104.10	-999.00	-999.00	-999.00	26.40	0.00	101.30	101.10	21.60	0.00	-999.00	-999.00	
6	1.50	0.00	104.00	-999.00	-999.00	-999.00	26.80	0.00	101.30	100.90	21.60	0.00	-999.00	-999.00	
7	1.40	0.00	103.80	-999.00	-999.00	-999.00	38.30	0.00	101.10	100.80	38.00	0.00	-999.00	-999.00	
8	1.50	0.00	103.80	-999.00	-999.00	-999.00	22.00	0.00	101.10	101.10	39.40	0.00	-999.00	-999.00	
9	1.40	0.00	104.10	-999.00	-999.00	-999.00	22.20	0.00	101.10	100.90	28.30	0.00	-999.00	-999.00	
10	1.50	0.00	104.40	-999.00	-999.00	-999.00	26.20	0.00	100.90	101.00	26.30	0.00	-999.00	-999.00	
11	1.40	0.00	104.90	-999.00	-999.00	-999.00	26.50	0.00	100.90	100.90	29.30	0.00	-999.00	-999.00	
12	1.50	0.00	105.10	-999.00	-999.00	-999.00	26.40	0.00	100.90	100.70	28.30	0.00	-999.00	-999.00	
13	1.50	0.00	105.30	-999.00	-999.00	-999.00	26.50	0.00	101.00	100.70	26.40	0.00	-999.00	-999.00	
14	1.50	0.00	105.30	-999.00	-999.00	-999.00	26.90	0.00	100.90	100.70	26.40	0.00	-999.00	-999.00	
15	1.40	0.00	105.10	-999.00	-999.00	-999.00	26.00	0.00	101.00	100.70	26.50	0.00	-999.00	-999.00	
16	1.50	0.00	105.00	-999.00	-999.00	-999.00	17.30	0.00	100.80	100.80	26.90	0.00	-999.00	-999.00	
17	1.50	0.00	104.60	-999.00	-999.00	-999.00	19.10	0.00	100.80	100.60	25.00	0.00	-999.00	-999.00	
18	1.50	0.00	104.20	-999.00	-999.00	-999.00	34.20	0.00	100.70	100.90	34.70	0.00	-999.00	-999.00	
19	1.40	0.00	103.90	-999.00	-999.00	-999.00	31.50	0.00	100.70	100.60	36.80	0.00	-999.00	-999.00	
20	1.50	0.00	103.80	-999.00	-999.00	-999.00	30.50	0.00	100.70	100.60	36.80	0.00	-999.00	-999.00	
21	1.40	0.00	104.10	-999.00	-999.00	-999.00	30.30	0.00	100.70	100.60	38.70	0.00	-999.00	-999.00	
22	1.50	0.00	104.20	-999.00	-999.00	-999.00	18.30	0.00	100.80	100.70	30.00	0.00	-999.00	-999.00	
23	1.40	0.00	104.10	-999.00	-999.00	-999.00	5.60	0.00	100.80	101.00	14.60	0.00	-999.00	-999.00	
24	1.50	0.00	103.90	-999.00	-999.00	-999.00	0.10	0.00	100.80	101.00	0.20	0.00	-999.00	-999.00	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB	WA TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB	GAS %SAT	
1	13.60	0.00	-999.00	-999.00	10.10	0.00	100.40	100.00	92.20	0.00	100.30	100.50	99.80	0.00	99.30
2	13.60	0.00	-999.00	-999.00	9.70	0.00	100.50	99.90	76.60	0.00	100.40	100.60	99.70	0.00	99.10
3	13.70	0.00	-999.00	-999.00	10.20	0.00	100.30	99.90	83.00	0.00	100.30	100.60	99.70	0.00	99.10
4	21.00	0.00	-999.00	-999.00	16.50	0.00	100.40	100.60	82.30	0.00	100.30	100.50	99.60	0.00	99.10
5	21.50	0.00	-999.00	-999.00	17.70	0.00	100.40	99.90	97.60	0.00	100.10	100.40	99.50	0.00	98.90
6	23.70	0.00	-999.00	-999.00	19.40	0.00	100.40	99.90	120.20	0.00	100.20	100.40	99.40	0.00	98.80
7	39.20	0.00	-999.00	-999.00	33.80	0.00	100.30	99.80	122.70	0.00	100.20	100.30	99.40	0.00	98.60
8	39.70	0.00	-999.00	-999.00	34.60	0.00	100.20	99.70	117.50	0.00	100.00	100.30	99.30	0.00	98.60
9	28.40	0.00	-999.00	-999.00	46.80	0.00	100.10	99.50	116.40	0.00	99.90	100.20	99.20	0.00	98.30
10	27.90	0.00	-999.00	-999.00	47.00	0.00	100.10	99.70	116.00	0.00	99.80	100.10	99.30	0.00	98.30
11	27.80	0.00	-999.00	-999.00	30.60	0.00	100.00	99.50	116.00	0.00	99.90	100.20	99.40	0.00	98.20
12	27.70	0.00	-999.00	-999.00	29.90	0.00	100.00	99.80	107.90	0.00	100.40	100.30	99.40	0.00	98.20
13	28.30	0.00	-999.00	-999.00	28.00	0.00	100.00	99.90	109.10	0.00	100.90	100.30	99.40	0.00	98.40
14	27.70	0.00	-999.00	-999.00	27.60	0.00	100.10	99.90	109.40	0.00	101.20	100.50	99.50	0.00	98.60
15	27.70	0.00	-999.00	-999.00	28.10	0.00	100.10	100.00	109.80	0.10	101.20	100.50	99.60	0.00	98.70
16	27.60	0.00	-999.00	-999.00	28.60	0.00	100.10	100.10	111.60	0.00	100.90	100.50	99.60	0.00	98.90
17	28.10	0.00	-999.00	-999.00	28.10	0.00	100.10	99.70	114.80	0.00	100.60	100.50	99.60	0.00	98.90
18	33.60	0.00	-999.00	-999.00	29.20	0.00	100.10	99.60	135.20	0.00	100.30	100.60	99.50	0.00	99.00
19	37.70	0.00	-999.00	-999.00	33.00	0.00	100.10	99.40	142.20	0.00	100.20	100.40	99.50	0.00	99.00
20	37.40	0.00	-999.00	-999.00	34.10	0.00	100.10	99.50	142.30	0.00	100.20	100.60	99.50	0.00	99.00
21	37.40	0.00	-999.00	-999.00	32.40	0.00	100.10	99.40	126.50	0.00	100.10	100.10	99.30	0.00	98.90
22	37.00	0.00	-999.00	-999.00	33.40	0.00	100.00	99.40	111.50	0.00	100.00	100.60	99.40	0.00	98.90
23	26.60	0.00	-999.00	-999.00	20.20	0.00	100.10	100.10	88.30	0.00	99.90	100.80	99.40	0.00	98.80
24	17.90	0.00	-999.00	-999.00	19.20	0.00	100.10	99.40	78.90	0.00	99.80	100.80	99.50	0.00	98.70

19 FEB 2003

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

19 FEB 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT.	FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT.		
1	1.40	0.00	103.80	-999.00	-999.00	-999.00	0.10	0.00	100.90	101.20	0.20	0.00	-999.00	-999.00	
2	1.40	0.00	103.80	-999.00	-999.00	-999.00	0.10	0.00	100.80	101.10	4.40	0.00	-999.00	-999.00	
3	1.50	0.00	104.10	-999.00	-999.00	-999.00	0.10	0.00	100.80	101.10	13.40	0.00	-999.00	-999.00	
4	1.50	0.00	104.10	-999.00	-999.00	-999.00	11.20	0.00	100.80	101.30	13.20	0.00	-999.00	-999.00	
5	1.40	0.00	104.30	-999.00	-999.00	-999.00	14.70	0.00	100.90	101.30	14.70	0.00	-999.00	-999.00	
6	1.40	0.00	104.30	-999.00	-999.00	-999.00	31.30	0.00	100.90	101.20	15.20	0.00	-999.00	-999.00	
7	1.50	0.00	104.10	-999.00	-999.00	-999.00	40.30	0.00	101.00	101.10	19.90	0.00	-999.00	-999.00	
8	1.50	0.00	104.30	-999.00	-999.00	-999.00	35.90	0.00	101.00	101.00	34.30	0.00	-999.00	-999.00	
9	1.50	0.00	104.90	-999.00	-999.00	-999.00	35.70	0.00	101.00	101.00	37.50	0.00	-999.00	-999.00	
10	1.40	0.00	104.80	-999.00	-999.00	-999.00	36.30	0.00	101.00	101.00	38.70	0.00	-999.00	-999.00	
11	1.50	0.00	104.80	-999.00	-999.00	-999.00	30.10	0.00	101.20	101.10	38.30	0.00	-999.00	-999.00	
12	1.40	0.00	105.00	-999.00	-999.00	-999.00	28.00	0.00	101.30	101.10	38.70	0.00	-999.00	-999.00	
13	1.60	0.00	105.40	-999.00	-999.00	-999.00	28.00	0.00	101.50	101.20	34.60	0.00	-999.00	-999.00	
14	1.50	0.00	105.50	-999.00	-999.00	-999.00	28.20	0.00	101.50	101.40	33.40	0.00	-999.00	-999.00	
15	1.50	0.00	106.20	-999.00	-999.00	-999.00	38.70	0.00	101.50	101.40	40.50	0.00	-999.00	-999.00	
16	1.50	0.00	106.40	-999.00	-999.00	-999.00	38.70	0.00	101.50	101.20	39.90	0.00	-999.00	-999.00	
17	1.50	0.00	105.10	-999.00	-999.00	-999.00	38.50	0.00	101.60	101.20	40.30	0.00	-999.00	-999.00	
18	1.50	0.00	105.40	-999.00	-999.00	-999.00	38.80	0.00	101.60	101.20	44.70	0.00	-999.00	-999.00	
19	1.50	0.00	106.70	-999.00	-999.00	-999.00	38.80	0.00	101.60	101.20	45.60	0.00	-999.00	-999.00	
20	1.50	0.00	106.50	-999.00	-999.00	-999.00	39.40	0.00	101.60	101.10	44.80	0.00	-999.00	-999.00	
21	1.50	0.00	106.40	-999.00	-999.00	-999.00	37.80	0.00	101.50	101.10	44.80	0.00	-999.00	-999.00	
22	1.50	0.00	106.30	-999.00	-999.00	-999.00	17.00	0.00	101.50	101.30	44.00	0.00	-999.00	-999.00	
23	1.50	0.00	106.50	-999.00	-999.00	-999.00	13.90	0.00	101.40	101.10	15.70	0.00	-999.00	-999.00	
24	1.50	0.00	106.50	-999.00	-999.00	-999.00	13.90	0.00	101.40	101.20	12.20	0.00	-999.00	-999.00	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. OR FB	WA TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB		
1	13.20	0.00	-999.00 -999.00	9.40	0.00	100.10 99.50	78.00	0.00	99.80	100.80	99.50	0.00	-98.60		
2	13.30	0.00	-999.00 -999.00	10.50	0.00	100.00 99.50	77.90	0.00	99.90	100.90	99.50	0.00	-98.50		
3	13.30	0.00	-999.00 -999.00	12.00	0.00	100.10 99.40	71.70	0.00	99.90	101.00	99.60	0.00	-98.20		
4	13.30	0.00	-999.00 -999.00	12.30	0.00	100.10 99.50	69.10	0.00	100.00	101.00	99.60	0.00	-98.30		
5	13.90	0.00	-999.00 -999.00	12.40	0.00	100.00 99.60	75.70	0.00	100.00	101.00	99.70	0.00	-98.20		
6	14.10	0.00	-999.00 -999.00	19.50	0.00	100.20 100.60	86.80	0.00	100.00	101.10	99.70	0.00	-98.10		
7	20.10	0.00	-999.00 -999.00	28.80	0.00	100.20 99.70	97.30	0.00	100.00	101.10	99.70	0.00	-98.10		
8	34.30	0.00	-999.00 -999.00	35.20	0.00	100.20 99.80	120.10	0.00	100.00	101.10	99.80	0.00	-97.90		
9	38.60	0.00	-999.00 -999.00	35.30	0.00	100.30 100.30	122.10	0.00	100.10	101.00	99.90	0.00	-97.90		
10	37.30	0.00	-999.00 -999.00	35.30	0.00	100.40 99.90	123.80	0.00	100.30	101.00	99.90	0.00	-97.90		
11	39.60	0.00	-999.00 -999.00	36.10	0.00	100.40 100.10	124.20	0.00	100.40	101.10	100.10	0.00	-98.10		
12	36.60	0.00	-999.00 -999.00	35.50	0.00	100.50 100.20	123.70	0.00	101.00	101.10	100.10	0.00	-98.20		
13	33.70	0.00	-999.00 -999.00	35.80	0.00	100.50 100.30	116.60	0.00	101.80	101.10	100.30	0.00	-98.20		
14	33.60	0.00	-999.00 -999.00	37.50	0.00	100.50 100.30	116.30	0.00	102.10	101.20	100.30	0.00	-98.30		
15	39.80	0.00	-999.00 -999.00	40.40	0.00	100.40 100.30	123.00	0.00	101.80	101.00	100.30	0.00	-98.50		
16	40.90	0.00	-999.00 -999.00	42.50	0.00	100.30 100.00	123.60	0.00	101.60	101.00	100.20	0.00	-98.50		
17	40.20	0.00	-999.00 -999.00	41.80	0.00	100.30 100.40	125.90	0.00	101.20	101.00	100.20	0.00	-98.70		
18	47.40	0.00	-999.00 -999.00	49.40	0.00	100.30 100.40	124.80	0.00	100.80	101.00	100.10	0.00	-98.60		
19	47.90	0.00	-999.00 -999.00	49.90	0.00	100.40 99.90	124.00	0.00	100.90	101.00	100.10	0.00	-98.60		
20	47.60	0.00	-999.00 -999.00	50.10	0.00	100.20 99.90	123.90	0.00	100.80	101.00	100.10	0.00	-98.60		
21	47.80	0.00	-999.00 -999.00	51.60	0.00	100.10 99.90	123.70	0.00	100.60	100.90	100.10	0.00	-98.50		
22	43.20	0.00	-999.00 -999.00	50.30	0.00	100.10 100.40	110.00	0.00	100.60	101.10	99.90	0.00	-98.40		
23	19.70	0.00	-999.00 -999.00	30.60	0.00	100.10 99.80	74.20	0.00	100.30	101.10	99.90	0.00	-98.20		
24	13.50	0.00	-999.00 -999.00	17.60	0.00	100.20 99.70	72.10	0.00	100.30	101.20	99.90	0.00	-98.10		

20 FEB 2003

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

20 FEB 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.			
1	1.50	0.00	106.50	-999.00	-999.00	-999.00	14.20	0.00	101.50	101.20	0.20	0.00	-999.00	-999.00	
2	1.50	0.00	106.40	-999.00	-999.00	-999.00	19.70	0.00	101.30	101.20	0.20	0.00	-999.00	-999.00	
3	1.50	0.00	106.30	-999.00	-999.00	-999.00	20.20	0.00	101.40	101.20	0.20	0.00	-999.00	-999.00	
4	1.50	0.00	106.60	-999.00	-999.00	-999.00	20.00	0.00	101.40	101.10	0.20	0.00	-999.00	-999.00	
5	1.50	0.00	106.40	-999.00	-999.00	-999.00	20.60	0.00	101.40	101.10	16.00	0.00	-999.00	-999.00	
6	1.50	0.00	106.30	-999.00	-999.00	-999.00	42.10	0.00	101.40	101.10	29.70	0.00	-999.00	-999.00	
7	1.50	0.00	106.00	-999.00	-999.00	-999.00	42.10	0.00	101.40	101.10	44.20	0.00	-999.00	-999.00	
8	1.50	0.00	105.80	-999.00	-999.00	-999.00	42.10	0.00	101.30	101.10	45.70	0.00	-999.00	-999.00	
9	1.50	0.00	106.60	-999.00	-999.00	-999.00	42.10	0.00	101.30	101.10	44.70	0.00	-999.00	-999.00	
10	1.50	0.00	107.20	-999.00	-999.00	-999.00	36.00	0.00	101.30	101.10	44.50	0.00	-999.00	-999.00	
11	1.50	0.00	107.60	-999.00	-999.00	-999.00	30.60	0.00	101.30	101.10	38.80	0.00	-999.00	-999.00	
12	1.50	0.00	107.60	-999.00	-999.00	-999.00	6.90	0.00	101.40	105.00	35.20	0.00	-999.00	-999.00	
13	1.50	0.00	107.30	-999.00	-999.00	-999.00	19.60	0.00	101.50	104.10	26.90	0.00	-999.00	-999.00	
14	1.50	0.00	107.10	-999.00	-999.00	-999.00	20.60	0.00	101.60	103.10	26.60	0.00	-999.00	-999.00	
15	1.50	0.00	106.90	-999.00	-999.00	-999.00	20.40	0.00	101.70	102.80	26.60	0.00	-999.00	-999.00	
16	1.50	0.00	107.00	-999.00	-999.00	-999.00	20.80	0.00	101.70	102.30	26.30	0.00	-999.00	-999.00	
17	1.50	0.00	106.80	-999.00	-999.00	-999.00	20.60	0.00	101.80	102.20	22.60	0.00	-999.00	-999.00	
18	1.50	0.00	106.60	-999.00	-999.00	-999.00	35.90	0.00	101.80	102.40	21.10	0.00	-999.00	-999.00	
19	1.50	0.00	106.30	-999.00	-999.00	-999.00	42.80	0.00	101.60	111.20	21.40	0.00	-999.00	-999.00	
20	1.50	0.00	106.40	-999.00	-999.00	-999.00	22.50	0.00	101.60	112.30	41.50	0.00	-999.00	-999.00	
21	1.50	0.00	106.30	-999.00	-999.00	-999.00	39.00	0.00	101.50	110.40	42.50	0.00	-999.00	-999.00	
22	1.50	0.00	106.40	-999.00	-999.00	-999.00	41.30	0.00	101.50	103.00	28.40	0.00	-999.00	-999.00	
23	1.50	0.00	106.40	-999.00	-999.00	-999.00	14.90	0.00	101.40	102.90	17.40	0.00	-999.00	-999.00	
24	1.50	0.00	106.40	-999.00	-999.00	-999.00	13.60	0.00	101.40	102.30	13.80	0.00	-999.00	-999.00	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. WA FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.			
1	13.60	0.00	-999.00	-999.00	12.40	0.00	100.10	99.70	0.00	100.30	101.20	99.90	0.00	98.00	
2	15.00	0.00	-999.00	-999.00	9.10	0.00	100.10	99.60	0.00	100.10	101.10	100.00	0.00	97.80	
3	13.80	0.00	-999.00	-999.00	9.10	0.00	100.10	99.60	0.00	100.10	101.20	100.00	0.00	97.70	
4	13.50	0.00	-999.00	-999.00	9.00	0.00	100.20	99.70	0.00	100.20	101.20	100.10	0.00	97.60	
5	13.70	0.00	-999.00	-999.00	9.20	0.00	100.20	99.70	0.00	100.20	101.20	100.20	0.00	97.50	
6	20.40	0.00	-999.00	-999.00	19.70	0.00	100.20	99.90	0.00	100.20	101.30	100.40	0.00	97.40	
7	41.00	0.00	-999.00	-999.00	29.00	0.00	100.20	99.70	0.00	100.20	101.20	100.40	0.00	97.40	
8	41.70	0.00	-999.00	-999.00	29.80	0.00	100.20	99.60	0.00	100.10	101.00	100.20	0.00	97.20	
9	42.40	0.00	-999.00	-999.00	30.70	0.00	100.20	99.60	0.00	100.20	101.10	100.20	0.00	97.10	
10	42.20	0.00	-999.00	-999.00	40.50	0.00	100.20	99.70	0.00	100.20	101.10	100.10	0.00	97.10	
11	41.50	0.00	-999.00	-999.00	39.60	0.00	100.20	100.40	0.00	100.40	101.20	100.30	0.00	97.10	
12	28.50	0.00	-999.00	-999.00	39.20	0.00	100.30	99.90	0.00	100.50	101.20	100.40	0.00	97.20	
13	28.10	0.00	-999.00	-999.00	33.80	0.00	100.40	100.00	0.00	100.70	101.40	100.50	0.00	97.40	
14	27.30	0.00	-999.00	-999.00	27.40	0.00	100.60	100.20	0.00	100.80	101.40	100.60	0.00	97.60	
15	22.30	0.00	-999.00	-999.00	20.10	0.00	100.50	101.10	0.00	101.00	101.50	100.60	0.00	97.90	
16	20.70	0.00	-999.00	-999.00	19.80	0.00	100.50	100.40	0.00	101.00	101.30	100.60	0.00	98.00	
17	20.70	0.00	-999.00	-999.00	19.80	0.00	100.60	100.30	0.00	101.10	101.40	100.60	0.00	98.10	
18	20.70	0.00	-999.00	-999.00	21.20	0.00	100.40	100.00	0.00	101.20	101.40	100.60	0.00	98.40	
19	20.60	0.00	-999.00	-999.00	20.10	0.00	100.50	99.80	0.00	101.30	101.00	100.40	0.00	98.40	
20	39.00	0.00	-999.00	-999.00	22.70	0.00	100.40	100.70	0.00	100.90	101.00	101.40	0.00	98.40	
21	41.20	0.00	-999.00	-999.00	28.30	0.00	100.40	99.70	0.00	100.30	100.80	101.30	0.00	98.40	
22	40.00	0.00	-999.00	-999.00	28.60	0.00	100.40	99.70	0.00	100.60	100.70	101.30	0.00	98.50	
23	27.70	0.00	-999.00	-999.00	26.10	0.00	100.40	99.80	0.00	100.60	101.30	100.20	0.00	98.40	
24	16.30	0.00	-999.00	-999.00	26.30	0.00	100.20	99.70	0.00	100.60	101.10	100.20	0.00	98.60	

21 FEB 2003

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

21 FEB 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	LOWER GRANITE	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.		
1	1.50	0.00	106.40	-999.00	-999.00	-999.00	20.80	0.00	101.30	102.00	14.30	0.00	-999.00	-999.00	
2	1.50	0.00	106.20	-999.00	-999.00	-999.00	31.20	0.00	101.30	101.70	19.30	0.00	-999.00	-999.00	
3	1.40	0.00	106.60	-999.00	-999.00	-999.00	34.50	0.00	101.30	101.80	22.10	0.00	-999.00	-999.00	
4	1.50	0.00	106.90	-999.00	-999.00	-999.00	37.80	0.00	101.30	101.40	29.90	0.00	-999.00	-999.00	
5	1.40	0.00	107.00	-999.00	-999.00	-999.00	47.20	0.00	101.30	101.40	35.20	0.00	-999.00	-999.00	
6	1.50	0.00	107.00	-999.00	-999.00	-999.00	49.10	0.00	101.30	101.20	42.90	0.00	-999.00	-999.00	
7	1.40	0.00	106.90	-999.00	-999.00	-999.00	41.80	0.00	101.30	101.20	42.20	0.00	-999.00	-999.00	
8	1.50	0.00	107.10	-999.00	-999.00	-999.00	41.50	0.00	101.30	101.20	41.80	0.00	-999.00	-999.00	
9	1.40	0.00	107.40	-999.00	-999.00	-999.00	41.70	0.00	101.30	101.20	41.70	0.00	-999.00	-999.00	
10	1.50	0.00	107.70	-999.00	-999.00	-999.00	37.20	0.00	101.40	101.40	41.00	0.00	-999.00	-999.00	
11	1.40	0.00	108.10	-999.00	-999.00	-999.00	31.70	0.00	101.40	101.40	34.90	0.00	-999.00	-999.00	
12	1.50	0.00	108.30	-999.00	-999.00	-999.00	32.00	0.00	101.50	101.40	33.70	0.00	-999.00	-999.00	
13	1.40	0.00	108.30	-999.00	-999.00	-999.00	32.80	0.00	101.50	101.40	33.70	0.00	-999.00	-999.00	
14	1.50	0.00	108.10	-999.00	-999.00	-999.00	32.90	0.00	101.60	101.40	33.50	0.00	-999.00	-999.00	
15	1.40	0.00	107.80	-999.00	-999.00	-999.00	34.90	0.00	101.70	101.50	35.60	0.00	-999.00	-999.00	
16	1.50	0.00	107.60	-999.00	-999.00	-999.00	34.10	0.00	101.70	101.50	33.60	0.00	-999.00	-999.00	
17	1.40	0.00	107.30	-999.00	-999.00	-999.00	34.30	0.00	101.80	101.70	33.70	0.00	-999.00	-999.00	
18	1.50	0.00	107.40	-999.00	-999.00	-999.00	41.60	0.00	101.90	101.70	38.10	0.00	-999.00	-999.00	
19	1.40	0.00	107.40	-999.00	-999.00	-999.00	42.70	0.00	101.90	101.80	42.00	0.00	-999.00	-999.00	
20	1.50	0.00	107.50	-999.00	-999.00	-999.00	39.70	0.00	102.10	101.80	43.20	0.00	-999.00	-999.00	
21	1.40	0.00	107.70	-999.00	-999.00	-999.00	33.50	0.00	102.10	101.90	40.00	0.00	-999.00	-999.00	
22	1.50	0.00	107.80	-999.00	-999.00	-999.00	16.60	0.00	101.90	102.30	27.90	0.00	-999.00	-999.00	
23	1.40	0.00	107.60	-999.00	-999.00	-999.00	13.70	0.00	101.90	102.50	14.40	0.00	-999.00	-999.00	
24	1.50	0.00	107.40	-999.00	-999.00	-999.00	14.00	0.00	101.90	101.80	14.10	0.00	-999.00	-999.00	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB	WA TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB	GAS %SAT	
1	14.20	0.00	-999.00	-999.00	21.30	0.00	100.20	99.70	0.00	100.50	101.00	100.10	0.00	98.70	
2	19.60	0.00	-999.00	-999.00	20.90	0.00	100.20	99.70	0.00	100.50	101.00	100.10	0.00	98.80	
3	20.50	0.00	-999.00	-999.00	24.70	0.00	100.20	99.70	0.00	100.60	101.10	100.20	0.00	99.00	
4	20.40	0.00	-999.00	-999.00	23.00	0.00	100.20	99.50	0.00	100.60	101.00	100.10	0.00	99.00	
5	33.90	0.00	-999.00	-999.00	24.00	0.00	100.20	99.50	0.00	100.50	101.00	100.20	0.00	98.90	
6	40.70	0.00	-999.00	-999.00	38.50	0.00	100.10	99.50	0.00	100.50	101.00	100.10	0.00	98.90	
7	41.20	0.00	-999.00	-999.00	40.10	0.00	100.10	99.60	0.00	100.50	101.00	100.10	0.00	98.80	
8	41.40	0.00	-999.00	-999.00	43.00	0.00	100.10	99.60	0.00	100.50	101.00	100.10	0.00	98.70	
9	40.40	0.00	-999.00	-999.00	43.10	0.00	100.10	99.60	0.00	100.40	101.00	100.10	0.00	98.50	
10	40.30	0.00	-999.00	-999.00	42.00	0.00	100.10	99.70	0.00	100.40	101.00	100.10	0.00	98.50	
11	39.80	0.00	-999.00	-999.00	41.20	0.00	100.30	99.90	0.00	100.60	101.10	100.40	0.00	98.50	
12	39.70	0.00	-999.00	-999.00	41.10	0.00	100.50	100.00	0.00	100.70	101.20	100.40	0.00	98.70	
13	39.40	0.00	-999.00	-999.00	41.20	0.00	100.40	100.10	0.00	100.90	101.20	100.60	0.00	99.00	
14	37.70	0.00	-999.00	-999.00	37.10	0.00	100.50	100.10	0.00	101.10	101.30	100.70	0.00	99.20	
15	36.10	0.00	-999.00	-999.00	36.80	0.00	100.50	100.00	0.00	101.20	101.40	100.80	0.00	99.40	
16	35.90	0.00	-999.00	-999.00	36.10	0.00	100.60	100.10	0.00	101.20	101.50	100.90	0.00	99.40	
17	36.20	0.00	-999.00	-999.00	32.90	0.00	100.60	100.10	0.00	101.50	101.60	101.00	0.00	99.60	
18	37.90	0.00	-999.00	-999.00	32.70	0.00	100.60	100.10	0.00	101.50	101.50	100.90	0.00	99.60	
19	40.40	0.00	-999.00	-999.00	32.70	0.00	100.70	100.10	0.00	101.40	101.50	100.90	0.00	99.80	
20	41.30	0.00	-999.00	-999.00	32.80	0.00	100.70	100.20	0.00	101.60	101.50	100.90	0.00	99.80	
21	44.70	0.00	-999.00	-999.00	33.20	0.00	100.70	100.00	0.00	101.70	101.50	100.90	0.00	99.80	
22	40.00	0.00	-999.00	-999.00	32.20	0.00	100.50	99.90	0.00	101.30	101.40	100.60	0.00	99.70	
23	17.30	0.00	-999.00	-999.00	25.60	0.00	100.50	99.90	0.00	101.20	101.30	100.50	0.00	99.70	
24	14.00	0.00	-999.00	-999.00	13.30	0.00	100.50	99.80	0.00	101.00	101.20	100.50	0.00	99.60	

22 FEB 2003

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

22 FEB 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	LOWER GRANITE	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.		
1	1.40	0.00	107.40	-999.00	-999.00	-999.00	13.80	0.00	101.70	101.70	13.90	0.00	-999.00	-999.00	
2	1.50	0.00	107.40	-999.00	-999.00	-999.00	20.70	0.00	101.60	101.60	13.90	0.00	-999.00	-999.00	
3	1.40	0.00	107.30	-999.00	-999.00	-999.00	21.20	0.00	101.60	101.40	13.80	0.00	-999.00	-999.00	
4	1.40	0.00	107.20	-999.00	-999.00	-999.00	25.10	0.00	101.50	101.40	16.90	0.00	-999.00	-999.00	
5	1.50	0.00	107.10	-999.00	-999.00	-999.00	27.10	0.00	101.40	101.30	16.00	0.00	-999.00	-999.00	
6	1.40	0.00	107.00	-999.00	-999.00	-999.00	27.90	0.00	101.30	101.20	20.00	0.00	-999.00	-999.00	
7	1.50	0.00	106.90	-999.00	-999.00	-999.00	33.70	0.00	101.30	101.10	20.70	0.00	-999.00	-999.00	
8	1.40	0.00	107.10	-999.00	-999.00	-999.00	35.80	0.00	101.20	101.10	32.40	0.00	-999.00	-999.00	
9	1.50	0.00	107.30	-999.00	-999.00	-999.00	34.10	0.00	101.10	101.00	33.90	0.00	-999.00	-999.00	
10	1.40	0.00	107.90	-999.00	-999.00	-999.00	37.80	0.00	101.20	101.00	39.10	0.00	-999.00	-999.00	
11	1.50	0.00	107.90	-999.00	-999.00	-999.00	37.60	0.00	101.10	101.00	39.80	0.00	-999.00	-999.00	
12	1.40	0.00	108.10	-999.00	-999.00	-999.00	37.40	0.00	101.40	101.10	39.80	0.00	-999.00	-999.00	
13	1.50	0.00	108.30	-999.00	-999.00	-999.00	39.60	0.00	101.30	101.20	42.40	0.00	-999.00	-999.00	
14	1.40	0.00	108.10	-999.00	-999.00	-999.00	39.80	0.00	101.40	101.30	43.40	0.00	-999.00	-999.00	
15	1.50	0.00	108.10	-999.00	-999.00	-999.00	40.40	0.00	101.30	101.20	41.80	0.00	-999.00	-999.00	
16	1.40	0.00	107.70	-999.00	-999.00	-999.00	39.80	0.00	101.30	101.10	41.90	0.00	-999.00	-999.00	
17	1.50	0.00	107.70	-999.00	-999.00	-999.00	39.80	0.00	101.30	101.10	41.90	0.00	-999.00	-999.00	
18	1.40	0.00	107.30	-999.00	-999.00	-999.00	39.80	0.00	101.10	101.20	42.70	0.00	-999.00	-999.00	
19	1.50	0.00	107.20	-999.00	-999.00	-999.00	39.90	0.00	101.10	101.00	42.10	0.00	-999.00	-999.00	
20	1.40	0.00	107.10	-999.00	-999.00	-999.00	40.50	0.00	101.10	101.00	45.90	0.00	-999.00	-999.00	
21	1.50	0.00	107.00	-999.00	-999.00	-999.00	39.90	0.00	100.90	100.90	45.90	0.00	-999.00	-999.00	
22	1.40	0.00	107.00	-999.00	-999.00	-999.00	37.50	0.00	100.80	100.80	42.50	0.00	-999.00	-999.00	
23	1.40	0.00	107.00	-999.00	-999.00	-999.00	17.80	0.00	100.80	100.80	32.10	0.00	-999.00	-999.00	
24	1.50	0.00	106.90	-999.00	-999.00	-999.00	17.30	0.00	100.90	100.80	17.40	0.00	-999.00	-999.00	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB	WA TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB	GAS %SAT	
1	14.10	0.00	-999.00	-999.00	9.30	0.00	100.30	99.70	0.00	100.90	101.10	100.30	0.00	99.50	
2	13.90	0.00	-999.00	-999.00	10.00	0.00	100.10	99.60	0.00	100.80	101.00	100.20	0.00	99.30	
3	13.90	0.00	-999.00	-999.00	9.60	0.00	100.10	99.60	0.00	100.80	101.00	100.20	0.00	99.20	
4	15.90	0.00	-999.00	-999.00	11.30	0.00	100.00	99.50	0.00	100.80	101.00	100.10	0.00	99.00	
5	16.30	0.00	-999.00	-999.00	12.20	0.00	99.90	99.50	0.00	100.70	100.90	100.10	0.00	99.00	
6	16.60	0.00	-999.00	-999.00	12.50	0.00	99.90	99.90	0.00	100.60	100.90	100.00	0.00	98.80	
7	20.50	0.00	-999.00	-999.00	13.20	0.00	99.90	99.40	0.00	100.50	100.80	99.90	0.00	98.60	
8	34.00	0.00	-999.00	-999.00	24.80	0.00	99.80	99.40	0.00	100.50	100.70	99.80	0.00	98.40	
9	33.20	0.00	-999.00	-999.00	34.40	0.00	99.80	99.80	0.00	100.50	100.70	100.00	0.00	98.40	
10	38.50	0.00	-999.00	-999.00	39.60	0.00	99.80	99.50	0.00	100.50	100.80	100.10	0.00	98.30	
11	38.90	0.00	-999.00	-999.00	39.60	0.00	99.80	99.60	0.00	100.70	100.80	100.10	0.00	98.30	
12	39.60	0.00	-999.00	-999.00	39.50	0.00	99.90	99.60	0.00	100.60	100.90	100.40	0.00	98.50	
13	41.60	0.00	-999.00	-999.00	42.40	0.00	100.00	99.70	0.00	100.80	101.00	100.60	0.00	98.70	
14	42.10	0.00	-999.00	-999.00	42.30	0.00	100.00	99.80	0.00	100.90	101.00	100.60	0.00	98.90	
15	42.00	0.00	-999.00	-999.00	43.10	0.00	100.20	100.40	0.00	101.10	101.20	100.70	0.00	99.00	
16	42.10	0.00	-999.00	-999.00	42.20	0.00	100.20	99.70	0.00	101.10	101.20	100.60	0.00	99.20	
17	42.00	0.00	-999.00	-999.00	42.10	0.00	100.10	99.60	0.00	101.10	101.10	100.50	0.00	99.30	
18	44.40	0.00	-999.00	-999.00	48.30	0.00	100.10	99.50	0.00	101.10	101.10	100.50	0.00	99.30	
19	42.10	0.00	-999.00	-999.00	43.20	0.00	100.00	99.40	0.00	101.00	101.00	100.30	0.00	99.40	
20	51.20	0.00	-999.00	-999.00	49.90	0.00	100.00	99.40	0.00	101.00	101.00	100.20	0.00	99.40	
21	51.90	0.00	-999.00	-999.00	50.60	0.00	100.00	99.30	0.00	100.80	100.80	100.10	0.00	99.30	
22	51.80	0.00	-999.00	-999.00	51.70	0.00	99.90	99.20	0.00	100.70	100.70	100.00	0.00	99.10	
23	51.50	0.00	-999.00	-999.00	50.10	0.00	99.80	99.20	0.00	100.70	100.60	99.90	0.00	98.90	
24	35.40	0.00	-999.00	-999.00	44.40	0.00	99.80	99.80	0.00	100.70	100.70	99.90	0.00	98.70	

23 FEB 2003

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

23 FEB 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	LOWER GRANITE	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.		
1	1.40	0.00	106.90	-999.00	-999.00	-999.00	17.10	0.00	100.70	100.60	14.50	0.00	-999.00	-999.00	
2	1.50	0.00	106.80	-999.00	-999.00	-999.00	16.90	0.00	100.70	100.50	14.40	0.00	-999.00	-999.00	
3	1.40	0.00	106.80	-999.00	-999.00	-999.00	17.00	0.00	100.70	100.50	14.60	0.00	-999.00	-999.00	
4	1.50	0.00	106.90	-999.00	-999.00	-999.00	17.00	0.00	100.60	100.50	14.30	0.00	-999.00	-999.00	
5	1.40	0.00	106.70	-999.00	-999.00	-999.00	17.20	0.00	100.60	100.40	14.20	0.00	-999.00	-999.00	
6	1.50	0.00	106.50	-999.00	-999.00	-999.00	17.80	0.00	100.50	100.30	15.20	0.00	-999.00	-999.00	
7	1.40	0.00	106.30	-999.00	-999.00	-999.00	38.80	0.00	100.50	100.30	37.10	0.00	-999.00	-999.00	
8	1.50	0.00	106.30	-999.00	-999.00	-999.00	39.70	0.00	100.30	100.10	37.80	0.00	-999.00	-999.00	
9	1.40	0.00	106.50	-999.00	-999.00	-999.00	39.50	0.00	100.30	100.20	39.90	0.00	-999.00	-999.00	
10	1.50	0.00	106.60	-999.00	-999.00	-999.00	40.80	0.00	100.30	100.10	40.20	0.00	-999.00	-999.00	
11	1.40	0.00	107.00	-999.00	-999.00	-999.00	39.90	0.00	100.40	100.10	40.70	0.00	-999.00	-999.00	
12	1.50	0.00	107.30	-999.00	-999.00	-999.00	39.90	0.00	100.50	100.10	40.00	0.00	-999.00	-999.00	
13	1.40	0.00	107.70	-999.00	-999.00	-999.00	39.70	0.00	100.70	100.20	39.90	0.00	-999.00	-999.00	
14	1.40	0.00	107.90	-999.00	-999.00	-999.00	35.50	0.00	100.70	100.30	34.90	0.00	-999.00	-999.00	
15	1.50	0.00	108.00	-999.00	-999.00	-999.00	35.30	0.00	100.70	100.30	34.50	0.00	-999.00	-999.00	
16	1.40	0.00	107.90	-999.00	-999.00	-999.00	36.00	0.00	100.50	100.30	34.70	0.00	-999.00	-999.00	
17	1.50	0.00	107.50	-999.00	-999.00	-999.00	35.50	0.00	100.40	100.20	33.70	0.00	-999.00	-999.00	
18	1.40	0.00	106.90	-999.00	-999.00	-999.00	35.90	0.00	100.40	100.30	34.20	0.00	-999.00	-999.00	
19	1.50	0.00	106.40	-999.00	-999.00	-999.00	44.40	0.00	100.30	100.40	42.40	0.00	-999.00	-999.00	
20	1.40	0.00	106.40	-999.00	-999.00	-999.00	45.30	0.00	100.30	100.30	48.60	0.00	-999.00	-999.00	
21	1.50	0.00	106.30	-999.00	-999.00	-999.00	56.90	0.00	100.30	100.10	57.20	0.00	-999.00	-999.00	
22	1.40	0.00	106.30	-999.00	-999.00	-999.00	55.80	0.00	100.20	100.00	57.30	0.00	-999.00	-999.00	
23	1.50	0.00	106.30	-999.00	-999.00	-999.00	31.80	0.00	100.20	100.10	51.50	0.00	-999.00	-999.00	
24	1.40	0.00	106.20	-999.00	-999.00	-999.00	27.20	0.00	100.10	100.00	31.20	0.00	-999.00	-999.00	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB	WA TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB	GAS %SAT	
1	17.30	0.00	-999.00	-999.00	28.20	0.00	99.80	99.20	0.00	100.70	100.60	99.90	0.00	98.60	
2	16.70	0.00	-999.00	-999.00	12.30	0.00	99.70	99.00	0.00	100.70	100.60	99.90	0.00	98.20	
3	16.80	0.00	-999.00	-999.00	11.80	0.00	99.50	98.90	0.00	100.40	100.60	99.80	0.00	98.10	
4	16.80	0.00	-999.00	-999.00	11.90	0.00	99.50	98.80	0.00	100.40	100.50	99.90	0.00	97.90	
5	16.80	0.00	-999.00	-999.00	12.10	0.00	99.40	98.70	0.00	100.30	100.50	99.80	0.00	97.70	
6	18.00	0.00	-999.00	-999.00	12.90	0.00	99.30	98.80	0.00	100.20	100.30	99.70	0.00	97.50	
7	39.00	0.00	-999.00	-999.00	28.50	0.00	99.30	98.60	0.00	100.10	100.30	99.60	0.00	97.30	
8	39.90	0.00	-999.00	-999.00	40.50	0.00	99.20	99.20	0.00	100.00	100.00	99.60	0.00	97.10	
9	39.90	0.00	-999.00	-999.00	41.30	0.00	99.20	99.10	0.00	100.00	100.00	99.60	0.00	96.90	
10	39.80	0.00	-999.00	-999.00	42.10	0.00	99.30	98.80	0.00	100.10	100.00	99.60	0.00	96.80	
11	40.10	0.00	-999.00	-999.00	42.80	0.00	99.30	98.90	0.00	100.20	100.20	99.60	0.00	96.80	
12	39.50	0.00	-999.00	-999.00	42.60	0.00	99.30	99.60	0.00	100.40	100.20	99.80	0.00	96.70	
13	39.10	0.00	-999.00	-999.00	41.10	0.00	99.40	99.10	0.00	100.40	100.40	99.90	0.00	96.80	
14	35.00	0.00	-999.00	-999.00	35.00	0.00	99.40	99.70	0.00	100.50	100.40	99.90	0.00	97.00	
15	34.90	0.00	-999.00	-999.00	35.20	0.00	99.40	99.00	0.00	100.40	100.60	100.00	0.00	96.90	
16	36.20	0.00	-999.00	-999.00	36.20	0.00	99.50	99.00	0.00	100.50	100.60	100.00	0.00	97.10	
17	35.30	0.00	-999.00	-999.00	34.70	0.00	99.50	98.90	0.00	100.50	100.60	100.00	0.00	97.10	
18	35.00	0.00	-999.00	-999.00	35.10	0.00	99.40	99.10	0.00	100.40	100.80	99.90	0.00	97.20	
19	43.60	0.00	-999.00	-999.00	40.60	0.00	99.30	98.80	0.00	100.20	100.80	99.90	0.00	97.20	
20	46.40	0.00	-999.00	-999.00	41.20	0.00	99.30	98.60	0.00	100.30	100.70	99.80	0.00	97.20	
21	57.50	0.00	-999.00	-999.00	47.80	0.00	99.30	98.70	0.00	100.20	100.50	99.70	0.00	97.00	
22	59.10	0.00	-999.00	-999.00	47.50	0.00	99.20	98.80	0.00	100.10	100.40	99.60	0.00	96.90	
23	60.50	0.00	-999.00	-999.00	53.00	0.00	99.20	98.60	0.00	100.10	100.30	99.50	0.00	96.70	
24	51.90	0.00	-999.00	-999.00	47.80	0.00	99.20	98.50	0.00	99.90	100.10	99.50	0.00	96.60	

24 FEB 2003

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

24 FEB 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	LOWER GRANITE	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.		
1	1.50	0.00	106.20	-999.00	-999.00	-999.00	25.50	0.00	100.10	100.00	20.30	0.00	-999.00	-999.00	
2	1.40	0.00	106.10	-999.00	-999.00	-999.00	14.50	0.00	100.20	100.10	12.90	0.00	-999.00	-999.00	
3	1.50	0.00	106.10	-999.00	-999.00	-999.00	26.90	0.00	100.10	100.10	12.60	0.00	-999.00	-999.00	
4	1.40	0.00	106.10	-999.00	-999.00	-999.00	36.30	0.00	100.10	100.10	14.50	0.00	-999.00	-999.00	
5	1.40	0.00	106.10	-999.00	-999.00	-999.00	42.00	0.00	100.00	99.90	30.20	0.00	-999.00	-999.00	
6	1.40	0.00	105.90	-999.00	-999.00	-999.00	43.10	0.00	100.00	99.70	45.60	0.00	-999.00	-999.00	
7	1.50	0.00	105.90	-999.00	-999.00	-999.00	44.00	0.00	100.00	99.70	45.70	0.00	-999.00	-999.00	
8	1.40	0.00	106.10	-999.00	-999.00	-999.00	42.90	0.00	99.80	99.70	45.70	0.00	-999.00	-999.00	
9	1.50	0.00	106.20	-999.00	-999.00	-999.00	39.80	0.00	99.90	99.70	46.10	0.00	-999.00	-999.00	
10	1.50	0.00	106.50	-999.00	-999.00	-999.00	34.70	0.00	100.10	99.70	42.70	0.00	-999.00	-999.00	
11	1.40	0.00	106.70	-999.00	-999.00	-999.00	34.40	0.00	100.10	99.80	41.60	0.00	-999.00	-999.00	
12	1.50	0.00	107.30	-999.00	-999.00	-999.00	29.80	0.00	100.10	99.80	40.60	0.00	-999.00	-999.00	
13	1.40	0.00	107.90	-999.00	-999.00	-999.00	28.60	0.00	100.50	100.10	32.90	0.00	-999.00	-999.00	
14	1.50	0.00	108.40	-999.00	-999.00	-999.00	27.00	0.00	100.60	100.10	28.60	0.00	-999.00	-999.00	
15	1.40	0.00	108.30	-999.00	-999.00	-999.00	31.60	0.00	100.70	100.10	31.70	0.00	-999.00	-999.00	
16	1.50	0.00	108.10	-999.00	-999.00	-999.00	38.40	0.00	100.90	100.20	33.90	0.00	-999.00	-999.00	
17	1.40	0.00	107.50	-999.00	-999.00	-999.00	39.70	0.00	100.70	100.20	43.30	0.00	-999.00	-999.00	
18	1.50	0.00	107.00	-999.00	-999.00	-999.00	39.30	0.00	100.40	100.20	44.70	0.00	-999.00	-999.00	
19	1.40	0.00	106.40	-999.00	-999.00	-999.00	45.20	0.00	100.50	100.10	47.80	0.00	-999.00	-999.00	
20	1.50	0.00	106.10	-999.00	-999.00	-999.00	49.30	0.00	100.80	100.10	48.40	0.00	-999.00	-999.00	
21	1.50	0.00	105.90	-999.00	-999.00	-999.00	56.90	0.00	100.50	100.40	55.50	0.00	-999.00	-999.00	
22	1.50	0.00	105.80	-999.00	-999.00	-999.00	55.40	0.00	100.40	100.20	55.50	0.00	-999.00	-999.00	
23	1.50	0.00	105.80	-999.00	-999.00	-999.00	36.80	0.00	100.40	100.20	35.70	0.00	-999.00	-999.00	
24	1.50	0.00	105.80	-999.00	-999.00	-999.00	14.80	0.00	100.40	100.20	14.90	0.00	-999.00	-999.00	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB	MCNARY	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	PASCO	
1	26.90	0.00	-999.00	-999.00	33.70	0.00	99.20	98.50	0.00	99.90	100.10	99.30	0.00	-96.30	
2	14.70	0.00	-999.00	-999.00	24.40	0.00	99.10	98.30	0.00	99.80	99.90	99.20	0.00	-96.20	
3	14.00	0.00	-999.00	-999.00	10.70	0.00	99.00	98.30	0.00	99.80	99.90	99.10	0.00	-95.90	
4	14.40	0.00	-999.00	-999.00	8.90	0.00	99.00	98.30	0.00	99.60	99.80	99.00	0.00	-95.80	
5	20.00	0.00	-999.00	-999.00	10.40	0.00	98.90	98.20	0.00	99.50	99.50	98.90	0.00	-95.40	
6	26.20	0.00	-999.00	-999.00	9.60	0.00	98.80	98.10	0.00	99.50	99.50	99.00	0.00	-95.40	
7	44.40	0.00	-999.00	-999.00	30.30	0.00	98.80	98.00	0.00	99.40	99.40	98.90	0.00	-95.30	
8	49.10	0.00	-999.00	-999.00	45.90	0.00	98.70	99.00	0.00	99.40	99.40	98.90	0.00	-95.20	
9	49.30	0.00	-999.00	-999.00	52.30	0.00	98.90	98.40	0.00	99.40	99.40	98.90	0.00	-95.00	
10	50.40	0.00	-999.00	-999.00	54.90	0.00	99.00	98.50	0.00	99.50	99.50	98.90	0.00	-97.70	
11	49.30	0.00	-999.00	-999.00	54.10	0.00	99.10	98.50	0.00	99.90	99.50	98.80	0.00	-98.10	
12	49.50	0.00	-999.00	-999.00	54.90	0.00	99.10	99.00	0.00	99.80	99.10	98.40	0.00	-98.40	
13	50.70	0.00	-999.00	-999.00	52.70	0.00	100.40	98.70	0.00	100.00	99.90	99.40	0.00	-98.50	
14	42.30	0.00	-999.00	-999.00	49.50	0.00	100.70	98.80	0.00	100.30	100.10	99.30	0.00	-98.00	
15	40.40	0.00	-999.00	-999.00	45.00	0.00	101.10	98.80	0.00	100.20	100.00	99.50	0.00	-98.30	
16	39.60	0.00	-999.00	-999.00	42.70	0.00	101.20	98.90	0.00	99.90	100.10	99.60	0.00	-98.50	
17	44.90	0.00	-999.00	-999.00	42.90	0.00	100.50	98.90	0.00	99.80	100.20	99.40	0.00	-98.70	
18	46.80	0.00	-999.00	-999.00	51.20	0.00	100.20	98.80	0.00	99.60	100.30	99.40	0.00	-98.80	
19	49.70	0.00	-999.00	-999.00	54.60	0.00	99.20	98.70	0.00	99.40	100.40	99.20	0.00	-98.80	
20	50.00	0.00	-999.00	-999.00	54.10	0.00	99.20	98.70	0.00	99.40	100.50	99.20	0.00	-98.60	
21	58.80	0.00	-999.00	-999.00	57.40	0.00	99.20	98.60	0.00	99.40	100.30	99.20	0.00	-98.40	
22	57.40	0.00	-999.00	-999.00	57.40	0.00	99.10	98.50	0.00	99.30	100.30	99.20	0.00	-98.40	
23	36.90	0.00	-999.00	-999.00	41.10	0.00	99.00	98.50	0.00	99.20	100.30	99.20	0.00	-98.10	
24	27.40	0.00	-999.00	-999.00	22.20	0.00	99.00	98.50	0.00	99.10	100.30	99.10	0.00	-98.00	

25 FEB 2003

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

25 FEB 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.			
1	1.50	0.00	105.60	-999.00	-999.00	-999.00	0.10	0.00	100.40	100.20	0.30	0.00	-999.00	-999.00	
2	1.50	0.00	105.50	-999.00	-999.00	-999.00	0.00	0.00	100.50	100.20	0.30	0.00	-999.00	-999.00	
3	1.50	0.00	105.50	-999.00	-999.00	-999.00	0.70	0.00	100.40	100.20	0.30	0.00	-999.00	-999.00	
4	1.50	0.00	105.40	-999.00	-999.00	-999.00	13.50	0.00	100.30	100.30	0.30	0.00	-999.00	-999.00	
5	1.50	0.00	105.50	-999.00	-999.00	-999.00	20.70	0.00	100.30	100.30	14.80	0.00	-999.00	-999.00	
6	1.50	0.00	105.50	-999.00	-999.00	-999.00	32.30	0.00	100.20	100.30	31.60	0.00	-999.00	-999.00	
7	1.50	0.00	105.40	-999.00	-999.00	-999.00	33.10	0.00	100.20	100.10	33.70	0.00	-999.00	-999.00	
8	1.50	0.00	105.30	-999.00	-999.00	-999.00	41.80	0.00	100.20	100.00	41.50	0.00	-999.00	-999.00	
9	1.50	0.00	105.60	-999.00	-999.00	-999.00	41.40	0.00	100.20	100.10	43.20	0.00	-999.00	-999.00	
10	1.50	0.00	106.00	-999.00	-999.00	-999.00	41.30	0.00	100.40	100.10	42.80	0.00	-999.00	-999.00	
11	1.50	0.00	106.30	-999.00	-999.00	-999.00	44.10	0.00	100.40	100.30	44.00	0.00	-999.00	-999.00	
12	1.50	0.00	106.90	-999.00	-999.00	-999.00	43.70	0.00	100.70	100.40	44.70	0.00	-999.00	-999.00	
13	1.50	0.00	107.40	-999.00	-999.00	-999.00	42.50	0.00	101.00	100.40	44.00	0.00	-999.00	-999.00	
14	1.50	0.00	107.80	-999.00	-999.00	-999.00	43.50	0.00	101.00	100.70	44.10	0.00	-999.00	-999.00	
15	1.50	0.00	107.90	-999.00	-999.00	-999.00	42.70	0.00	101.30	100.80	44.30	0.00	-999.00	-999.00	
16	1.50	0.00	107.80	-999.00	-999.00	-999.00	42.80	0.00	101.40	100.70	44.00	0.00	-999.00	-999.00	
17	1.50	0.00	107.30	-999.00	-999.00	-999.00	44.60	0.00	101.30	100.90	45.20	0.00	-999.00	-999.00	
18	1.50	0.00	106.60	-999.00	-999.00	-999.00	43.00	0.00	101.20	100.80	44.30	0.00	-999.00	-999.00	
19	1.50	0.00	106.10	-999.00	-999.00	-999.00	43.70	0.00	101.20	100.80	45.00	0.00	-999.00	-999.00	
20	1.50	0.00	105.90	-999.00	-999.00	-999.00	43.00	0.00	101.30	100.80	43.70	0.00	-999.00	-999.00	
21	1.50	0.00	105.90	-999.00	-999.00	-999.00	42.10	0.00	101.20	100.80	45.90	0.00	-999.00	-999.00	
22	1.50	0.00	106.10	-999.00	-999.00	-999.00	32.20	0.00	101.30	100.90	42.20	0.00	-999.00	-999.00	
23	1.50	0.00	106.10	-999.00	-999.00	-999.00	21.70	0.00	101.30	101.00	27.10	0.00	-999.00	-999.00	
24	1.50	0.00	106.10	-999.00	-999.00	-999.00	21.50	0.00	101.10	101.00	21.70	0.00	-999.00	-999.00	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.			
1	14.50	0.00	-999.00	-999.00	10.00	0.00	98.80	98.30	62.70	0.00	99.10	100.10	99.00		97.80
2	13.50	0.00	-999.00	-999.00	9.40	0.00	98.80	98.30	70.50	0.00	98.90	100.10	99.10		97.70
3	13.50	0.00	-999.00	-999.00	9.40	0.00	98.80	98.20	71.80	0.00	99.00	100.10	99.10		97.40
4	13.60	0.00	-999.00	-999.00	9.40	0.00	98.80	98.20	94.80	0.00	99.00	100.20	99.20		97.20
5	14.60	0.00	-999.00	-999.00	13.20	0.00	98.70	98.20	96.70	0.00	99.00	100.10	99.20		96.90
6	32.40	0.00	-999.00	-999.00	29.40	0.00	98.90	98.40	122.50	0.00	99.00	99.90	99.20		96.90
7	34.40	0.00	-999.00	-999.00	33.20	0.00	98.70	98.60	126.10	0.00	98.90	99.90	99.20		96.60
8	41.50	0.00	-999.00	-999.00	41.10	0.00	98.80	98.30	134.50	0.00	98.80	99.90	99.10		96.50
9	41.70	0.00	-999.00	-999.00	40.10	0.00	98.90	98.30	131.70	0.00	98.80	100.00	99.10		96.50
10	42.50	0.00	-999.00	-999.00	40.20	0.00	99.10	98.50	130.50	0.00	99.00	99.90	99.20		96.50
11	41.80	0.00	-999.00	-999.00	41.00	0.00	99.10	98.70	132.30	0.00	99.70	100.00	99.30		96.60
12	39.90	0.00	-999.00	-999.00	40.30	0.00	99.70	98.90	130.80	0.00	100.30	100.00	99.50		96.70
13	39.60	0.00	-999.00	-999.00	40.30	0.00	0.00	99.00	131.60	0.00	101.10	100.20	99.70		96.90
14	40.00	0.00	-999.00	-999.00	40.20	0.00	100.10	99.20	131.60	0.00	101.20	100.30	99.80		97.10
15	39.30	0.00	-999.00	-999.00	40.30	0.00	99.70	99.60	135.90	0.00	101.40	100.30	99.70		97.50
16	39.30	0.00	-999.00	-999.00	41.10	0.00	99.60	99.50	132.30	0.00	101.70	100.60	99.80		97.70
17	39.20	0.00	-999.00	-999.00	41.90	0.00	99.60	99.30	135.70	0.00	100.30	100.60	99.90		97.90
18	39.20	0.00	-999.00	-999.00	40.70	0.00	99.60	99.20	139.80	0.00	100.00	100.80	99.80		98.10
19	41.30	0.00	-999.00	-999.00	40.80	0.00	99.60	99.30	139.70	0.00	100.00	101.00	99.80		98.20
20	42.10	0.00	-999.00	-999.00	40.50	0.00	99.70	99.50	139.00	0.00	99.50	101.20	99.80		98.30
21	42.90	0.00	-999.00	-999.00	41.20	0.00	99.90	99.20	136.50	0.00	99.40	101.10	99.80		98.30
22	41.80	0.00	-999.00	-999.00	40.20	0.00	99.80	99.20	122.10	0.00	99.70	101.20	99.90		98.10
23	34.60	0.00	-999.00	-999.00	29.30	0.00	99.80	99.30	100.30	0.00	99.50	101.20	99.90		98.20
24	27.90	0.00	-999.00	-999.00	24.30	0.00	99.70	99.30	99.00	0.00	99.60	101.40	100.00		98.40

26 FEB 2003

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

26 FEB 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	LOWER GRANITE	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.		
1	1.50	0.00	106.10	-999.00	-999.00	-999.00	17.00	0.00	101.00	100.90	19.10	0.00	-999.00	-999.00	
2	1.50	0.00	106.40	-999.00	-999.00	-999.00	16.60	0.00	101.10	101.00	16.90	0.00	-999.00	-999.00	
3	1.50	0.00	106.40	-999.00	-999.00	-999.00	16.60	0.00	101.20	101.00	16.90	0.00	-999.00	-999.00	
4	1.50	0.00	106.40	-999.00	-999.00	-999.00	17.20	0.00	101.00	100.90	16.80	0.00	-999.00	-999.00	
5	1.50	0.00	106.40	-999.00	-999.00	-999.00	31.50	0.00	101.20	101.10	17.30	0.00	-999.00	-999.00	
6	1.50	0.00	106.30	-999.00	-999.00	-999.00	31.70	0.00	101.20	101.10	32.60	0.00	-999.00	-999.00	
7	1.50	0.00	106.20	-999.00	-999.00	-999.00	31.70	0.00	101.20	101.10	32.90	0.00	-999.00	-999.00	
8	1.50	0.00	106.30	-999.00	-999.00	-999.00	32.00	0.00	101.10	101.00	38.30	0.00	-999.00	-999.00	
9	1.50	0.00	106.50	-999.00	-999.00	-999.00	32.80	0.00	101.10	101.00	33.80	0.00	-999.00	-999.00	
10	1.50	0.00	106.80	-999.00	-999.00	-999.00	33.90	0.00	101.10	101.20	29.90	0.00	-999.00	-999.00	
11	1.50	0.00	107.50	-999.00	-999.00	-999.00	32.20	0.00	101.10	101.20	28.40	0.00	-999.00	-999.00	
12	1.50	0.00	108.00	-999.00	-999.00	-999.00	31.00	0.00	101.30	101.20	25.70	0.00	-999.00	-999.00	
13	1.50	0.00	108.50	-999.00	-999.00	-999.00	21.40	0.00	101.60	101.20	21.60	0.00	-999.00	-999.00	
14	1.50	0.00	109.10	-999.00	-999.00	-999.00	21.30	0.00	101.70	101.30	20.40	0.00	-999.00	-999.00	
15	1.40	0.00	108.70	-999.00	-999.00	-999.00	25.20	0.00	101.80	102.10	16.90	0.00	-999.00	-999.00	
16	1.40	0.00	109.00	-999.00	-999.00	-999.00	21.30	0.00	101.80	101.40	14.10	0.00	-999.00	-999.00	
17	1.50	0.00	108.90	-999.00	-999.00	-999.00	21.40	0.00	102.20	101.40	16.40	0.00	-999.00	-999.00	
18	1.40	0.00	108.50	-999.00	-999.00	-999.00	21.90	0.00	101.80	101.10	16.70	0.00	-999.00	-999.00	
19	1.40	0.00	108.10	-999.00	-999.00	-999.00	34.10	0.00	101.80	101.40	17.20	0.00	-999.00	-999.00	
20	1.50	0.00	107.80	-999.00	-999.00	-999.00	35.50	0.00	101.60	101.10	25.30	0.00	-999.00	-999.00	
21	1.40	0.00	107.90	-999.00	-999.00	-999.00	34.80	0.00	101.30	101.00	25.80	0.00	-999.00	-999.00	
22	1.40	0.00	107.90	-999.00	-999.00	-999.00	32.70	0.00	101.10	100.80	27.40	0.00	-999.00	-999.00	
23	1.50	0.00	107.70	-999.00	-999.00	-999.00	13.50	0.00	100.90	101.00	27.80	0.00	-999.00	-999.00	
24	1.40	0.00	107.60	-999.00	-999.00	-999.00	0.30	0.00	100.90	100.80	21.70	0.00	-999.00	-999.00	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB	WA TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB	GAS %SAT	
1	20.50	0.00	-999.00	-999.00	20.00	0.00	99.60	99.20	0.00	99.50	101.50	99.90	0.00	98.30	
2	20.90	0.00	-999.00	-999.00	21.70	0.00	99.60	99.20	0.00	99.50	101.30	99.90	0.00	98.30	
3	20.60	0.00	-999.00	-999.00	19.80	0.00	99.70	99.30	0.00	99.50	101.40	100.00	0.00	98.30	
4	20.50	0.00	-999.00	-999.00	19.30	0.00	99.70	99.30	0.00	99.60	101.20	99.80	0.00	98.20	
5	20.70	0.00	-999.00	-999.00	19.20	0.00	99.70	99.70	0.00	99.60	101.20	100.00	0.00	98.20	
6	25.80	0.00	-999.00	-999.00	19.30	0.00	99.80	99.80	0.00	99.50	101.10	100.00	0.00	98.10	
7	31.90	0.00	-999.00	-999.00	21.00	0.00	99.90	99.40	0.00	99.50	101.10	100.00	0.00	97.80	
8	41.90	0.00	-999.00	-999.00	32.50	0.00	99.90	99.30	0.00	99.40	100.90	100.10	0.00	97.70	
9	41.70	0.00	-999.00	-999.00	38.10	0.00	99.90	99.60	0.00	99.60	100.80	100.10	0.00	97.60	
10	41.90	0.00	-999.00	-999.00	38.40	0.00	99.90	99.50	0.00	99.90	100.80	100.20	0.00	97.60	
11	38.50	0.00	-999.00	-999.00	38.50	0.00	99.90	99.60	0.00	100.00	100.80	100.20	0.00	97.60	
12	33.50	0.00	-999.00	-999.00	39.30	0.00	100.00	99.90	0.00	101.00	101.00	100.30	0.00	97.90	
13	33.00	0.00	-999.00	-999.00	38.40	0.00	100.00	99.90	0.00	101.30	101.00	100.60	0.00	98.20	
14	28.20	0.00	-999.00	-999.00	32.20	0.00	100.00	100.00	0.00	101.10	101.10	100.50	0.00	98.30	
15	23.00	0.00	-999.00	-999.00	30.50	0.00	100.00	100.10	0.00	100.90	101.10	100.50	0.00	98.60	
16	15.70	0.00	-999.00	-999.00	25.20	0.00	100.00	100.00	0.00	100.60	101.30	100.40	0.00	98.70	
17	15.00	0.00	-999.00	-999.00	18.30	0.00	100.00	100.50	0.00	100.20	101.30	100.40	0.00	98.90	
18	15.10	0.00	-999.00	-999.00	17.70	0.00	99.90	100.00	0.00	100.20	101.10	100.20	0.00	98.90	
19	15.30	0.00	-999.00	-999.00	17.80	0.00	99.90	99.80	0.00	100.00	101.40	100.20	0.00	98.90	
20	15.20	0.00	-999.00	-999.00	17.80	0.00	99.90	99.60	0.00	99.80	101.30	100.20	0.00	98.90	
21	16.00	0.00	-999.00	-999.00	19.30	0.00	99.80	99.60	0.00	99.80	101.10	100.10	0.00	98.80	
22	16.80	0.00	-999.00	-999.00	17.50	0.00	99.80	99.40	0.00	99.80	101.10	99.90	0.00	98.80	
23	16.70	0.00	-999.00	-999.00	12.00	0.00	99.80	99.40	0.00	99.60	101.20	99.90	0.00	98.80	
24	16.80	0.00	-999.00	-999.00	11.70	0.00	99.80	99.40	0.00	99.50	101.00	99.80	0.00	98.60	

27 FEB 2003

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

27 FEB 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	LOWER GRANITE	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.		
1	1.40	0.00	107.50	-999.00	-999.00	-999.00	0.10	0.00	100.90	100.60	21.40	0.00	-999.00	-999.00	
2	1.40	0.00	107.50	-999.00	-999.00	-999.00	0.10	0.00	100.70	100.60	13.20	0.00	-999.00	-999.00	
3	1.50	0.00	107.50	-999.00	-999.00	-999.00	0.10	0.00	100.70	100.40	12.40	0.00	-999.00	-999.00	
4	1.40	0.00	107.60	-999.00	-999.00	-999.00	0.10	0.00	100.50	100.50	12.20	0.00	-999.00	-999.00	
5	1.40	0.00	107.50	-999.00	-999.00	-999.00	0.10	0.00	100.50	100.50	12.30	0.00	-999.00	-999.00	
6	1.50	0.00	107.30	-999.00	-999.00	-999.00	30.10	0.00	100.40	100.80	14.50	0.00	-999.00	-999.00	
7	1.40	0.00	106.90	-999.00	-999.00	-999.00	33.90	0.00	100.20	100.50	26.20	0.00	-999.00	-999.00	
8	1.40	0.00	107.20	-999.00	-999.00	-999.00	22.00	0.00	100.30	100.30	25.90	0.00	-999.00	-999.00	
9	1.50	0.00	107.30	-999.00	-999.00	-999.00	21.50	0.00	100.20	100.20	25.80	0.00	-999.00	-999.00	
10	1.50	0.00	107.30	-999.00	-999.00	-999.00	21.90	0.00	100.40	100.30	17.90	0.00	-999.00	-999.00	
11	1.50	0.00	107.20	-999.00	-999.00	-999.00	21.30	0.00	100.40	100.30	17.60	0.00	-999.00	-999.00	
12	1.50	0.00	107.50	-999.00	-999.00	-999.00	21.50	0.00	100.40	100.30	17.40	0.00	-999.00	-999.00	
13	1.80	0.00	107.50	-999.00	-999.00	-999.00	21.40	0.00	100.50	100.30	18.80	0.00	-999.00	-999.00	
14	1.50	0.00	107.00	-999.00	-999.00	-999.00	21.20	0.00	100.90	100.30	17.40	0.00	-999.00	-999.00	
15	1.50	0.00	105.00	-999.00	-999.00	-999.00	21.80	0.00	100.80	100.30	17.30	0.00	-999.00	-999.00	
16	1.60	0.00	104.30	-999.00	-999.00	-999.00	21.40	0.00	100.80	100.30	18.30	0.00	-999.00	-999.00	
17	1.50	0.00	104.10	-999.00	-999.00	-999.00	23.10	0.00	100.70	100.20	33.60	0.00	-999.00	-999.00	
18	1.50	0.00	105.20	-999.00	-999.00	-999.00	21.50	0.00	100.50	100.70	34.60	0.00	-999.00	-999.00	
19	1.50	0.00	105.70	-999.00	-999.00	-999.00	30.40	0.00	100.40	100.30	34.70	0.00	-999.00	-999.00	
20	1.50	0.00	105.80	-999.00	-999.00	-999.00	38.10	0.00	100.40	100.70	37.30	0.00	-999.00	-999.00	
21	1.50	0.00	105.10	-999.00	-999.00	-999.00	46.90	0.00	100.30	100.30	47.20	0.00	-999.00	-999.00	
22	1.50	0.00	104.70	-999.00	-999.00	-999.00	47.30	0.00	100.30	100.10	48.00	0.00	-999.00	-999.00	
23	1.50	0.00	104.60	-999.00	-999.00	-999.00	32.10	0.00	100.30	100.10	47.20	0.00	-999.00	-999.00	
24	1.50	0.00	104.40	-999.00	-999.00	-999.00	31.30	0.00	100.10	100.00	30.80	0.00	-999.00	-999.00	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB	WA TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB	GAS %SAT	
1	16.90	0.00	-999.00	-999.00	10.60	0.00	99.60	99.40	0.00	99.50	101.00	99.70	0.00	98.60	
2	13.50	0.00	-999.00	-999.00	8.90	0.00	99.60	99.20	0.00	99.50	100.80	99.70	0.00	98.50	
3	14.90	0.00	-999.00	-999.00	9.50	0.00	99.60	100.10	0.00	99.50	100.80	99.70	0.00	98.30	
4	15.10	0.00	-999.00	-999.00	9.40	0.00	99.50	100.10	0.00	99.30	100.60	99.60	0.00	98.20	
5	20.10	0.00	-999.00	-999.00	14.00	0.00	99.50	99.50	0.00	99.20	100.60	99.60	0.00	98.20	
6	20.90	0.00	-999.00	-999.00	18.90	0.00	99.50	99.80	0.00	99.20	100.50	99.70	0.00	98.00	
7	20.50	0.00	-999.00	-999.00	19.20	0.00	99.30	99.40	0.00	99.20	100.50	99.50	0.00	97.80	
8	25.60	0.00	-999.00	-999.00	19.60	0.00	99.30	100.20	0.00	99.00	100.30	99.40	0.00	97.60	
9	26.00	0.00	-999.00	-999.00	19.20	0.00	99.40	99.20	0.00	99.10	100.20	99.40	0.00	97.50	
10	27.80	0.00	-999.00	-999.00	19.10	0.00	99.30	99.20	0.00	99.00	100.00	99.30	0.00	97.50	
11	18.90	0.00	-999.00	-999.00	20.60	0.00	99.30	99.30	0.00	99.10	100.00	99.40	0.00	97.60	
12	16.90	0.00	-999.00	-999.00	17.80	0.00	99.20	99.50	0.00	99.80	100.10	99.60	0.00	97.80	
13	16.70	0.00	-999.00	-999.00	18.00	0.00	99.20	99.60	0.00	101.30	100.10	99.70	0.00	98.10	
14	18.00	0.00	-999.00	-999.00	17.70	0.00	99.20	100.00	0.00	102.00	99.90	99.70	0.00	98.20	
15	19.40	0.00	-999.00	-999.00	19.20	0.00	99.20	100.30	0.00	102.10	100.10	99.60	0.00	98.50	
16	18.00	0.00	-999.00	-999.00	17.70	0.00	99.40	99.80	0.00	102.50	100.10	99.50	0.00	98.60	
17	33.50	0.00	-999.00	-999.00	20.10	0.00	99.20	99.50	0.00	102.80	100.30	99.50	0.00	98.70	
18	33.80	0.00	-999.00	-999.00	29.70	0.00	99.20	100.20	0.00	101.70	100.40	99.40	0.00	98.90	
19	35.70	0.00	-999.00	-999.00	31.20	0.00	99.10	99.00	0.00	100.60	100.40	100.70	0.00	98.80	
20	40.80	0.00	-999.00	-999.00	38.10	0.00	99.30	98.90	0.00	117.40	100.70	100.50	0.00	98.80	
21	51.40	0.00	-999.00	-999.00	47.10	0.00	99.20	98.90	0.00	113.90	100.10	100.00	0.00	99.20	
22	52.90	0.00	-999.00	-999.00	47.80	0.00	99.10	99.40	0.00	92.20	0.00	99.60	99.80	0.00	
23	51.70	0.00	-999.00	-999.00	48.80	0.00	99.10	98.70	0.00	74.30	0.00	99.30	99.90	0.00	
24	52.00	0.00	-999.00	-999.00	48.20	0.00	99.30	98.90	0.00	70.60	0.00	99.20	99.20	0.00	

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**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

28 FEB 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.			
1	1.50	0.00	104.40	-999.00	-999.00	-999.00	31.60	0.00	100.10	17.40	0.00	-999.00	-999.00	-999.00	-999.00
2	1.50	0.00	104.60	-999.00	-999.00	-999.00	32.20	0.00	100.00	16.80	0.00	-999.00	-999.00	-999.00	-999.00
3	1.50	0.00	104.60	-999.00	-999.00	-999.00	32.40	0.00	100.10	18.90	0.00	-999.00	-999.00	-999.00	-999.00
4	1.50	0.00	104.60	-999.00	-999.00	-999.00	44.50	0.00	100.10	31.50	0.00	-999.00	-999.00	-999.00	-999.00
5	1.50	0.00	104.60	-999.00	-999.00	-999.00	45.60	0.00	99.90	33.50	0.00	-999.00	-999.00	-999.00	-999.00
6	1.50	0.00	104.70	-999.00	-999.00	-999.00	48.00	0.00	99.90	48.10	0.00	-999.00	-999.00	-999.00	-999.00
7	1.50	0.00	104.70	-999.00	-999.00	-999.00	49.00	0.00	100.10	48.80	0.00	-999.00	-999.00	-999.00	-999.00
8	1.50	0.00	104.90	-999.00	-999.00	-999.00	22.00	0.00	100.10	48.50	0.00	-999.00	-999.00	-999.00	-999.00
9	1.50	0.00	105.30	-999.00	-999.00	-999.00	21.60	0.00	100.20	38.20	0.00	-999.00	-999.00	-999.00	-999.00
10	1.50	0.00	105.50	-999.00	-999.00	-999.00	20.90	0.00	100.10	33.80	0.00	-999.00	-999.00	-999.00	-999.00
11	1.50	0.00	105.50	-999.00	-999.00	-999.00	20.80	0.00	100.10	33.10	0.00	-999.00	-999.00	-999.00	-999.00
12	1.50	0.00	105.80	-999.00	-999.00	-999.00	20.60	0.00	100.30	17.20	0.00	-999.00	-999.00	-999.00	-999.00
13	1.50	0.00	105.90	-999.00	-999.00	-999.00	20.60	0.00	100.30	16.90	0.00	-999.00	-999.00	-999.00	-999.00
14	1.50	0.00	105.80	-999.00	-999.00	-999.00	21.00	0.00	100.40	16.40	0.00	-999.00	-999.00	-999.00	-999.00
15	1.50	0.00	105.60	-999.00	-999.00	-999.00	20.60	0.00	100.30	16.40	0.00	-999.00	-999.00	-999.00	-999.00
16	1.50	0.00	105.50	-999.00	-999.00	-999.00	20.60	0.00	100.30	16.30	0.00	-999.00	-999.00	-999.00	-999.00
17	1.50	0.00	105.30	-999.00	-999.00	-999.00	20.60	0.00	100.10	17.80	0.00	-999.00	-999.00	-999.00	-999.00
18	1.50	0.00	105.10	-999.00	-999.00	-999.00	21.80	0.00	100.10	17.30	0.00	-999.00	-999.00	-999.00	-999.00
19	1.50	0.00	104.90	-999.00	-999.00	-999.00	32.60	0.00	100.10	32.50	0.00	-999.00	-999.00	-999.00	-999.00
20	1.50	0.00	104.80	-999.00	-999.00	-999.00	47.30	0.00	100.00	48.50	0.00	-999.00	-999.00	-999.00	-999.00
21	1.50	0.00	104.70	-999.00	-999.00	-999.00	48.60	0.00	99.90	48.50	0.00	-999.00	-999.00	-999.00	-999.00
22	1.50	0.00	104.80	-999.00	-999.00	-999.00	35.50	0.00	99.90	35.10	0.00	-999.00	-999.00	-999.00	-999.00
23	1.50	0.00	104.60	-999.00	-999.00	-999.00	30.50	0.00	99.90	30.90	0.00	-999.00	-999.00	-999.00	-999.00
24	1.50	0.00	104.60	-999.00	-999.00	-999.00	26.50	0.00	99.70	26.70	0.00	-999.00	-999.00	-999.00	-999.00

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL OR KCFS	GAS %SAT. WA FB	TAILW.	GAS %SAT	
1	33.30	0.00	-999.00	-999.00	45.10	0.00	99.30	98.80	0.00	75.80	0.00	99.10	100.30	99.30	98.30
2	17.20	0.00	-999.00	-999.00	29.80	0.00	99.20	98.80	0.00	114.30	0.00	99.00	100.40	99.20	98.20
3	17.00	0.00	-999.00	-999.00	18.20	0.00	99.30	98.90	0.00	121.00	0.00	98.90	100.50	99.20	98.10
4	17.20	0.00	-999.00	-999.00	17.90	0.00	99.30	99.00	0.00	137.90	0.00	99.10	100.30	99.30	98.00
5	34.20	0.00	-999.00	-999.00	18.00	0.00	99.30	99.00	0.00	142.10	0.00	99.00	100.50	99.30	97.90
6	49.00	0.00	-999.00	-999.00	32.10	0.00	99.30	99.00	0.00	154.00	0.00	98.90	100.50	99.40	98.00
7	50.20	0.00	-999.00	-999.00	33.30	0.00	99.40	99.70	0.00	150.90	0.00	98.90	100.40	99.40	98.00
8	51.70	0.00	-999.00	-999.00	33.40	0.00	99.50	99.20	0.00	150.30	0.00	99.00	100.30	99.40	98.00
9	51.20	0.00	-999.00	-999.00	48.70	0.00	99.50	99.20	0.00	165.40	0.00	99.00	100.30	99.40	98.10
10	49.60	0.00	-999.00	-999.00	51.20	0.00	99.60	99.40	0.00	165.90	0.00	99.00	100.30	99.40	98.10
11	34.40	0.00	-999.00	-999.00	50.30	0.00	99.50	100.10	0.00	165.90	0.00	99.00	100.10	99.40	98.10
12	17.70	0.00	-999.00	-999.00	51.50	0.00	99.50	99.30	0.00	166.20	0.00	99.10	100.10	99.40	98.20
13	16.80	0.00	-999.00	-999.00	36.20	0.00	99.50	99.30	0.00	165.20	0.00	99.40	100.20	99.50	98.40
14	16.80	0.00	-999.00	-999.00	22.30	0.00	99.50	100.30	0.00	144.60	0.00	99.50	100.20	99.60	98.50
15	16.80	0.00	-999.00	-999.00	20.60	0.00	99.50	99.80	0.00	142.80	0.00	99.60	100.10	99.60	98.70
16	17.20	0.00	-999.00	-999.00	21.70	0.00	99.50	99.80	0.00	141.20	0.00	99.50	100.10	99.50	98.80
17	16.90	0.00	-999.00	-999.00	21.70	0.00	99.50	99.70	0.00	120.50	0.00	99.60	100.10	99.40	98.90
18	16.90	0.00	-999.00	-999.00	20.30	0.00	99.60	99.50	0.00	98.60	0.00	99.50	100.10	99.40	98.90
19	18.50	0.00	-999.00	-999.00	20.70	0.00	99.50	99.50	0.00	97.40	0.00	99.30	100.00	99.40	98.90
20	47.20	0.00	-999.00	-999.00	40.50	0.00	99.50	99.20	0.00	104.30	0.00	99.10	99.90	99.40	98.70
21	48.20	0.00	-999.00	-999.00	51.10	0.00	99.40	99.20	0.00	104.70	0.00	99.00	99.80	99.40	98.70
22	34.10	0.00	-999.00	-999.00	51.50	0.00	99.20	99.00	0.00	95.90	0.00	99.00	99.70	99.20	98.60
23	30.30	0.00	-999.00	-999.00	34.90	0.00	99.30	98.90	0.00	95.90	0.00	98.80	99.60	99.10	98.40
24	26.30	0.00	-999.00	-999.00	29.20	0.00	99.10	98.90	0.00	95.70	0.00	98.70	99.60	99.00	98.20

01 MAR 2003

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

01 MAR 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	LITTLE GOOSE	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.		
1	1.50	0.00	104.60	-999.00	-999.00	-999.00	27.90	0.00	99.60	99.50	18.10	0.00	-999.00	-999.00	
2	1.50	0.00	104.50	-999.00	-999.00	-999.00	26.20	0.00	99.50	99.60	16.90	0.00	-999.00	-999.00	
3	1.50	0.00	104.60	-999.00	-999.00	-999.00	26.70	0.00	99.50	99.40	17.20	0.00	-999.00	-999.00	
4	1.50	0.00	104.40	-999.00	-999.00	-999.00	26.20	0.00	99.50	99.40	18.40	0.00	-999.00	-999.00	
5	1.50	0.00	104.30	-999.00	-999.00	-999.00	26.20	0.00	99.30	99.30	17.20	0.00	-999.00	-999.00	
6	1.50	0.00	104.40	-999.00	-999.00	-999.00	25.50	0.00	99.20	99.10	25.90	0.00	-999.00	-999.00	
7	1.50	0.00	104.20	-999.00	-999.00	-999.00	21.40	0.00	99.20	99.20	28.50	0.00	-999.00	-999.00	
8	1.50	0.00	104.40	-999.00	-999.00	-999.00	21.90	0.00	99.10	99.00	26.40	0.00	-999.00	-999.00	
9	1.50	0.00	104.60	-999.00	-999.00	-999.00	21.40	0.00	99.10	99.00	27.80	0.00	-999.00	-999.00	
10	1.50	0.00	105.20	-999.00	-999.00	-999.00	21.30	0.00	99.10	99.00	27.90	0.00	-999.00	-999.00	
11	1.50	0.00	105.60	-999.00	-999.00	-999.00	21.30	0.00	99.20	98.90	28.50	0.00	-999.00	-999.00	
12	1.50	0.00	105.70	-999.00	-999.00	-999.00	23.00	0.00	99.20	99.80	27.90	0.00	-999.00	-999.00	
13	1.50	0.00	105.90	-999.00	-999.00	-999.00	21.60	0.00	99.50	99.20	27.90	0.00	-999.00	-999.00	
14	1.50	0.00	105.60	-999.00	-999.00	-999.00	21.20	0.00	99.60	99.20	27.80	0.00	-999.00	-999.00	
15	1.50	0.00	105.50	-999.00	-999.00	-999.00	21.10	0.00	99.70	99.20	27.80	0.00	-999.00	-999.00	
16	1.50	0.00	105.40	-999.00	-999.00	-999.00	20.80	0.00	99.70	99.10	31.60	0.00	-999.00	-999.00	
17	1.50	0.00	105.30	-999.00	-999.00	-999.00	22.20	0.00	99.70	99.10	38.50	0.00	-999.00	-999.00	
18	1.50	0.00	104.90	-999.00	-999.00	-999.00	40.50	0.00	99.70	99.30	38.60	0.00	-999.00	-999.00	
19	1.50	0.00	104.40	-999.00	-999.00	-999.00	47.40	0.00	99.50	99.20	35.20	0.00	-999.00	-999.00	
20	1.50	0.00	104.30	-999.00	-999.00	-999.00	47.70	0.00	99.40	99.20	43.70	0.00	-999.00	-999.00	
21	1.50	0.00	104.10	-999.00	-999.00	-999.00	47.90	0.00	99.40	99.20	43.30	0.00	-999.00	-999.00	
22	1.50	0.00	104.20	-999.00	-999.00	-999.00	41.40	0.00	99.20	99.30	43.30	0.00	-999.00	-999.00	
23	1.50	0.00	104.20	-999.00	-999.00	-999.00	36.20	0.00	99.30	99.30	43.00	0.00	-999.00	-999.00	
24	1.50	0.00	104.30	-999.00	-999.00	-999.00	26.70	0.00	99.40	99.20	34.40	0.00	-999.00	-999.00	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	PASCO	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	GAS %SAT	
1	17.10	0.00	-999.00	-999.00	12.00	0.00	99.00	98.80	95.60	98.20	99.70	99.00	98.20		
2	16.70	0.00	-999.00	-999.00	10.70	0.00	99.00	98.70	95.60	98.60	99.50	98.90	98.00		
3	16.70	0.00	-999.00	-999.00	10.70	0.00	99.00	98.60	105.60	98.40	99.40	98.80	97.80		
4	17.00	0.00	-999.00	-999.00	10.70	0.00	98.90	98.50	115.10	98.30	99.40	98.80	97.60		
5	17.00	0.00	-999.00	-999.00	10.70	0.00	98.90	98.60	115.00	98.30	99.30	98.90	97.60		
6	25.80	0.00	-999.00	-999.00	12.30	0.00	98.80	98.80	117.10	98.20	99.30	98.70	97.70		
7	26.40	0.00	-999.00	-999.00	29.80	0.00	98.80	98.80	117.30	98.20	99.20	98.70	97.50		
8	33.70	0.00	-999.00	-999.00	30.20	0.00	98.70	99.40	136.60	98.20	99.30	98.70	97.60		
9	40.80	0.00	-999.00	-999.00	32.90	0.00	98.80	98.70	133.40	98.10	99.30	98.70	97.70		
10	42.90	0.00	-999.00	-999.00	33.10	0.00	98.80	98.70	111.30	98.20	99.20	98.90	97.80		
11	41.10	0.00	-999.00	-999.00	33.10	0.00	98.90	98.80	109.00	98.20	99.20	98.90	97.90		
12	38.40	0.00	-999.00	-999.00	33.70	0.00	98.90	99.00	109.00	100.30	99.40	99.00	98.00		
13	34.10	0.00	-999.00	-999.00	34.50	0.00	99.40	99.00	109.00	102.10	99.60	99.10	98.30		
14	34.10	0.00	-999.00	-999.00	32.90	0.00	99.10	99.10	108.30	101.30	99.80	99.10	98.60		
15	34.20	0.00	-999.00	-999.00	34.10	0.00	98.90	99.30	109.70	101.40	100.00	98.90	98.90		
16	31.80	0.00	-999.00	-999.00	28.80	0.00	98.80	99.00	105.50	101.70	99.70	99.00	99.00		
17	37.90	0.00	-999.00	-999.00	36.30	0.00	98.90	99.80	112.70	101.60	99.90	99.00	99.30		
18	34.70	0.00	-999.00	-999.00	34.50	0.00	98.80	98.70	116.20	100.90	99.90	99.00	99.50		
19	28.10	0.00	-999.00	-999.00	28.80	0.00	98.80	98.60	117.70	99.50	99.80	99.20	99.50		
20	36.70	0.00	-999.00	-999.00	33.80	0.00	99.00	99.10	118.80	99.30	99.70	99.00	99.60		
21	37.20	0.00	-999.00	-999.00	34.30	0.00	98.90	98.70	113.70	101.00	98.80	99.60	99.10		
22	37.70	0.00	-999.00	-999.00	34.70	0.00	99.00	98.60	100.40	99.00	99.00	99.30	99.50		
23	37.70	0.00	-999.00	-999.00	34.00	0.00	99.10	98.60	94.20	98.70	100.00	99.00	99.50		
24	37.10	0.00	-999.00	-999.00	34.00	0.00	99.20	98.70	95.30	98.70	99.00	99.00	99.50		

02 MAR 2003

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

02 MAR 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	LOWER GRANITE	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.		
1	1.50	0.00	104.30	-999.00	-999.00	-999.00	26.20	0.00	99.30	99.20	25.60	0.00	-999.00	-999.00	
2	1.50	0.00	104.30	-999.00	-999.00	-999.00	26.20	0.00	99.40	99.30	24.80	0.00	-999.00	-999.00	
3	1.50	0.00	104.40	-999.00	-999.00	-999.00	21.60	0.00	99.40	99.40	21.90	0.00	-999.00	-999.00	
4	1.50	0.00	104.40	-999.00	-999.00	-999.00	21.50	0.00	99.50	99.30	22.10	0.00	-999.00	-999.00	
5	1.50	0.00	104.50	-999.00	-999.00	-999.00	21.20	0.00	99.60	99.40	21.80	0.00	-999.00	-999.00	
6	1.50	0.00	104.40	-999.00	-999.00	-999.00	21.20	0.00	99.60	99.40	21.80	0.00	-999.00	-999.00	
7	1.50	0.00	104.50	-999.00	-999.00	-999.00	21.20	0.00	99.70	99.40	21.80	0.00	-999.00	-999.00	
8	1.50	0.00	104.80	-999.00	-999.00	-999.00	21.30	0.00	99.70	99.50	21.90	0.00	-999.00	-999.00	
9	1.50	0.00	105.30	-999.00	-999.00	-999.00	21.60	0.00	99.80	99.50	22.20	0.00	-999.00	-999.00	
10	1.50	0.00	105.50	-999.00	-999.00	-999.00	21.20	0.00	99.80	99.60	20.00	0.00	-999.00	-999.00	
11	1.50	0.00	105.80	-999.00	-999.00	-999.00	21.40	0.00	100.00	99.70	21.40	0.00	-999.00	-999.00	
12	1.50	0.00	106.00	-999.00	-999.00	-999.00	21.30	0.00	100.30	99.90	21.50	0.00	-999.00	-999.00	
13	1.50	0.00	106.30	-999.00	-999.00	-999.00	21.30	0.00	100.60	100.00	20.30	0.00	-999.00	-999.00	
14	1.50	0.00	106.40	-999.00	-999.00	-999.00	21.70	0.00	100.60	100.10	19.90	0.00	-999.00	-999.00	
15	1.50	0.00	106.00	-999.00	-999.00	-999.00	21.10	0.00	100.50	100.10	19.90	0.00	-999.00	-999.00	
16	1.50	0.00	105.90	-999.00	-999.00	-999.00	21.20	0.00	100.50	100.10	19.90	0.00	-999.00	-999.00	
17	1.50	0.00	105.70	-999.00	-999.00	-999.00	21.20	0.00	100.50	100.10	20.40	0.00	-999.00	-999.00	
18	1.50	0.00	105.30	-999.00	-999.00	-999.00	22.80	0.00	100.60	100.60	21.60	0.00	-999.00	-999.00	
19	1.50	0.00	105.20	-999.00	-999.00	-999.00	21.40	0.00	100.50	100.30	21.80	0.00	-999.00	-999.00	
20	1.50	0.00	104.90	-999.00	-999.00	-999.00	16.90	0.00	100.60	100.30	17.20	0.00	-999.00	-999.00	
21	1.50	0.00	105.10	-999.00	-999.00	-999.00	16.60	0.00	100.60	100.30	16.80	0.00	-999.00	-999.00	
22	1.50	0.00	105.10	-999.00	-999.00	-999.00	16.60	0.00	100.60	100.40	17.20	0.00	-999.00	-999.00	
23	1.50	0.00	105.20	-999.00	-999.00	-999.00	16.50	0.00	100.60	100.40	16.90	0.00	-999.00	-999.00	
24	1.50	0.00	105.30	-999.00	-999.00	-999.00	16.80	0.00	100.60	100.40	16.80	0.00	-999.00	-999.00	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB	MCNARY	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	PASCO	
1	37.20	0.00	-999.00	-999.00	35.60	0.00	99.30	98.80	0.00	98.70	100.30	99.20	0.00	99.40	
2	26.80	0.00	-999.00	-999.00	34.00	0.00	99.20	98.70	0.00	98.70	100.20	99.00	0.00	99.30	
3	20.30	0.00	-999.00	-999.00	28.70	0.00	99.20	99.00	0.00	98.80	100.10	99.10	0.00	99.20	
4	20.60	0.00	-999.00	-999.00	20.70	0.00	99.20	98.90	0.00	98.80	100.10	99.10	0.00	99.20	
5	20.20	0.00	-999.00	-999.00	18.80	0.00	99.10	98.90	0.00	99.10	100.20	99.20	0.00	99.20	
6	21.60	0.00	-999.00	-999.00	18.90	0.00	99.20	99.00	0.00	99.00	100.40	99.30	0.00	99.30	
7	20.10	0.00	-999.00	-999.00	18.80	0.00	99.50	100.00	0.00	99.00	100.40	99.50	0.00	99.20	
8	20.30	0.00	-999.00	-999.00	19.20	0.00	99.50	99.40	0.00	99.00	100.50	99.80	0.00	99.30	
9	22.70	0.00	-999.00	-999.00	18.90	0.00	99.50	99.50	0.00	99.90	100.60	99.70	0.00	99.20	
10	20.80	0.00	-999.00	-999.00	20.30	0.00	99.50	99.60	0.00	100.30	100.70	99.80	0.00	99.20	
11	21.10	0.00	-999.00	-999.00	19.70	0.00	99.60	99.80	0.00	100.30	100.90	100.00	0.00	99.30	
12	21.30	0.00	-999.00	-999.00	19.90	0.00	99.70	100.70	0.00	100.40	101.10	100.10	0.00	99.50	
13	21.40	0.00	-999.00	-999.00	21.70	0.00	99.80	100.20	0.00	101.20	101.20	100.20	0.00	99.60	
14	21.30	0.00	-999.00	-999.00	19.80	0.00	99.80	100.10	0.00	100.10	101.10	100.40	0.00	99.80	
15	21.70	0.00	-999.00	-999.00	19.80	0.00	100.00	100.20	0.00	100.00	101.20	100.40	0.00	100.00	
16	22.80	0.00	-999.00	-999.00	19.70	0.00	100.10	100.50	0.00	100.20	101.20	100.70	0.00	100.00	
17	21.10	0.00	-999.00	-999.00	19.60	0.00	100.10	100.20	0.00	101.50	101.40	100.60	0.00	100.30	
18	21.00	0.00	-999.00	-999.00	20.00	0.00	100.10	100.00	0.00	100.10	101.40	100.70	0.00	100.30	
19	20.60	0.00	-999.00	-999.00	20.10	0.00	100.10	99.90	0.00	100.10	101.30	100.40	0.00	100.30	
20	17.30	0.00	-999.00	-999.00	20.30	0.00	100.10	99.90	0.00	100.20	101.30	100.50	0.00	100.20	
21	16.80	0.00	-999.00	-999.00	20.50	0.00	100.20	99.90	0.00	101.10	101.30	100.30	0.00	100.10	
22	16.80	0.00	-999.00	-999.00	11.00	0.00	100.10	99.90	0.00	100.80	100.00	101.30	0.00	100.10	
23	16.80	0.00	-999.00	-999.00	10.70	0.00	100.10	100.00	0.00	100.60	101.10	100.40	0.00	100.10	
24	16.80	0.00	-999.00	-999.00	10.50	0.00	100.10	100.60	0.00	100.70	101.10	100.40	0.00	99.90	

03 MAR 2003

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

03 MAR 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	LOWER GRANITE	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.		
1	1.50	0.00	105.30	-999.00	-999.00	-999.00	16.50	0.00	100.70	100.40	17.00	0.00	-999.00	-999.00	
2	1.50	0.00	105.10	-999.00	-999.00	-999.00	16.50	0.00	100.60	100.20	17.20	0.00	-999.00	-999.00	
3	1.50	0.00	105.00	-999.00	-999.00	-999.00	16.50	0.00	100.60	100.20	17.00	0.00	-999.00	-999.00	
4	1.50	0.00	105.20	-999.00	-999.00	-999.00	16.50	0.00	100.60	100.20	17.00	0.00	-999.00	-999.00	
5	1.50	0.00	105.10	-999.00	-999.00	-999.00	16.80	0.00	100.50	100.10	16.90	0.00	-999.00	-999.00	
6	1.50	0.00	105.00	-999.00	-999.00	-999.00	16.50	0.00	100.50	100.10	17.00	0.00	-999.00	-999.00	
7	1.50	0.00	104.70	-999.00	-999.00	-999.00	16.60	0.00	100.50	100.10	17.30	0.00	-999.00	-999.00	
8	1.50	0.00	104.70	-999.00	-999.00	-999.00	22.70	0.00	100.50	100.80	21.30	0.00	-999.00	-999.00	
9	1.50	0.00	105.00	-999.00	-999.00	-999.00	21.20	0.00	100.60	100.20	21.80	0.00	-999.00	-999.00	
10	1.50	0.00	105.10	-999.00	-999.00	-999.00	21.40	0.00	100.60	100.30	20.10	0.00	-999.00	-999.00	
11	1.50	0.00	105.50	-999.00	-999.00	-999.00	21.10	0.00	100.60	100.40	18.80	0.00	-999.00	-999.00	
12	1.50	0.00	105.70	-999.00	-999.00	-999.00	21.10	0.00	100.80	100.40	19.90	0.00	-999.00	-999.00	
13	1.50	0.00	106.30	-999.00	-999.00	-999.00	21.30	0.00	100.90	100.60	18.40	0.00	-999.00	-999.00	
14	1.50	0.00	106.90	-999.00	-999.00	-999.00	22.80	0.00	101.00	101.10	18.30	0.00	-999.00	-999.00	
15	1.50	0.00	106.80	-999.00	-999.00	-999.00	21.40	0.00	101.00	101.50	18.60	0.00	-999.00	-999.00	
16	1.50	0.00	106.60	-999.00	-999.00	-999.00	21.10	0.00	101.10	101.00	18.70	0.00	-999.00	-999.00	
17	1.50	0.00	106.00	-999.00	-999.00	-999.00	29.60	0.00	101.10	101.10	38.70	0.00	-999.00	-999.00	
18	1.50	0.00	105.40	-999.00	-999.00	-999.00	36.80	0.00	100.90	100.90	41.50	0.00	-999.00	-999.00	
19	1.50	0.00	105.20	-999.00	-999.00	-999.00	38.80	0.00	101.10	100.90	44.00	0.00	-999.00	-999.00	
20	1.50	0.00	104.90	-999.00	-999.00	-999.00	37.90	0.00	101.10	100.90	49.20	0.00	-999.00	-999.00	
21	1.50	0.00	105.00	-999.00	-999.00	-999.00	37.20	0.00	101.10	100.90	49.20	0.00	-999.00	-999.00	
22	1.50	0.00	105.00	-999.00	-999.00	-999.00	36.30	0.00	100.90	100.90	48.30	0.00	-999.00	-999.00	
23	1.50	0.00	105.00	-999.00	-999.00	-999.00	17.60	0.00	100.90	101.00	31.10	0.00	-999.00	-999.00	
24	1.50	0.00	105.00	-999.00	-999.00	-999.00	16.50	0.00	101.00	101.00	21.10	0.00	-999.00	-999.00	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB	MCNARY	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	PASCO	
1	16.80	0.00	-999.00	-999.00	12.10	0.00	100.10	100.10	77.10	0.00	100.60	101.10	100.50	99.70	
2	17.10	0.00	-999.00	-999.00	10.50	0.00	100.00	99.90	77.10	0.00	100.00	101.00	100.40	99.60	
3	16.90	0.00	-999.00	-999.00	10.60	0.00	100.10	100.00	77.60	0.00	100.30	101.20	100.40	99.50	
4	17.00	0.00	-999.00	-999.00	11.60	0.00	100.10	100.00	78.20	0.00	100.20	101.10	100.40	99.40	
5	17.00	0.00	-999.00	-999.00	21.90	0.00	100.10	100.80	91.20	0.00	100.10	101.00	100.30	99.40	
6	18.40	0.00	-999.00	-999.00	20.80	0.00	100.10	100.10	107.00	0.00	100.10	101.00	100.10	99.20	
7	17.00	0.00	-999.00	-999.00	20.90	0.00	100.00	100.50	124.70	0.00	100.00	100.90	100.20	99.10	
8	20.30	0.00	-999.00	-999.00	20.90	0.00	100.00	100.00	139.90	0.00	99.80	100.90	100.10	99.10	
9	22.40	0.00	-999.00	-999.00	19.90	0.00	100.10	99.90	141.60	0.00	99.90	101.00	100.30	99.00	
10	20.60	0.00	-999.00	-999.00	20.80	0.00	100.10	100.00	141.00	0.00	100.50	101.00	100.40	99.10	
11	20.60	0.00	-999.00	-999.00	21.20	0.10	100.30	102.10	141.40	0.00	102.00	101.20	100.60	99.20	
12	22.20	0.00	-999.00	-999.00	21.10	0.30	100.60	101.00	141.30	0.00	102.60	101.40	100.90	99.30	
13	20.80	0.00	-999.00	-999.00	21.00	0.00	100.90	100.90	141.40	0.00	103.30	101.50	101.00	99.60	
14	21.00	0.00	-999.00	-999.00	20.80	0.00	100.50	100.80	142.20	0.00	103.20	101.50	101.10	99.90	
15	21.30	0.00	-999.00	-999.00	20.80	0.00	100.40	100.70	142.20	0.00	103.60	101.70	101.10	100.30	
16	21.10	0.00	-999.00	-999.00	22.70	0.00	100.50	100.80	143.00	0.00	102.10	102.00	101.00	100.60	
17	22.30	0.00	-999.00	-999.00	22.90	0.00	100.50	100.60	144.40	0.00	101.30	101.90	101.10	100.80	
18	39.00	0.00	-999.00	-999.00	36.30	0.00	100.50	101.00	154.70	0.00	101.20	102.10	101.10	101.00	
19	41.50	0.00	-999.00	-999.00	37.60	0.00	100.50	100.70	155.70	0.00	100.80	102.00	101.10	101.10	
20	44.90	0.00	-999.00	-999.00	43.80	0.00	100.60	100.30	155.60	0.00	100.70	102.10	101.10	101.30	
21	64.30	0.00	-999.00	-999.00	56.30	0.00	100.60	100.90	155.60	0.00	100.70	102.40	101.00	101.30	
22	65.60	0.00	-999.00	-999.00	56.40	0.00	100.80	100.20	154.00	0.00	100.60	102.60	101.00	101.10	
23	48.90	0.00	-999.00	-999.00	56.10	0.00	100.70	100.30	116.40	0.00	100.70	102.60	101.00	101.00	
24	35.90	0.00	-999.00	-999.00	46.60	0.00	100.70	100.30	96.10	0.00	100.50	102.50	101.00	100.90	

04 MAR 2003

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

04 MAR 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	LOWER GRANITE	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.		
1	1.50	0.00	105.20	-999.00	-999.00	-999.00	16.60	0.00	101.00	101.00	19.00	0.00	-999.00	-999.00	
2	1.50	0.00	105.10	-999.00	-999.00	-999.00	16.60	0.00	101.10	101.00	19.00	0.00	-999.00	-999.00	
3	1.50	0.00	105.10	-999.00	-999.00	-999.00	16.30	0.00	101.20	101.00	20.50	0.00	-999.00	-999.00	
4	1.50	0.00	105.00	-999.00	-999.00	-999.00	16.30	0.00	101.20	101.00	19.40	0.00	-999.00	-999.00	
5	1.50	0.00	105.00	-999.00	-999.00	-999.00	17.90	0.00	101.10	101.50	17.50	0.00	-999.00	-999.00	
6	1.50	0.00	104.90	-999.00	-999.00	-999.00	16.20	0.00	101.20	101.30	17.10	0.00	-999.00	-999.00	
7	1.50	0.00	104.80	-999.00	-999.00	-999.00	17.50	0.00	101.10	101.10	17.60	0.00	-999.00	-999.00	
8	1.50	0.00	105.00	-999.00	-999.00	-999.00	31.90	0.00	101.10	101.90	33.60	0.00	-999.00	-999.00	
9	1.50	0.00	105.70	-999.00	-999.00	-999.00	40.70	0.00	101.10	101.20	33.80	0.00	-999.00	-999.00	
10	1.50	0.00	106.30	-999.00	-999.00	-999.00	41.50	0.00	101.20	101.40	35.30	0.00	-999.00	-999.00	
11	1.50	0.00	106.60	-999.00	-999.00	-999.00	38.50	0.00	101.20	101.40	33.70	0.00	-999.00	-999.00	
12	1.50	0.00	106.30	-999.00	-999.00	-999.00	38.90	0.00	101.50	101.50	34.20	0.00	-999.00	-999.00	
13	1.50	0.00	106.30	-999.00	-999.00	-999.00	39.70	0.00	101.60	101.60	33.90	0.00	-999.00	-999.00	
14	1.50	0.00	106.50	-999.00	-999.00	-999.00	39.10	0.00	101.60	101.60	38.80	0.00	-999.00	-999.00	
15	1.50	0.00	106.50	-999.00	-999.00	-999.00	39.30	0.00	101.80	101.60	41.10	0.00	-999.00	-999.00	
16	1.50	0.00	106.30	-999.00	-999.00	-999.00	39.20	0.00	101.80	101.80	40.60	0.00	-999.00	-999.00	
17	1.50	0.00	105.80	-999.00	-999.00	-999.00	29.60	0.00	101.90	101.80	41.70	0.00	-999.00	-999.00	
18	1.50	0.00	105.50	-999.00	-999.00	-999.00	32.40	0.00	102.10	102.20	33.80	0.00	-999.00	-999.00	
19	1.50	0.00	105.20	-999.00	-999.00	-999.00	32.10	0.00	102.10	101.90	32.30	0.00	-999.00	-999.00	
20	1.50	0.00	105.10	-999.00	-999.00	-999.00	35.40	0.00	102.10	102.00	38.20	0.00	-999.00	-999.00	
21	1.50	0.00	105.00	-999.00	-999.00	-999.00	35.40	0.00	102.20	102.00	38.70	0.00	-999.00	-999.00	
22	1.50	0.00	105.00	-999.00	-999.00	-999.00	27.40	0.00	102.20	102.10	26.90	0.00	-999.00	-999.00	
23	1.50	0.00	105.10	-999.00	-999.00	-999.00	17.90	0.00	102.30	102.10	16.20	0.00	-999.00	-999.00	
24	1.50	0.00	105.00	-999.00	-999.00	-999.00	17.80	0.00	102.30	102.00	14.30	0.00	-999.00	-999.00	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. OR FB	WA TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB		
1	16.80	0.00	-999.00	-999.00	32.30	0.00	101.00	100.40	0.00	100.50	102.50	101.00	0.00	100.80	
2	16.30	0.00	-999.00	-999.00	21.50	0.00	100.90	100.40	0.00	100.60	102.30	101.00	0.00	100.80	
3	16.70	0.00	-999.00	-999.00	11.00	0.00	100.80	100.40	0.00	100.60	102.40	101.30	0.00	100.70	
4	17.70	0.00	-999.00	-999.00	10.60	0.00	100.80	100.40	0.00	100.70	102.20	101.20	0.00	100.70	
5	16.40	0.00	-999.00	-999.00	12.10	0.00	100.80	100.40	0.00	100.60	102.00	101.10	0.00	100.70	
6	16.40	0.00	-999.00	-999.00	10.60	0.00	100.80	100.40	0.00	100.60	101.90	101.20	0.00	100.70	
7	17.30	0.00	-999.00	-999.00	11.40	0.00	100.60	100.50	0.00	100.60	101.70	100.90	0.00	100.70	
8	33.20	0.00	-999.00	-999.00	32.10	0.00	100.70	100.70	0.00	100.50	101.70	100.80	0.00	100.50	
9	33.20	0.00	-999.00	-999.00	31.60	0.00	100.80	101.40	0.00	100.50	101.70	100.80	0.00	98.80	
10	33.30	0.00	-999.00	-999.00	33.10	0.00	100.80	100.70	0.00	100.60	101.70	101.00	0.00	100.90	
11	33.30	0.00	-999.00	-999.00	31.60	0.00	100.80	101.20	0.00	100.80	101.70	101.00	0.00	101.20	
12	32.70	0.00	-999.00	-999.00	33.50	0.00	100.80	101.80	0.00	101.20	101.90	101.10	0.00	102.10	
13	33.50	0.00	-999.00	-999.00	32.10	0.00	100.90	101.40	0.00	102.50	101.90	101.30	0.00	102.70	
14	41.40	0.00	-999.00	-999.00	39.10	0.00	101.00	101.80	0.00	102.20	101.90	101.50	0.00	103.20	
15	40.00	0.00	-999.00	-999.00	39.30	0.00	101.10	101.30	0.00	101.40	102.00	101.50	0.00	103.40	
16	39.80	0.00	-999.00	-999.00	39.40	0.00	101.20	101.10	0.00	101.40	102.20	101.60	0.00	103.40	
17	39.70	0.00	-999.00	-999.00	39.90	0.00	101.20	101.10	0.00	101.40	102.20	101.50	0.00	0.00	
18	41.20	0.00	-999.00	-999.00	39.50	0.00	101.20	101.00	0.00	101.60	102.20	101.40	0.00	0.00	
19	40.60	0.00	-999.00	-999.00	41.80	0.00	101.30	101.00	0.00	101.20	102.20	101.40	0.00	0.00	
20	40.60	0.00	-999.00	-999.00	42.60	0.00	101.30	101.60	0.00	101.20	102.20	101.40	0.00	0.00	
21	40.60	0.00	-999.00	-999.00	42.80	0.00	101.40	100.90	0.00	101.10	102.20	101.40	0.00	0.00	
22	39.80	0.00	-999.00	-999.00	43.00	0.00	101.40	100.80	0.00	101.00	102.10	101.20	0.00	0.00	
23	19.20	0.00	-999.00	-999.00	28.00	0.00	101.40	100.80	0.00	101.10	102.10	101.20	0.00	0.00	
24	16.80	0.00	-999.00	-999.00	12.50	0.00	101.40	100.90	0.00	101.00	102.30	101.40	0.00	0.00	

05 MAR 2003

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

05 MAR 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	LOWER GRANITE	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.		
1	1.50	0.00	105.00	-999.00	-999.00	-999.00	19.30	0.00	102.30	102.60	14.40	0.00	-999.00	-999.00	
2	1.50	0.00	105.00	-999.00	-999.00	-999.00	17.20	0.00	102.30	102.20	12.80	0.00	-999.00	-999.00	
3	1.50	0.00	105.00	-999.00	-999.00	-999.00	17.50	0.00	102.40	102.20	12.60	0.00	-999.00	-999.00	
4	1.50	0.00	105.10	-999.00	-999.00	-999.00	30.70	0.00	102.30	102.60	12.70	0.00	-999.00	-999.00	
5	1.50	0.00	105.30	-999.00	-999.00	-999.00	32.10	0.00	102.30	102.30	16.30	0.00	-999.00	-999.00	
6	1.50	0.00	105.30	-999.00	-999.00	-999.00	32.80	0.00	102.40	102.40	17.30	0.00	-999.00	-999.00	
7	1.50	0.00	105.40	-999.00	-999.00	-999.00	33.10	0.00	102.50	102.40	23.00	0.00	-999.00	-999.00	
8	1.50	0.00	105.40	-999.00	-999.00	-999.00	33.10	0.00	102.60	102.50	32.70	0.00	-999.00	-999.00	
9	1.50	0.00	105.80	-999.00	-999.00	-999.00	32.80	0.00	102.60	102.40	32.60	0.00	-999.00	-999.00	
10	1.50	0.00	106.10	-999.00	-999.00	-999.00	33.60	0.00	102.60	102.50	33.10	0.00	-999.00	-999.00	
11	1.50	0.00	106.20	-999.00	-999.00	-999.00	34.40	0.00	102.70	102.30	33.70	0.00	-999.00	-999.00	
12	1.50	0.00	106.20	-999.00	-999.00	-999.00	34.80	0.00	102.70	102.30	33.80	0.00	-999.00	-999.00	
13	1.50	0.00	106.30	-999.00	-999.00	-999.00	34.80	0.00	102.80	102.50	33.70	0.00	-999.00	-999.00	
14	1.50	0.00	106.40	-999.00	-999.00	-999.00	34.80	0.00	102.90	102.50	34.30	0.00	-999.00	-999.00	
15	1.50	0.00	106.30	-999.00	-999.00	-999.00	35.50	0.00	102.80	102.50	33.60	0.00	-999.00	-999.00	
16	1.50	0.00	106.20	-999.00	-999.00	-999.00	36.60	0.00	102.80	102.70	35.20	0.00	-999.00	-999.00	
17	1.50	0.00	106.30	-999.00	-999.00	-999.00	34.90	0.00	102.90	102.70	33.60	0.00	-999.00	-999.00	
18	1.50	0.00	106.20	-999.00	-999.00	-999.00	34.90	0.00	102.90	102.60	34.40	0.00	-999.00	-999.00	
19	1.50	0.00	106.00	-999.00	-999.00	-999.00	33.50	0.00	102.90	102.60	33.70	0.00	-999.00	-999.00	
20	1.50	0.00	105.90	-999.00	-999.00	-999.00	34.30	0.00	102.80	102.60	33.70	0.00	-999.00	-999.00	
21	1.50	0.00	105.90	-999.00	-999.00	-999.00	33.70	0.00	102.70	102.50	33.50	0.00	-999.00	-999.00	
22	1.50	0.00	105.90	-999.00	-999.00	-999.00	29.00	0.00	102.80	102.40	29.40	0.00	-999.00	-999.00	
23	1.50	0.00	106.00	-999.00	-999.00	-999.00	21.10	0.00	102.80	102.50	21.50	0.00	-999.00	-999.00	
24	1.50	0.00	105.70	-999.00	-999.00	-999.00	18.60	0.00	102.70	102.30	18.40	0.00	-999.00	-999.00	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB	MCNARY	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	PASCO	
1	16.80	0.00	-999.00	-999.00	11.70	0.00	101.50	100.90	0.00	101.00	102.10	101.30	0.00	0.00	
2	13.70	0.00	-999.00	-999.00	10.00	0.00	101.50	101.00	0.00	101.00	102.20	101.30	0.00	0.00	
3	13.70	0.00	-999.00	-999.00	10.10	0.00	101.40	101.00	0.00	101.10	102.20	101.50	0.00	0.00	
4	13.70	0.00	-999.00	-999.00	11.40	0.00	101.50	101.20	0.00	101.10	102.20	101.50	0.00	0.00	
5	16.30	0.00	-999.00	-999.00	9.90	0.00	101.50	101.20	0.00	101.10	102.10	101.50	0.00	0.00	
6	17.70	0.00	-999.00	-999.00	10.30	0.00	101.60	101.30	0.00	101.30	102.20	101.40	0.00	0.00	
7	31.30	0.00	-999.00	-999.00	22.30	0.00	101.80	101.50	0.00	101.30	102.20	101.50	0.00	0.00	
8	31.50	0.00	-999.00	-999.00	33.30	0.00	101.80	101.60	0.00	101.30	102.20	101.50	0.00	0.00	
9	31.60	0.00	-999.00	-999.00	31.90	0.00	101.90	102.30	0.00	101.40	102.30	101.60	0.00	0.00	
10	31.70	0.00	-999.00	-999.00	31.90	0.00	102.00	101.50	0.00	101.40	102.30	101.60	0.00	0.00	
11	33.20	0.00	-999.00	-999.00	31.90	0.00	102.00	101.50	0.00	101.60	102.30	101.60	0.00	0.00	
12	34.80	0.00	-999.00	-999.00	31.70	0.00	101.90	101.50	0.00	101.60	102.30	101.70	0.00	0.00	
13	33.80	0.00	-999.00	-999.00	32.20	0.00	102.00	101.40	0.00	101.80	102.60	101.70	102.30	102.30	
14	33.20	0.00	-999.00	-999.00	31.40	0.00	102.00	101.50	0.00	101.90	102.50	101.90	102.20	102.20	
15	33.20	0.00	-999.00	-999.00	31.30	0.00	101.90	101.50	0.00	101.80	102.50	101.90	102.20	102.20	
16	33.20	0.00	-999.00	-999.00	33.20	0.00	102.10	101.50	0.00	101.80	102.50	101.90	102.20	102.20	
17	33.60	0.00	-999.00	-999.00	31.70	0.00	102.10	101.50	0.00	101.80	102.50	101.80	102.30	102.30	
18	34.20	0.00	-999.00	-999.00	32.20	0.00	102.00	102.10	0.00	101.80	102.40	101.70	102.10	102.10	
19	34.70	0.00	-999.00	-999.00	31.60	0.00	101.90	101.40	0.00	101.90	102.30	101.60	102.00	102.00	
20	33.00	0.00	-999.00	-999.00	31.40	0.00	102.00	101.40	0.00	101.80	102.30	101.60	101.80	101.80	
21	33.10	0.00	-999.00	-999.00	31.70	0.00	102.10	101.40	0.00	101.80	102.20	101.60	101.70	101.70	
22	32.90	0.00	-999.00	-999.00	31.90	0.00	102.10	101.40	0.00	101.80	102.20	101.60	101.60	101.60	
23	27.30	0.00	-999.00	-999.00	29.80	0.00	102.00	101.20	0.00	101.80	102.10	101.50	101.40	101.40	
24	19.70	0.00	-999.00	-999.00	19.30	0.00	101.70	101.10	0.00	101.80	101.90	101.40	101.20	101.20	

06 MAR 2003

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

06 MAR 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.			
1	1.50	0.00	105.60	-999.00	-999.00	-999.00	14.00	0.00	102.60	102.20	14.60	0.00	-999.00	-999.00	
2	1.50	0.00	105.50	-999.00	-999.00	-999.00	15.50	0.00	102.40	102.20	14.20	0.00	-999.00	-999.00	
3	1.50	0.00	105.50	-999.00	-999.00	-999.00	13.80	0.00	102.40	102.40	14.50	0.00	-999.00	-999.00	
4	1.60	0.00	105.40	-999.00	-999.00	-999.00	15.50	0.00	102.30	102.60	14.30	0.00	-999.00	-999.00	
5	2.40	0.00	105.40	-999.00	-999.00	-999.00	17.30	0.00	102.30	102.50	14.40	0.00	-999.00	-999.00	
6	4.40	0.00	102.40	-999.00	-999.00	-999.00	18.40	0.00	102.20	102.10	20.70	0.00	-999.00	-999.00	
7	4.50	0.00	99.40	-999.00	-999.00	-999.00	32.20	0.00	102.10	102.40	33.10	0.00	-999.00	-999.00	
8	4.40	0.00	98.70	-999.00	-999.00	-999.00	33.20	0.00	102.10	102.00	36.50	0.00	-999.00	-999.00	
9	4.50	0.00	98.70	-999.00	-999.00	-999.00	33.00	0.00	102.10	101.90	36.10	0.00	-999.00	-999.00	
10	4.40	0.00	98.80	-999.00	-999.00	-999.00	34.10	0.00	102.10	102.00	34.40	0.00	-999.00	-999.00	
11	4.50	0.00	98.80	-999.00	-999.00	-999.00	30.50	0.00	102.10	101.90	31.20	0.00	-999.00	-999.00	
12	4.40	0.00	98.80	-999.00	-999.00	-999.00	30.10	0.00	102.10	101.90	29.90	0.00	-999.00	-999.00	
13	4.50	0.00	98.90	-999.00	-999.00	-999.00	30.30	0.00	102.20	102.10	29.90	0.00	-999.00	-999.00	
14	4.40	0.00	98.70	-999.00	-999.00	-999.00	30.10	0.00	102.20	102.10	30.10	0.00	-999.00	-999.00	
15	4.50	0.00	98.60	-999.00	-999.00	-999.00	30.60	0.00	102.30	102.00	30.20	0.00	-999.00	-999.00	
16	4.40	0.00	98.40	-999.00	-999.00	-999.00	30.20	0.00	102.20	102.10	30.90	0.00	-999.00	-999.00	
17	4.50	0.00	98.20	-999.00	-999.00	-999.00	34.50	0.00	102.20	102.10	32.50	0.00	-999.00	-999.00	
18	4.40	0.00	98.10	-999.00	-999.00	-999.00	37.50	0.00	102.10	101.90	36.50	0.00	-999.00	-999.00	
19	4.50	0.00	98.10	-999.00	-999.00	-999.00	37.40	0.00	102.00	101.70	36.70	0.00	-999.00	-999.00	
20	4.40	0.00	98.20	-999.00	-999.00	-999.00	37.90	0.00	102.00	101.80	37.20	0.00	-999.00	-999.00	
21	4.50	0.00	98.10	-999.00	-999.00	-999.00	32.80	0.00	102.00	101.70	33.50	0.00	-999.00	-999.00	
22	4.40	0.00	98.10	-999.00	-999.00	-999.00	16.90	0.00	102.00	101.70	32.80	0.00	-999.00	-999.00	
23	4.50	0.00	97.90	-999.00	-999.00	-999.00	16.60	0.00	102.10	101.80	17.10	0.00	-999.00	-999.00	
24	4.40	0.00	98.00	-999.00	-999.00	-999.00	16.70	0.00	102.10	101.80	16.60	0.00	-999.00	-999.00	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT
1	14.50	0.00	-999.00	-999.00	19.20	0.00	101.50	101.00	108.70	0.00	101.60	101.90	101.40	0.00	101.10
2	14.20	0.00	-999.00	-999.00	12.30	0.00	101.50	101.00	109.10	0.00	101.60	101.80	101.20	0.00	100.90
3	14.20	0.00	-999.00	-999.00	11.10	0.00	101.40	101.10	108.10	0.00	101.40	101.80	101.10	0.00	100.80
4	14.30	0.00	-999.00	-999.00	11.30	0.00	101.40	101.00	117.70	0.00	101.50	101.70	101.10	0.00	100.80
5	14.30	0.00	-999.00	-999.00	12.60	0.00	101.30	101.40	131.70	0.00	101.30	101.60	101.00	0.00	100.80
6	17.50	0.00	-999.00	-999.00	11.00	0.00	101.30	101.50	141.00	0.00	101.20	101.60	101.00	0.00	100.60
7	20.50	0.00	-999.00	-999.00	12.10	0.00	101.30	101.00	141.00	0.00	101.10	101.50	101.00	0.00	100.50
8	27.60	0.00	-999.00	-999.00	22.60	0.00	101.20	101.00	142.60	0.00	101.00	101.50	100.90	0.00	100.50
9	36.10	0.00	-999.00	-999.00	25.20	0.00	101.20	101.60	143.70	0.00	101.00	101.70	100.90	0.00	100.60
10	36.50	0.00	-999.00	-999.00	33.80	0.00	101.40	101.20	148.60	0.00	101.20	101.80	101.10	0.00	100.80
11	36.70	0.00	-999.00	-999.00	34.70	0.00	101.30	101.60	145.60	0.00	101.20	102.00	101.00	0.00	101.10
12	37.20	0.00	-999.00	-999.00	34.70	0.00	101.40	101.20	145.90	0.00	101.20	102.00	101.20	0.00	101.30
13	33.20	0.00	-999.00	-999.00	34.60	0.00	101.50	101.30	146.20	0.00	101.30	101.80	101.30	0.00	101.50
14	31.40	0.00	-999.00	-999.00	32.10	0.00	101.50	101.30	146.50	0.00	101.40	101.80	101.40	0.00	101.80
15	29.70	0.00	-999.00	-999.00	30.20	0.00	101.70	101.20	146.70	0.00	101.40	101.80	101.20	0.00	102.10
16	29.80	0.00	-999.00	-999.00	30.20	0.00	101.50	101.10	147.50	0.00	101.40	101.80	101.30	0.00	102.00
17	34.90	0.00	-999.00	-999.00	32.60	0.00	101.60	101.10	147.90	0.00	101.30	101.70	101.10	0.00	102.00
18	36.50	0.00	-999.00	-999.00	37.80	0.00	101.60	101.00	137.80	0.00	101.40	101.50	100.90	0.00	101.80
19	36.60	0.00	-999.00	-999.00	38.10	0.00	101.40	101.40	138.10	0.00	101.30	101.60	100.90	0.00	101.70
20	36.60	0.00	-999.00	-999.00	37.30	0.00	101.40	101.60	138.10	0.00	101.30	101.50	100.80	0.00	101.40
21	33.90	0.00	-999.00	-999.00	36.40	0.00	101.40	100.90	136.90	0.00	101.10	101.40	100.90	0.00	101.30
22	31.60	0.00	-999.00	-999.00	34.40	0.00	101.40	100.90	119.40	0.00	101.10	101.40	100.70	0.00	101.20
23	18.00	0.00	-999.00	-999.00	21.00	0.00	101.40	100.80	110.70	0.00	101.10	101.40	100.80	0.00	101.00
24	16.60	0.00	-999.00	-999.00	19.30	0.00	101.40	100.80	110.90	0.00	101.20	101.40	101.00	0.00	100.90

07 MAR 2003

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

07 MAR 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	LOWER GRANITE	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	LOWER GRANITE	
1	4.50	0.00	98.00	-999.00	-999.00	-999.00	16.90	0.00	102.10	101.80	16.90	0.00	-999.00	-999.00	
2	4.40	0.00	97.90	-999.00	-999.00	-999.00	16.60	0.00	102.20	101.90	16.60	0.00	-999.00	-999.00	
3	4.50	0.00	97.90	-999.00	-999.00	-999.00	16.60	0.00	102.20	101.90	16.60	0.00	-999.00	-999.00	
4	4.40	0.00	97.80	-999.00	-999.00	-999.00	16.50	0.00	102.20	101.80	16.60	0.00	-999.00	-999.00	
5	4.50	0.00	97.70	-999.00	-999.00	-999.00	16.60	0.00	102.10	101.90	16.90	0.00	-999.00	-999.00	
6	4.40	0.00	97.60	-999.00	-999.00	-999.00	28.20	0.00	102.10	102.10	17.20	0.00	-999.00	-999.00	
7	4.40	0.00	97.40	-999.00	-999.00	-999.00	33.70	0.00	102.00	102.00	30.60	0.00	-999.00	-999.00	
8	4.50	0.00	97.60	-999.00	-999.00	-999.00	38.50	0.00	102.00	102.00	31.40	0.00	-999.00	-999.00	
9	4.50	0.00	97.70	-999.00	-999.00	-999.00	38.60	0.00	102.10	101.90	37.60	0.00	-999.00	-999.00	
10	4.60	0.00	97.80	-999.00	-999.00	-999.00	38.40	0.00	102.10	101.90	38.30	0.00	-999.00	-999.00	
11	4.50	0.00	97.70	-999.00	-999.00	-999.00	38.50	0.00	102.10	101.90	37.70	0.00	-999.00	-999.00	
12	4.60	0.00	97.70	-999.00	-999.00	-999.00	25.30	0.00	102.20	101.90	37.10	0.00	-999.00	-999.00	
13	4.50	0.00	97.70	-999.00	-999.00	-999.00	22.60	0.00	102.20	101.90	37.20	0.00	-999.00	-999.00	
14	4.60	0.00	97.70	-999.00	-999.00	-999.00	22.80	0.00	102.20	101.90	38.00	0.00	-999.00	-999.00	
15	4.50	0.00	97.80	-999.00	-999.00	-999.00	23.20	0.00	102.20	101.90	37.60	0.00	-999.00	-999.00	
16	4.60	0.00	97.70	-999.00	-999.00	-999.00	41.30	0.00	102.20	101.90	50.40	0.00	-999.00	-999.00	
17	4.50	0.00	97.70	-999.00	-999.00	-999.00	43.20	0.00	102.10	101.80	49.40	0.00	-999.00	-999.00	
18	4.60	0.00	97.70	-999.00	-999.00	-999.00	42.80	0.00	102.00	101.80	55.10	0.00	-999.00	-999.00	
19	4.50	0.00	97.50	-999.00	-999.00	-999.00	46.90	0.00	102.00	102.10	58.50	0.00	-999.00	-999.00	
20	4.60	0.00	97.40	-999.00	-999.00	-999.00	53.30	0.00	101.80	101.60	51.50	0.00	-999.00	-999.00	
21	4.40	0.00	97.30	-999.00	-999.00	-999.00	54.90	0.00	101.80	101.50	50.70	0.00	-999.00	-999.00	
22	4.40	0.00	97.50	-999.00	-999.00	-999.00	34.20	0.00	101.60	101.50	51.00	0.00	-999.00	-999.00	
23	4.50	0.00	97.60	-999.00	-999.00	-999.00	33.00	0.00	101.60	101.30	34.50	0.00	-999.00	-999.00	
24	4.50	0.00	97.50	-999.00	-999.00	-999.00	32.50	0.00	101.50	101.20	33.10	0.00	-999.00	-999.00	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	MCNARY	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	PASCO	
1	16.60	0.00	-999.00	-999.00	11.00	0.00	101.40	101.00	110.60	0.00	101.20	101.50	100.80	: 100.90	
2	16.40	0.00	-999.00	-999.00	10.30	0.00	101.50	101.20	110.50	0.00	101.10	101.50	101.10	: 101.00	
3	16.70	0.00	-999.00	-999.00	10.40	0.00	101.60	101.10	110.90	0.00	101.20	101.60	101.00	: 101.10	
4	16.60	0.00	-999.00	-999.00	10.50	0.00	101.60	101.30	111.00	0.00	101.30	101.50	101.10	: 101.10	
5	18.00	0.00	-999.00	-999.00	11.10	0.00	101.60	101.50	112.00	0.00	101.30	101.50	101.00	: 101.20	
6	31.30	0.00	-999.00	-999.00	20.40	0.00	101.50	101.40	138.30	0.00	101.20	101.60	101.10	: 101.10	
7	32.00	0.00	-999.00	-999.00	33.50	0.00	101.60	101.70	139.90	0.00	101.20	101.50	101.00	: 101.00	
8	32.10	0.00	-999.00	-999.00	36.70	0.00	101.60	101.90	141.00	0.00	101.20	101.60	101.00	: 101.00	
9	38.50	0.00	-999.00	-999.00	35.20	0.00	101.60	101.30	142.40	0.00	101.30	101.50	101.10	: 101.10	
10	38.50	0.00	-999.00	-999.00	38.20	0.00	101.50	101.20	162.90	0.00	101.30	101.60	101.10	: 101.00	
11	39.20	0.00	-999.00	-999.00	39.10	0.00	101.50	101.20	164.30	0.00	101.50	101.60	101.10	: 101.10	
12	39.30	0.00	-999.00	-999.00	38.50	0.00	101.60	101.30	165.70	0.00	101.40	101.60	101.10	: 101.40	
13	42.50	0.00	-999.00	-999.00	40.60	0.00	101.60	101.40	166.60	0.00	101.50	101.60	101.10	: 101.80	
14	41.40	0.00	-999.00	-999.00	40.90	0.00	101.60	101.50	168.80	0.00	101.50	101.60	100.90	: 101.90	
15	41.60	0.00	-999.00	-999.00	41.10	0.00	101.60	101.30	169.30	0.00	101.30	101.50	100.90	: 102.10	
16	55.90	0.00	-999.00	-999.00	55.20	0.00	101.60	101.40	160.60	0.00	101.10	101.50	100.90	: 102.00	
17	55.70	0.00	-999.00	-999.00	55.50	0.00	101.50	101.20	160.30	0.00	101.10	101.40	100.70	: 101.90	
18	57.40	0.00	-999.00	-999.00	57.80	0.00	101.40	101.00	155.90	0.00	101.10	101.20	100.60	: 101.70	
19	61.50	0.00	-999.00	-999.00	65.70	0.00	101.40	101.00	159.90	0.00	100.80	101.10	100.50	: 101.30	
20	61.90	0.00	-999.00	-999.00	66.40	0.00	101.30	100.90	160.80	0.00	100.70	101.00	100.40	: 101.00	
21	51.60	0.00	-999.00	-999.00	67.30	0.00	101.20	100.80	160.10	0.00	100.70	101.00	100.30	: 100.70	
22	51.00	0.00	-999.00	-999.00	48.60	0.00	101.10	100.70	153.10	0.00	100.50	100.90	100.20	: 100.50	
23	35.10	0.00	-999.00	-999.00	37.10	0.00	101.00	100.60	138.80	0.00	100.40	100.70	100.10	: 100.40	
24	33.10	0.00	-999.00	-999.00	22.30	0.00	101.00	100.60	132.90	0.00	100.40	100.80	100.00	: 100.30	

08 MAR 2003

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

08 MAR 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	LOWER GRANITE	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.		
1	4.50	0.00	97.50	-999.00	-999.00	-999.00	16.90	0.00	101.40	101.10	17.60	0.00	-999.00	-999.00	
2	4.50	0.00	97.50	-999.00	-999.00	-999.00	16.20	0.00	101.30	101.10	16.40	0.00	-999.00	-999.00	
3	4.50	0.00	97.60	-999.00	-999.00	-999.00	16.60	0.00	101.40	101.10	16.80	0.00	-999.00	-999.00	
4	4.50	0.00	97.50	-999.00	-999.00	-999.00	16.10	0.00	101.30	100.90	16.40	0.00	-999.00	-999.00	
5	4.50	0.00	97.30	-999.00	-999.00	-999.00	18.30	0.00	101.20	100.90	16.50	0.00	-999.00	-999.00	
6	4.50	0.00	97.30	-999.00	-999.00	-999.00	32.10	0.00	101.10	101.10	16.50	0.00	-999.00	-999.00	
7	4.50	0.00	97.10	-999.00	-999.00	-999.00	32.80	0.00	101.00	101.00	17.10	0.00	-999.00	-999.00	
8	4.50	0.00	97.00	-999.00	-999.00	-999.00	34.50	0.00	101.10	100.80	29.70	0.00	-999.00	-999.00	
9	4.60	0.00	96.90	-999.00	-999.00	-999.00	33.30	0.00	101.20	100.80	33.80	0.00	-999.00	-999.00	
10	4.50	0.00	97.00	-999.00	-999.00	-999.00	32.70	0.00	101.20	100.80	33.90	0.00	-999.00	-999.00	
11	4.60	0.00	97.00	-999.00	-999.00	-999.00	32.80	0.00	101.10	100.80	34.00	0.00	-999.00	-999.00	
12	4.50	0.00	96.90	-999.00	-999.00	-999.00	32.90	0.00	101.10	100.70	34.10	0.00	-999.00	-999.00	
13	4.60	0.00	96.90	-999.00	-999.00	-999.00	32.70	0.00	101.20	100.70	33.60	0.00	-999.00	-999.00	
14	4.50	0.00	96.90	-999.00	-999.00	-999.00	32.80	0.00	101.20	100.70	33.70	0.00	-999.00	-999.00	
15	4.60	0.00	96.80	-999.00	-999.00	-999.00	33.40	0.00	101.50	100.80	33.40	0.00	-999.00	-999.00	
16	4.50	0.00	96.70	-999.00	-999.00	-999.00	32.60	0.00	101.30	100.80	34.60	0.00	-999.00	-999.00	
17	4.60	0.00	96.50	-999.00	-999.00	-999.00	32.80	0.00	101.10	100.80	34.00	0.00	-999.00	-999.00	
18	4.40	0.00	96.40	-999.00	-999.00	-999.00	32.70	0.00	101.00	100.80	34.00	0.00	-999.00	-999.00	
19	4.50	0.00	96.40	-999.00	-999.00	-999.00	32.70	0.00	101.00	100.80	33.80	0.00	-999.00	-999.00	
20	4.40	0.00	96.40	-999.00	-999.00	-999.00	33.30	0.00	101.10	100.80	34.00	0.00	-999.00	-999.00	
21	4.50	0.00	96.40	-999.00	-999.00	-999.00	33.90	0.00	101.10	100.90	33.40	0.00	-999.00	-999.00	
22	4.50	0.00	96.50	-999.00	-999.00	-999.00	33.40	0.00	101.20	100.90	33.40	0.00	-999.00	-999.00	
23	4.40	0.00	96.60	-999.00	-999.00	-999.00	33.40	0.00	101.10	101.00	33.50	0.00	-999.00	-999.00	
24	4.50	0.00	96.60	-999.00	-999.00	-999.00	35.20	0.00	101.10	101.00	32.90	0.00	-999.00	-999.00	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB	WA TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB	GAS %SAT	
1	17.40	0.00	-999.00	-999.00	11.60	0.00	100.90	100.50	0.00	100.30	100.60	100.00	0.00	100.10	
2	16.40	0.00	-999.00	-999.00	10.40	0.00	100.80	100.50	0.00	100.30	100.50	99.90	0.00	100.00	
3	16.20	0.00	-999.00	-999.00	10.60	0.00	100.70	100.60	0.00	100.20	100.50	100.10	0.00	100.00	
4	15.90	0.00	-999.00	-999.00	10.40	0.00	100.70	100.60	0.00	100.30	100.60	99.90	0.00	100.00	
5	16.30	0.00	-999.00	-999.00	10.40	0.00	100.60	100.70	0.00	100.20	100.50	99.70	0.00	99.90	
6	16.50	0.00	-999.00	-999.00	10.40	0.00	100.60	100.80	0.00	100.20	100.30	99.70	0.00	99.80	
7	33.30	0.00	-999.00	-999.00	10.80	0.00	100.50	100.60	0.00	100.10	100.20	99.40	0.00	99.70	
8	33.50	0.00	-999.00	-999.00	29.80	0.00	100.50	100.50	0.00	99.90	100.10	99.40	0.00	99.60	
9	37.10	0.00	-999.00	-999.00	38.20	0.00	100.60	101.30	0.00	99.90	100.00	99.40	0.00	99.70	
10	39.00	0.00	-999.00	-999.00	37.90	0.00	100.40	100.20	0.00	99.90	100.00	99.40	0.00	99.80	
11	38.00	0.00	-999.00	-999.00	37.70	0.00	100.40	100.30	0.00	99.80	99.90	99.40	0.00	100.00	
12	36.00	0.00	-999.00	-999.00	38.30	0.00	100.40	100.90	0.00	100.00	100.10	99.40	0.00	100.30	
13	36.10	0.00	-999.00	-999.00	37.80	0.00	100.40	100.50	0.00	100.40	100.10	99.50	0.00	100.60	
14	36.00	0.00	-999.00	-999.00	37.90	0.00	100.40	100.40	0.00	100.60	100.30	99.70	0.00	101.10	
15	36.10	0.00	-999.00	-999.00	38.20	0.00	100.50	100.30	0.00	100.60	100.60	99.70	0.00	101.40	
16	36.70	0.00	-999.00	-999.00	37.70	0.00	100.50	100.30	0.00	100.40	100.50	99.60	0.00	101.30	
17	36.00	0.00	-999.00	-999.00	38.00	0.00	100.50	100.30	0.00	100.20	100.40	99.60	0.00	101.40	
18	35.80	0.00	-999.00	-999.00	37.20	0.00	100.60	100.20	0.00	100.00	100.30	99.60	0.00	101.40	
19	35.90	0.00	-999.00	-999.00	37.20	0.00	100.50	100.20	0.00	99.90	100.20	99.70	0.00	101.20	
20	35.10	0.00	-999.00	-999.00	37.10	0.00	100.70	100.30	0.00	99.90	100.30	99.60	0.00	101.10	
21	35.00	0.00	-999.00	-999.00	37.10	0.00	100.70	100.30	0.00	99.90	100.50	99.70	0.00	101.00	
22	35.70	0.00	-999.00	-999.00	37.20	0.00	100.70	100.30	0.00	99.80	100.50	99.70	0.00	100.80	
23	35.00	0.00	-999.00	-999.00	37.80	0.00	100.70	100.30	0.00	99.80	100.70	99.70	0.00	100.70	
24	35.30	0.00	-999.00	-999.00	37.20	0.00	100.70	100.30	0.00	99.80	100.70	99.70	0.00	100.70	

09 MAR 2003

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

09 MAR 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	LOWER GRANITE	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.		
1	4.40	0.00	96.70	-999.00	-999.00	-999.00	35.50	0.00	101.20	101.00	33.20	0.00	-999.00	-999.00	
2	4.50	0.00	96.70	-999.00	-999.00	-999.00	36.20	0.00	101.20	101.10	32.60	0.00	-999.00	-999.00	
3	4.40	0.00	96.70	-999.00	-999.00	-999.00	36.10	0.00	101.30	101.00	32.60	0.00	-999.00	-999.00	
4	4.50	0.00	96.80	-999.00	-999.00	-999.00	36.30	0.00	101.40	101.10	32.60	0.00	-999.00	-999.00	
5	4.50	0.00	96.80	-999.00	-999.00	-999.00	36.70	0.00	101.30	101.00	33.20	0.00	-999.00	-999.00	
6	4.50	0.00	97.10	-999.00	-999.00	-999.00	36.20	0.00	101.40	101.10	33.10	0.00	-999.00	-999.00	
7	4.50	0.00	96.90	-999.00	-999.00	-999.00	36.10	0.00	101.30	101.00	33.20	0.00	-999.00	-999.00	
8	4.60	0.00	96.90	-999.00	-999.00	-999.00	36.90	0.00	101.40	101.10	33.30	0.00	-999.00	-999.00	
9	4.50	0.00	97.10	-999.00	-999.00	-999.00	36.20	0.00	101.50	101.10	33.20	0.00	-999.00	-999.00	
10	4.60	0.00	97.20	-999.00	-999.00	-999.00	36.20	0.00	101.50	101.10	33.80	0.00	-999.00	-999.00	
11	4.50	0.00	97.40	-999.00	-999.00	-999.00	36.10	0.00	101.50	101.20	33.20	0.00	-999.00	-999.00	
12	4.60	0.00	97.40	-999.00	-999.00	-999.00	36.00	0.00	101.70	101.30	33.20	0.00	-999.00	-999.00	
13	4.50	0.00	97.60	-999.00	-999.00	-999.00	36.80	0.00	101.70	101.50	33.20	0.00	-999.00	-999.00	
14	4.60	0.00	97.70	-999.00	-999.00	-999.00	36.20	0.00	101.80	101.50	33.90	0.00	-999.00	-999.00	
15	4.50	0.00	97.70	-999.00	-999.00	-999.00	35.90	0.00	101.80	101.50	33.20	0.00	-999.00	-999.00	
16	4.60	0.00	97.70	-999.00	-999.00	-999.00	36.00	0.00	101.90	101.50	33.20	0.00	-999.00	-999.00	
17	4.50	0.00	97.60	-999.00	-999.00	-999.00	35.90	0.00	101.90	101.40	32.50	0.00	-999.00	-999.00	
18	4.60	0.00	97.40	-999.00	-999.00	-999.00	36.60	0.00	101.80	101.40	33.00	0.00	-999.00	-999.00	
19	4.50	0.00	97.10	-999.00	-999.00	-999.00	36.30	0.00	101.70	101.20	33.00	0.00	-999.00	-999.00	
20	4.50	0.00	97.10	-999.00	-999.00	-999.00	44.60	0.00	101.70	101.30	48.10	0.00	-999.00	-999.00	
21	4.40	0.00	97.20	-999.00	-999.00	-999.00	47.70	0.00	101.50	101.10	48.50	0.00	-999.00	-999.00	
22	4.50	0.00	97.20	-999.00	-999.00	-999.00	39.40	0.00	101.40	101.10	40.30	0.00	-999.00	-999.00	
23	4.50	0.00	97.00	-999.00	-999.00	-999.00	27.50	0.00	101.40	101.20	28.00	0.00	-999.00	-999.00	
24	4.50	0.00	97.00	-999.00	-999.00	-999.00	26.80	0.00	101.30	101.00	27.20	0.00	-999.00	-999.00	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB	MCNARY	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	PASCO	
1	35.60	0.00	-999.00	-999.00	37.20	0.00	100.70	100.30	0.00	99.80	100.70	99.80	0.00	100.60	
2	35.70	0.00	-999.00	-999.00	37.30	0.00	100.70	100.40	0.00	99.90	100.60	99.70	0.00	100.70	
3	36.30	0.00	-999.00	-999.00	37.30	0.00	100.90	100.50	0.00	100.00	100.80	99.90	0.00	100.80	
4	35.90	0.00	-999.00	-999.00	38.00	0.00	100.80	100.50	0.00	100.00	100.60	99.90	0.00	100.60	
5	35.90	0.00	-999.00	-999.00	37.40	0.00	100.70	100.40	0.00	99.90	100.70	99.70	0.00	100.60	
6	36.00	0.00	-999.00	-999.00	37.30	0.00	100.70	100.50	0.00	99.80	100.70	99.70	0.00	100.60	
7	36.00	0.00	-999.00	-999.00	37.30	0.00	100.70	100.40	0.00	99.90	100.50	99.80	0.00	100.70	
8	36.10	0.00	-999.00	-999.00	37.30	0.00	100.80	100.50	0.00	99.90	100.50	99.90	0.00	100.70	
9	36.50	0.00	-999.00	-999.00	38.00	0.00	100.80	100.60	0.00	100.10	100.60	100.00	0.00	100.90	
10	35.70	0.00	-999.00	-999.00	37.30	0.00	100.80	100.70	0.00	100.20	100.60	100.00	0.00	101.10	
11	35.60	0.00	-999.00	-999.00	37.30	0.00	100.90	100.80	0.00	100.30	100.70	100.10	0.00	101.30	
12	35.70	0.00	-999.00	-999.00	37.30	0.00	100.90	101.00	0.00	100.40	100.80	100.20	0.00	101.60	
13	35.60	0.00	-999.00	-999.00	37.30	0.00	100.80	101.10	0.00	100.70	100.80	100.20	0.00	102.10	
14	35.70	0.00	-999.00	-999.00	38.00	0.00	100.90	101.20	0.00	100.80	101.10	100.40	0.00	102.60	
15	36.50	0.00	-999.00	-999.00	37.50	0.00	100.90	101.00	0.00	100.60	101.20	100.40	0.00	103.10	
16	35.60	0.00	-999.00	-999.00	37.60	0.00	100.90	100.90	0.00	100.40	100.90	100.30	0.00	103.20	
17	35.80	0.00	-999.00	-999.00	37.40	0.00	100.90	100.70	97.90	0.00	100.30	100.90	100.20	0.00	103.40
18	35.60	0.00	-999.00	-999.00	37.60	0.00	100.90	100.70	112.30	0.00	100.40	100.60	100.00	0.00	103.30
19	36.30	0.00	-999.00	-999.00	38.10	0.00	100.80	100.50	100.80	0.00	100.30	100.50	99.90	0.00	103.10
20	48.10	0.00	-999.00	-999.00	37.40	0.00	100.70	100.50	104.60	0.00	100.20	100.40	99.70	0.00	102.90
21	47.90	0.00	-999.00	-999.00	37.40	0.00	100.80	100.50	119.40	0.00	100.20	100.50	99.70	0.00	102.70
22	39.60	0.00	-999.00	-999.00	37.40	0.00	100.70	100.40	118.60	0.00	100.10	100.40	99.60	0.00	102.50
23	28.90	0.00	-999.00	-999.00	37.40	0.00	100.70	100.40	118.00	0.00	100.10	100.30	99.70	0.00	102.20
24	26.70	0.00	-999.00	-999.00	38.10	0.00	100.60	100.40	117.20	0.00	100.10	100.30	99.70	0.00	102.00

10 MAR 2003

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

10 MAR 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	LOWER GRANITE	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.		
1	4.50	0.00	97.00	-999.00	-999.00	-999.00	33.30	0.00	101.30	101.00	35.20	0.00	-999.00	-999.00	
2	4.60	0.00	97.00	-999.00	-999.00	-999.00	30.60	0.00	101.20	101.00	32.20	0.00	-999.00	-999.00	
3	4.50	0.00	97.00	-999.00	-999.00	-999.00	27.60	0.00	101.20	101.00	29.20	0.00	-999.00	-999.00	
4	4.50	0.00	96.90	-999.00	-999.00	-999.00	27.10	0.00	101.20	100.80	27.90	0.00	-999.00	-999.00	
5	4.50	0.00	96.90	-999.00	-999.00	-999.00	27.20	0.00	101.20	100.80	28.10	0.00	-999.00	-999.00	
6	4.50	0.00	96.90	-999.00	-999.00	-999.00	28.90	0.00	101.10	101.10	29.30	0.00	-999.00	-999.00	
7	4.50	0.00	96.90	-999.00	-999.00	-999.00	41.90	0.00	100.90	100.90	48.90	0.00	-999.00	-999.00	
8	4.50	0.00	96.90	-999.00	-999.00	-999.00	42.20	0.00	100.90	100.90	48.90	0.00	-999.00	-999.00	
9	4.50	0.00	97.00	-999.00	-999.00	-999.00	42.00	0.00	101.00	100.80	48.70	0.00	-999.00	-999.00	
10	4.60	0.00	97.20	-999.00	-999.00	-999.00	42.30	0.00	101.00	100.80	49.00	0.00	-999.00	-999.00	
11	4.60	0.00	98.30	-999.00	-999.00	-999.00	42.90	0.00	101.00	100.90	48.80	0.00	-999.00	-999.00	
12	4.60	0.00	99.40	-999.00	-999.00	-999.00	42.20	0.00	101.40	101.00	44.20	0.00	-999.00	-999.00	
13	4.60	0.00	99.70	-999.00	-999.00	-999.00	42.30	0.00	101.40	100.90	43.20	0.00	-999.00	-999.00	
14	4.60	0.00	99.90	-999.00	-999.00	-999.00	42.30	0.00	101.40	100.90	38.70	0.00	-999.00	-999.00	
15	4.60	0.00	99.90	-999.00	-999.00	-999.00	42.20	0.00	101.20	100.80	37.70	0.00	-999.00	-999.00	
16	4.50	0.00	99.90	-999.00	-999.00	-999.00	42.40	0.00	101.20	101.00	38.40	0.00	-999.00	-999.00	
17	4.60	0.00	99.60	-999.00	-999.00	-999.00	43.10	0.00	101.30	100.90	37.40	0.00	-999.00	-999.00	
18	4.40	0.00	99.60	-999.00	-999.00	-999.00	42.30	0.00	101.20	100.90	37.60	0.00	-999.00	-999.00	
19	1.50	0.00	99.60	-999.00	-999.00	-999.00	42.40	0.00	101.00	100.80	37.40	0.00	-999.00	-999.00	
20	1.50	0.00	100.50	-999.00	-999.00	-999.00	41.60	0.00	101.10	100.70	38.10	0.00	-999.00	-999.00	
21	1.50	0.00	102.80	-999.00	-999.00	-999.00	41.60	0.00	101.10	100.70	37.40	0.00	-999.00	-999.00	
22	1.50	0.00	104.10	-999.00	-999.00	-999.00	41.90	0.00	100.90	100.70	37.20	0.00	-999.00	-999.00	
23	1.50	0.00	104.60	-999.00	-999.00	-999.00	30.80	0.00	100.90	100.70	30.30	0.00	-999.00	-999.00	
24	1.50	0.00	104.80	-999.00	-999.00	-999.00	30.40	0.00	101.00	100.70	30.60	0.00	-999.00	-999.00	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB	MCNARY	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	PASCO	
1	33.20	0.00	-999.00	-999.00	37.60	0.00	100.60	100.40	0.00	100.10	100.30	99.70	0.00	101.90	
2	32.30	0.00	-999.00	-999.00	37.60	0.00	100.60	100.40	0.00	99.90	100.40	99.70	0.00	101.70	
3	33.00	0.00	-999.00	-999.00	37.70	0.00	100.70	100.40	0.00	99.90	100.20	99.70	0.00	101.60	
4	39.10	0.00	-999.00	-999.00	37.80	0.00	100.60	100.40	0.00	99.90	100.20	99.70	0.00	101.40	
5	38.90	0.00	-999.00	-999.00	37.70	0.00	100.60	100.40	0.00	99.70	100.30	99.60	0.00	101.30	
6	39.60	0.00	-999.00	-999.00	38.40	0.00	100.80	100.30	0.00	99.70	100.30	99.60	0.00	101.20	
7	48.40	0.00	-999.00	-999.00	37.60	0.00	100.70	100.30	0.00	99.80	100.30	99.60	0.00	101.10	
8	48.10	0.00	-999.00	-999.00	37.60	0.00	100.70	100.30	0.00	99.70	100.40	99.80	0.00	101.00	
9	48.00	0.00	-999.00	-999.00	37.50	0.00	100.70	100.50	0.00	99.90	100.60	99.90	0.00	101.20	
10	48.00	0.00	-999.00	-999.00	38.10	0.00	100.70	100.70	0.00	100.10	100.70	100.00	0.00	101.60	
11	47.80	0.00	-999.00	-999.00	37.60	0.00	100.90	100.70	0.00	100.10	100.80	100.20	0.00	101.90	
12	43.20	0.00	-999.00	-999.00	37.50	0.00	100.80	100.90	0.00	100.20	101.00	100.30	0.00	102.30	
13	43.20	0.00	-999.00	-999.00	37.50	0.00	100.90	101.10	0.00	100.40	101.10	100.40	0.00	102.80	
14	37.80	0.00	-999.00	-999.00	37.50	0.00	101.10	101.20	0.00	100.50	101.60	100.40	0.00	103.00	
15	37.40	0.00	-999.00	-999.00	38.10	0.00	101.10	101.10	0.00	100.30	101.40	0.00	0.00	103.30	
16	37.20	0.00	-999.00	-999.00	37.40	0.00	101.20	101.10	0.00	100.50	101.10	0.00	0.00	103.20	
17	36.80	0.00	-999.00	-999.00	37.50	0.00	101.20	101.00	0.00	100.50	101.00	0.00	0.00	103.00	
18	37.20	0.00	-999.00	-999.00	37.60	0.00	101.30	101.00	0.00	100.50	100.90	0.00	0.00	103.20	
19	37.60	0.00	-999.00	-999.00	37.60	0.00	101.20	100.80	0.00	108.40	0.00	100.60	100.90	0.00	
20	36.90	0.00	-999.00	-999.00	38.30	0.00	101.20	100.80	0.00	108.30	0.00	100.50	100.70	0.00	
21	37.10	0.00	-999.00	-999.00	37.50	0.00	101.20	100.80	0.00	107.70	0.00	100.40	100.70	0.00	
22	36.70	0.00	-999.00	-999.00	37.40	0.00	101.20	100.80	0.00	107.40	0.00	100.50	100.70	0.00	
23	30.00	0.00	-999.00	-999.00	37.30	0.00	101.20	100.80	0.00	105.40	0.00	100.50	100.80	0.00	
24	29.70	0.00	-999.00	-999.00	37.80	0.00	101.30	100.90	0.00	107.70	0.00	100.60	100.80	0.00	

11 MAR 2003

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

11 MAR 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.			
1	1.50	0.00	104.80	-999.00	-999.00	-999.00	30.50	0.00	101.00	30.40	0.00	-999.00	-999.00	-999.00	-999.00
2	1.50	0.00	104.80	-999.00	-999.00	-999.00	30.40	0.00	101.00	30.20	0.00	-999.00	-999.00	-999.00	-999.00
3	1.50	0.00	104.80	-999.00	-999.00	-999.00	30.90	0.00	101.10	30.60	0.00	-999.00	-999.00	-999.00	-999.00
4	1.50	0.00	104.90	-999.00	-999.00	-999.00	30.30	0.00	101.00	30.40	0.00	-999.00	-999.00	-999.00	-999.00
5	1.50	0.00	104.90	-999.00	-999.00	-999.00	35.90	0.00	101.00	30.90	0.00	-999.00	-999.00	-999.00	-999.00
6	1.50	0.00	104.90	-999.00	-999.00	-999.00	44.50	0.00	101.00	30.80	0.00	-999.00	-999.00	-999.00	-999.00
7	1.50	0.00	105.10	-999.00	-999.00	-999.00	44.50	0.00	101.00	39.90	0.00	-999.00	-999.00	-999.00	-999.00
8	1.50	0.00	105.20	-999.00	-999.00	-999.00	46.60	0.00	101.00	47.90	0.00	-999.00	-999.00	-999.00	-999.00
9	1.50	0.00	105.60	-999.00	-999.00	-999.00	48.60	0.00	101.20	49.20	0.00	-999.00	-999.00	-999.00	-999.00
10	1.50	0.00	105.80	-999.00	-999.00	-999.00	54.90	0.00	101.30	48.30	0.00	-999.00	-999.00	-999.00	-999.00
11	1.50	0.00	106.20	-999.00	-999.00	-999.00	55.20	0.00	101.50	48.20	0.00	-999.00	-999.00	-999.00	-999.00
12	1.50	0.00	106.50	-999.00	-999.00	-999.00	55.20	0.00	101.50	48.10	0.00	-999.00	-999.00	-999.00	-999.00
13	1.50	0.00	106.60	-999.00	-999.00	-999.00	49.20	0.00	101.60	44.40	0.00	-999.00	-999.00	-999.00	-999.00
14	1.50	0.00	106.60	-999.00	-999.00	-999.00	47.40	0.00	101.60	43.80	0.00	-999.00	-999.00	-999.00	-999.00
15	1.50	0.00	106.70	-999.00	-999.00	-999.00	46.10	0.00	101.50	42.90	0.00	-999.00	-999.00	-999.00	-999.00
16	1.50	0.00	106.60	-999.00	-999.00	-999.00	46.20	0.00	101.50	42.90	0.00	-999.00	-999.00	-999.00	-999.00
17	1.50	0.00	-999.00	-999.00	-999.00	-999.00	53.40	0.00	-999.00	45.70	0.00	-999.00	-999.00	-999.00	-999.00
18	1.50	0.00	-999.00	-999.00	-999.00	-999.00	53.90	0.00	-999.00	58.40	0.00	-999.00	-999.00	-999.00	-999.00
19	1.50	0.00	-999.00	-999.00	-999.00	-999.00	53.80	0.00	-999.00	58.10	0.00	-999.00	-999.00	-999.00	-999.00
20	1.50	0.00	-999.00	-999.00	-999.00	-999.00	54.70	0.00	-999.00	57.80	0.00	-999.00	-999.00	-999.00	-999.00
21	1.50	0.00	-999.00	-999.00	-999.00	-999.00	53.70	0.00	-999.00	49.90	0.00	-999.00	-999.00	-999.00	-999.00
22	1.50	0.00	-999.00	-999.00	-999.00	-999.00	53.60	0.00	-999.00	45.70	0.00	-999.00	-999.00	-999.00	-999.00
23	1.50	0.00	-999.00	-999.00	-999.00	-999.00	51.00	0.00	-999.00	40.80	0.00	-999.00	-999.00	-999.00	-999.00
24	1.50	0.00	-999.00	-999.00	-999.00	-999.00	50.80	0.00	-999.00	40.70	0.00	-999.00	-999.00	-999.00	-999.00

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL OR FB	GAS %SAT. WA FB	TAILW.	GAS %SAT	
1	29.70	0.00	-999.00	-999.00	38.10	0.00	101.30	100.90	0.00	100.60	100.70	0.00		101.90	
2	30.10	0.00	-999.00	-999.00	38.60	0.00	101.30	101.10	0.00	100.70	100.70	0.00		101.80	
3	29.70	0.00	-999.00	-999.00	37.70	0.00	101.40	101.10	0.00	100.80	100.70	0.00		101.80	
4	29.80	0.00	-999.00	-999.00	37.80	0.00	101.40	101.00	0.00	100.70	100.70	0.00		101.70	
5	30.00	0.00	-999.00	-999.00	37.80	0.00	101.40	101.00	0.00	100.70	100.90	0.00		101.80	
6	30.20	0.00	-999.00	-999.00	37.80	0.00	101.50	101.00	0.00	100.70	100.90	0.00		101.70	
7	34.70	0.00	-999.00	-999.00	38.40	0.00	101.50	101.00	0.00	100.60	100.90	0.00		101.70	
8	47.20	0.00	-999.00	-999.00	37.70	0.00	101.40	101.20	0.00	100.50	100.90	0.00		101.70	
9	50.40	0.00	-999.00	-999.00	37.70	0.00	101.30	101.30	0.00	100.70	101.10	0.00		101.80	
10	54.20	0.00	-999.00	-999.00	37.90	0.00	101.40	101.60	0.00	100.90	101.40	0.00		102.10	
11	54.60	0.00	-999.00	-999.00	38.10	0.00	101.60	101.70	0.00	100.90	101.30	0.00		102.50	
12	54.40	0.00	-999.00	-999.00	38.60	0.00	101.80	101.70	0.00	101.00	101.60	101.00		102.80	
13	49.80	0.00	-999.00	-999.00	37.80	0.00	101.90	101.90	0.00	101.30	101.90	101.20		103.00	
14	47.40	0.00	-999.00	-999.00	37.80	0.00	101.90	101.80	0.00	101.30	101.80	101.20		103.10	
15	48.10	0.00	-999.00	-999.00	37.70	0.00	102.00	101.80	0.00	101.50	102.00	101.20		103.20	
16	47.20	0.00	-999.00	-999.00	37.60	0.00	102.00	101.80	0.00	101.50	101.70	101.30		103.00	
17	51.20	0.00	-999.00	-999.00	38.00	0.00	-999.00	-999.00	0.00	-999.00	-999.00	-999.00		-999.00	
18	59.00	0.00	-999.00	-999.00	37.60	0.00	-999.00	-999.00	0.00	-999.00	-999.00	-999.00		-999.00	
19	65.30	0.00	-999.00	-999.00	37.30	0.00	-999.00	-999.00	0.00	-999.00	-999.00	-999.00		-999.00	
20	66.80	0.00	-999.00	-999.00	37.10	0.00	-999.00	-999.00	0.00	-999.00	-999.00	-999.00		-999.00	
21	55.60	0.00	-999.00	-999.00	37.10	0.00	-999.00	-999.00	0.00	-999.00	-999.00	-999.00		-999.00	
22	50.30	0.00	-999.00	-999.00	37.00	0.00	-999.00	-999.00	0.00	-999.00	-999.00	-999.00		-999.00	
23	45.80	0.00	-999.00	-999.00	37.70	0.00	-999.00	-999.00	0.00	-999.00	-999.00	-999.00		-999.00	
24	45.70	0.00	-999.00	-999.00	37.00	0.00	-999.00	-999.00	0.00	-999.00	-999.00	-999.00		-999.00	

12 MAR 2003

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

12 MAR 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	LITTLE GOOSE	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.		
1	1.50	0.00	-999.00	-999.00	-999.00	-999.00	50.70	0.00	-999.00	-999.00	45.30	0.00	-999.00	-999.00	-999.00
2	1.50	0.00	-999.00	-999.00	-999.00	-999.00	49.80	0.00	-999.00	-999.00	45.50	0.00	-999.00	-999.00	-999.00
3	1.50	0.00	-999.00	-999.00	-999.00	-999.00	48.90	0.00	-999.00	-999.00	46.50	0.00	-999.00	-999.00	-999.00
4	1.50	0.00	-999.00	-999.00	-999.00	-999.00	49.20	0.00	-999.00	-999.00	49.90	0.00	-999.00	-999.00	-999.00
5	1.50	0.00	105.30	-999.00	-999.00	-999.00	48.80	0.00	101.00	100.90	50.70	0.00	-999.00	-999.00	-999.00
6	1.50	0.00	105.30	-999.00	-999.00	-999.00	48.10	0.00	101.00	100.80	54.50	0.00	-999.00	-999.00	-999.00
7	1.50	0.00	105.30	-999.00	-999.00	-999.00	48.10	0.00	100.90	100.80	56.00	0.00	-999.00	-999.00	-999.00
8	1.50	0.00	105.20	-999.00	-999.00	-999.00	51.50	0.00	100.90	100.80	54.80	0.00	-999.00	-999.00	-999.00
9	1.50	0.00	105.50	-999.00	-999.00	-999.00	51.30	0.00	100.90	100.70	49.80	0.00	-999.00	-999.00	-999.00
10	1.50	0.00	105.90	-999.00	-999.00	-999.00	54.60	0.00	101.10	100.90	49.70	0.00	-999.00	-999.00	-999.00
11	1.50	0.00	106.10	-999.00	-999.00	-999.00	54.70	0.00	101.20	100.90	49.90	0.00	-999.00	-999.00	-999.00
12	1.50	0.00	105.80	-999.00	-999.00	-999.00	54.60	0.00	101.20	101.10	55.10	0.00	-999.00	-999.00	-999.00
13	1.50	0.00	105.60	-999.00	-999.00	-999.00	57.30	0.00	101.50	0.00	54.50	0.00	-999.00	-999.00	-999.00
14	1.50	0.00	105.60	-999.00	-999.00	-999.00	57.10	0.00	101.90	101.40	55.90	0.00	-999.00	-999.00	-999.00
15	1.50	0.00	105.70	-999.00	-999.00	-999.00	58.00	0.00	101.90	101.60	57.50	0.00	-999.00	-999.00	-999.00
16	1.50	0.00	105.70	-999.00	-999.00	-999.00	56.90	0.00	102.00	101.60	58.20	0.00	-999.00	-999.00	-999.00
17	1.50	0.00	0.00	-999.00	-999.00	-999.00	56.80	0.00	101.80	101.60	56.90	0.00	-999.00	-999.00	-999.00
18	1.50	0.00	105.60	-999.00	-999.00	-999.00	56.40	0.00	101.70	101.70	56.40	0.00	-999.00	-999.00	-999.00
19	1.50	0.00	105.20	-999.00	-999.00	-999.00	56.70	0.00	101.70	101.70	56.80	0.00	-999.00	-999.00	-999.00
20	1.50	0.00	104.80	-999.00	-999.00	-999.00	56.70	0.00	101.70	101.80	63.90	0.00	-999.00	-999.00	-999.00
21	1.50	0.00	104.70	-999.00	-999.00	-999.00	57.80	0.00	101.70	101.60	66.60	0.00	-999.00	-999.00	-999.00
22	1.50	0.00	104.70	-999.00	-999.00	-999.00	56.40	0.00	101.80	101.70	66.40	0.00	-999.00	-999.00	-999.00
23	1.50	0.00	104.60	-999.00	-999.00	-999.00	56.50	0.00	101.80	101.70	59.30	0.00	-999.00	-999.00	-999.00
24	1.50	0.00	104.50	-999.00	-999.00	-999.00	62.80	0.00	101.90	101.80	57.30	0.00	-999.00	-999.00	-999.00

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	PASCO	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	GAS %SAT	
1	41.70	0.00	-999.00	-999.00	36.90	0.00	102.00	101.60	126.10	0.00	101.40	101.50	-999.00	101.70	
2	41.00	0.00	-999.00	-999.00	36.80	0.00	102.00	101.70	127.10	0.00	101.40	101.50	-999.00	101.70	
3	41.80	0.00	-999.00	-999.00	36.90	0.00	102.00	101.70	126.50	0.00	101.50	101.60	-999.00	101.70	
4	41.60	0.00	-999.00	-999.00	37.70	0.00	102.00	101.70	127.40	0.00	101.50	101.70	-999.00	101.70	
5	48.70	0.00	-999.00	-999.00	38.90	0.00	101.90	101.70	128.70	0.00	101.40	101.60	101.00	101.60	
6	59.20	0.00	-999.00	-999.00	37.40	0.00	101.90	101.70	123.40	0.00	101.50	101.60	101.00	101.50	
7	63.40	0.00	-999.00	-999.00	43.80	0.00	102.00	101.70	125.80	0.00	101.50	101.60	101.00	101.50	
8	65.00	0.00	-999.00	-999.00	61.00	0.00	102.00	102.50	126.20	0.00	101.50	101.70	101.00	101.50	
9	63.90	0.00	-999.00	-999.00	68.00	0.00	102.10	101.80	126.40	0.00	101.50	101.90	101.00	101.60	
10	63.60	0.00	-999.00	-999.00	68.00	0.00	102.10	101.90	160.20	0.00	101.70	101.90	101.00	101.80	
11	51.10	0.00	-999.00	-999.00	55.70	0.00	102.20	102.10	166.00	0.00	102.00	102.20	101.60	102.10	
12	47.90	0.00	-999.00	-999.00	52.40	0.00	102.30	102.20	167.30	0.00	102.10	102.30	101.90	102.40	
13	48.80	0.00	-999.00	-999.00	52.20	0.00	102.70	102.30	154.20	0.00	102.40	102.60	102.10	102.80	
14	48.60	0.00	-999.00	-999.00	53.00	0.00	103.30	102.60	142.10	0.00	102.70	102.70	102.30	103.20	
15	48.90	0.00	-999.00	-999.00	54.90	0.00	103.20	102.70	142.40	0.00	103.00	103.30	102.50	103.40	
16	50.80	0.00	-999.00	-999.00	55.10	0.00	103.20	102.60	141.60	0.00	103.20	103.40	102.60	103.60	
17	63.20	0.00	-999.00	-999.00	54.90	0.00	103.20	102.80	136.40	0.00	103.20	103.50	102.70	103.70	
18	63.30	0.00	-999.00	-999.00	54.40	0.00	103.20	102.70	128.80	0.00	103.30	103.60	102.80	103.70	
19	64.40	0.00	-999.00	-999.00	55.00	0.00	103.00	102.50	129.00	0.00	103.20	103.50	102.70	103.70	
20	64.10	0.00	-999.00	-999.00	75.40	0.00	102.90	102.50	129.20	0.00	103.00	103.60	102.70	103.60	
21	81.80	0.00	-999.00	-999.00	82.00	0.00	102.90	102.70	128.50	0.00	102.90	103.60	102.60	103.30	
22	75.60	0.00	-999.00	-999.00	71.30	0.00	103.00	102.70	92.10	0.00	103.00	103.70	102.70	103.40	
23	68.70	0.00	-999.00	-999.00	62.00	0.00	103.10	102.70	85.50	0.00	103.20	103.90	102.90	103.50	
24	67.10	0.00	-999.00	-999.00	63.30	0.00	103.30	102.90	69.60	0.00	103.20	103.90	102.90	103.50	

13 MAR 2003

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

13 MAR 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	LOWER GRANITE	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.		
1	1.50	0.00	104.60	-999.00	-999.00	-999.00	75.70	0.00	102.10	102.00	61.90	0.00	-999.00	-999.00	
2	1.50	0.00	104.50	-999.00	-999.00	-999.00	76.40	0.00	102.40	102.10	73.30	0.00	-999.00	-999.00	
3	1.50	0.00	104.50	-999.00	-999.00	-999.00	77.80	0.00	102.30	102.30	78.00	0.00	-999.00	-999.00	
4	1.50	0.00	104.50	-999.00	-999.00	-999.00	76.50	0.00	102.30	102.30	81.70	0.00	-999.00	-999.00	
5	1.50	0.00	104.60	-999.00	-999.00	-999.00	73.00	0.00	102.30	102.20	79.60	0.00	-999.00	-999.00	
6	1.50	0.00	104.50	-999.00	-999.00	-999.00	73.00	0.00	102.50	102.30	78.20	0.00	-999.00	-999.00	
7	1.50	0.00	104.60	-999.00	-999.00	-999.00	73.10	0.00	102.40	102.30	78.20	0.00	-999.00	-999.00	
8	1.50	0.00	104.80	-999.00	-999.00	-999.00	72.70	0.00	102.40	102.30	77.40	0.00	-999.00	-999.00	
9	1.50	0.00	105.00	-999.00	-999.00	-999.00	74.10	0.00	102.50	102.20	76.90	0.00	-999.00	-999.00	
10	1.50	0.00	105.30	-999.00	-999.00	-999.00	72.80	0.00	102.60	102.30	75.50	0.00	-999.00	-999.00	
11	1.50	0.00	105.60	-999.00	-999.00	-999.00	73.00	0.00	102.60	102.30	71.60	0.00	-999.00	-999.00	
12	1.50	0.00	105.70	-999.00	-999.00	-999.00	69.70	0.00	102.80	102.50	69.70	0.00	-999.00	-999.00	
13	1.50	0.00	106.00	-999.00	-999.00	-999.00	69.70	0.00	102.80	102.50	71.00	0.00	-999.00	-999.00	
14	1.50	0.00	106.20	-999.00	-999.00	-999.00	70.20	0.00	102.80	102.80	70.60	0.00	-999.00	-999.00	
15	1.50	0.00	106.30	-999.00	-999.00	-999.00	68.80	0.00	103.00	102.80	69.40	0.00	-999.00	-999.00	
16	1.50	0.00	105.90	-999.00	-999.00	-999.00	73.40	0.00	103.00	102.90	75.30	0.00	-999.00	-999.00	
17	1.50	0.00	105.60	-999.00	-999.00	-999.00	70.50	0.00	103.20	102.90	77.60	0.00	-999.00	-999.00	
18	1.50	0.00	105.50	-999.00	-999.00	-999.00	70.10	0.00	103.20	103.00	78.70	0.00	-999.00	-999.00	
19	1.50	0.00	105.20	-999.00	-999.00	-999.00	72.30	0.00	102.90	103.00	80.80	0.00	-999.00	-999.00	
20	1.50	0.00	105.20	-999.00	-999.00	-999.00	67.50	0.00	103.10	102.90	75.30	0.00	-999.00	-999.00	
21	1.50	0.00	105.20	-999.00	-999.00	-999.00	65.90	0.00	103.10	103.00	73.20	0.00	-999.00	-999.00	
22	1.50	0.00	105.00	-999.00	-999.00	-999.00	65.50	0.00	103.00	102.90	72.60	0.00	-999.00	-999.00	
23	1.50	0.00	105.00	-999.00	-999.00	-999.00	49.20	0.00	102.90	102.80	51.00	0.00	-999.00	-999.00	
24	1.50	0.00	104.90	-999.00	-999.00	-999.00	45.50	0.00	102.80	102.70	45.60	0.00	-999.00	-999.00	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB	MCNARY	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	PASCO	
1	60.70	0.00	-999.00	-999.00	55.10	0.00	103.20	102.90	63.70	0.00	103.20	104.00	102.90	103.50	
2	57.40	0.00	-999.00	-999.00	49.40	0.00	103.20	102.90	68.20	0.00	103.20	103.80	102.90	103.40	
3	66.90	0.00	-999.00	-999.00	55.60	0.00	103.30	102.80	76.00	0.00	103.20	103.90	103.00	103.40	
4	75.40	0.00	-999.00	-999.00	49.90	0.00	103.40	102.80	71.20	0.00	103.20	103.90	103.00	103.30	
5	83.20	0.00	-999.00	-999.00	58.00	0.00	103.30	102.90	79.00	0.00	103.10	104.00	103.00	103.30	
6	98.10	0.00	-999.00	-999.00	73.30	0.00	103.30	102.90	134.90	0.00	103.00	103.80	103.10	103.10	
7	95.00	0.00	-999.00	-999.00	89.20	0.00	103.10	103.00	154.20	0.00	103.00	103.70	103.00	103.10	
8	96.40	0.00	-999.00	-999.00	94.00	0.00	103.10	102.90	158.10	0.00	102.90	103.80	102.90	103.00	
9	95.10	0.00	-999.00	-999.00	95.10	0.00	103.00	102.80	157.20	0.00	102.80	103.80	102.90	103.00	
10	94.30	0.00	-999.00	-999.00	95.00	0.00	102.90	102.80	150.80	0.00	102.80	103.70	102.90	102.90	
11	86.50	0.00	-999.00	-999.00	96.00	0.00	102.90	102.70	150.10	0.00	103.00	103.70	103.00	103.00	
12	80.70	0.00	-999.00	-999.00	94.60	0.00	102.90	102.60	148.60	0.00	102.90	103.80	102.90	103.20	
13	80.60	0.00	-999.00	-999.00	89.40	0.00	103.00	102.90	104.60	0.00	103.20	103.90	103.00	103.50	
14	81.70	0.00	-999.00	-999.00	89.20	0.00	103.10	102.90	98.40	0.00	103.30	104.00	103.20	103.70	
15	80.30	0.00	-999.00	-999.00	84.40	0.00	103.10	102.80	96.40	0.00	103.30	104.00	103.30	104.10	
16	80.80	0.00	-999.00	-999.00	74.50	0.00	103.20	103.30	96.90	0.00	103.30	104.10	103.40	104.20	
17	81.30	0.00	-999.00	-999.00	76.70	0.00	103.30	104.00	94.30	0.00	103.40	104.20	103.40	104.20	
18	80.90	0.00	-999.00	-999.00	76.90	0.00	103.20	103.60	94.90	0.00	103.50	104.10	103.30	104.10	
19	83.20	0.00	-999.00	-999.00	76.70	0.00	103.10	103.30	101.30	0.00	103.50	104.20	103.40	104.30	
20	76.50	0.00	-999.00	-999.00	76.30	0.00	103.30	102.90	114.80	0.00	103.50	104.00	103.30	104.10	
21	77.30	0.00	-999.00	-999.00	76.00	0.00	103.10	102.70	115.10	0.00	103.40	103.90	103.20	104.00	
22	75.30	0.00	-999.00	-999.00	77.00	0.00	103.00	102.70	81.90	0.00	103.40	103.90	103.10	103.90	
23	49.40	0.00	-999.00	-999.00	57.30	0.00	103.00	103.00	70.60	0.00	103.40	103.90	103.10	103.80	
24	51.20	0.00	-999.00	-999.00	56.10	0.00	102.90	102.60	63.50	0.00	103.20	103.60	103.00	103.40	

14 MAR 2003

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

14 MAR 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	LITTLE GOOSE	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.		
1	1.50	0.00	105.00	-999.00	-999.00	-999.00	43.30	0.00	102.60	102.50	43.80	0.00	-999.00	-999.00	-999.00
2	1.50	0.00	104.80	-999.00	-999.00	-999.00	41.40	0.00	102.60	102.40	42.60	0.00	-999.00	-999.00	-999.00
3	1.50	0.00	104.70	-999.00	-999.00	-999.00	44.10	0.00	102.60	102.40	45.90	0.00	-999.00	-999.00	-999.00
4	1.50	0.00	104.70	-999.00	-999.00	-999.00	44.80	0.00	102.60	102.40	45.40	0.00	-999.00	-999.00	-999.00
5	1.50	0.00	104.70	-999.00	-999.00	-999.00	57.20	0.00	102.50	102.30	46.00	0.00	-999.00	-999.00	-999.00
6	1.50	0.00	104.60	-999.00	-999.00	-999.00	80.00	0.00	102.50	102.30	48.10	0.00	-999.00	-999.00	-999.00
7	1.50	0.00	104.60	-999.00	-999.00	-999.00	79.90	0.00	102.10	102.10	78.00	0.00	-999.00	-999.00	-999.00
8	1.50	0.00	104.70	-999.00	-999.00	-999.00	82.60	0.00	102.10	102.00	79.20	0.00	-999.00	-999.00	-999.00
9	1.50	0.00	105.00	-999.00	-999.00	-999.00	75.70	0.00	101.90	101.90	76.50	0.00	-999.00	-999.00	-999.00
10	1.50	0.00	105.50	-999.00	-999.00	-999.00	70.70	0.00	101.90	101.90	73.00	0.00	-999.00	-999.00	-999.00
11	1.50	0.00	105.90	-999.00	-999.00	-999.00	69.10	0.00	102.00	101.90	72.90	0.00	-999.00	-999.00	-999.00
12	1.50	0.00	105.60	-999.00	-999.00	-999.00	69.20	0.00	102.30	101.90	73.80	0.00	-999.00	-999.00	-999.00
13	1.50	0.00	105.30	-999.00	-999.00	-999.00	66.70	0.00	102.60	102.20	69.50	0.00	-999.00	-999.00	-999.00
14	1.50	0.00	105.40	-999.00	-999.00	-999.00	64.90	0.00	102.50	101.90	67.40	0.00	-999.00	-999.00	-999.00
15	1.50	0.00	105.70	-999.00	-999.00	-999.00	65.90	0.00	102.40	102.30	67.50	0.00	-999.00	-999.00	-999.00
16	1.50	0.00	106.00	-999.00	-999.00	-999.00	64.70	0.00	102.20	102.10	77.40	0.00	-999.00	-999.00	-999.00
17	1.50	0.00	105.90	-999.00	-999.00	-999.00	64.50	0.00	102.20	102.00	69.50	0.00	-999.00	-999.00	-999.00
18	1.50	0.00	105.50	-999.00	-999.00	-999.00	64.50	0.00	102.30	102.10	69.80	0.00	-999.00	-999.00	-999.00
19	1.50	0.00	105.10	-999.00	-999.00	-999.00	64.30	0.00	102.20	102.10	69.60	0.00	-999.00	-999.00	-999.00
20	1.50	0.00	104.80	-999.00	-999.00	-999.00	63.40	0.00	102.10	102.10	66.80	0.00	-999.00	-999.00	-999.00
21	1.50	0.00	104.90	-999.00	-999.00	-999.00	61.20	0.00	102.10	102.20	67.20	0.00	-999.00	-999.00	-999.00
22	1.50	0.00	104.80	-999.00	-999.00	-999.00	36.10	0.00	102.20	102.20	53.00	0.00	-999.00	-999.00	-999.00
23	1.50	0.00	104.90	-999.00	-999.00	-999.00	34.80	0.00	102.30	102.30	39.90	0.00	-999.00	-999.00	-999.00
24	1.50	0.00	105.00	-999.00	-999.00	-999.00	41.50	0.00	102.10	102.20	38.40	0.00	-999.00	-999.00	-999.00

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	PASCO	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.		
1	50.10	0.00	-999.00	-999.00	50.30	0.00	102.70	102.30	57.50	0.00	103.00	103.50	102.90	:	103.30
2	48.70	0.00	-999.00	-999.00	48.90	0.00	102.70	102.20	59.60	0.00	102.90	103.50	102.80	:	102.90
3	52.20	0.00	-999.00	-999.00	50.70	0.00	102.70	102.20	105.60	0.00	102.90	103.40	102.80	:	102.90
4	51.60	0.00	-999.00	-999.00	50.80	0.00	102.50	102.10	156.60	0.00	102.80	103.20	102.80	:	102.70
5	52.50	0.00	-999.00	-999.00	45.80	0.00	102.60	102.00	158.90	0.00	102.80	103.20	102.70	:	102.70
6	54.50	0.00	-999.00	-999.00	45.90	0.00	102.50	101.90	157.00	0.00	102.80	103.00	102.70	:	102.50
7	70.10	0.00	-999.00	-999.00	63.90	0.00	102.40	102.10	159.50	0.00	102.80	102.90	102.70	:	102.40
8	69.50	0.00	-999.00	-999.00	65.70	0.00	102.30	102.00	159.50	0.00	102.70	102.90	102.60	:	102.40
9	80.00	0.00	-999.00	-999.00	70.40	0.00	102.30	102.00	156.40	0.00	102.60	103.00	102.60	:	102.50
10	77.60	0.00	-999.00	-999.00	70.50	0.00	102.40	102.10	155.80	0.00	102.70	103.00	102.60	:	102.60
11	77.20	0.00	-999.00	-999.00	71.60	0.00	102.40	102.10	155.70	0.00	102.80	103.00	102.50	:	102.90
12	76.90	0.00	-999.00	-999.00	70.60	0.00	102.50	102.20	156.10	0.00	102.80	103.10	102.60	:	103.10
13	74.70	0.00	-999.00	-999.00	70.60	0.00	102.60	102.40	157.30	0.00	103.10	103.30	102.60	:	103.60
14	73.80	0.00	-999.00	-999.00	70.40	0.00	102.60	102.30	145.20	0.00	103.60	103.40	102.70	:	103.90
15	69.30	0.00	-999.00	-999.00	70.60	0.00	102.80	102.50	140.40	0.00	103.90	103.60	102.70	:	104.30
16	73.90	0.00	-999.00	-999.00	70.50	0.00	102.80	102.60	140.50	0.00	104.10	103.70	102.80	:	104.60
17	76.90	0.00	-999.00	-999.00	71.00	0.00	103.00	102.70	140.80	0.00	104.20	103.70	103.00	:	104.80
18	79.00	0.00	-999.00	-999.00	71.70	0.00	103.10	102.80	141.50	0.00	104.20	104.40	103.10	:	104.80
19	79.80	0.00	-999.00	-999.00	70.80	0.00	103.20	102.70	144.70	0.00	104.00	104.40	103.10	:	104.80
20	79.70	0.00	-999.00	-999.00	72.30	0.00	103.10	102.80	153.20	0.00	104.00	104.40	103.30	:	104.80
21	80.90	0.00	-999.00	-999.00	72.60	0.00	103.10	102.70	152.10	0.00	103.90	104.70	103.30	:	104.80
22	72.50	0.00	-999.00	-999.00	72.70	0.00	102.90	102.60	120.70	0.00	103.70	104.70	103.30	:	104.70
23	56.10	0.00	-999.00	-999.00	72.10	0.00	103.10	102.70	91.70	0.00	103.80	104.80	103.40	:	104.60
24	42.70	0.00	-999.00	-999.00	55.90	0.00	103.20	102.70	94.40	0.00	103.80	104.80	103.40	:	104.30

15 MAR 2003

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

15 MAR 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT.	FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT.		
		KCFS		%SAT	%SAT	%SAT		KCFS	FB	TAILW.		KCFS		FB	TAILW.
1	1.50	0.00	-999.00	-999.00	-999.00	-999.00	41.10	0.00	-999.00	-999.00	42.40	0.00	-999.00	-999.00	
2	1.50	0.00	-999.00	-999.00	-999.00	-999.00	47.60	0.00	-999.00	-999.00	41.80	0.00	-999.00	-999.00	
3	1.50	0.00	-999.00	-999.00	-999.00	-999.00	54.70	0.00	-999.00	-999.00	48.40	0.00	-999.00	-999.00	
4	1.50	0.00	-999.00	-999.00	-999.00	-999.00	55.00	0.00	-999.00	-999.00	49.00	0.00	-999.00	-999.00	
5	1.50	0.00	-999.00	-999.00	-999.00	-999.00	62.00	0.00	-999.00	-999.00	59.20	0.00	-999.00	-999.00	
6	1.50	0.00	-999.00	-999.00	-999.00	-999.00	61.80	0.00	-999.00	-999.00	63.60	0.00	-999.00	-999.00	
7	1.50	0.00	-999.00	-999.00	-999.00	-999.00	67.90	0.00	-999.00	-999.00	69.40	0.00	-999.00	-999.00	
8	1.50	0.00	-999.00	-999.00	-999.00	-999.00	68.50	0.00	-999.00	-999.00	70.00	0.00	-999.00	-999.00	
9	1.50	0.00	-999.00	-999.00	-999.00	-999.00	68.60	0.00	-999.00	-999.00	70.00	0.00	-999.00	-999.00	
10	1.50	0.00	-999.00	-999.00	-999.00	-999.00	69.80	0.00	-999.00	-999.00	71.30	0.00	-999.00	-999.00	
11	1.50	0.00	-999.00	-999.00	-999.00	-999.00	68.40	0.00	-999.00	-999.00	69.40	0.00	-999.00	-999.00	
12	1.50	0.00	-999.00	-999.00	-999.00	-999.00	68.80	0.00	-999.00	-999.00	70.20	0.00	-999.00	-999.00	
13	1.50	0.00	-999.00	-999.00	-999.00	-999.00	68.60	0.00	-999.00	-999.00	70.10	0.00	-999.00	-999.00	
14	1.50	0.00	-999.00	-999.00	-999.00	-999.00	62.00	0.00	-999.00	-999.00	63.50	0.00	-999.00	-999.00	
15	1.50	0.00	-999.00	-999.00	-999.00	-999.00	61.50	0.00	-999.00	-999.00	62.10	0.00	-999.00	-999.00	
16	1.50	0.00	-999.00	-999.00	-999.00	-999.00	60.50	0.00	-999.00	-999.00	62.20	0.00	-999.00	-999.00	
17	1.50	0.00	-999.00	-999.00	-999.00	-999.00	60.60	0.00	-999.00	-999.00	62.20	0.00	-999.00	-999.00	
18	1.50	0.00	-999.00	-999.00	-999.00	-999.00	60.30	0.00	-999.00	-999.00	63.30	0.00	-999.00	-999.00	
19	1.50	0.00	-999.00	-999.00	-999.00	-999.00	59.90	0.00	-999.00	-999.00	62.00	0.00	-999.00	-999.00	
20	1.50	0.00	-999.00	-999.00	-999.00	-999.00	60.80	0.00	-999.00	-999.00	61.80	0.00	-999.00	-999.00	
21	1.50	0.00	-999.00	-999.00	-999.00	-999.00	59.20	0.00	-999.00	-999.00	61.30	0.00	-999.00	-999.00	
22	1.50	0.00	-999.00	-999.00	-999.00	-999.00	51.50	0.00	-999.00	-999.00	37.00	0.00	-999.00	-999.00	
23	1.50	0.00	-999.00	-999.00	-999.00	-999.00	35.20	0.00	-999.00	-999.00	33.90	0.00	-999.00	-999.00	
24	1.50	0.00	-999.00	-999.00	-999.00	-999.00	33.00	0.00	-999.00	-999.00	33.40	0.00	-999.00	-999.00	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. OR FB	WA FB	TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT.	
		KCFS			KCFS			KCFS		FB			KCFS		SAT
1	44.00	0.00	-999.00	-999.00	41.10	0.00	-999.00	-999.00	0.00	-999.00	-999.00	103.90	0.00	-999.00	-999.00
2	45.20	0.00	-999.00	-999.00	40.30	0.00	-999.00	-999.00	0.00	-999.00	-999.00	100.90	0.00	-999.00	-999.00
3	44.60	0.00	-999.00	-999.00	40.30	0.00	-999.00	-999.00	0.00	-999.00	-999.00	100.70	0.00	-999.00	-999.00
4	44.80	0.00	-999.00	-999.00	40.60	0.00	-999.00	-999.00	0.00	-999.00	-999.00	100.60	0.00	-999.00	-999.00
5	54.80	0.00	-999.00	-999.00	43.60	0.00	-999.00	-999.00	0.00	-999.00	-999.00	104.60	0.00	-999.00	-999.00
6	61.30	0.00	-999.00	-999.00	53.40	0.00	-999.00	-999.00	0.00	-999.00	-999.00	118.60	0.00	-999.00	-999.00
7	72.30	0.00	-999.00	-999.00	61.90	0.00	-999.00	-999.00	0.00	-999.00	-999.00	132.60	0.00	-999.00	-999.00
8	72.20	0.00	-999.00	-999.00	72.00	0.00	-999.00	-999.00	0.00	-999.00	-999.00	152.30	0.00	-999.00	-999.00
9	74.00	0.00	-999.00	-999.00	72.70	0.00	-999.00	-999.00	0.00	-999.00	-999.00	154.10	0.00	-999.00	-999.00
10	72.80	0.00	-999.00	-999.00	72.70	0.00	-999.00	-999.00	0.00	-999.00	-999.00	153.00	0.00	-999.00	-999.00
11	72.50	0.00	-999.00	-999.00	72.70	0.00	-999.00	-999.00	0.00	-999.00	-999.00	152.80	0.00	-999.00	-999.00
12	72.30	0.00	-999.00	-999.00	72.90	0.00	-999.00	-999.00	0.00	-999.00	-999.00	152.70	0.00	-999.00	-999.00
13	72.30	0.00	-999.00	-999.00	74.10	0.00	-999.00	-999.00	0.00	-999.00	-999.00	152.80	0.00	-999.00	-999.00
14	73.80	0.00	-999.00	-999.00	72.80	0.00	-999.00	-999.00	0.00	-999.00	-999.00	156.70	0.00	-999.00	-999.00
15	74.10	0.00	-999.00	-999.00	72.20	0.00	-999.00	-999.00	0.00	-999.00	-999.00	156.90	0.00	-999.00	-999.00
16	65.20	0.00	-999.00	-999.00	64.60	0.00	-999.00	-999.00	0.00	-999.00	-999.00	157.00	0.00	-999.00	-999.00
17	64.70	0.00	-999.00	-999.00	63.90	0.00	-999.00	-999.00	0.00	-999.00	-999.00	157.40	0.00	-999.00	-999.00
18	64.60	0.00	-999.00	-999.00	65.20	0.00	-999.00	-999.00	0.00	-999.00	-999.00	161.90	0.00	-999.00	-999.00
19	65.00	0.00	-999.00	-999.00	64.00	0.00	-999.00	-999.00	0.00	-999.00	-999.00	158.60	0.00	-999.00	-999.00
20	64.70	0.00	-999.00	-999.00	63.90	0.00	-999.00	-999.00	0.00	-999.00	-999.00	156.70	0.00	-999.00	-999.00
21	65.30	0.00	-999.00	-999.00	62.30	0.00	-999.00	-999.00	0.00	-999.00	-999.00	152.50	0.00	-999.00	-999.00
22	52.30	0.00	-999.00	-999.00	51.80	0.00	-999.00	-999.00	0.00	-999.00	-999.00	113.50	0.00	-999.00	-999.00
23	51.00	0.00	-999.00	-999.00	46.00	0.00	-999.00	-999.00	0.00	-999.00	-999.00	111.60	0.00	-999.00	-999.00
24	36.40	0.00	-999.00	-999.00	46.60	0.00	-999.00	-999.00	0.00	-999.00	-999.00	104.70	0.00	-999.00	-999.00

16 MAR 2003

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

16 MAR 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT FB TAILW.			
1	1.50	0.00	-999.00	-999.00	-999.00	-999.00	36.10	0.00	-999.00	-999.00	33.30	0.00	-999.00	-999.00	-999.00
2	1.50	0.00	-999.00	-999.00	-999.00	-999.00	35.90	0.00	-999.00	-999.00	33.30	0.00	-999.00	-999.00	-999.00
3	1.50	0.00	-999.00	-999.00	-999.00	-999.00	46.50	0.00	-999.00	-999.00	34.40	0.00	-999.00	-999.00	-999.00
4	1.50	0.00	-999.00	-999.00	-999.00	-999.00	60.60	0.00	-999.00	-999.00	49.80	0.00	-999.00	-999.00	-999.00
5	1.50	0.00	-999.00	-999.00	-999.00	-999.00	67.00	0.00	-999.00	-999.00	62.20	0.00	-999.00	-999.00	-999.00
6	1.50	0.00	-999.00	-999.00	-999.00	-999.00	68.60	0.00	-999.00	-999.00	72.70	0.00	-999.00	-999.00	-999.00
7	1.50	0.00	-999.00	-999.00	-999.00	-999.00	68.80	0.00	-999.00	-999.00	72.90	0.00	-999.00	-999.00	-999.00
8	1.50	0.00	-999.00	-999.00	-999.00	-999.00	68.60	0.00	-999.00	-999.00	74.70	0.00	-999.00	-999.00	-999.00
9	1.50	0.00	-999.00	-999.00	-999.00	-999.00	68.70	0.00	-999.00	-999.00	73.00	0.00	-999.00	-999.00	-999.00
10	1.50	0.00	-999.00	-999.00	-999.00	-999.00	70.00	0.00	-999.00	-999.00	70.20	0.00	-999.00	-999.00	-999.00
11	1.50	0.00	-999.00	-999.00	-999.00	-999.00	68.70	0.00	-999.00	-999.00	70.00	0.00	-999.00	-999.00	-999.00
12	1.50	0.00	-999.00	-999.00	-999.00	-999.00	65.50	0.00	-999.00	-999.00	71.40	0.00	-999.00	-999.00	-999.00
13	1.50	0.00	-999.00	-999.00	-999.00	-999.00	65.20	0.00	-999.00	-999.00	70.10	0.00	-999.00	-999.00	-999.00
14	1.50	0.00	-999.00	-999.00	-999.00	-999.00	65.20	0.00	-999.00	-999.00	70.20	0.00	-999.00	-999.00	-999.00
15	1.50	0.00	-999.00	-999.00	-999.00	-999.00	66.30	0.00	-999.00	-999.00	70.10	0.00	-999.00	-999.00	-999.00
16	1.50	0.00	-999.00	-999.00	-999.00	-999.00	63.10	0.00	-999.00	-999.00	71.50	0.00	-999.00	-999.00	-999.00
17	1.50	0.00	-999.00	-999.00	-999.00	-999.00	63.10	0.00	-999.00	-999.00	70.20	0.00	-999.00	-999.00	-999.00
18	1.50	0.00	-999.00	-999.00	-999.00	-999.00	65.10	0.00	-999.00	-999.00	70.20	0.00	-999.00	-999.00	-999.00
19	1.50	0.00	-999.00	-999.00	-999.00	-999.00	65.10	0.00	-999.00	-999.00	70.20	0.00	-999.00	-999.00	-999.00
20	1.50	0.00	-999.00	-999.00	-999.00	-999.00	66.80	0.00	-999.00	-999.00	71.10	0.00	-999.00	-999.00	-999.00
21	1.50	0.00	-999.00	-999.00	-999.00	-999.00	65.50	0.00	-999.00	-999.00	69.90	0.00	-999.00	-999.00	-999.00
22	1.50	0.00	-999.00	-999.00	-999.00	-999.00	49.40	0.00	-999.00	-999.00	69.40	0.00	-999.00	-999.00	-999.00
23	1.50	0.00	-999.00	-999.00	-999.00	-999.00	48.40	0.00	-999.00	-999.00	41.10	0.00	-999.00	-999.00	-999.00
24	1.50	0.00	-999.00	-999.00	-999.00	-999.00	49.10	0.00	-999.00	-999.00	39.40	0.00	-999.00	-999.00	-999.00

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. OR FB	WA TAILW. FB	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT.		
1	35.80	0.00	-999.00	36.20	0.00	-999.00	99.60	0.00	-999.00	-999.00	-999.00	0.00	-999.00	-999.00	-999.00
2	35.70	0.00	-999.00	34.40	0.00	-999.00	104.30	0.00	-999.00	-999.00	-999.00	0.00	-999.00	-999.00	-999.00
3	36.00	0.00	-999.00	29.80	0.00	-999.00	104.30	0.00	-999.00	-999.00	-999.00	0.00	-999.00	-999.00	-999.00
4	36.00	0.00	-999.00	29.60	0.00	-999.00	105.40	0.00	-999.00	-999.00	-999.00	0.00	-999.00	-999.00	-999.00
5	48.90	0.00	-999.00	30.30	0.00	-999.00	103.10	0.00	-999.00	-999.00	-999.00	0.00	-999.00	-999.00	-999.00
6	68.00	0.00	-999.00	47.70	0.00	-999.00	105.00	0.00	-999.00	-999.00	-999.00	0.00	-999.00	-999.00	-999.00
7	75.80	0.00	-999.00	64.50	0.00	-999.00	109.90	0.00	-999.00	-999.00	-999.00	0.00	-999.00	-999.00	-999.00
8	81.20	0.00	-999.00	72.00	0.00	-999.00	154.40	0.00	-999.00	-999.00	-999.00	0.00	-999.00	-999.00	-999.00
9	83.00	0.00	-999.00	71.20	0.00	-999.00	160.50	0.00	-999.00	-999.00	-999.00	0.00	-999.00	-999.00	-999.00
10	81.60	0.00	-999.00	71.20	0.00	-999.00	158.50	0.00	-999.00	-999.00	-999.00	0.00	-999.00	-999.00	-999.00
11	81.90	0.00	-999.00	71.10	0.00	-999.00	152.70	0.00	-999.00	-999.00	-999.00	0.00	-999.00	-999.00	-999.00
12	76.20	0.00	-999.00	71.00	0.00	-999.00	143.00	0.00	-999.00	-999.00	-999.00	0.00	-999.00	-999.00	-999.00
13	76.00	0.00	-999.00	82.50	0.00	-999.00	141.70	0.00	-999.00	-999.00	-999.00	0.00	-999.00	-999.00	-999.00
14	75.60	0.00	-999.00	71.00	0.00	-999.00	142.60	0.00	-999.00	-999.00	-999.00	0.00	-999.00	-999.00	-999.00
15	77.50	0.00	-999.00	71.00	0.00	-999.00	143.00	0.00	-999.00	-999.00	-999.00	0.00	-999.00	-999.00	-999.00
16	75.90	0.00	-999.00	71.00	0.00	-999.00	143.10	0.00	-999.00	-999.00	-999.00	0.00	-999.00	-999.00	-999.00
17	76.00	0.00	-999.00	71.10	0.00	-999.00	152.20	0.00	-999.00	-999.00	-999.00	0.00	-999.00	-999.00	-999.00
18	75.80	0.00	-999.00	72.30	0.00	-999.00	155.80	0.00	-999.00	-999.00	-999.00	0.00	-999.00	-999.00	-999.00
19	75.80	0.00	-999.00	71.00	0.00	-999.00	157.00	0.00	-999.00	-999.00	-999.00	0.00	-999.00	-999.00	-999.00
20	77.70	0.00	-999.00	70.90	0.00	-999.00	154.40	0.00	-999.00	-999.00	-999.00	0.00	-999.00	-999.00	-999.00
21	76.00	0.00	-999.00	70.90	0.00	-999.00	153.20	0.00	-999.00	-999.00	-999.00	0.00	-999.00	-999.00	-999.00
22	75.40	0.00	-999.00	70.50	0.00	-999.00	133.00	0.00	-999.00	-999.00	-999.00	0.00	-999.00	-999.00	-999.00
23	65.80	0.00	-999.00	61.00	0.00	-999.00	128.70	0.00	-999.00	-999.00	-999.00	0.00	-999.00	-999.00	-999.00
24	44.90	0.00	-999.00	60.90	0.00	-999.00	126.30	0.00	-999.00	-999.00	-999.00	0.00	-999.00	-999.00	-999.00

17 MAR 2003

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

17 MAR 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	LOWER GRANITE	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.		
1	1.50	0.00	107.70	-999.00	-999.00	-999.00	48.20	0.00	100.60	100.50	30.90	0.00	-999.00	-999.00	
2	1.50	0.00	107.70	-999.00	-999.00	-999.00	47.80	0.00	100.70	100.40	39.20	0.00	-999.00	-999.00	
3	1.50	0.00	107.60	-999.00	-999.00	-999.00	47.70	0.00	100.40	100.30	37.10	0.00	-999.00	-999.00	
4	1.50	0.00	107.50	-999.00	-999.00	-999.00	48.00	0.00	100.40	100.20	46.80	0.00	-999.00	-999.00	
5	1.50	0.00	107.40	-999.00	-999.00	-999.00	48.80	0.00	100.30	100.00	48.60	0.00	-999.00	-999.00	
6	1.50	0.00	107.30	-999.00	-999.00	-999.00	49.00	0.00	100.00	99.90	48.30	0.00	-999.00	-999.00	
7	1.50	0.00	107.30	-999.00	-999.00	-999.00	70.30	0.00	99.90	99.80	69.40	0.00	-999.00	-999.00	
8	1.50	0.00	107.50	-999.00	-999.00	-999.00	71.40	0.00	99.70	99.80	70.10	0.00	-999.00	-999.00	
9	1.50	0.00	107.60	-999.00	-999.00	-999.00	67.10	0.00	99.70	99.70	70.10	0.00	-999.00	-999.00	
10	1.50	0.00	108.00	-999.00	-999.00	-999.00	66.00	0.00	99.60	99.60	71.50	0.00	-999.00	-999.00	
11	1.50	0.00	108.60	-999.00	-999.00	-999.00	66.20	0.00	99.70	99.60	70.50	0.00	-999.00	-999.00	
12	1.50	0.00	108.80	-999.00	-999.00	-999.00	63.10	0.00	99.70	99.60	70.30	0.00	-999.00	-999.00	
13	1.50	0.00	108.80	-999.00	-999.00	-999.00	63.70	0.00	99.50	99.60	70.30	0.00	-999.00	-999.00	
14	1.50	0.00	108.40	-999.00	-999.00	-999.00	71.60	0.00	99.70	99.60	71.50	0.00	-999.00	-999.00	
15	1.50	0.00	108.10	-999.00	-999.00	-999.00	73.10	0.00	99.70	99.40	69.90	0.00	-999.00	-999.00	
16	1.50	0.00	108.10	-999.00	-999.00	-999.00	66.50	0.00	99.50	99.50	70.00	0.00	-999.00	-999.00	
17	1.50	0.00	107.60	-999.00	-999.00	-999.00	66.00	0.00	99.50	99.30	69.60	0.00	-999.00	-999.00	
18	1.50	0.00	107.00	-999.00	-999.00	-999.00	55.40	0.00	99.40	99.30	64.00	0.00	-999.00	-999.00	
19	1.50	0.00	106.30	-999.00	-999.00	-999.00	54.80	0.00	99.20	99.20	57.30	0.00	-999.00	-999.00	
20	1.50	0.00	106.00	-999.00	-999.00	-999.00	54.90	0.00	99.10	99.10	63.80	0.00	-999.00	-999.00	
21	1.50	0.00	105.90	-999.00	-999.00	-999.00	55.80	0.00	99.20	99.10	64.10	0.00	-999.00	-999.00	
22	1.50	0.00	105.80	-999.00	-999.00	-999.00	47.60	0.00	99.10	99.00	63.00	0.00	-999.00	-999.00	
23	1.50	0.00	105.70	-999.00	-999.00	-999.00	33.00	0.00	99.20	99.00	36.40	0.00	-999.00	-999.00	
24	1.50	0.00	105.70	-999.00	-999.00	-999.00	30.20	0.00	99.20	99.10	33.50	0.00	-999.00	-999.00	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB	WA TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB	GAS %SAT	
1	44.20	0.00	-999.00	-999.00	48.90	0.00	101.90	101.50	125.10	0.00	102.10	102.70	101.60	102.30	
2	43.50	0.00	-999.00	-999.00	53.60	0.00	101.70	101.50	132.80	0.00	101.90	102.60	101.60	102.10	
3	40.20	0.00	-999.00	-999.00	50.80	0.00	101.60	101.20	147.50	0.00	101.70	102.70	101.50	102.00	
4	40.10	0.00	-999.00	-999.00	54.00	0.00	101.60	101.20	149.40	0.00	101.60	102.70	101.50	101.80	
5	39.90	0.00	-999.00	-999.00	55.60	0.00	101.50	101.10	157.60	0.00	101.50	102.50	101.40	101.70	
6	42.30	0.00	-999.00	-999.00	61.00	0.00	101.40	101.00	160.10	0.00	101.30	102.60	101.30	101.60	
7	64.50	0.00	-999.00	-999.00	65.20	0.00	101.30	100.90	158.80	0.00	101.20	102.30	101.20	101.40	
8	73.70	0.00	-999.00	-999.00	68.90	0.00	101.20	101.00	159.20	0.00	101.10	102.20	101.20	101.40	
9	79.50	0.00	-999.00	-999.00	72.00	0.00	101.10	101.00	159.00	0.00	101.00	102.20	101.20	101.30	
10	80.20	0.00	-999.00	-999.00	72.30	0.00	101.20	101.10	160.20	0.00	100.90	102.10	101.10	101.60	
11	81.70	0.00	-999.00	-999.00	67.80	0.00	101.10	101.20	160.00	0.00	100.80	102.20	101.20	101.80	
12	80.30	0.00	-999.00	-999.00	65.70	0.00	101.20	101.40	159.20	0.00	101.10	102.40	101.30	102.20	
13	80.40	0.00	-999.00	-999.00	71.70	0.00	101.30	101.50	147.80	0.00	101.80	102.20	101.30	102.50	
14	84.80	0.00	-999.00	-999.00	72.40	0.00	101.30	101.60	147.80	0.00	102.70	102.10	101.30	102.70	
15	84.80	0.00	-999.00	-999.00	72.20	0.00	101.30	101.50	146.40	0.00	103.60	102.20	101.30	103.10	
16	86.60	0.00	-999.00	-999.00	80.80	0.00	101.30	101.40	145.90	0.00	103.60	102.10	101.20	103.30	
17	85.40	0.00	-999.00	-999.00	82.40	0.00	101.30	101.40	146.40	0.00	103.80	102.10	101.30	103.50	
18	73.80	0.00	-999.00	-999.00	64.10	0.00	101.60	101.20	159.50	0.00	104.20	102.00	101.20	103.50	
19	64.70	0.00	-999.00	-999.00	55.20	0.00	101.50	101.10	159.50	0.00	103.70	101.80	101.10	103.30	
20	64.30	0.00	-999.00	-999.00	58.30	0.00	101.30	101.10	159.70	0.00	102.80	101.60	101.00	103.00	
21	64.90	0.00	-999.00	-999.00	58.50	0.00	101.20	101.00	160.00	0.00	102.20	101.50	100.90	102.60	
22	62.80	0.00	-999.00	-999.00	58.20	0.00	101.20	100.90	159.80	0.00	101.90	101.30	100.80	102.30	
23	35.80	0.00	-999.00	-999.00	41.50	0.00	101.10	100.90	159.90	0.00	101.70	101.40	100.80	102.00	
24	39.10	0.00	-999.00	-999.00	31.10	0.00	100.90	100.80	158.70	0.00	101.40	101.50	100.80	101.80	

18 MAR 2003

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

18 MAR 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	LOWER GRANITE	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.		
1	1.50	0.00	105.80	-999.00	-999.00	-999.00	36.80	0.00	99.10	98.90	33.80	0.00	-999.00	-999.00	
2	1.50	0.00	105.70	-999.00	-999.00	-999.00	44.30	0.00	98.90	104.30	33.40	0.00	-999.00	-999.00	
3	1.50	0.00	105.70	-999.00	-999.00	-999.00	54.10	0.00	99.10	99.90	34.20	0.00	-999.00	-999.00	
4	1.50	0.00	105.70	-999.00	-999.00	-999.00	57.50	0.00	98.70	99.20	37.80	0.00	-999.00	-999.00	
5	1.50	0.00	105.60	-999.00	-999.00	-999.00	62.00	0.00	98.50	99.10	48.80	0.00	-999.00	-999.00	
6	1.50	0.00	105.40	-999.00	-999.00	-999.00	64.10	0.00	98.50	98.60	63.30	0.00	-999.00	-999.00	
7	1.50	0.00	105.50	-999.00	-999.00	-999.00	71.00	0.00	98.40	98.60	64.30	0.00	-999.00	-999.00	
8	1.50	0.00	105.80	-999.00	-999.00	-999.00	65.80	0.00	98.30	98.60	70.70	0.00	-999.00	-999.00	
9	1.50	0.00	106.00	-999.00	-999.00	-999.00	61.70	0.00	98.50	98.40	70.30	0.00	-999.00	-999.00	
10	1.50	0.00	105.80	-999.00	-999.00	-999.00	62.50	0.00	98.70	98.50	70.30	0.00	-999.00	-999.00	
11	1.50	0.00	105.90	-999.00	-999.00	-999.00	61.30	0.00	99.10	98.60	70.20	0.00	-999.00	-999.00	
12	1.50	0.00	106.40	-999.00	-999.00	-999.00	61.30	0.00	99.70	98.90	71.50	0.00	-999.00	-999.00	
13	1.50	0.00	107.10	-999.00	-999.00	-999.00	61.40	0.00	100.20	98.90	70.20	0.00	-999.00	-999.00	
14	1.50	0.00	107.10	-999.00	-999.00	-999.00	61.30	0.00	100.10	99.00	70.10	0.00	-999.00	-999.00	
15	1.50	0.00	106.90	-999.00	-999.00	-999.00	61.20	0.00	99.20	99.10	66.60	0.00	-999.00	-999.00	
16	1.50	0.00	106.70	-999.00	-999.00	-999.00	59.00	0.00	100.50	99.10	67.50	0.00	-999.00	-999.00	
17	1.50	0.00	106.00	-999.00	-999.00	-999.00	58.00	0.00	100.40	99.30	63.20	0.00	-999.00	-999.00	
18	1.50	0.00	105.10	-999.00	-999.00	-999.00	57.90	0.00	99.70	99.00	63.10	0.00	-999.00	-999.00	
19	1.50	0.00	104.70	-999.00	-999.00	-999.00	58.20	0.00	101.10	98.90	63.10	0.00	-999.00	-999.00	
20	1.50	0.00	104.30	-999.00	-999.00	-999.00	64.10	0.00	101.60	98.90	67.40	0.00	-999.00	-999.00	
21	1.50	0.00	104.00	-999.00	-999.00	-999.00	65.30	0.00	99.60	98.90	68.60	0.00	-999.00	-999.00	
22	1.50	0.00	104.00	-999.00	-999.00	-999.00	63.10	0.00	99.70	99.00	66.40	0.00	-999.00	-999.00	
23	1.50	0.00	104.10	-999.00	-999.00	-999.00	34.20	0.00	99.80	99.30	36.20	0.00	-999.00	-999.00	
24	1.50	0.00	104.10	-999.00	-999.00	-999.00	29.20	0.00	99.50	99.00	28.90	0.00	-999.00	-999.00	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB	WA TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB	GAS %SAT	
1	39.50	0.00	-999.00	-999.00	30.40	0.00	101.00	100.80	161.50	0.00	101.00	101.40	100.70	101.60	
2	39.70	0.00	-999.00	-999.00	30.60	0.00	100.90	100.90	163.80	0.00	100.90	101.50	100.70	101.40	
3	39.50	0.00	-999.00	-999.00	38.30	0.00	100.80	101.00	164.30	0.00	100.70	101.50	100.70	101.40	
4	42.10	0.00	-999.00	-999.00	38.80	0.00	100.80	100.90	159.80	0.00	100.60	101.70	100.70	101.30	
5	43.00	0.00	-999.00	-999.00	39.80	0.00	100.80	100.80	160.40	0.00	100.50	101.40	100.60	101.10	
6	54.60	0.00	-999.00	-999.00	53.70	0.00	100.70	100.70	160.60	0.00	100.20	101.40	100.50	101.00	
7	70.80	0.00	-999.00	-999.00	69.10	0.00	100.60	100.70	143.60	0.00	100.20	101.40	100.50	100.80	
8	75.80	0.00	-999.00	-999.00	75.80	0.00	100.70	100.70	141.20	0.00	100.20	101.40	100.50	100.90	
9	76.30	0.00	-999.00	-999.00	76.00	0.00	100.80	100.80	141.20	0.00	100.20	101.60	100.50	101.00	
10	76.10	0.00	-999.00	-999.00	73.30	0.00	101.00	100.90	141.40	0.00	100.40	101.80	100.50	101.10	
11	76.30	0.00	-999.00	-999.00	72.80	0.00	101.20	101.20	141.10	0.00	100.90	101.60	100.60	101.50	
12	77.60	0.00	-999.00	-999.00	73.80	0.00	101.20	101.20	140.90	0.00	101.20	101.70	100.70	101.90	
13	76.30	0.00	-999.00	-999.00	83.10	0.00	101.40	101.40	141.10	0.00	101.80	101.60	100.80	102.30	
14	76.10	0.00	-999.00	-999.00	83.60	0.00	101.60	101.50	140.50	0.00	101.80	101.50	100.90	102.70	
15	76.20	0.00	-999.00	-999.00	72.60	0.00	101.60	101.50	140.20	0.00	102.40	101.60	101.00	103.10	
16	76.20	0.00	-999.00	-999.00	72.40	0.00	101.60	101.40	140.00	0.00	102.50	101.90	101.00	103.30	
17	74.00	0.00	-999.00	-999.00	69.30	0.00	101.60	101.40	141.20	0.00	102.60	101.80	100.90	103.30	
18	72.50	0.00	-999.00	-999.00	70.10	0.00	102.00	101.50	150.80	0.00	102.90	101.60	100.90	103.30	
19	69.20	0.00	-999.00	-999.00	66.00	0.00	102.00	101.40	154.80	0.00	103.00	101.30	100.90	103.20	
20	76.00	0.00	-999.00	-999.00	71.80	0.00	101.70	101.50	156.90	0.00	103.20	101.30	100.80	103.00	
21	76.30	0.00	-999.00	-999.00	72.20	0.00	101.50	101.40	156.60	0.00	102.20	101.20	101.00	102.70	
22	77.20	0.00	-999.00	-999.00	72.00	0.00	101.50	101.20	155.70	0.00	101.80	101.10	100.90	102.30	
23	64.40	0.00	-999.00	-999.00	66.20	0.00	101.50	101.20	156.60	0.00	101.50	101.00	101.10	102.10	
24	36.80	0.00	-999.00	-999.00	50.80	0.00	101.30	101.20	156.70	0.00	101.30	100.90	101.20	101.90	

19 MAR 2003

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

19 MAR 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.			
1	1.50	0.00	104.00	-999.00	-999.00	-999.00	35.60	0.00	99.60	98.80	37.00	0.00	-999.00	-999.00	
2	1.50	0.00	104.10	-999.00	-999.00	-999.00	36.80	0.00	99.50	98.90	33.50	0.00	-999.00	-999.00	
3	1.50	0.00	104.20	-999.00	-999.00	-999.00	37.10	0.00	99.40	98.90	34.30	0.00	-999.00	-999.00	
4	1.50	0.00	104.10	-999.00	-999.00	-999.00	57.00	0.00	99.00	98.90	39.70	0.00	-999.00	-999.00	
5	1.50	0.00	104.10	-999.00	-999.00	-999.00	67.00	0.00	99.30	98.90	56.90	0.00	-999.00	-999.00	
6	1.50	0.00	104.10	-999.00	-999.00	-999.00	69.50	0.00	99.20	98.90	69.50	0.00	-999.00	-999.00	
7	1.50	0.00	104.10	-999.00	-999.00	-999.00	71.20	0.00	98.70	99.10	72.80	0.00	-999.00	-999.00	
8	1.50	0.00	104.30	-999.00	-999.00	-999.00	63.90	0.00	98.70	98.90	72.70	0.00	-999.00	-999.00	
9	1.50	0.00	104.70	-999.00	-999.00	-999.00	63.20	0.00	98.90	98.90	63.10	0.00	-999.00	-999.00	
10	1.50	0.00	105.40	-999.00	-999.00	-999.00	63.30	0.00	99.00	99.00	63.20	0.00	-999.00	-999.00	
11	1.50	0.00	106.20	-999.00	-999.00	-999.00	57.80	0.00	99.30	99.10	56.20	0.00	-999.00	-999.00	
12	1.50	0.00	107.00	-999.00	-999.00	-999.00	58.80	0.00	99.50	99.40	56.10	0.00	-999.00	-999.00	
13	1.50	0.00	107.30	-999.00	-999.00	-999.00	58.30	0.00	100.00	99.80	55.90	0.00	-999.00	-999.00	
14	1.50	0.00	107.50	-999.00	-999.00	-999.00	57.90	0.00	100.20	99.90	56.50	0.00	-999.00	-999.00	
15	1.50	0.00	107.50	-999.00	-999.00	-999.00	58.20	0.00	100.40	100.10	55.30	0.00	-999.00	-999.00	
16	1.80	0.00	107.20	-999.00	-999.00	-999.00	58.20	0.00	100.40	100.30	56.00	0.00	-999.00	-999.00	
17	4.40	0.00	107.50	-999.00	-999.00	-999.00	58.20	0.00	100.70	100.40	63.20	0.00	-999.00	-999.00	
18	2.20	0.00	108.30	-999.00	-999.00	-999.00	59.10	0.00	100.60	100.50	61.70	0.00	-999.00	-999.00	
19	3.00	0.00	108.00	-999.00	-999.00	-999.00	58.40	0.00	100.70	100.60	64.90	0.00	-999.00	-999.00	
20	3.70	0.00	104.10	-999.00	-999.00	-999.00	61.00	0.00	100.80	100.50	66.50	0.00	-999.00	-999.00	
21	3.70	0.00	100.90	-999.00	-999.00	-999.00	61.00	0.00	100.80	100.60	66.30	0.00	-999.00	-999.00	
22	3.70	0.00	100.90	-999.00	-999.00	-999.00	52.80	0.00	100.90	100.50	62.80	0.00	-999.00	-999.00	
23	3.60	0.00	100.70	-999.00	-999.00	-999.00	37.40	0.00	100.70	100.50	43.40	0.00	-999.00	-999.00	
24	3.30	0.00	100.30	-999.00	-999.00	-999.00	27.40	0.00	100.80	100.40	30.00	0.00	-999.00	-999.00	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL OR KCFS	GAS %SAT. WA FB	TAILW.	GAS %SAT	
1	41.20	0.00	-999.00	-999.00	43.50	0.00	101.30	101.20	157.50	0.00	101.20	102.00	101.20	101.80	
2	41.30	0.00	-999.00	-999.00	39.90	0.00	101.40	101.30	158.10	0.00	101.20	101.90	101.30	101.70	
3	41.80	0.00	-999.00	-999.00	35.70	0.00	101.40	101.30	159.10	0.00	101.00	101.40	101.40	101.70	
4	41.30	0.00	-999.00	-999.00	34.50	0.00	101.40	101.30	158.70	0.00	100.80	101.40	101.40	101.60	
5	48.30	0.00	-999.00	-999.00	34.90	0.00	101.30	101.30	159.70	0.00	100.80	101.50	101.40	101.60	
6	62.00	0.00	-999.00	-999.00	46.30	0.00	101.30	101.40	160.20	0.00	100.70	101.50	101.50	101.50	
7	75.60	0.00	-999.00	-999.00	64.00	0.00	101.30	102.30	144.00	0.00	100.70	101.60	101.40	101.30	
8	77.30	0.00	-999.00	-999.00	64.10	0.00	101.50	101.50	141.10	0.00	100.70	101.60	101.50	101.40	
9	75.20	0.00	-999.00	-999.00	64.20	0.00	101.90	101.60	144.00	0.00	100.70	101.80	101.50	101.60	
10	62.60	0.00	-999.00	-999.00	64.30	0.00	102.30	101.80	142.30	1.00	101.00	102.00	101.80	101.80	
11	55.30	0.00	-999.00	-999.00	59.40	0.00	102.60	102.00	143.70	0.80	101.10	102.20	101.80	102.30	
12	54.80	0.00	-999.00	-999.00	60.00	0.00	102.60	102.30	143.10	0.00	101.40	102.30	102.00	102.80	
13	55.70	0.00	-999.00	-999.00	59.10	0.00	104.10	102.60	143.60	0.00	101.60	102.60	102.20	103.30	
14	54.70	0.00	-999.00	-999.00	59.10	0.00	104.80	102.70	163.60	0.00	101.70	103.20	102.30	103.70	
15	54.60	0.00	-999.00	-999.00	59.30	0.00	104.60	102.90	165.50	0.00	102.00	102.80	102.50	104.10	
16	54.90	0.00	-999.00	-999.00	59.20	0.00	104.20	103.10	167.50	0.00	101.90	103.10	102.40	104.50	
17	64.50	0.00	-999.00	-999.00	59.00	0.00	104.00	103.00	169.10	0.00	102.00	103.30	102.50	104.50	
18	75.70	0.00	-999.00	-999.00	63.90	0.00	103.40	103.10	169.10	0.00	102.00	103.30	102.50	104.60	
19	75.60	0.00	-999.00	-999.00	70.30	0.00	102.80	103.00	171.80	0.00	102.00	103.10	102.50	104.50	
20	75.20	0.00	-999.00	-999.00	69.30	0.00	102.70	102.60	172.10	0.00	101.90	103.00	102.40	104.10	
21	75.20	0.00	-999.00	-999.00	69.20	0.00	102.70	102.60	168.30	0.00	101.80	102.80	102.30	103.90	
22	75.50	0.00	-999.00	-999.00	69.50	0.00	102.60	102.40	157.30	0.00	101.60	102.50	102.20	103.60	
23	68.40	0.00	-999.00	-999.00	70.30	0.00	102.50	102.40	157.30	0.00	101.60	102.50	102.20	103.40	
24	34.70	0.00	-999.00	-999.00	54.40	0.00	102.30	102.30	157.80	0.00	101.60	102.20	102.10	103.20	

20 MAR 2003

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

20 MAR 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	LOWER GRANITE	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.		
1	1.50	0.00	100.30	-999.00	-999.00	-999.00	25.70	0.00	100.80	100.30	22.20	0.00	-999.00	-999.00	
2	1.50	0.00	101.20	-999.00	-999.00	-999.00	25.40	0.00	100.80	100.30	22.20	0.00	-999.00	-999.00	
3	1.50	0.00	102.80	-999.00	-999.00	-999.00	26.10	0.00	100.70	100.20	22.20	0.00	-999.00	-999.00	
4	1.50	0.00	103.50	-999.00	-999.00	-999.00	26.30	0.00	100.60	100.10	22.30	0.00	-999.00	-999.00	
5	1.50	0.00	103.70	-999.00	-999.00	-999.00	30.40	0.00	100.50	100.10	26.30	0.00	-999.00	-999.00	
6	1.50	0.00	103.70	-999.00	-999.00	-999.00	36.60	0.00	100.50	99.90	35.00	0.00	-999.00	-999.00	
7	1.50	0.00	103.80	-999.00	-999.00	-999.00	48.70	0.00	100.30	100.00	41.90	0.00	-999.00	-999.00	
8	1.50	0.00	103.90	-999.00	-999.00	-999.00	53.70	0.00	100.30	100.10	55.60	0.00	-999.00	-999.00	
9	1.50	0.00	104.10	-999.00	-999.00	-999.00	62.20	0.00	100.30	100.20	61.70	0.00	-999.00	-999.00	
10	1.50	0.00	104.30	-999.00	-999.00	-999.00	65.20	0.00	100.60	100.10	61.60	0.00	-999.00	-999.00	
11	1.20	0.00	104.90	-999.00	-999.00	-999.00	65.40	0.00	100.80	100.10	65.80	0.00	-999.00	-999.00	
12	0.90	0.00	105.60	-999.00	-999.00	-999.00	65.60	0.00	100.80	100.20	66.40	0.00	-999.00	-999.00	
13	1.50	0.00	106.50	-999.00	-999.00	-999.00	67.00	0.00	100.70	100.10	64.90	0.00	-999.00	-999.00	
14	1.50	0.00	108.40	-999.00	-999.00	-999.00	67.50	0.00	100.50	100.40	64.90	0.00	-999.00	-999.00	
15	1.50	0.00	106.60	-999.00	-999.00	-999.00	66.20	0.00	100.40	100.20	64.90	0.00	-999.00	-999.00	
16	1.90	0.00	105.80	-999.00	-999.00	-999.00	66.90	0.00	100.40	100.40	66.00	0.00	-999.00	-999.00	
17	4.80	0.00	106.00	-999.00	-999.00	-999.00	66.20	0.00	100.20	100.10	64.80	0.00	-999.00	-999.00	
18	6.80	0.00	104.00	-999.00	-999.00	-999.00	62.60	0.00	100.20	100.30	64.70	0.00	-999.00	-999.00	
19	6.90	0.00	98.40	-999.00	-999.00	-999.00	52.30	0.00	100.20	100.20	64.70	0.00	-999.00	-999.00	
20	6.80	0.00	97.60	-999.00	-999.00	-999.00	49.60	0.00	100.40	100.20	65.40	0.00	-999.00	-999.00	
21	6.90	0.00	97.40	-999.00	-999.00	-999.00	29.10	0.00	100.70	100.70	54.70	0.00	-999.00	-999.00	
22	6.80	0.00	97.40	-999.00	-999.00	-999.00	27.80	0.00	100.70	100.30	39.50	0.00	-999.00	-999.00	
23	6.90	0.00	97.40	-999.00	-999.00	-999.00	28.10	0.00	100.80	100.30	26.00	0.00	-999.00	-999.00	
24	4.10	0.00	97.40	-999.00	-999.00	-999.00	28.20	0.00	100.80	100.30	25.80	0.00	-999.00	-999.00	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB	MCNARY	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	PASCO	
1	21.40	0.00	-999.00	-999.00	42.20	0.00	102.30	102.20	161.40	0.00	101.60	102.20	102.10	: 103.00	
2	20.70	0.00	-999.00	-999.00	29.40	0.00	102.30	102.20	158.70	0.00	101.60	102.20	102.10	: 102.90	
3	20.20	0.00	-999.00	-999.00	20.40	0.00	102.30	102.20	158.60	0.00	101.60	102.10	102.10	: 102.90	
4	20.50	0.00	-999.00	-999.00	19.70	0.00	102.20	102.20	159.10	0.00	101.50	102.10	102.00	: 102.70	
5	25.70	0.00	-999.00	-999.00	19.70	0.00	102.10	102.20	158.60	0.00	101.40	101.90	102.00	: 102.60	
6	33.10	0.00	-999.00	-999.00	20.50	0.00	102.10	102.20	158.40	0.00	101.30	101.80	101.90	: 102.40	
7	42.30	0.00	-999.00	-999.00	25.00	0.00	102.00	102.30	156.80	0.00	101.30	101.70	101.80	: 102.30	
8	49.90	0.00	-999.00	-999.00	39.40	0.00	102.10	102.30	158.70	0.00	101.20	101.70	101.70	: 102.10	
9	61.20	0.00	-999.00	-999.00	49.80	0.00	102.00	102.40	159.20	0.00	101.20	101.70	101.70	: 102.20	
10	61.80	0.00	-999.00	-999.00	50.80	0.00	102.30	102.20	159.80	0.00	101.40	101.80	101.60	: 102.40	
11	64.90	0.00	-999.00	-999.00	63.30	0.00	102.40	102.40	158.10	0.00	101.40	101.80	101.80	: 102.70	
12	66.10	0.00	-999.00	-999.00	66.80	0.00	102.40	102.50	156.90	0.00	101.40	102.00	101.80	: 103.00	
13	64.90	0.00	-999.00	-999.00	65.70	0.00	102.40	102.40	144.80	0.00	101.40	101.90	102.00	: 103.40	
14	75.60	0.00	-999.00	-999.00	66.00	0.00	102.40	102.30	144.80	0.00	101.60	101.90	102.00	: 103.80	
15	77.40	0.00	-999.00	-999.00	66.80	0.00	102.20	102.30	155.80	0.00	101.60	102.00	102.00	: 103.90	
16	77.60	0.00	-999.00	-999.00	76.60	0.00	102.40	102.30	159.10	0.00	101.70	102.00	102.00	: 104.00	
17	79.70	0.00	-999.00	-999.00	77.10	0.00	102.40	102.30	157.60	0.00	101.70	101.90	102.10	: 103.80	
18	78.00	0.00	-999.00	-999.00	77.30	0.00	102.20	102.10	151.30	0.00	101.80	101.90	102.10	: 103.80	
19	76.70	0.00	-999.00	-999.00	78.70	0.00	102.20	102.10	151.40	0.00	101.80	101.80	102.10	: 103.40	
20	76.50	0.00	-999.00	-999.00	77.80	0.00	102.10	101.80	151.80	0.00	101.80	101.80	102.00	: 103.10	
21	71.40	0.00	-999.00	-999.00	76.40	0.00	102.00	101.90	151.70	0.00	101.70	101.80	102.00	: 102.80	
22	59.10	0.00	-999.00	-999.00	66.40	0.00	101.90	101.80	151.30	0.00	101.70	101.90	102.10	: 102.70	
23	41.10	0.00	-999.00	-999.00	50.30	0.00	101.90	101.80	151.90	0.00	101.80	101.90	102.10	: 102.40	
24	26.70	0.00	-999.00	-999.00	30.00	0.00	101.90	101.80	152.30	0.00	101.80	101.90	102.10	: 102.30	

21 MAR 2003

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

21 MAR 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	LOWER GRANITE	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.		
1	1.50	0.00	104.30	-999.00	-999.00	-999.00	25.20	0.00	100.80	100.20	25.20	0.00	-999.00	-999.00	
2	1.50	0.00	105.30	-999.00	-999.00	-999.00	20.30	0.00	100.70	100.20	18.40	0.00	-999.00	-999.00	
3	1.50	0.00	105.10	-999.00	-999.00	-999.00	15.60	0.00	100.60	100.20	14.40	0.00	-999.00	-999.00	
4	1.50	0.00	104.70	-999.00	-999.00	-999.00	15.20	0.00	100.60	100.30	15.50	0.00	-999.00	-999.00	
5	1.50	0.00	104.30	-999.00	-999.00	-999.00	18.00	0.00	100.70	100.10	15.90	0.00	-999.00	-999.00	
6	1.50	0.00	104.20	-999.00	-999.00	-999.00	28.10	0.00	100.50	100.30	17.80	0.00	-999.00	-999.00	
7	1.40	0.00	104.20	-999.00	-999.00	-999.00	49.30	0.00	100.50	100.40	30.10	0.00	-999.00	-999.00	
8	1.40	0.00	104.40	-999.00	-999.00	-999.00	50.20	0.00	100.50	100.30	33.60	0.00	-999.00	-999.00	
9	1.50	0.00	105.20	-999.00	-999.00	-999.00	49.90	0.00	100.40	100.50	49.40	0.00	-999.00	-999.00	
10	1.40	0.00	105.70	-999.00	-999.00	-999.00	50.90	0.00	100.50	102.40	49.30	0.00	-999.00	-999.00	
11	1.50	0.00	106.00	-999.00	-999.00	-999.00	44.10	0.00	100.80	100.70	49.10	0.00	-999.00	-999.00	
12	1.40	0.00	106.00	-999.00	-999.00	-999.00	39.60	0.00	100.90	100.70	49.30	0.00	-999.00	-999.00	
13	1.50	0.00	106.10	-999.00	-999.00	-999.00	34.80	0.00	100.80	100.70	50.10	0.00	-999.00	-999.00	
14	1.50	0.00	106.30	-999.00	-999.00	-999.00	34.40	0.00	101.00	100.70	39.90	0.00	-999.00	-999.00	
15	1.50	0.00	105.90	-999.00	-999.00	-999.00	36.50	0.00	101.00	100.80	39.60	0.00	-999.00	-999.00	
16	1.50	0.00	105.40	-999.00	-999.00	-999.00	35.80	0.00	100.80	100.70	39.50	0.00	-999.00	-999.00	
17	1.50	0.00	104.90	-999.00	-999.00	-999.00	39.60	0.00	100.90	100.80	39.90	0.00	-999.00	-999.00	
18	1.50	0.00	104.60	-999.00	-999.00	-999.00	40.10	0.00	100.80	100.70	40.80	0.00	-999.00	-999.00	
19	1.50	0.00	104.60	-999.00	-999.00	-999.00	47.90	0.00	101.10	100.80	48.60	0.00	-999.00	-999.00	
20	1.40	0.00	104.60	-999.00	-999.00	-999.00	51.70	0.00	101.10	100.70	55.90	0.00	-999.00	-999.00	
21	1.40	0.00	104.70	-999.00	-999.00	-999.00	52.90	0.00	101.10	100.80	56.10	0.00	-999.00	-999.00	
22	1.50	0.00	104.70	-999.00	-999.00	-999.00	51.70	0.00	101.20	100.80	56.80	0.00	-999.00	-999.00	
23	1.40	0.00	104.80	-999.00	-999.00	-999.00	41.90	0.00	101.30	100.90	49.00	0.00	-999.00	-999.00	
24	1.50	0.00	104.90	-999.00	-999.00	-999.00	44.30	0.00	101.50	101.10	48.60	0.00	-999.00	-999.00	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB	WA TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB		
1	26.30	0.00	-999.00	-999.00	23.40	0.00	101.80	101.70	147.50	0.00	101.70	101.80	102.20	: 102.10	
2	15.00	0.00	-999.00	-999.00	12.50	0.00	101.70	101.70	134.80	0.00	101.70	102.00	102.30	: 102.00	
3	13.50	0.00	-999.00	-999.00	9.30	0.00	101.80	101.90	113.10	0.00	101.60	102.10	102.30	: 102.00	
4	13.50	0.00	-999.00	-999.00	9.20	0.00	101.80	102.00	113.80	0.00	101.60	101.90	102.30	: 101.90	
5	13.70	0.00	-999.00	-999.00	9.20	0.00	101.80	101.90	110.70	0.00	101.60	102.00	102.30	: 101.90	
6	13.80	0.00	-999.00	-999.00	9.50	0.00	101.70	101.90	111.20	0.00	101.70	102.10	102.30	: 101.90	
7	21.20	0.00	-999.00	-999.00	12.40	0.00	101.70	102.30	124.10	0.00	101.70	102.10	102.50	: 101.90	
8	28.50	0.00	-999.00	-999.00	13.20	0.00	101.70	102.60	125.70	0.00	101.70	102.10	102.40	: 101.90	
9	39.00	0.00	-999.00	-999.00	29.70	0.00	101.80	102.80	129.00	0.00	101.80	102.10	102.40	: 101.90	
10	53.00	0.00	-999.00	-999.00	37.90	0.00	101.90	103.20	129.30	0.00	101.80	102.20	102.50	: 102.00	
11	55.00	0.00	-999.00	-999.00	48.00	0.00	102.00	102.40	129.80	0.00	101.90	102.30	102.50	: 102.20	
12	54.40	0.00	-999.00	-999.00	48.00	0.00	102.00	102.40	129.60	0.00	102.20	102.50	102.60	: 102.60	
13	54.30	0.00	-999.00	-999.00	48.10	0.00	102.10	102.40	129.60	0.00	102.70	102.90	102.80	: 103.00	
14	49.00	0.00	-999.00	-999.00	50.60	0.00	102.50	102.90	129.90	0.00	103.40	102.80	102.90	: 103.40	
15	48.90	0.00	-999.00	-999.00	50.30	0.00	102.60	102.60	128.40	0.00	103.20	103.10	103.10	: 103.70	
16	49.80	0.00	-999.00	-999.00	51.00	0.00	102.60	102.50	125.00	0.00	103.50	103.00	103.10	: 103.90	
17	48.90	0.00	-999.00	-999.00	50.50	0.00	102.80	102.50	124.70	0.00	103.60	104.10	103.30	: 104.00	
18	49.10	0.00	-999.00	-999.00	50.30	0.00	102.70	102.40	125.20	0.00	103.50	104.30	103.30	: 104.00	
19	49.30	0.00	-999.00	-999.00	50.40	0.00	102.70	102.40	129.30	0.00	103.70	103.70	103.30	: 103.80	
20	54.80	0.00	-999.00	-999.00	53.50	0.00	102.80	102.40	129.10	0.00	103.60	103.60	103.20	: 103.70	
21	54.70	0.00	-999.00	-999.00	53.50	0.00	102.70	102.40	128.10	0.00	103.50	104.10	103.20	: 103.60	
22	56.20	0.00	-999.00	-999.00	54.40	0.00	102.70	102.60	128.00	0.00	103.40	103.90	103.40	: 103.60	
23	55.50	0.00	-999.00	-999.00	53.70	0.00	102.70	102.60	120.00	0.00	103.30	103.90	103.40	: 103.30	
24	54.20	0.00	-999.00	-999.00	53.10	0.00	102.80	102.70	117.60	0.00	103.30	103.70	103.60	: 103.30	

22 MAR 2003

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

22 MAR 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	LOWER GRANITE	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.		
1	1.50	0.00	105.10	-999.00	-999.00	-999.00	30.30	0.00	101.70	101.30	30.90	0.00	-999.00	-999.00	
2	1.50	0.00	105.10	-999.00	-999.00	-999.00	29.40	0.00	101.80	101.20	29.30	0.00	-999.00	-999.00	
3	1.50	0.00	104.80	-999.00	-999.00	-999.00	24.90	0.00	101.70	101.30	25.60	0.00	-999.00	-999.00	
4	1.50	0.00	104.70	-999.00	-999.00	-999.00	19.90	0.00	101.90	101.60	20.50	0.00	-999.00	-999.00	
5	1.50	0.00	105.10	-999.00	-999.00	-999.00	19.50	0.00	102.00	101.60	21.20	0.00	-999.00	-999.00	
6	1.50	0.00	106.30	-999.00	-999.00	-999.00	20.50	0.00	102.00	101.70	20.40	0.00	-999.00	-999.00	
7	1.50	0.00	106.50	-999.00	-999.00	-999.00	37.30	0.00	102.00	101.80	31.20	0.00	-999.00	-999.00	
8	1.50	0.00	106.50	-999.00	-999.00	-999.00	46.10	0.00	101.90	101.80	33.20	0.00	-999.00	-999.00	
9	1.50	0.00	106.70	-999.00	-999.00	-999.00	46.50	0.00	102.10	101.80	44.20	0.00	-999.00	-999.00	
10	1.50	0.00	106.90	-999.00	-999.00	-999.00	46.80	0.00	102.10	101.70	44.80	0.00	-999.00	-999.00	
11	1.50	0.00	107.10	-999.00	-999.00	-999.00	49.80	0.00	102.00	101.90	49.70	0.00	-999.00	-999.00	
12	1.50	0.00	107.30	-999.00	-999.00	-999.00	46.70	0.00	102.20	102.20	51.20	0.00	-999.00	-999.00	
13	1.50	0.00	107.30	-999.00	-999.00	-999.00	46.90	0.00	102.10	102.20	50.50	0.00	-999.00	-999.00	
14	1.50	0.00	107.40	-999.00	-999.00	-999.00	47.80	0.00	102.20	104.60	51.00	0.00	-999.00	-999.00	
15	1.50	0.00	107.30	-999.00	-999.00	-999.00	47.50	0.00	102.30	102.50	50.60	0.00	-999.00	-999.00	
16	1.50	0.00	106.90	-999.00	-999.00	-999.00	47.50	0.00	102.30	102.20	51.60	0.00	-999.00	-999.00	
17	1.50	0.00	105.70	-999.00	-999.00	-999.00	48.70	0.00	102.40	102.70	50.60	0.00	-999.00	-999.00	
18	1.50	0.00	105.10	-999.00	-999.00	-999.00	41.10	0.00	102.40	102.40	50.50	0.00	-999.00	-999.00	
19	1.50	0.00	106.50	-999.00	-999.00	-999.00	40.60	0.00	102.40	102.10	44.90	0.00	-999.00	-999.00	
20	1.50	0.00	106.60	-999.00	-999.00	-999.00	40.90	0.00	102.30	102.10	45.10	0.00	-999.00	-999.00	
21	1.50	0.00	106.10	-999.00	-999.00	-999.00	40.30	0.00	102.10	101.90	44.00	0.00	-999.00	-999.00	
22	1.50	0.00	105.90	-999.00	-999.00	-999.00	35.80	0.00	102.20	102.10	34.10	0.00	-999.00	-999.00	
23	1.50	0.00	105.90	-999.00	-999.00	-999.00	32.90	0.00	102.10	101.80	33.60	0.00	-999.00	-999.00	
24	1.50	0.00	105.90	-999.00	-999.00	-999.00	29.20	0.00	101.90	101.70	30.10	0.00	-999.00	-999.00	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB	MCNARY	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	PASCO	
1	33.90	0.00	-999.00	-999.00	39.10	0.00	102.80	102.70	105.50	0.00	103.20	104.10	103.60	: 103.00	
2	33.00	0.00	-999.00	-999.00	33.00	0.00	102.90	102.70	106.10	0.00	103.30	103.90	103.70	: 103.10	
3	26.60	0.00	-999.00	-999.00	24.80	0.00	103.00	102.80	106.80	0.00	103.20	103.90	103.80	: 103.00	
4	20.20	0.00	-999.00	-999.00	21.00	0.00	102.90	102.90	107.40	0.00	103.30	104.40	103.90	: 103.10	
5	21.10	0.00	-999.00	-999.00	21.40	0.00	103.10	103.00	113.30	0.00	103.10	103.90	103.90	: 103.00	
6	19.80	0.00	-999.00	-999.00	19.30	0.00	103.00	103.10	113.30	0.00	103.20	103.90	103.90	: 103.10	
7	25.90	0.00	-999.00	-999.00	19.80	0.00	103.00	103.20	121.20	0.00	103.20	104.20	103.90	: 103.10	
8	27.40	0.00	-999.00	-999.00	19.70	0.00	103.00	103.20	123.30	0.00	103.10	103.90	103.90	: 103.10	
9	34.80	0.00	-999.00	-999.00	21.00	0.00	103.00	103.40	106.10	0.00	103.20	103.90	103.90	: 103.10	
10	48.20	0.00	-999.00	-999.00	35.00	0.00	103.20	103.50	100.90	0.00	103.40	103.80	104.00	: 103.10	
11	54.70	0.00	-999.00	-999.00	50.00	0.00	103.20	103.50	100.60	0.00	103.50	104.00	104.00	: 103.30	
12	64.50	0.00	-999.00	-999.00	65.90	0.00	103.30	103.30	102.20	0.00	103.60	103.90	104.10	: 103.50	
13	64.80	0.00	-999.00	-999.00	67.70	0.00	103.20	103.10	98.80	0.00	103.40	103.70	104.20	: 103.70	
14	65.20	0.00	-999.00	-999.00	69.00	0.00	103.00	103.00	87.50	0.00	103.30	103.50	104.20	: 103.70	
15	67.00	0.00	-999.00	-999.00	67.60	0.00	102.90	103.00	85.50	0.00	103.30	103.70	104.00	: 103.80	
16	66.00	0.00	-999.00	-999.00	67.70	0.00	102.90	103.00	95.60	0.00	103.10	103.40	103.90	: 103.90	
17	66.10	0.00	-999.00	-999.00	67.80	0.00	102.80	102.80	121.50	0.00	103.00	103.40	103.70	: 103.70	
18	65.90	0.00	-999.00	-999.00	67.90	0.00	102.80	102.70	144.30	0.00	103.00	103.30	103.70	: 103.50	
19	55.50	0.00	-999.00	-999.00	61.20	0.00	102.70	102.50	143.80	0.00	102.90	103.20	103.50	: 103.10	
20	54.90	0.00	-999.00	-999.00	60.30	0.00	102.40	102.20	143.60	0.00	102.80	103.00	103.40	: 102.80	
21	44.20	0.00	-999.00	-999.00	45.00	0.00	102.30	102.10	143.30	0.00	102.50	102.80	103.30	: 102.40	
22	34.00	0.00	-999.00	-999.00	33.50	0.00	102.20	101.90	142.40	0.00	102.50	102.80	103.10	: 102.10	
23	33.40	0.00	-999.00	-999.00	32.70	0.00	102.10	101.80	124.50	0.00	102.40	102.70	103.00	: 101.80	
24	27.50	0.00	-999.00	-999.00	24.50	0.00	101.80	101.90	122.20	0.00	102.20	102.50	102.80	: 101.50	

23 MAR 2003

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

23 MAR 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.			
1	1.50	0.00	105.90	-999.00	-999.00	-999.00	27.70	0.00	101.80	101.60	28.30	0.00	-999.00	-999.00	
2	1.50	0.00	105.90	-999.00	-999.00	-999.00	27.20	0.00	101.70	101.40	28.00	0.00	-999.00	-999.00	
3	1.50	0.00	106.00	-999.00	-999.00	-999.00	27.70	0.00	101.60	101.30	29.50	0.00	-999.00	-999.00	
4	1.50	0.00	106.30	-999.00	-999.00	-999.00	27.60	0.00	101.50	101.30	28.30	0.00	-999.00	-999.00	
5	1.50	0.00	106.50	-999.00	-999.00	-999.00	40.70	0.00	101.50	101.80	29.10	0.00	-999.00	-999.00	
6	1.50	0.00	106.60	-999.00	-999.00	-999.00	50.30	0.00	101.50	101.30	41.00	0.00	-999.00	-999.00	
7	1.50	0.00	106.60	-999.00	-999.00	-999.00	50.60	0.00	101.40	101.20	49.80	0.00	-999.00	-999.00	
8	1.50	0.00	107.00	-999.00	-999.00	-999.00	52.10	0.00	101.40	101.20	50.40	0.00	-999.00	-999.00	
9	1.50	0.00	107.40	-999.00	-999.00	-999.00	51.30	0.00	101.40	101.10	51.20	0.00	-999.00	-999.00	
10	1.50	0.00	107.80	-999.00	-999.00	-999.00	51.20	0.00	101.40	101.10	50.40	0.00	-999.00	-999.00	
11	1.50	0.00	107.90	-999.00	-999.00	-999.00	51.10	0.00	101.40	101.10	50.40	0.00	-999.00	-999.00	
12	1.50	0.00	108.10	-999.00	-999.00	-999.00	50.90	0.00	101.60	101.20	50.40	0.00	-999.00	-999.00	
13	1.50	0.00	108.60	-999.00	-999.00	-999.00	52.00	0.00	101.60	101.40	51.30	0.00	-999.00	-999.00	
14	1.50	0.00	109.20	-999.00	-999.00	-999.00	51.50	0.00	101.70	101.40	50.40	0.00	-999.00	-999.00	
15	1.50	0.00	109.00	-999.00	-999.00	-999.00	51.20	0.00	101.80	101.50	50.40	0.00	-999.00	-999.00	
16	1.50	0.00	108.80	-999.00	-999.00	-999.00	51.20	0.00	101.80	101.50	50.50	0.00	-999.00	-999.00	
17	1.50	0.00	108.20	-999.00	-999.00	-999.00	54.90	0.00	101.80	101.50	50.50	0.00	-999.00	-999.00	
18	1.50	0.00	107.50	-999.00	-999.00	-999.00	60.30	0.00	101.60	101.70	56.10	0.00	-999.00	-999.00	
19	1.50	0.00	106.80	-999.00	-999.00	-999.00	65.10	0.00	101.80	101.50	66.50	0.00	-999.00	-999.00	
20	1.50	0.00	106.50	-999.00	-999.00	-999.00	65.30	0.00	101.70	101.40	65.00	0.00	-999.00	-999.00	
21	1.50	0.00	106.30	-999.00	-999.00	-999.00	64.90	0.00	101.80	101.40	64.10	0.00	-999.00	-999.00	
22	1.50	0.00	106.20	-999.00	-999.00	-999.00	55.60	0.00	101.80	101.40	57.90	0.00	-999.00	-999.00	
23	1.50	0.00	106.30	-999.00	-999.00	-999.00	52.60	0.00	101.80	101.50	56.30	0.00	-999.00	-999.00	
24	1.50	0.00	106.40	-999.00	-999.00	-999.00	51.60	0.00	101.60	101.30	53.30	0.00	-999.00	-999.00	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. OR FB	WA FB	TAILW.	GAS % SAT			
1	26.30	0.00	-999.00	-999.00	24.00	0.00	101.80	101.60	123.60	0.00	102.10	102.30	102.70	:	101.30
2	18.70	0.00	-999.00	-999.00	19.30	0.00	101.70	101.60	123.00	0.00	102.00	102.20	102.70	:	101.00
3	26.20	0.00	-999.00	-999.00	19.40	0.00	101.70	101.70	124.80	0.00	101.80	102.20	102.50	:	100.70
4	26.10	0.00	-999.00	-999.00	24.50	0.00	101.60	101.60	124.30	0.00	101.80	102.10	102.50	:	100.50
5	26.20	0.00	-999.00	-999.00	24.50	0.00	101.50	101.80	130.90	0.00	101.80	102.10	102.40	:	100.30
6	26.80	0.00	-999.00	-999.00	24.50	0.00	101.40	101.60	131.90	0.00	101.60	101.80	102.30	:	100.20
7	42.30	0.00	-999.00	-999.00	25.00	0.00	101.40	101.50	131.00	0.00	101.50	101.80	102.30	:	100.10
8	50.10	0.00	-999.00	-999.00	34.80	0.00	101.40	101.60	111.80	0.00	101.40	101.90	102.30	:	100.10
9	55.00	0.00	-999.00	-999.00	50.90	0.00	101.40	101.70	96.00	0.00	101.40	102.10	102.30	:	100.20
10	55.60	0.00	-999.00	-999.00	56.50	0.00	101.40	101.70	95.50	0.00	101.50	101.90	102.40	:	100.60
11	55.60	0.00	-999.00	-999.00	58.50	0.00	101.30	102.40	91.60	0.00	101.60	102.00	102.50	:	100.90
12	55.60	0.00	-999.00	-999.00	57.10	0.00	101.60	101.90	89.50	0.00	101.70	101.90	102.60	:	101.30
13	56.40	0.00	-999.00	-999.00	57.40	0.00	101.80	102.10	89.70	0.00	101.90	102.10	102.80	:	101.60
14	55.10	0.00	-999.00	-999.00	58.90	0.00	101.60	101.90	89.70	0.00	102.00	102.00	102.90	:	102.10
15	54.50	0.00	-999.00	-999.00	58.00	0.00	101.70	101.90	89.70	0.00	102.10	102.00	102.90	:	102.50
16	54.40	0.00	-999.00	-999.00	56.90	0.00	101.70	102.00	89.70	0.00	102.20	102.10	103.00	:	102.80
17	56.10	0.00	-999.00	-999.00	54.60	0.00	101.70	101.70	90.10	0.00	102.20	101.80	102.80	:	103.00
18	60.20	0.00	-999.00	-999.00	55.10	0.00	101.70	101.60	116.40	0.00	102.20	102.00	102.70	:	103.00
19	71.80	0.00	-999.00	-999.00	67.90	0.00	101.60	101.60	123.10	0.00	102.10	101.90	102.70	:	102.80
20	70.80	0.00	-999.00	-999.00	69.00	0.00	101.60	101.40	122.70	0.00	102.10	101.80	102.40	:	102.60
21	70.30	0.00	-999.00	-999.00	69.70	0.00	101.40	101.50	119.00	0.00	102.00	101.60	102.40	:	102.30
22	68.70	0.00	-999.00	-999.00	55.50	0.00	101.40	101.30	117.00	0.00	101.80	101.70	102.30	:	102.20
23	68.20	0.00	-999.00	-999.00	49.00	0.00	101.30	101.30	117.50	0.00	101.70	101.50	102.30	:	101.90
24	59.10	0.00	-999.00	-999.00	48.30	0.00	101.20	101.10	126.00	0.00	101.70	101.50	102.20	:	101.70

24 MAR 2003

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

24 MAR 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	LOWER GRANITE	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.		
1	1.50	0.00	106.60	-999.00	-999.00	-999.00	51.20	0.00	101.50	101.30	52.80	0.00	-999.00	-999.00	
2	1.50	0.00	106.60	-999.00	-999.00	-999.00	44.60	0.00	101.40	101.20	45.80	0.00	-999.00	-999.00	
3	1.50	0.00	106.30	-999.00	-999.00	-999.00	41.10	0.00	101.40	101.10	46.20	0.00	-999.00	-999.00	
4	1.50	0.00	106.10	-999.00	-999.00	-999.00	41.60	0.00	101.20	101.10	45.40	0.00	-999.00	-999.00	
5	1.50	0.00	106.00	-999.00	-999.00	-999.00	41.60	0.00	101.20	100.90	45.50	0.00	-999.00	-999.00	
6	1.50	0.00	105.80	-999.00	-999.00	-999.00	64.30	0.00	101.10	101.00	52.80	0.00	-999.00	-999.00	
7	1.50	0.00	105.80	-999.00	-999.00	-999.00	75.00	0.00	101.00	100.80	61.40	0.00	-999.00	-999.00	
8	1.50	0.00	105.70	-999.00	-999.00	-999.00	76.70	0.00	101.00	100.80	74.10	0.00	-999.00	-999.00	
9	1.50	0.00	105.30	-999.00	-999.00	-999.00	76.20	0.00	100.90	100.60	74.80	0.00	-999.00	-999.00	
10	1.60	0.00	105.30	-999.00	-999.00	-999.00	65.90	0.00	100.90	100.90	75.90	0.00	-999.00	-999.00	
11	1.60	0.00	105.90	-999.00	-999.00	-999.00	65.00	0.00	100.90	101.00	66.30	0.00	-999.00	-999.00	
12	1.60	0.00	106.00	-999.00	-999.00	-999.00	62.80	0.00	101.00	101.10	61.80	0.00	-999.00	-999.00	
13	1.60	0.00	105.70	-999.00	-999.00	-999.00	59.90	0.00	101.00	100.90	61.20	0.00	-999.00	-999.00	
14	1.60	0.00	105.80	-999.00	-999.00	-999.00	60.90	0.00	101.20	101.00	60.70	0.00	-999.00	-999.00	
15	1.60	0.00	105.60	-999.00	-999.00	-999.00	59.70	0.00	101.20	101.00	60.70	0.00	-999.00	-999.00	
16	1.60	0.00	105.50	-999.00	-999.00	-999.00	59.60	0.00	101.10	101.00	61.20	0.00	-999.00	-999.00	
17	1.60	0.00	104.80	-999.00	-999.00	-999.00	55.30	0.00	101.20	100.90	60.10	0.00	-999.00	-999.00	
18	1.60	0.00	104.00	-999.00	-999.00	-999.00	55.10	0.00	101.20	100.90	61.70	0.00	-999.00	-999.00	
19	1.60	0.00	103.50	-999.00	-999.00	-999.00	56.10	0.00	101.50	100.90	61.80	0.00	-999.00	-999.00	
20	1.60	0.00	103.30	-999.00	-999.00	-999.00	56.60	0.00	101.60	101.00	61.40	0.00	-999.00	-999.00	
21	1.60	0.00	103.00	-999.00	-999.00	-999.00	59.50	0.00	101.60	101.00	64.10	0.00	-999.00	-999.00	
22	1.60	0.00	103.00	-999.00	-999.00	-999.00	57.50	0.00	101.80	101.00	62.50	0.00	-999.00	-999.00	
23	1.60	0.00	102.90	-999.00	-999.00	-999.00	52.50	0.00	101.70	101.20	51.00	0.00	-999.00	-999.00	
24	1.60	0.00	102.90	-999.00	-999.00	-999.00	46.80	0.00	101.60	101.10	53.10	0.00	-999.00	-999.00	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	MCNARY	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	MCNARY	PASCO
1	62.50	0.00	-999.00	-999.00	48.20	0.00	101.20	101.10	89.90	0.00	101.70	101.50	102.20	0.00	101.50
2	62.10	0.00	-999.00	-999.00	41.20	0.00	101.30	101.10	89.60	0.00	101.50	101.40	102.20	0.00	101.40
3	52.80	0.00	-999.00	-999.00	34.30	0.00	101.30	101.10	117.00	0.00	101.40	101.40	102.20	0.00	101.40
4	52.50	0.00	-999.00	-999.00	49.30	0.00	101.00	101.20	125.10	0.00	101.40	101.30	102.30	0.00	101.20
5	45.50	0.00	-999.00	-999.00	49.30	0.00	100.90	101.30	134.70	0.00	101.30	101.30	102.30	0.00	101.20
6	51.90	0.00	-999.00	-999.00	53.60	0.00	100.90	101.00	129.90	0.00	101.20	101.20	102.20	0.00	101.00
7	53.70	0.00	-999.00	-999.00	54.10	0.00	100.90	100.80	149.80	0.00	101.30	101.20	102.10	0.00	101.00
8	64.90	0.00	-999.00	-999.00	54.20	0.00	100.90	100.90	149.40	0.00	101.20	101.20	102.00	0.00	101.00
9	74.20	0.00	1000.00	1000.00	62.10	0.00	101.30	101.10	148.50	0.00	101.40	101.30	102.10	0.00	101.10
10	81.80	0.00	1000.00	1000.00	72.40	0.00	101.20	101.20	149.40	0.00	101.50	101.70	102.20	0.00	0.00
11	83.40	0.00	1000.00	1000.00	72.20	0.00	101.20	101.30	149.50	0.00	101.90	102.10	101.80	0.00	0.00
12	86.80	0.00	1000.00	1000.00	71.10	0.00	101.30	101.70	149.00	0.00	102.60	103.40	102.20	0.00	0.00
13	81.10	0.00	1000.00	1000.00	72.40	0.00	102.30	101.50	148.70	0.00	103.20	103.60	0.00	0.00	0.00
14	76.00	0.00	0.00	1000.00	71.10	0.00	102.50	101.50	148.80	0.00	103.80	103.50	102.50	0.00	0.00
15	74.40	0.00	100.60	1000.00	71.10	0.00	102.00	101.90	149.00	0.00	103.50	103.70	102.70	0.00	103.80
16	69.90	0.00	0.00	0.00	74.00	0.00	101.90	101.50	148.80	0.00	103.60	104.00	102.80	0.00	104.30
17	72.70	0.00	100.60	102.10	71.90	0.00	101.40	101.70	149.50	0.00	103.60	104.40	102.70	0.00	104.30
18	69.70	0.00	100.70	101.30	73.50	0.00	101.30	101.40	149.40	0.00	103.60	103.60	102.60	0.00	104.10
19	71.00	0.00	101.10	101.10	72.20	0.00	101.40	101.70	150.60	0.00	102.10	103.50	102.60	0.00	104.00
20	69.30	0.00	101.00	101.00	73.80	0.00	101.10	101.30	150.40	0.00	101.80	103.50	102.50	0.00	103.80
21	69.30	0.00	100.30	100.80	74.00	0.00	101.20	101.40	150.60	0.00	101.80	102.80	102.40	0.00	103.70
22	70.30	0.00	100.60	101.00	71.90	0.00	101.30	101.10	149.90	0.00	101.60	103.50	102.40	0.00	103.50
23	50.80	0.00	100.30	100.90	56.90	0.00	101.10	101.20	136.80	0.00	101.60	102.80	102.40	0.00	103.40
24	50.80	0.00	100.40	100.70	56.10	0.00	101.10	101.10	136.50	0.00	101.70	102.70	102.40	0.00	103.20

25 MAR 2003

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

25 MAR 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	LOWER GRANITE	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	LOWER GRANITE	LITTLE GOOSE
1	1.60	0.00	103.00	-999.00	-999.00	-999.00	38.20	0.00	101.40	101.50	51.50	0.00	-999.00	-999.00	-999.00
2	1.60	0.00	103.00	-999.00	-999.00	-999.00	34.80	0.00	101.50	100.90	33.10	0.00	-999.00	-999.00	-999.00
3	1.60	0.00	103.10	-999.00	-999.00	-999.00	33.10	0.00	101.60	101.00	32.60	0.00	-999.00	-999.00	-999.00
4	1.60	0.00	103.10	-999.00	-999.00	-999.00	33.50	0.00	101.50	101.00	32.50	0.00	-999.00	-999.00	-999.00
5	1.90	0.00	103.10	-999.00	-999.00	-999.00	32.80	0.00	101.40	101.00	33.00	0.00	1000.00	1000.00	1000.00
6	4.90	0.00	102.90	-999.00	-999.00	-999.00	33.40	0.00	101.40	101.00	33.20	0.00	1000.00	1000.00	1000.00
7	8.30	0.00	98.10	-999.00	-999.00	-999.00	45.80	0.00	101.30	101.00	49.60	0.00	1000.00	1000.00	1000.00
8	8.40	0.00	96.50	-999.00	-999.00	-999.00	51.70	0.00	101.30	101.10	49.20	0.00	1000.00	1000.00	1000.00
9	8.30	0.00	96.60	-999.00	-999.00	-999.00	59.10	0.00	101.50	101.10	50.30	0.00	1000.00	1000.00	1000.00
10	8.30	0.00	96.60	-999.00	-999.00	4.10	58.50	0.00	101.50	101.20	57.60	0.00	0.00	1000.00	1000.00
11	8.40	0.00	96.80	-999.00	-999.00	1000.00	58.50	0.00	101.30	101.00	57.80	0.00	0.00	0.00	0.00
12	8.30	0.00	96.90	-999.00	-999.00	1000.00	58.80	0.00	101.40	101.10	57.90	0.00	100.10	99.90	100.10
13	8.30	0.00	97.00	-999.00	1000.00	1000.00	59.00	0.00	101.40	101.60	59.00	0.00	100.10	100.10	100.10
14	8.40	0.00	96.90	-999.00	1000.00	3.80	59.00	0.00	101.60	100.60	58.20	0.00	100.10	100.10	100.10
15	8.20	0.00	96.90	-999.00	1000.00	1000.00	60.30	0.00	101.60	0.00	58.50	0.00	100.20	100.20	100.20
16	8.40	0.00	97.00	-999.00	0.00	-999.00	59.30	0.00	101.60	0.00	58.50	0.00	100.20	100.10	100.10
17	8.30	0.00	97.10	-999.00	0.00	-999.00	61.20	0.00	101.50	0.00	59.60	0.00	100.10	100.10	100.10
18	8.20	0.00	97.00	-999.00	0.00	-999.00	59.60	0.00	101.40	0.00	58.60	0.00	100.30	100.10	100.10
19	8.40	0.00	96.90	-999.00	0.00	0.00	60.50	0.00	101.40	0.00	58.60	0.00	100.30	100.10	100.10
20	8.30	0.00	96.80	-999.00	0.00	-999.00	59.30	0.00	101.30	0.00	65.70	0.00	100.30	100.10	100.10
21	8.20	0.00	96.80	-999.00	0.00	-999.00	61.20	0.00	101.30	0.00	65.90	0.00	100.30	100.30	100.30
22	8.40	0.00	96.90	-999.00	0.00	-999.00	61.00	0.00	101.20	0.00	65.20	0.00	100.30	100.10	100.10
23	8.30	0.00	96.90	-999.00	0.00	0.00	49.90	0.00	101.20	0.00	54.70	0.00	100.40	100.10	100.10
24	8.40	0.00	96.90	-999.00	0.00	-999.00	41.00	0.00	101.20	0.00	50.30	0.00	100.50	100.30	100.30

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO				
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	MCNARY	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	PASCO		
1	49.60	0.00	100.10	100.50	0.00	101.10	101.00	137.30	0.00	101.50	102.50	102.30	0.00	103.10		
2	35.20	0.00	100.50	100.50	40.80	0.00	101.20	101.10	145.20	0.00	101.50	102.40	102.30	0.00	103.10	
3	36.00	0.00	100.40	101.10	38.60	0.00	101.10	101.20	146.20	0.00	101.40	103.20	102.40	0.00	103.00	
4	34.30	0.00	100.10	100.50	38.60	0.00	101.10	101.20	146.90	0.00	101.40	103.50	102.50	0.00	103.00	
5	34.70	0.00	100.00	100.30	38.60	0.00	101.10	101.20	148.30	0.00	101.40	103.20	102.60	0.00	103.00	
6	34.80	0.00	100.20	100.40	40.10	0.00	101.10	101.20	149.40	0.00	101.40	103.20	102.50	0.00	102.80	
7	48.90	0.00	100.10	100.50	40.40	0.00	101.00	101.20	150.80	0.00	101.30	102.80	102.40	0.00	102.80	
8	49.10	0.00	100.10	100.70	50.50	0.00	101.10	101.50	149.70	0.00	101.30	103.10	102.40	0.00	102.80	
9	49.30	0.00	100.00	100.70	50.20	0.00	101.20	100.90	149.00	0.00	101.30	103.10	102.40	0.00	102.90	
10	60.30	0.00	99.90	101.50	50.10	0.00	101.20	101.10	148.90	0.00	101.50	102.90	102.50	0.00	103.10	
11	60.40	0.00	99.90	100.80	50.40	0.00	101.20	101.20	148.50	0.00	101.70	103.00	102.60	0.00	103.30	
12	59.80	0.00	100.00	101.00	52.10	0.00	101.30	101.30	148.80	0.00	102.10	103.10	102.70	0.00	103.60	
13	59.70	0.00	100.20	101.20	50.40	0.00	101.40	101.40	149.10	0.00	102.20	103.10	102.90	0.00	103.90	
14	59.00	0.00	100.30	101.70	51.40	0.00	101.30	101.50	150.10	0.00	102.90	103.20	102.90	0.00	104.20	
15	59.00	0.00	100.40	101.40	52.10	0.00	101.40	101.40	150.20	0.00	102.50	103.10	102.80	0.00	104.20	
16	59.10	0.00	100.40	101.20	51.10	0.00	101.40	101.80	150.10	0.00	101.80	103.00	102.80	0.00	104.40	
17	69.00	0.00	100.40	101.40	59.10	0.00	101.40	101.40	150.20	0.00	101.60	104.10	102.70	0.00	104.20	
18	69.00	0.00	100.60	101.30	59.90	0.00	101.40	101.40	150.20	0.00	101.60	103.40	102.70	0.00	104.30	
19	69.40	0.00	100.60	101.20	61.30	0.00	101.40	101.30	153.30	0.00	101.50	103.00	102.70	0.00	104.30	
20	69.70	0.00	100.60	101.00	69.30	0.00	101.30	101.30	153.00	0.00	101.50	103.00	102.70	0.00	104.10	
21	69.50	0.00	100.60	101.20	71.60	0.00	101.30	101.30	152.40	0.00	101.50	103.20	102.60	0.00	103.80	
22	69.70	0.00	100.60	101.10	70.00	0.00	101.30	101.70	150.30	0.00	101.50	103.30	102.60	0.00	103.50	
23	65.10	0.00	100.40	101.20	65.10	0.00	101.20	101.40	135.90	0.00	101.40	103.20	102.40	0.00	103.30	
24	65.10	0.00	100.50	101.40	60.40	0.00	101.20	101.40	135.10	0.00	101.60	103.40	102.60	0.00	103.00	

26 MAR 2003

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

26 MAR 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.			
1	8.30	0.00	96.90	-999.00	0.00	-999.00	39.80	0.00	101.30	0.00	49.70	0.00	100.50	100.40	
2	8.20	0.00	97.10	-999.00	0.00	-999.00	39.80	0.00	101.20	0.00	42.80	0.00	100.60	100.60	
3	8.40	0.00	97.00	-999.00	0.00	0.00	44.00	0.00	101.20	0.00	40.20	0.00	100.80	100.50	
4	8.20	0.00	97.10	-999.00	0.00	-999.00	45.30	0.00	101.30	0.00	40.10	0.00	100.80	100.50	
5	8.30	0.00	97.20	-999.00	0.00	1000.00	49.00	0.00	101.30	0.00	39.80	0.00	100.80	100.40	
6	8.40	0.00	97.30	-999.00	0.00	1000.00	49.40	0.00	101.10	0.00	46.20	0.00	100.80	100.40	
7	8.20	0.00	97.30	-999.00	0.00	1000.00	52.10	0.00	101.10	0.00	49.60	0.00	100.70	100.50	
8	8.40	0.00	97.20	-999.00	0.00	1000.00	52.50	0.00	100.90	0.00	60.00	0.00	100.60	100.50	
9	8.20	0.00	97.30	1000.00	0.00	0.00	52.30	0.00	100.90	0.00	60.20	0.00	100.60	100.50	
10	7.80	0.00	97.30	1000.00	0.00	0.00	53.10	0.00	100.90	0.00	61.50	0.00	100.60	100.40	
11	7.50	0.00	97.20	1000.00	0.00	0.00	52.30	0.00	100.90	0.00	55.80	0.00	100.70	100.60	
12	7.40	0.00	96.80	1000.00	0.00	0.00	55.40	0.00	100.90	0.00	52.60	0.00	100.60	100.70	
13	7.40	0.00	96.80	0.00	0.00	0.00	62.80	0.00	100.70	0.00	54.90	0.00	100.60	100.40	
14	7.40	0.00	96.60	0.00	0.00	0.00	64.30	0.00	100.60	0.00	61.90	0.00	100.70	100.90	
15	7.40	0.00	96.60	0.00	100.10	0.00	63.50	0.00	100.60	0.00	59.10	0.00	100.70	100.50	
16	7.40	0.00	96.20	0.00	100.00	0.00	61.00	0.00	100.70	0.00	55.10	0.00	100.70	100.40	
17	7.30	0.00	96.20	0.00	99.90	95.70	59.80	0.00	100.60	99.20	61.00	0.00	100.60	100.50	
18	7.60	0.00	95.80	0.00	99.60	96.40	60.00	0.00	100.50	99.20	62.40	0.00	100.50	100.40	
19	8.20	0.00	96.20	0.00	99.40	95.70	69.50	0.00	100.60	99.10	68.90	0.00	100.60	100.30	
20	8.30	0.00	96.20	0.00	99.20	94.90	69.30	0.00	100.50	98.90	70.00	0.00	100.50	100.30	
21	8.10	0.00	96.50	0.00	99.10	94.00	70.60	0.00	100.50	98.80	70.60	0.00	100.40	100.20	
22	8.30	0.00	96.50	0.00	99.10	93.70	69.00	0.00	100.40	98.70	70.10	0.00	100.40	100.10	
23	8.10	0.00	96.10	0.00	99.00	93.50	52.00	0.00	100.30	98.60	54.60	0.00	100.30	100.00	
24	8.30	0.00	95.90	0.00	98.80	93.30	45.70	0.00	100.30	98.60	54.90	0.00	100.30	99.90	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. WA FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB	TOTAL DISCH. KCFS	SPILL KCFS	
1	60.40	0.00	100.60	101.20	58.90	0.00	101.30	101.30	0.00	101.40	103.20	102.70	0.00	103.10	
2	50.20	0.00	100.50	101.40	55.90	0.00	101.30	101.40	0.00	101.80	103.30	102.70	0.00	103.10	
3	48.90	0.00	100.60	101.30	49.90	0.00	101.50	101.50	0.00	101.70	103.10	102.80	0.00	103.20	
4	40.00	0.00	100.70	101.20	39.40	0.00	101.50	102.00	0.00	101.60	102.90	102.80	0.00	103.10	
5	40.00	0.00	100.60	101.30	39.40	0.00	101.50	101.40	0.00	101.50	102.70	102.60	0.00	103.00	
6	39.50	0.00	100.60	101.10	40.20	0.00	101.40	101.50	0.00	101.40	102.50	102.40	0.00	102.80	
7	45.70	0.00	100.50	102.90	38.70	0.00	101.10	101.50	0.00	101.20	102.40	102.20	0.00	102.70	
8	59.80	0.00	100.50	101.20	44.70	0.00	101.10	101.30	0.00	101.20	102.30	102.10	0.00	102.60	
9	60.30	0.00	100.40	101.20	46.40	0.00	101.20	101.50	0.00	101.20	102.40	102.20	0.00	102.70	
10	62.50	0.00	100.40	101.30	45.70	0.00	101.10	101.30	0.70	101.10	102.70	102.20	0.00	102.80	
11	57.90	0.00	100.40	101.50	56.50	0.00	101.10	101.50	1.40	101.30	102.50	102.20	0.00	103.00	
12	54.50	0.00	100.40	101.50	59.10	0.00	101.10	101.30	0.90	101.40	102.40	102.00	0.00	103.10	
13	54.90	0.00	100.40	101.40	57.80	0.00	101.10	101.20	1.00	101.40	102.20	102.00	0.00	103.20	
14	54.90	0.00	100.40	101.60	57.60	0.00	101.10	101.40	1.10	101.30	102.10	102.00	0.00	103.20	
15	56.70	0.00	100.40	101.50	59.70	0.00	101.10	101.20	1.10	101.40	102.10	102.00	0.00	103.30	
16	64.20	0.00	100.50	101.60	62.90	0.00	101.10	101.20	1.10	101.30	102.10	101.90	0.00	103.30	
17	70.90	0.00	100.50	101.80	60.20	0.00	101.10	101.10	1.10	101.40	101.90	101.80	0.00	103.30	
18	72.00	0.00	100.40	101.70	69.40	0.00	100.90	101.10	1.10	101.20	101.70	101.60	0.00	103.10	
19	73.20	0.00	100.30	101.20	69.50	0.00	100.80	100.80	1.10	101.00	101.60	101.50	0.00	102.80	
20	76.60	0.00	100.20	101.00	69.70	0.00	100.70	100.70	1.10	100.90	101.40	101.40	0.00	102.60	
21	82.90	0.00	100.10	101.00	75.00	0.00	100.40	100.60	1.10	100.90	101.40	101.30	0.00	102.40	
22	83.30	0.00	100.00	100.60	76.70	0.00	100.30	100.50	1.10	100.80	101.20	101.30	0.00	102.10	
23	76.80	0.00	99.90	101.10	69.60	0.00	100.20	100.30	1.10	100.70	101.00	101.30	0.00	101.90	
24	61.70	0.00	99.80	100.60	64.30	0.00	100.10	100.20	1.10	100.50	101.00	101.20	0.00	101.80	

27 MAR 2003

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

27 MAR 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	LITTLE GOOSE	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.		
1	8.20	0.00	95.70	0.00	98.70	93.20	45.70	0.00	100.20	98.50	53.90	0.00	100.20	99.90	
2	8.20	0.00	95.70	0.00	98.50	92.80	46.00	0.00	100.20	98.30	44.20	0.00	100.20	99.80	
3	8.30	0.00	95.60	0.00	98.30	92.60	45.20	0.00	100.10	98.20	43.80	0.00	100.00	99.60	
4	8.10	0.00	95.70	0.00	98.20	92.40	45.70	0.00	100.10	98.20	44.70	0.00	99.90	99.60	
5	8.30	0.00	95.80	0.00	98.30	92.30	58.80	0.00	100.10	98.10	44.30	0.00	99.90	99.60	
6	8.10	0.00	95.70	0.00	98.20	91.90	59.90	0.00	99.90	98.00	58.40	0.00	99.80	99.60	
7	8.30	0.00	95.70	0.00	98.20	91.70	60.90	0.00	99.80	98.00	59.50	0.00	99.80	99.50	
8	8.20	0.00	95.40	0.00	98.30	91.40	57.60	0.00	99.80	97.80	72.80	0.00	99.80	99.60	
9	8.10	0.00	96.00	0.00	98.40	90.90	42.50	0.00	99.70	97.70	74.00	0.00	99.70	99.50	
10	8.30	0.00	96.00	0.00	98.80	91.00	57.20	0.00	99.80	97.70	69.30	0.00	99.50	99.60	
11	8.30	0.00	96.20	0.00	99.20	91.00	58.10	0.00	99.90	97.70	72.40	0.00	99.70	99.70	
12	8.10	0.00	96.40	0.00	99.30	91.00	57.60	0.00	99.90	97.70	73.30	0.00	99.70	99.90	
13	8.30	0.00	96.20	1000.00	99.50	91.20	59.40	0.00	99.90	97.70	74.20	0.00	99.70	99.70	
14	8.10	0.00	96.30	1000.00	99.70	91.20	84.60	0.00	99.90	97.70	74.10	0.00	99.80	99.80	
15	8.10	0.00	96.30	110.70	99.60	91.40	77.60	0.00	100.00	97.60	75.00	0.00	99.80	99.70	
16	8.30	0.00	96.00	101.50	99.60	91.30	75.60	0.00	100.10	97.80	75.20	0.00	99.70	99.70	
17	8.10	0.00	95.80	101.50	99.40	91.10	87.50	0.00	100.10	98.50	86.30	0.00	99.80	101.10	
18	8.20	0.00	95.80	-999.00	99.20	90.90	86.50	0.00	100.60	98.20	90.40	0.00	99.80	99.80	
19	8.10	0.00	95.70	101.30	99.10	90.80	85.20	0.00	100.70	98.40	92.80	0.00	99.80	99.70	
20	8.20	0.00	95.80	101.10	99.00	90.60	85.10	0.00	100.60	98.60	85.60	0.00	99.80	99.60	
21	8.10	0.00	95.80	101.10	99.00	90.60	70.30	0.00	100.70	98.20	75.90	0.00	99.80	99.70	
22	8.20	0.00	95.60	100.90	98.80	90.30	56.80	0.00	100.70	98.30	57.80	0.00	99.90	99.40	
23	5.20	0.00	95.60	100.90	98.70	90.00	36.00	0.00	100.50	98.30	33.00	0.00	99.90	99.60	
24	2.40	0.00	95.80	100.90	98.90	90.00	34.70	0.00	100.30	98.30	27.30	0.00	99.70	99.50	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	PASCO	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	GAS %SAT	
1	61.60	0.00	99.80	100.30	59.40	0.00	100.00	100.10	0.00	100.50	100.90	101.20	0.00	101.70	
2	59.90	0.00	99.60	100.10	59.10	0.00	100.00	100.00	0.00	100.40	100.90	101.30	0.00	101.60	
3	50.50	0.00	99.60	100.20	59.70	0.00	99.80	100.00	0.00	100.40	100.90	101.20	0.00	101.60	
4	50.00	0.00	99.50	99.80	52.20	0.00	99.70	0.00	0.00	100.30	100.80	101.20	0.00	101.60	
5	50.10	0.00	99.40	99.70	50.00	0.00	99.70	99.90	0.00	100.10	100.60	101.10	0.00	101.40	
6	49.90	0.00	99.40	99.70	49.20	0.00	99.70	99.80	0.00	100.20	100.60	101.10	0.00	101.30	
7	49.80	0.00	99.40	99.60	49.50	0.00	99.60	99.80	0.00	100.10	100.60	101.00	0.00	101.30	
8	74.50	0.00	99.30	99.90	67.30	0.00	99.60	99.90	0.00	100.10	100.50	101.00	0.00	101.40	
9	75.60	0.00	99.30	100.00	66.40	0.00	99.60	100.00	0.00	100.10	100.50	101.00	0.00	101.50	
10	74.50	0.00	99.30	100.00	75.10	0.00	99.70	100.20	0.00	100.00	100.50	101.10	0.00	101.70	
11	69.40	0.00	99.10	100.30	74.90	0.00	99.70	100.00	0.00	100.20	100.50	101.10	0.00	102.10	
12	76.70	0.00	99.30	100.50	76.70	0.00	99.70	100.00	0.00	100.30	100.80	101.10	0.00	102.40	
13	78.40	0.00	99.20	100.50	76.70	0.00	99.70	99.80	0.00	100.60	100.80	101.30	0.00	102.50	
14	80.90	0.00	99.30	100.80	75.30	0.00	99.70	99.80	0.00	101.10	100.90	101.50	0.00	102.80	
15	78.20	0.00	99.50	100.80	77.00	0.00	99.70	100.00	0.00	101.40	101.00	101.50	0.00	102.90	
16	79.20	0.00	100.10	101.10	75.60	0.00	99.70	99.80	0.00	101.40	101.00	101.40	0.00	103.00	
17	86.40	0.00	100.00	101.20	75.50	0.00	99.80	99.80	0.00	100.70	100.90	101.40	0.00	102.90	
18	91.40	0.00	99.20	100.80	77.30	0.00	100.10	99.70	0.00	100.70	100.90	101.20	0.00	103.00	
19	92.10	0.00	99.10	100.40	86.30	0.00	99.90	99.60	0.00	101.00	100.90	101.20	0.00	103.00	
20	100.40	0.00	99.10	100.30	85.40	0.00	99.50	100.00	0.00	100.90	100.80	101.10	0.00	102.80	
21	97.40	0.00	99.00	99.80	85.10	0.00	99.30	99.50	0.00	100.60	100.70	101.00	0.00	102.70	
22	83.20	0.00	99.00	100.00	81.00	0.00	99.30	99.50	0.00	100.60	100.80	101.00	0.00	102.60	
23	62.70	0.00	98.90	99.80	65.70	0.00	99.10	99.40	0.00	100.30	100.80	101.00	0.00	102.50	
24	44.80	0.00	98.90	99.80	45.90	0.00	98.90	99.20	0.00	100.10	100.60	100.90	0.00	102.30	

28 MAR 2003

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

28 MAR 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. TAI LW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAI LW.	LOWER GRANITE	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAI LW.		
1	2.20	0.00	95.90	100.70	99.30	89.60	28.30	0.00	100.30	98.30	18.60	0.00	99.60	99.50	
2	2.30	0.00	96.00	100.70	99.40	89.20	27.90	0.00	100.10	98.30	18.00	0.00	99.60	99.30	
3	2.20	0.00	95.90	100.60	99.30	88.90	30.10	0.00	99.90	98.30	19.00	0.00	99.40	99.20	
4	2.30	0.00	96.00	100.50	99.10	88.60	28.50	0.00	99.80	98.30	16.70	0.00	99.30	99.20	
5	2.20	0.00	95.90	100.40	99.10	87.70	47.30	0.00	99.70	98.40	17.40	0.00	99.30	99.10	
6	2.30	0.00	95.80	100.20	99.10	86.90	46.80	0.00	99.60	98.20	37.10	0.00	99.20	99.30	
7	2.20	0.00	95.70	100.20	99.00	87.00	34.30	0.00	99.70	98.00	49.60	0.00	99.20	99.20	
8	2.30	0.00	95.90	100.30	99.20	87.60	35.10	0.00	99.70	98.00	53.30	0.00	99.40	99.20	
9	2.20	0.00	96.00	100.60	99.50	88.50	34.40	0.00	99.80	97.90	57.70	0.00	99.40	99.60	
10	2.30	0.00	96.30	100.90	99.90	89.10	34.10	0.00	99.90	99.00	55.30	0.00	99.60	99.50	
11	2.20	0.00	97.40	101.20	100.30	90.60	34.10	0.00	100.00	99.40	65.40	0.00	99.70	99.60	
12	2.30	0.00	98.50	101.70	101.10	91.80	34.00	0.00	100.20	99.50	65.20	0.00	99.90	99.90	
13	2.20	0.00	98.70	102.20	101.70	93.50	37.40	0.00	100.20	99.80	65.80	0.00	99.90	99.80	
14	2.30	0.00	99.40	102.60	102.20	94.70	43.20	0.00	100.40	99.90	65.50	0.00	100.50	99.80	
15	2.20	0.00	99.80	102.80	102.50	95.70	72.90	0.00	100.60	100.00	65.30	0.00	100.00	99.90	
16	2.30	0.00	99.50	103.00	102.60	96.40	74.70	0.00	100.70	100.10	66.50	0.00	100.00	99.80	
17	2.20	0.00	99.00	103.00	102.40	96.70	88.40	0.00	101.00	100.00	67.20	0.00	100.00	99.90	
18	2.30	0.00	98.30	102.80	102.10	96.50	93.30	0.00	100.70	99.80	79.70	0.00	99.90	99.70	
19	2.20	0.00	97.80	102.70	101.60	96.70	93.60	0.00	101.40	99.90	79.70	0.00	101.30	99.70	
20	2.30	0.00	97.60	102.30	101.10	96.50	92.40	0.00	101.40	100.00	81.10	0.00	101.60	99.70	
21	2.20	0.00	97.20	102.00	100.90	96.30	91.50	0.00	100.70	100.00	78.80	0.00	101.50	99.70	
22	2.20	0.00	96.60	101.90	100.70	96.50	73.10	0.00	101.60	100.00	59.40	0.00	101.10	99.70	
23	2.20	0.00	96.50	101.70	100.50	96.20	55.30	0.00	100.40	99.90	38.70	0.00	101.20	99.60	
24	2.30	0.00	96.40	101.60	100.40	96.00	32.50	0.00	100.80	100.00	19.20	0.00	101.20	99.60	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAI LW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAI LW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB	WA TAI LW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB		
1	28.80	0.00	98.80	99.30	0.00	98.90	99.20	0.00	99.80	100.70	100.90	0.00	102.30		
2	28.00	0.00	98.80	99.20	0.00	98.90	99.20	0.00	99.80	100.60	100.70	0.00	102.00		
3	20.00	0.00	98.80	99.00	0.00	98.80	99.00	0.00	99.60	100.60	100.60	0.00	101.80		
4	18.00	0.00	98.70	98.90	0.00	98.80	99.00	0.00	99.40	100.50	100.60	0.00	101.60		
5	17.70	0.00	98.60	98.90	0.00	98.70	99.00	0.00	99.30	100.50	100.50	0.00	101.50		
6	18.10	0.00	98.50	98.90	0.00	98.70	99.80	0.00	99.30	100.50	100.50	0.00	101.30		
7	37.90	0.00	98.50	98.90	0.00	98.70	99.20	0.00	99.50	100.30	100.50	0.00	101.30		
8	46.70	0.00	98.60	98.80	0.00	98.80	99.40	0.00	99.50	100.40	100.50	0.00	101.30		
9	58.20	0.00	98.80	99.00	0.00	99.10	100.30	0.00	100.10	100.50	100.70	0.00	101.50		
10	67.10	0.00	99.00	99.30	0.00	99.10	99.50	0.00	100.70	100.50	100.80	0.00	101.80		
11	68.70	0.00	99.60	99.60	0.00	99.00	99.40	0.00	101.10	100.70	100.80	0.00	102.00		
12	69.80	0.00	99.80	99.90	0.00	99.20	99.40	0.00	101.70	100.80	101.00	0.00	102.50		
13	76.20	0.00	99.70	100.30	0.00	99.20	99.50	0.00	102.60	101.00	101.20	0.00	102.80		
14	76.60	0.00	99.10	100.60	0.00	99.30	99.50	0.00	103.90	101.20	101.30	0.00	103.10		
15	76.60	0.00	98.90	100.80	4.00	99.10	100.00	0.00	103.00	101.20	101.30	0.00	103.30		
16	78.00	0.00	98.90	101.10	0.00	99.20	101.00	0.00	103.00	101.40	101.40	0.00	103.50		
17	76.80	0.00	98.90	100.80	0.00	99.50	99.50	0.00	103.40	101.40	101.40	0.00	103.50		
18	83.50	0.00	98.90	100.50	0.00	99.20	99.40	0.00	101.90	101.40	101.50	0.00	103.40		
19	83.80	0.00	98.90	100.30	0.00	99.20	99.40	0.00	101.50	102.40	101.50	0.00	103.20		
20	83.90	0.00	98.90	100.00	0.00	99.30	100.30	0.00	101.50	102.50	101.50	0.00	103.00		
21	85.90	0.00	100.90	100.10	0.00	69.10	99.60	0.00	100.20	102.60	101.50	0.00	102.90		
22	83.50	0.00	100.60	99.80	0.00	68.60	100.60	0.00	100.10	102.80	101.60	0.00	102.80		
23	64.70	0.00	99.10	100.00	0.00	52.30	99.30	0.00	100.10	102.20	101.40	0.00	102.60		
24	46.10	0.00	99.70	99.80	0.00	44.60	99.10	0.00	99.80	101.90	101.50	0.00	102.60		

29 MAR 2003

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

29 MAR 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	LITTLE GOOSE	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.		
1	2.20	0.00	96.30	101.40	100.00	95.80	20.00	0.00	100.70	99.90	17.50	0.00	101.00	99.50	
2	2.30	0.00	96.40	101.20	99.90	95.50	20.00	0.00	100.50	99.80	19.00	0.00	100.90	99.60	
3	2.20	0.00	96.50	101.10	99.70	95.40	19.90	0.00	100.40	99.70	17.50	0.00	100.60	99.70	
4	2.30	0.00	96.50	101.00	99.50	95.30	20.20	0.00	100.40	99.70	18.90	0.00	100.60	99.80	
5	2.30	0.00	96.20	1.50	99.30	95.00	20.20	0.00	100.10	99.50	17.70	0.00	100.40	99.80	
6	2.20	0.00	96.20	100.80	99.10	94.70	41.10	0.00	99.90	99.50	17.90	0.00	100.40	99.80	
7	2.30	0.00	96.30	100.70	99.10	94.40	48.70	0.00	99.80	99.70	34.10	0.00	100.40	99.90	
8	2.20	0.00	96.80	100.70	99.20	94.20	48.50	0.00	99.70	99.90	49.60	0.00	100.00	100.20	
9	2.20	0.00	96.90	100.90	99.70	94.00	50.80	0.00	99.70	99.70	53.10	0.00	100.10	99.80	
10	2.20	0.00	97.50	101.20	100.30	94.00	50.40	0.00	99.60	99.70	53.30	0.00	100.10	100.20	
11	2.30	0.00	98.70	101.80	101.00	94.10	50.50	0.00	99.80	99.60	54.50	0.00	100.20	100.00	
12	2.20	0.00	99.40	102.10	101.60	94.40	51.80	0.00	99.80	99.60	59.70	0.00	100.20	100.30	
13	2.30	0.00	99.40	102.40	102.00	95.00	52.90	0.00	100.80	99.80	60.60	0.00	100.40	100.10	
14	2.20	0.00	99.60	102.70	102.30	95.60	49.00	0.00	101.00	99.80	62.20	0.00	100.60	100.30	
15	2.30	0.00	99.70	103.00	102.40	96.30	45.50	0.00	101.00	99.80	61.20	0.00	100.50	100.20	
16	2.20	0.00	99.50	103.20	102.30	96.60	46.00	0.00	102.50	99.80	63.00	0.00	101.20	100.30	
17	2.20	0.00	99.00	103.10	102.20	96.80	48.90	0.00	101.30	99.70	61.70	0.00	100.30	100.10	
18	2.20	0.00	97.80	103.00	102.00	96.70	54.30	0.00	101.50	99.70	68.30	0.00	100.40	100.10	
19	2.30	0.00	97.10	102.70	101.40	96.70	59.10	0.00	101.80	99.70	73.20	0.00	100.30	100.20	
20	2.20	0.00	96.90	102.50	101.30	96.80	55.90	0.00	101.80	99.60	77.20	0.00	100.30	99.90	
21	2.20	0.00	96.90	102.20	101.00	97.20	53.20	0.00	101.50	99.50	77.50	0.00	101.50	100.00	
22	2.20	0.00	96.70	101.90	100.90	97.70	49.50	0.00	100.70	99.50	73.30	0.00	101.40	99.90	
23	2.20	0.00	96.70	101.70	100.70	97.50	30.10	0.00	100.80	99.70	33.20	0.00	100.60	100.00	
24	2.20	0.00	96.80	101.70	100.60	97.20	29.20	0.00	100.60	99.70	31.10	0.00	101.00	100.00	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO				
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	PASCO	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	GAS %SAT		
1	22.40	0.00	99.80	99.60	0.00	99.50	99.40	184.70	0.00	99.80	101.80	101.50	0.00	102.60		
2	15.70	0.00	100.00	99.70	13.90	0.00	99.70	99.30	185.10	0.00	99.80	101.70	101.50	0.00	102.50	
3	13.90	0.00	100.00	99.60	12.00	0.00	99.40	99.30	167.80	0.00	99.70	101.70	101.50	0.00	102.40	
4	13.60	0.00	99.80	99.50	12.00	0.00	99.30	99.00	166.00	0.00	99.80	101.60	101.50	0.00	102.30	
5	13.60	0.00	99.70	99.40	12.30	0.00	99.20	99.40	166.60	0.00	99.60	101.60	101.50	0.00	102.20	
6	14.20	0.00	99.60	99.60	12.90	0.00	99.10	100.10	166.20	0.00	99.60	101.40	101.40	0.00	102.10	
7	22.80	0.00	99.40	99.80	18.00	0.00	99.10	100.20	167.60	0.00	99.60	101.40	101.60	0.00	102.10	
8	34.60	0.00	99.40	99.70	23.60	0.00	99.20	100.10	170.40	0.00	99.70	101.40	101.60	0.00	102.00	
9	48.80	0.00	99.30	99.70	34.60	0.00	99.40	100.20	174.40	0.00	100.10	101.50	101.50	0.00	102.20	
10	53.80	0.00	98.90	100.10	48.50	0.00	99.80	100.10	176.70	0.00	101.30	101.70	101.70	0.00	102.50	
11	55.10	0.00	99.40	100.10	55.60	0.00	100.10	99.90	175.10	0.00	101.40	101.70	101.80	0.00	102.90	
12	62.90	0.00	99.20	100.60	61.10	0.00	100.40	100.70	174.10	0.00	102.60	102.20	101.90	0.00	103.20	
13	65.30	0.00	99.00	101.50	62.10	0.00	99.60	99.90	173.60	0.00	102.50	102.90	102.20	0.00	103.60	
14	67.70	0.00	99.20	101.00	64.80	0.00	99.70	100.00	173.90	0.00	103.50	104.00	102.30	0.00	104.00	
15	68.00	0.00	99.20	101.10	65.40	0.00	99.60	100.10	174.20	0.00	103.00	104.20	102.30	0.00	104.20	
16	68.60	0.00	99.40	101.30	64.80	0.00	99.60	99.90	184.60	0.00	103.10	104.10	102.50	0.00	104.40	
17	69.40	0.00	99.80	101.30	67.10	0.00	99.70	99.90	193.20	0.00	102.40	104.70	102.40	0.00	104.40	
18	79.60	0.00	100.80	101.10	70.30	0.00	99.80	100.00	210.90	0.00	101.50	105.20	102.30	0.00	104.30	
19	83.50	0.00	100.70	101.00	74.70	0.00	100.30	100.10	222.00	0.00	100.70	105.70	102.30	0.00	104.20	
20	82.40	0.00	100.30	100.90	77.40	0.00	101.20	99.90	220.90	0.00	100.50	104.90	102.40	0.00	104.00	
21	82.20	0.00	100.30	100.70	79.00	0.00	101.20	99.90	218.10	0.00	100.40	104.90	102.20	0.00	103.90	
22	77.50	0.00	100.40	100.60	73.30	0.00	101.70	99.90	171.00	0.00	100.40	104.30	102.20	0.00	103.90	
23	68.90	0.00	100.60	100.70	68.80	0.00	99.90	100.10	169.00	0.00	100.40	103.60	102.30	0.00	103.80	
24	39.20	0.00	100.60	100.90	53.60	0.00	99.80	99.90	169.00	0.00	100.40	103.60	102.30	0.00	103.70	

30 MAR 2003

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

30 MAR 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.			
1	2.30	0.00	96.80	0.00	100.60	97.10	29.30	0.00	100.50	99.50	31.20	0.00	101.00	99.90	
2	2.20	0.00	96.80	101.50	100.30	96.90	29.00	0.00	100.50	99.60	30.80	0.00	101.20	99.90	
3	2.20	0.00	96.80	101.50	100.20	96.50	29.70	0.00	100.60	99.80	31.50	0.00	101.30	100.00	
4	2.20	0.00	96.70	101.10	100.00	96.30	29.20	0.00	100.80	99.90	30.90	0.00	101.70	100.10	
5	2.30	0.00	96.60	65.50	99.90	95.90	29.80	0.00	100.80	99.90	31.10	0.00	101.70	100.10	
6	2.20	0.00	96.80	0.00	99.70	95.60	47.70	0.00	100.70	99.90	31.70	0.00	101.20	100.10	
7	2.30	0.00	97.10	101.30	99.80	95.20	48.70	0.00	100.40	100.30	49.80	0.00	100.90	100.70	
8	2.20	0.00	97.50	101.30	100.00	95.00	49.10	0.00	100.30	100.50	49.80	0.00	101.00	100.30	
9	2.20	0.00	98.00	101.50	100.30	94.90	48.60	0.00	100.50	100.30	49.80	0.00	100.80	100.30	
10	2.20	0.00	98.40	101.80	100.90	95.10	48.40	0.00	100.70	100.10	49.90	0.00	100.90	100.50	
11	2.30	0.00	99.00	102.20	101.50	95.40	48.60	0.00	100.90	100.30	51.20	0.00	101.10	100.70	
12	2.20	0.00	99.50	102.80	102.20	96.10	50.40	0.00	101.30	100.40	54.00	0.00	101.40	100.80	
13	2.30	0.00	100.00	103.40	102.80	97.00	51.30	0.00	101.70	100.50	51.50	0.00	101.80	101.00	
14	2.20	0.00	100.10	103.80	103.40	98.00	50.70	0.00	101.80	100.70	51.70	0.00	101.30	101.00	
15	2.20	0.00	99.90	104.10	103.30	98.60	51.40	0.00	101.60	100.90	51.70	0.00	101.20	100.90	
16	2.30	0.00	98.70	104.20	103.20	99.20	53.10	0.00	102.30	101.00	52.40	0.00	101.00	100.90	
17	2.20	0.00	97.90	104.10	103.10	99.40	51.90	0.00	102.70	101.00	51.60	0.00	101.10	101.00	
18	2.20	0.00	97.30	104.10	102.60	99.40	30.80	0.00	102.70	100.80	51.50	0.00	101.00	100.90	
19	2.20	0.00	97.00	103.80	102.30	99.10	34.00	0.00	102.90	101.00	48.40	0.00	101.10	100.90	
20	2.20	0.00	96.80	103.40	102.00	99.00	33.40	0.00	102.60	100.80	50.60	0.00	101.10	100.80	
21	2.20	0.00	96.90	103.10	101.80	99.00	35.00	0.00	103.00	100.90	50.00	0.00	101.00	100.80	
22	2.20	0.00	96.80	6617.40	101.70	99.20	33.40	0.00	103.00	101.00	49.80	0.00	100.90	100.70	
23	2.20	0.00	98.20	102.80	101.40	99.60	32.60	0.00	102.80	101.00	49.80	0.00	100.80	100.70	
24	2.20	0.00	98.40	102.70	101.50	99.70	17.80	0.00	102.60	101.10	52.20	0.00	100.90	100.60	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.			
1	31.20	0.00	100.40	100.70	0.00	99.80	99.90	169.70	0.00	100.40	103.30	102.50	0.00	103.70	
2	30.30	0.00	100.60	100.60	31.60	0.00	100.50	99.90	169.30	0.00	100.30	103.50	102.50	0.00	103.60
3	30.20	0.00	100.60	100.50	29.60	0.00	100.40	100.10	169.60	0.00	100.40	103.70	102.70	0.00	103.50
4	30.10	0.00	100.20	100.50	29.70	0.00	100.40	100.50	169.50	0.00	100.40	103.70	102.80	0.00	103.50
5	31.30	0.00	100.40	100.50	29.30	0.00	100.20	100.40	169.90	0.00	100.40	103.80	102.80	0.00	103.50
6	30.90	0.00	100.30	100.50	28.60	0.00	100.30	100.40	170.80	0.00	100.40	103.70	103.00	0.00	103.40
7	32.40	0.00	100.20	100.70	30.10	0.00	100.10	100.40	215.50	0.00	100.50	103.60	102.90	0.00	103.40
8	49.20	0.00	100.30	102.80	46.10	0.00	100.30	100.50	222.40	0.00	100.60	103.60	103.20	0.00	103.60
9	48.20	0.00	100.50	101.00	47.20	0.00	100.60	100.50	209.40	0.00	101.00	103.70	103.30	0.00	103.80
10	48.50	0.00	100.40	101.30	47.70	0.00	100.80	100.60	208.40	0.00	101.90	103.90	103.40	0.00	103.90
11	50.00	0.00	100.50	101.80	51.30	0.00	100.80	100.80	204.00	0.00	102.50	104.10	103.60	0.00	104.20
12	50.60	0.00	100.60	102.30	51.60	0.00	100.70	101.00	205.00	0.00	104.30	105.00	103.90	0.00	104.70
13	50.70	0.00	100.80	102.60	53.60	0.00	100.90	101.20	202.70	0.00	104.60	104.70	104.00	0.00	105.00
14	61.10	0.00	101.10	102.90	61.80	0.00	101.00	101.60	202.40	0.00	104.00	105.80	104.30	0.00	105.20
15	60.70	0.00	101.10	103.10	63.80	0.00	101.00	101.40	184.70	0.00	102.10	105.70	104.40	0.00	105.50
16	61.10	0.00	101.60	103.00	62.30	0.00	101.10	101.20	183.20	0.00	101.60	105.60	104.50	0.00	105.40
17	61.30	0.00	101.90	103.20	62.30	0.00	101.20	101.20	183.60	0.00	101.70	105.60	104.40	0.00	105.40
18	62.50	0.00	101.20	103.20	62.50	0.00	101.20	101.20	183.80	0.00	101.90	105.40	104.30	0.00	105.20
19	61.40	0.00	101.20	103.00	59.30	0.00	101.40	101.20	182.20	0.00	104.60	105.50	104.10	0.00	105.20
20	65.10	0.00	101.80	102.90	60.10	0.00	101.60	101.20	170.50	0.00	104.60	105.40	104.00	0.00	104.90
21	66.70	0.00	101.90	102.80	59.20	0.00	101.60	101.30	169.50	0.00	102.00	105.10	104.00	0.00	104.70
22	65.80	0.00	102.00	103.00	59.30	0.00	101.60	101.40	169.50	0.00	102.00	105.20	104.00	0.00	104.60
23	65.80	0.00	102.20	103.00	59.40	0.00	101.70	101.40	168.70	0.00	102.00	104.90	103.90	0.00	104.70
24	50.50	0.00	102.20	103.10	59.40	0.00	101.80	101.50	169.00	0.00	102.60	104.80	104.00	0.00	104.70

31 MAR 2003

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

31 MAR 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	LITTLE GOOSE	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.		
1	2.20	0.00	98.40	102.60	101.60	99.50	16.50	0.00	102.20	101.10	50.10	0.00	100.90	100.80	
2	2.20	0.00	98.40	102.50	101.40	99.40	16.40	0.00	102.30	101.00	49.80	0.00	100.90	100.80	
3	2.20	0.00	98.40	102.40	101.20	99.20	16.40	0.00	102.20	101.10	38.80	0.00	100.90	100.80	
4	2.20	0.00	98.40	102.40	101.00	99.00	16.70	0.00	102.10	101.10	38.60	0.00	100.90	100.80	
5	2.30	0.00	98.60	102.30	100.90	98.90	29.50	0.00	102.40	101.20	35.50	0.00	101.10	101.10	
6	2.20	0.00	98.60	102.10	100.60	98.60	29.20	0.00	102.40	101.00	34.60	0.00	101.00	101.10	
7	2.30	0.00	98.70	102.00	100.60	98.20	29.00	0.00	102.10	101.00	34.50	0.00	101.10	100.90	
8	2.20	0.00	99.20	102.00	100.60	98.00	29.50	0.00	102.10	101.00	34.90	0.00	101.10	100.90	
9	2.20	0.00	99.30	102.00	100.60	97.80	36.00	0.00	102.40	101.10	35.90	0.00	100.90	101.20	
10	2.20	0.00	99.40	102.10	100.80	97.70	47.70	0.00	102.70	101.10	35.80	0.00	101.10	101.10	
11	2.20	0.00	99.60	102.30	100.80	97.80	53.40	0.00	103.70	101.10	64.10	0.00	101.30	101.40	
12	2.20	0.00	99.70	102.60	101.10	97.90	59.90	0.00	103.30	101.20	55.20	0.00	101.40	101.30	
13	2.20	0.00	99.80	103.00	101.20	98.10	61.00	0.00	103.40	101.40	54.60	0.00	101.60	101.40	
14	2.20	0.00	99.60	103.10	101.30	98.50	61.10	0.00	102.90	102.00	55.60	0.00	101.80	101.60	
15	2.20	0.00	99.50	103.20	101.30	98.50	60.60	0.00	102.80	102.20	54.30	0.00	101.80	101.70	
16	2.20	0.00	99.30	103.20	101.40	98.70	51.30	0.00	102.80	102.30	55.90	0.00	101.90	101.80	
17	3.00	0.00	99.40	103.00	101.30	99.00	49.80	0.00	102.80	102.20	54.10	0.00	102.00	101.80	
18	5.60	0.00	101.30	102.70	101.00	98.90	49.90	0.00	102.90	102.10	55.30	0.00	102.00	101.80	
19	5.70	0.00	103.00	102.60	101.00	98.80	51.60	0.00	103.00	101.90	54.40	0.00	102.00	101.60	
20	5.60	0.00	103.40	102.50	101.60	98.60	52.60	0.00	103.20	101.80	54.30	0.00	102.00	101.60	
21	5.70	0.00	103.40	102.30	101.60	98.30	50.20	0.00	103.50	101.80	54.10	0.00	102.00	101.60	
22	5.60	0.00	103.40	102.20	101.60	98.30	50.30	0.00	103.40	101.80	54.90	0.00	101.90	101.60	
23	5.60	0.00	103.40	102.10	101.60	98.90	50.80	0.00	103.40	102.00	53.80	0.00	102.10	101.60	
24	5.70	0.00	103.40	102.00	101.50	99.60	50.00	0.00	103.30	102.00	54.80	0.00	102.20	101.70	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	PASCO	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	GAS %SAT	
1	49.90	0.00	102.10	102.90	0.00	101.90	101.60	169.90	0.00	102.60	104.90	104.00	0.00	104.50	
2	49.90	0.00	102.00	102.90	0.00	101.90	101.60	169.80	0.00	102.40	104.70	104.10	0.00	104.50	
3	49.80	0.00	102.10	102.90	0.00	102.00	101.70	169.90	0.00	102.40	104.70	104.20	0.00	104.50	
4	52.00	0.00	102.20	103.10	0.00	102.00	101.80	170.10	0.00	102.40	104.70	104.20	0.00	104.50	
5	49.70	0.00	102.10	103.00	0.00	102.30	102.00	171.20	0.00	102.50	104.60	104.20	0.00	104.50	
6	49.80	0.00	101.90	102.90	0.00	101.90	101.90	171.40	0.00	102.60	104.90	104.40	0.00	104.50	
7	49.50	0.00	102.20	103.10	0.00	101.80	101.90	171.60	0.00	102.90	105.00	104.40	0.00	104.40	
8	35.20	0.00	102.20	103.00	0.00	101.90	102.40	175.70	0.00	102.70	105.00	104.40	0.00	104.40	
9	33.90	0.00	102.00	103.20	0.00	101.90	101.90	177.30	0.00	102.60	105.20	104.50	0.00	104.40	
10	34.20	0.00	102.30	103.30	0.00	102.00	101.80	175.30	0.00	102.80	105.50	104.60	0.00	104.40	
11	37.00	0.00	102.40	101.80	0.00	101.90	102.10	174.20	0.00	102.80	105.50	104.70	0.00	104.80	
12	65.30	0.00	102.50	103.80	0.00	102.10	102.20	173.60	0.00	102.90	105.60	104.70	0.00	105.10	
13	67.10	0.00	102.60	104.90	0.00	102.20	102.40	166.70	0.00	103.10	105.70	104.60	0.00	105.30	
14	65.30	0.00	102.70	104.90	0.00	102.40	102.40	166.10	0.00	103.20	105.60	104.60	0.00	105.50	
15	67.00	0.00	102.70	104.40	0.00	102.40	102.40	166.10	0.00	103.20	105.60	104.60	0.00	105.60	
16	65.40	0.00	102.70	104.00	0.00	102.50	102.50	166.30	0.00	103.30	105.70	104.50	0.00	105.60	
17	66.70	0.00	102.80	104.00	0.00	102.50	102.60	165.50	0.00	103.40	105.70	104.40	0.00	105.50	
18	65.80	0.00	102.80	103.90	0.00	102.50	102.60	165.80	0.00	103.50	105.60	104.30	0.00	105.40	
19	66.10	0.00	102.80	103.80	0.00	102.50	102.60	167.20	0.00	103.30	105.50	104.30	0.00	105.20	
20	66.20	0.00	102.70	103.70	0.00	102.30	102.30	165.10	0.00	103.20	105.50	104.20	0.00	105.20	
21	68.30	0.00	102.70	104.40	0.00	102.40	102.40	168.40	0.00	103.20	105.40	104.20	0.00	105.10	
22	67.80	0.00	102.70	103.80	0.00	102.40	102.40	169.20	0.00	103.20	105.20	104.20	0.00	105.10	
23	67.70	0.00	102.80	103.40	0.00	102.50	102.40	169.60	0.00	103.40	105.20	104.10	0.00	105.00	
24	64.90	0.00	102.80	103.40	0.00	102.50	102.50	167.50	0.00	103.50	105.20	104.00	0.00	105.10	

01 APR 2003

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

01 APR 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	LOWER GRANITE	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.		
1	5.60	0.00	103.50	101.90	101.40	99.70	34.00	0.00	103.40	102.10	20.80	0.00	102.20	101.90	
2	5.70	0.00	103.60	101.90	101.40	99.30	32.50	0.00	103.50	101.90	17.60	0.00	102.30	102.20	
3	5.60	0.00	103.50	101.80	101.30	99.10	32.70	0.00	103.50	101.90	17.50	0.00	102.30	102.20	
4	6.00	0.00	103.60	101.80	101.20	99.20	34.80	0.00	103.60	101.80	17.30	0.00	102.40	102.20	
5	8.00	0.00	101.70	101.60	101.10	98.90	33.10	0.00	103.70	102.10	18.00	0.00	102.40	102.10	
6	9.50	0.00	98.60	101.60	100.60	98.60	49.30	0.00	103.70	102.90	47.50	0.00	102.40	103.40	
7	9.60	0.00	97.70	0.00	99.50	98.20	64.60	0.00	103.50	103.30	68.70	0.00	102.40	102.60	
8	9.50	0.00	97.50	101.40	99.40	97.80	61.20	0.00	103.50	103.40	60.20	0.00	102.40	102.30	
9	9.60	0.00	97.60	101.40	99.40	97.10	61.30	0.00	103.60	103.30	60.90	0.00	102.30	102.20	
10	9.50	0.00	97.60	101.60	99.60	96.90	65.40	0.00	103.70	103.40	60.80	0.00	102.30	102.40	
11	9.60	0.00	97.80	101.80	99.80	95.80	66.60	0.00	103.90	103.60	62.00	0.00	102.40	102.40	
12	9.40	0.00	97.70	101.90	100.00	97.30	65.80	0.00	104.10	103.60	64.80	0.00	102.50	102.50	
13	9.60	0.00	97.90	102.20	100.20	97.90	66.30	0.00	104.20	103.90	65.00	0.00	102.60	102.60	
14	9.40	0.00	97.80	102.30	100.40	98.40	66.50	0.00	104.30	103.90	66.90	0.00	102.70	102.70	
15	9.60	0.00	97.90	102.60	100.60	98.80	76.40	0.00	104.50	104.00	75.10	0.00	102.70	102.90	
16	9.50	0.00	97.90	102.70	100.80	98.80	74.60	0.00	104.80	104.10	77.00	0.00	102.90	102.80	
17	9.60	0.00	97.90	102.90	100.70	98.70	76.50	0.00	105.20	104.20	75.30	0.00	102.90	102.90	
18	9.50	0.00	97.80	102.80	100.70	98.40	79.50	0.00	105.60	104.50	81.00	0.00	103.00	102.70	
19	9.70	0.00	97.60	102.60	100.60	98.20	77.30	0.00	105.80	104.30	81.20	0.00	102.90	102.60	
20	9.50	0.00	97.60	102.50	100.50	97.90	77.00	0.00	105.30	104.20	82.80	0.00	102.90	102.60	
21	9.60	0.00	97.80	102.30	100.50	97.90	78.60	0.00	105.10	104.30	82.40	0.00	102.90	102.70	
22	9.40	0.00	97.70	102.00	100.40	97.60	70.00	0.00	105.10	104.30	72.90	0.00	103.10	102.60	
23	9.60	0.00	97.70	102.00	100.30	97.20	67.70	0.00	105.10	104.40	72.90	0.00	103.10	102.70	
24	9.50	0.00	97.60	101.80	100.30	97.00	68.30	0.00	105.10	104.40	75.10	0.00	103.10	102.90	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB	WA TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB	GAS %SAT	
1	19.80	0.00	102.90	103.50	0.00	102.50	102.50	0.00	103.40	105.10	103.90	0.00	105.00		
2	17.10	0.00	102.90	103.60	22.00	0.00	102.40	102.50	0.00	103.50	105.10	104.00	0.00	105.00	
3	17.10	0.00	103.00	103.80	21.80	0.00	102.40	102.60	0.00	103.50	105.10	103.90	0.00	104.90	
4	16.90	0.00	103.00	103.60	21.10	0.00	102.50	102.80	0.00	103.50	105.00	104.00	0.00	104.90	
5	17.80	0.00	103.00	103.70	21.00	0.00	102.40	102.80	0.00	103.40	105.00	103.90	0.00	104.80	
6	34.30	0.00	103.10	103.70	21.30	0.00	102.50	102.80	0.00	103.70	104.80	103.90	0.00	104.80	
7	64.80	0.00	103.00	103.50	30.00	0.00	102.50	102.70	0.00	103.60	104.80	103.90	0.00	104.60	
8	66.40	0.00	103.00	103.50	47.40	0.00	102.80	103.20	0.00	103.60	104.90	103.90	0.00	104.50	
9	66.30	0.00	102.90	103.70	44.70	0.00	102.60	103.00	0.00	103.60	104.90	104.00	0.00	104.60	
10	66.60	0.00	102.90	103.90	45.80	0.00	102.70	102.90	0.00	103.60	105.00	104.20	0.00	104.80	
11	66.70	0.00	103.00	104.00	44.50	0.00	102.70	102.90	0.00	104.00	105.10	104.30	0.00	105.00	
12	68.30	0.00	102.90	104.30	44.80	0.00	102.70	103.10	0.00	104.20	105.10	104.50	0.00	105.40	
13	69.50	0.00	103.00	104.60	47.50	0.00	102.70	103.10	0.00	104.40	105.20	104.60	0.00	105.90	
14	68.30	0.00	103.20	104.30	62.90	0.00	103.00	103.20	0.00	104.50	105.60	104.80	0.00	106.30	
15	68.10	0.00	103.20	104.50	62.90	0.00	103.00	103.10	0.00	104.50	105.60	104.80	0.00	106.60	
16	68.20	0.00	103.20	104.70	63.10	0.00	103.00	103.10	0.00	104.50	105.60	104.70	0.00	106.70	
17	73.80	0.00	103.20	104.40	73.10	0.00	103.00	103.00	0.00	104.60	105.60	104.70	0.00	106.70	
18	84.60	0.00	103.40	105.20	90.00	0.00	103.00	103.00	0.00	104.50	105.50	104.70	0.00	106.40	
19	81.80	0.00	103.30	104.10	89.00	0.00	103.00	103.10	0.00	104.50	105.40	104.60	0.00	106.10	
20	80.30	0.00	103.20	103.90	88.80	0.00	103.00	103.10	0.00	104.60	105.40	104.60	0.00	105.90	
21	79.00	0.00	103.20	103.90	88.80	0.00	103.00	103.00	0.00	104.50	105.40	104.50	0.00	105.70	
22	74.30	0.00	103.20	103.90	85.60	0.00	103.10	103.00	0.00	104.50	105.40	104.50	0.00	105.50	
23	74.10	0.00	103.20	103.70	85.40	0.00	103.00	103.60	0.00	104.50	105.40	104.50	0.00	105.40	
24	75.20	0.00	103.10	103.70	83.70	0.00	103.00	103.00	0.00	104.50	105.50	104.50	0.00	105.20	

02 APR 2003

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

02 APR 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	LITTLE GOOSE	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.		
1	9.60	0.00	97.70	101.70	100.10	96.70	62.50	0.00	105.10	104.10	68.10	0.00	103.10	102.80	
2	9.50	0.00	97.60	101.70	100.00	96.50	62.80	0.00	105.10	104.20	68.40	0.00	103.30	102.90	
3	9.50	0.00	97.60	101.60	99.90	96.10	61.80	0.00	105.30	104.30	70.40	0.00	103.20	102.90	
4	9.60	0.00	97.70	101.50	99.80	95.90	62.40	0.00	105.20	104.20	69.00	0.00	103.10	102.90	
5	9.50	0.00	97.70	101.50	99.70	95.60	68.00	0.00	105.10	104.30	71.20	0.00	103.10	102.90	
6	9.60	0.00	97.60	101.30	99.60	95.40	79.60	0.00	104.90	104.40	82.10	0.00	103.20	102.80	
7	9.50	0.00	97.80	101.20	99.50	95.00	75.50	0.00	104.90	104.50	86.10	0.00	103.10	103.30	
8	9.60	0.00	97.70	101.20	99.40	94.70	76.70	0.00	104.80	104.40	86.80	0.00	103.00	102.70	
9	9.50	0.00	97.70	101.20	99.40	94.50	75.50	0.00	104.70	104.30	88.90	0.00	103.00	102.60	
10	9.50	0.00	97.60	101.20	99.50	94.50	75.40	0.00	104.70	104.30	88.60	0.00	102.90	102.60	
11	9.60	0.00	97.70	101.30	99.50	94.50	75.40	0.00	104.60	104.30	87.00	0.00	102.80	102.70	
12	9.50	0.00	97.80	101.40	99.80	94.40	75.60	0.00	104.60	104.30	87.70	0.00	102.90	102.80	
13	9.60	0.00	97.80	101.40	99.90	94.30	75.60	0.00	104.60	0.00	89.10	0.00	102.90	102.80	
14	9.40	0.00	97.90	101.70	99.80	94.40	75.40	0.00	104.90	0.00	87.70	0.00	102.90	102.90	
15	9.60	0.00	97.70	101.80	100.00	94.40	75.40	0.00	105.00	0.00	87.70	0.00	102.90	102.70	
16	9.40	0.00	97.40	101.90	100.00	94.20	76.60	0.00	105.00	0.00	87.90	0.00	102.90	102.70	
17	9.60	0.00	97.20	101.80	99.80	94.20	74.90	0.00	104.80	0.00	88.00	0.00	102.90	102.70	
18	9.50	0.00	97.20	101.80	99.80	94.20	68.00	0.00	104.70	0.00	89.90	0.00	102.90	102.50	
19	9.60	0.00	97.10	101.60	99.70	94.10	64.30	0.00	104.50	0.00	87.50	0.00	102.80	102.50	
20	9.40	0.00	97.10	101.50	99.50	94.20	68.30	0.00	104.20	0.00	69.00	0.00	102.70	102.30	
21	9.60	0.00	97.00	101.40	99.50	94.40	69.30	0.00	103.90	0.00	65.10	0.00	102.50	102.20	
22	9.40	0.00	96.90	101.20	99.20	94.40	68.90	0.00	103.80	0.00	65.20	0.00	102.40	102.10	
23	9.60	0.00	96.90	101.10	99.20	94.50	53.80	0.00	103.70	0.00	41.60	0.00	102.40	102.30	
24	9.40	0.00	97.00	101.10	99.10	94.40	52.90	0.00	103.60	0.00	30.90	0.00	102.30	102.00	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	PASCO	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.		
1	71.70	0.00	103.10	103.60	0.00	103.00	103.00	173.40	0.00	104.40	105.60	104.40	0.00	105.10	
2	70.90	0.00	103.20	103.60	0.00	103.10	102.90	173.80	0.00	104.30	105.60	104.50	0.00	105.00	
3	71.10	0.00	103.10	103.50	0.00	103.10	103.00	174.00	0.00	104.30	105.60	104.40	0.00	104.90	
4	71.30	0.00	103.00	103.70	0.00	103.00	103.10	174.90	0.00	104.30	105.50	104.40	0.00	104.90	
5	68.40	0.00	103.00	103.50	0.00	102.90	102.90	174.70	0.00	104.20	105.20	104.20	0.00	104.70	
6	79.40	0.00	103.10	103.30	0.00	102.90	102.90	174.90	0.00	104.00	105.20	104.20	0.00	104.70	
7	84.70	0.00	103.00	103.30	0.00	102.80	102.80	161.80	0.00	103.90	105.10	104.00	0.00	104.50	
8	89.40	0.00	102.90	103.20	0.00	102.80	102.80	161.90	0.00	103.90	105.10	104.00	0.00	104.40	
9	99.00	0.00	102.60	103.00	0.00	102.80	102.80	161.70	0.00	103.90	105.00	103.90	0.00	104.30	
10	98.40	0.00	102.70	103.30	0.00	102.90	102.90	160.80	0.00	103.90	105.00	103.90	0.00	104.40	
11	98.40	0.00	102.50	103.20	0.00	103.00	103.00	160.90	0.00	103.90	105.00	104.00	0.00	104.70	
12	98.90	0.00	102.50	103.40	0.00	103.10	103.00	164.20	0.00	103.90	104.90	104.00	0.00	104.80	
13	98.90	0.00	102.40	103.40	0.00	103.10	103.20	171.30	0.00	104.10	104.80	103.90	0.00	105.20	
14	99.60	0.00	102.40	103.50	0.00	103.10	103.20	169.30	0.00	104.30	104.80	103.90	0.00	105.60	
15	101.50	0.00	102.40	103.50	0.00	103.20	103.20	169.60	0.00	104.40	104.80	103.90	0.00	105.70	
16	104.40	0.00	102.40	103.40	0.00	103.20	103.20	171.40	0.00	105.10	104.60	103.90	0.00	105.90	
17	105.30	0.00	102.20	103.50	0.00	103.20	103.20	170.50	0.00	104.60	104.60	103.80	0.00	105.80	
18	105.90	0.00	102.30	103.30	0.00	103.20	103.00	170.20	0.00	104.50	104.50	103.70	0.00	105.70	
19	105.40	0.00	102.40	102.90	0.00	103.00	103.00	171.20	0.00	104.00	104.40	103.60	0.00	105.30	
20	90.20	0.00	102.30	102.70	0.00	102.90	102.80	170.50	0.00	103.90	104.20	103.30	0.00	105.00	
21	90.60	0.00	102.10	102.50	0.00	102.80	102.80	169.80	0.00	103.70	104.10	103.30	0.00	104.60	
22	69.80	0.00	102.00	102.60	0.00	102.70	102.70	168.70	0.00	103.50	104.00	103.20	0.00	104.30	
23	49.10	0.00	102.00	102.50	0.00	102.70	102.50	169.90	0.00	103.40	103.90	103.20	0.00	104.00	
24	31.30	0.00	101.90	102.20	0.00	102.60	102.30	172.10	0.00	103.40	103.90	103.10	0.00	103.70	

03 APR 2003

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

03 APR 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB %SAT.	TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB %SAT.	TAILW.	
1	14.00	4.30	105.00	100.90	99.00	94.40	54.70	0.00	103.30	0.00	29.30	0.00	102.20	101.80	
2	14.00	4.30	106.20	100.90	101.50	94.50	68.10	0.00	103.10	0.00	24.20	0.00	102.30	101.90	
3	13.70	4.20	105.80	100.90	101.70	94.30	72.00	0.00	103.00	0.00	21.30	0.00	102.10	101.80	
4	13.80	4.30	105.20	100.80	101.30	94.10	74.00	0.00	102.70	0.00	21.40	0.00	102.10	101.80	
5	14.00	4.40	105.20	100.70	101.20	94.50	82.90	0.00	102.60	0.00	20.00	0.00	102.00	101.60	
6	13.80	4.30	105.10	100.70	101.10	94.60	80.40	0.00	102.40	0.00	20.70	0.00	102.00	101.60	
7	14.00	4.40	105.20	100.70	101.10	94.30	80.50	0.00	102.20	0.00	38.80	0.00	102.00	101.80	
8	13.80	4.30	105.10	100.80	101.20	94.20	90.60	0.00	102.20	0.00	60.60	0.00	101.90	101.60	
9	13.80	4.30	105.30	100.90	101.50	94.30	90.70	0.00	101.90	0.00	65.30	0.00	101.90	102.30	
10	14.00	4.40	105.40	101.00	101.80	94.20	83.00	0.00	101.90	0.00	62.20	0.00	101.90	101.70	
11	14.70	5.20	106.70	101.30	102.10	94.10	81.70	0.00	102.10	0.00	63.20	0.00	101.80	101.80	
12	15.00	5.40	106.90	101.60	102.60	94.60	81.80	0.00	101.90	0.00	55.40	0.00	101.80	101.70	
13	14.80	5.30	106.80	101.90	102.70	94.70	74.90	0.00	101.80	0.00	55.10	0.00	101.80	101.90	
14	15.00	5.40	107.00	101.90	102.80	94.90	60.80	0.00	101.90	102.00	55.20	0.00	101.80	101.80	
15	14.80	5.30	107.00	102.00	102.80	95.00	56.40	0.00	101.70	101.60	56.70	0.00	101.80	101.80	
16	14.80	5.30	106.90	102.20	103.00	95.00	56.40	0.00	101.40	101.40	68.30	0.00	101.80	101.70	
17	15.10	5.40	106.90	102.20	103.10	95.00	56.10	0.00	101.30	101.30	69.60	0.00	101.70	101.50	
18	14.80	5.30	106.70	102.10	102.90	95.20	57.80	1.30	101.20	101.20	85.10	0.00	101.70	101.80	
19	14.80	5.30	106.70	102.00	102.80	95.50	87.90	40.40	101.20	115.10	91.50	0.00	101.70	101.50	
20	15.10	5.40	106.60	101.90	102.80	95.30	95.70	40.40	101.00	116.80	93.50	0.00	101.60	101.30	
21	14.80	5.30	106.70	101.70	102.60	95.30	96.30	40.30	101.10	117.80	92.10	0.00	101.60	101.30	
22	15.10	5.40	106.70	6513.00	102.60	95.30	97.50	41.00	100.90	118.00	91.20	0.00	101.60	101.30	
23	14.80	5.30	106.70	101.60	102.60	95.20	75.80	40.30	100.90	118.40	70.20	0.00	101.60	101.30	
24	15.10	5.40	106.70	101.50	102.40	95.10	74.50	40.30	100.80	118.80	52.30	0.00	101.60	101.40	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO				
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS FB %SAT.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB %SAT.	TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB %SAT.	WA TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB %SAT.	SAT	
1	29.00	0.00	101.90	102.10	0.00	102.40	102.30	173.90	0.00	103.20	103.80	103.10	0.00	103.60		
2	27.40	0.00	101.80	102.00	24.70	0.00	102.40	102.30	173.60	0.00	103.20	103.80	103.00	0.00	103.20	
3	27.60	0.00	101.90	101.90	23.70	0.00	102.40	102.10	173.80	0.00	103.00	103.80	102.90	0.00	103.20	
4	27.10	0.00	101.70	101.80	23.60	0.00	102.30	102.10	174.30	0.00	102.80	103.60	102.90	0.00	103.10	
5	27.00	0.00	101.70	101.70	19.90	0.00	102.20	102.20	174.90	0.00	102.80	103.70	102.80	0.00	103.00	
6	27.10	0.00	101.60	101.60	19.40	0.10	102.20	102.20	173.30	0.00	102.60	103.50	102.70	0.00	102.80	
7	30.30	0.00	101.60	101.70	20.90	0.10	102.10	102.10	171.60	0.00	102.60	103.50	102.60	0.00	102.80	
8	51.90	0.00	101.60	101.80	38.40	0.00	102.30	102.20	173.10	0.00	102.50	103.30	102.40	0.00	102.60	
9	61.10	0.00	101.60	101.80	49.40	0.00	102.10	102.50	173.00	0.00	102.50	103.30	102.40	0.00	102.70	
10	60.20	0.00	101.50	102.00	50.90	0.00	102.20	102.30	172.30	0.00	102.60	103.10	102.40	0.00	102.90	
11	60.30	0.00	101.50	102.10	51.50	0.10	102.10	102.40	172.40	0.00	102.60	103.10	102.40	0.00	103.10	
12	56.60	0.00	101.50	102.10	50.00	0.10	102.30	102.40	172.00	0.00	102.60	103.10	102.40	0.00	103.50	
13	57.20	0.00	101.50	102.80	40.90	0.00	102.20	102.60	172.50	0.00	102.60	103.10	102.40	0.00	103.90	
14	46.20	0.00	101.60	102.50	33.20	0.00	102.30	102.40	173.20	0.90	102.60	103.20	102.40	0.00	104.00	
15	48.10	0.00	101.60	103.10	33.80	0.00	102.20	102.40	172.70	0.00	102.60	103.00	103.10	0.00	104.20	
16	45.80	0.00	101.60	102.50	33.40	0.00	102.20	102.30	172.80	0.00	102.60	103.10	103.00	0.00	104.00	
17	46.10	0.00	101.60	104.30	46.90	0.00	102.20	102.30	173.40	0.00	102.60	103.10	102.90	0.00	103.80	
18	69.70	0.00	101.60	103.30	56.90	0.00	102.20	102.40	173.00	0.00	102.50	103.10	102.80	0.00	103.50	
19	87.90	0.00	101.60	102.30	74.90	0.00	102.10	102.00	173.80	0.00	102.50	103.10	102.60	0.00	103.30	
20	91.50	0.00	101.50	102.30	77.40	0.00	101.90	101.90	173.10	0.00	102.30	103.10	102.50	0.00	103.10	
21	92.80	0.00	101.50	102.10	75.70	0.00	101.90	101.90	172.70	0.00	102.40	103.10	102.30	0.00	102.80	
22	90.20	0.00	101.40	102.10	88.30	0.00	101.80	101.80	172.20	0.00	102.40	102.90	102.30	0.00	102.70	
23	69.80	0.00	101.40	101.90	89.00	0.20	101.80	101.80	170.90	0.00	102.30	103.10	102.20	0.00	102.70	
24	53.40	0.00	101.30	101.80	73.90	0.10	101.80	101.80	170.30	0.00	102.30	102.90	102.20	0.00	102.50	

04 APR 2003

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

04 APR 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	LOWER GRANITE	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.		
1	15.70	6.20	108.40	101.40	102.50	95.10	78.70	40.20	100.60	118.50	50.30	0.00	101.60	101.40	
2	15.70	6.20	108.40	101.40	103.20	95.00	81.10	41.00	100.50	118.70	51.70	0.00	101.60	101.40	
3	16.00	6.30	108.30	101.20	103.00	94.80	79.90	40.30	100.60	118.70	69.90	0.00	101.60	101.40	
4	15.70	6.20	108.10	101.10	103.00	94.90	80.10	40.20	100.60	118.50	79.90	0.00	101.50	101.30	
5	15.70	6.20	108.10	101.10	102.80	94.90	79.90	40.20	101.10	118.60	77.30	0.00	101.40	101.20	
6	16.00	6.30	108.20	101.00	102.80	94.90	81.10	39.20	100.80	118.60	75.80	0.00	101.50	101.20	
7	15.70	6.20	108.20	100.90	102.70	95.00	68.20	1.60	100.10	103.40	72.30	0.00	101.50	101.20	
8	15.90	6.30	108.40	101.00	102.90	95.00	67.80	0.00	100.40	101.80	72.10	0.00	101.50	101.40	
9	15.70	6.20	108.20	101.20	103.20	95.10	63.70	0.00	100.30	101.10	75.90	0.00	101.70	101.50	
10	15.70	6.20	108.30	101.40	103.60	95.30	63.20	0.00	100.50	100.70	74.30	0.00	102.00	101.70	
11	16.50	6.80	109.50	101.80	103.90	95.80	61.50	0.00	100.70	100.80	65.00	0.00	101.90	101.80	
12	16.20	6.70	109.40	102.30	104.50	96.40	70.60	0.00	100.90	100.70	64.80	0.00	101.80	101.90	
13	16.50	6.90	109.70	102.50	104.70	96.70	70.80	0.00	100.70	100.20	64.50	0.00	101.80	101.90	
14	16.20	6.70	109.70	102.70	104.90	97.00	66.40	0.00	100.90	100.30	52.20	0.00	102.00	102.00	
15	15.90	6.40	108.50	102.80	104.80	96.60	66.30	0.00	101.40	100.30	50.80	0.00	102.00	102.00	
16	16.20	6.50	108.30	102.70	104.20	97.40	67.50	0.00	101.40	100.30	50.80	0.00	102.00	102.00	
17	15.90	6.40	108.20	102.40	104.20	97.50	60.80	0.00	101.20	100.00	59.50	0.00	102.00	101.90	
18	16.20	6.50	108.20	1.50	104.10	97.20	61.80	2.00	100.80	100.00	65.50	0.00	102.00	101.90	
19	15.90	6.40	108.10	102.20	104.00	96.70	70.10	40.40	100.60	115.20	65.30	0.00	101.90	101.80	
20	15.90	6.40	108.00	102.00	104.00	96.60	72.30	41.10	100.50	117.00	79.90	0.00	102.00	102.00	
21	16.20	6.50	108.00	102.00	103.80	96.70	71.20	40.40	100.70	118.10	80.80	0.00	102.00	101.70	
22	15.90	6.40	108.00	101.90	103.80	96.50	71.30	40.40	101.00	118.50	82.30	0.00	101.90	101.80	
23	16.20	6.50	107.90	101.70	103.70	96.50	71.40	40.40	100.60	118.80	81.50	0.00	101.90	101.60	
24	15.90	6.40	107.90	101.70	103.60	96.20	72.60	41.10	100.40	118.60	81.10	0.00	101.90	101.60	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	MCNARY	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	PASCO	
1	52.40	0.00	101.40	101.50	0.10	101.80	101.70	170.20	0.00	102.20	102.90	102.20	0.00	102.40	
2	38.90	0.00	101.30	101.50	58.10	0.10	101.70	101.60	171.10	0.00	102.20	103.00	102.20	0.00	102.40
3	40.40	0.00	101.30	101.40	56.80	0.10	101.70	101.60	173.60	0.00	102.20	103.00	102.00	0.00	102.30
4	64.80	0.00	101.30	101.30	52.80	0.20	101.70	101.50	173.70	0.00	102.00	102.80	102.00	0.00	102.10
5	78.50	0.00	101.30	101.40	57.10	0.20	101.70	101.50	174.20	0.00	102.00	102.80	102.00	0.00	102.10
6	85.10	0.00	101.20	101.40	73.80	0.10	101.60	101.50	175.20	0.00	102.00	102.80	101.90	0.00	102.00
7	81.00	0.00	101.30	101.40	56.70	0.20	101.60	101.50	175.40	0.00	102.00	102.80	102.00	0.00	102.00
8	80.90	0.00	101.40	101.50	72.50	0.10	101.70	101.60	176.10	0.00	102.00	102.80	102.00	0.00	102.20
9	76.40	0.00	101.50	101.80	91.00	0.10	102.10	101.70	175.90	0.00	102.00	102.80	102.00	0.00	102.50
10	77.10	0.00	101.70	102.20	60.40	0.10	102.40	102.00	175.50	0.00	102.10	102.90	102.00	0.00	102.90
11	75.60	0.00	102.40	102.40	55.60	0.00	102.30	102.00	174.80	0.00	103.10	102.90	102.00	0.00	103.40
12	66.30	0.00	101.60	102.80	55.60	0.00	102.10	102.20	174.30	0.00	103.80	102.90	102.20	0.00	104.00
13	65.60	0.00	101.50	102.90	53.90	0.00	102.00	102.20	173.80	0.00	104.60	103.00	102.20	0.00	104.40
14	65.60	0.00	101.50	103.00	40.40	0.00	101.90	102.30	174.30	0.00	105.20	103.00	102.30	0.00	104.80
15	65.90	0.00	101.50	103.00	39.50	0.00	101.80	102.40	173.70	0.00	105.90	103.20	102.30	0.00	105.20
16	66.00	0.00	101.50	102.90	39.60	0.00	101.60	102.30	174.50	0.00	106.00	103.00	102.30	0.00	105.50
17	62.10	0.00	101.50	103.00	39.70	0.00	101.70	102.20	174.10	0.00	105.70	102.90	102.20	0.00	105.20
18	61.20	0.00	101.70	102.90	54.60	0.00	101.60	101.90	174.60	0.00	105.40	102.90	102.20	0.00	104.90
19	61.40	0.00	102.60	102.60	67.30	0.00	101.60	101.80	175.20	0.00	103.20	102.70	101.90	0.00	104.80
20	75.40	0.00	102.50	102.30	81.00	0.00	101.40	101.90	175.30	0.00	103.60	102.50	101.90	0.00	104.50
21	79.90	0.00	102.40	102.10	80.60	0.00	102.00	101.50	175.40	0.00	103.10	102.40	101.60	0.00	104.30
22	80.00	0.00	102.20	102.10	80.50	0.00	101.80	101.50	174.90	0.00	102.90	102.30	101.60	0.00	104.30
23	80.50	0.00	102.10	101.90	80.70	0.00	101.60	101.50	174.80	0.00	102.90	102.20	101.60	0.00	104.10
24	78.20	0.00	101.70	101.90	80.90	0.00	101.70	101.50	173.90	0.00	102.90	102.10	101.50	0.00	103.90

05 APR 2003

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

05 APR 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	LOWER GRANITE	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	LOWER GRANITE	LITTLE GOOSE
1	15.90	6.40	107.90	101.60	103.40	96.10	77.00	40.40	100.20	118.60	82.50	0.00	101.90	101.60	
2	16.20	6.50	108.10	101.50	103.20	96.00	75.20	40.40	99.90	118.40	82.50	0.00	101.80	101.50	
3	15.90	6.40	107.90	101.50	103.20	96.00	75.00	40.40	99.80	118.50	84.20	0.00	101.90	101.60	
4	16.20	6.50	107.90	101.40	103.00	96.00	74.70	40.40	99.60	118.70	83.50	0.00	102.00	101.60	
5	15.90	6.40	107.80	101.40	103.00	96.00	75.30	41.10	99.40	118.70	84.40	0.00	101.90	101.60	
6	15.90	6.40	107.80	101.30	103.00	95.90	72.00	37.20	99.40	118.80	83.40	0.00	101.80	101.50	
7	16.20	6.50	108.10	101.30	102.90	95.70	69.80	0.00	99.30	103.70	86.70	0.00	101.80	101.60	
8	15.90	6.40	108.10	101.30	103.00	95.70	70.70	0.00	99.20	100.80	83.80	0.00	101.90	101.60	
9	16.00	6.50	108.30	101.40	103.20	95.70	74.30	0.00	99.20	100.60	83.70	0.00	101.90	101.60	
10	16.30	6.60	108.40	101.60	103.30	96.10	73.30	0.00	99.30	100.00	83.50	0.00	101.90	101.80	
11	16.00	6.50	108.40	101.70	103.50	96.40	73.70	0.00	99.30	99.70	83.80	0.00	102.00	101.80	
12	16.30	6.60	108.80	23.50	103.80	96.90	73.50	0.00	99.40	99.60	85.10	0.00	102.00	101.80	
13	16.00	6.50	108.40	102.20	103.90	96.80	66.50	0.00	99.40	100.00	82.20	0.00	102.10	102.00	
14	16.30	6.60	108.70	0.00	104.00	96.80	62.40	0.00	99.50	99.90	74.40	0.00	102.10	102.10	
15	16.00	6.50	108.40	102.70	104.20	97.00	60.70	0.00	99.50	99.90	71.20	0.00	102.20	101.90	
16	16.20	6.60	108.50	102.70	104.20	97.00	54.40	0.00	99.40	100.00	71.30	0.00	102.10	101.90	
17	16.00	6.50	108.30	102.60	104.20	97.10	54.10	0.00	99.50	99.80	61.60	0.00	102.10	101.90	
18	16.00	6.50	-999.00	-999.00	-999.00	-999.00	56.10	1.50	-999.00	-999.00	61.70	0.80	-999.00	-999.00	
19	16.30	6.60	-999.00	-999.00	-999.00	-999.00	69.20	39.20	-999.00	-999.00	78.10	39.00	-999.00	-999.00	
20	16.00	6.50	108.20	102.30	103.70	97.30	69.00	40.30	99.60	114.90	78.40	39.80	102.10	114.00	
21	16.00	6.50	108.20	102.10	103.70	97.10	69.00	40.30	99.80	117.50	76.90	39.10	102.10	115.60	
22	16.30	6.60	108.00	102.00	103.70	97.40	72.30	40.30	99.80	118.70	73.10	39.00	102.00	115.90	
23	16.00	6.50	108.20	101.90	103.60	97.40	66.70	41.10	99.90	118.60	65.70	39.10	102.10	116.20	
24	16.20	6.60	108.20	101.80	103.50	97.30	65.10	40.30	100.00	118.80	66.50	39.70	102.00	116.70	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO				
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	MCNARY	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	PASCO		
	KCFS	KCFS		KCFS	KCFS		KCFS	KCFS			KCFS	KCFS			%SAT	
1	84.70	0.00	101.70	101.90	0.00	101.60	101.40	173.80	0.00	102.30	102.10	101.40	0.00	103.90		
2	84.70	0.00	101.50	101.90	89.40	0.00	101.40	101.30	174.00	0.00	101.70	102.10	101.40	0.00	103.80	
3	84.50	0.00	101.10	101.80	89.30	0.00	101.40	101.20	174.20	0.00	101.70	102.10	101.30	0.00	103.50	
4	87.70	0.00	101.10	101.70	89.40	0.00	101.40	101.20	174.80	0.00	101.70	102.10	101.30	0.00	103.40	
5	87.50	0.00	101.10	101.70	89.30	0.00	101.30	101.20	175.40	0.00	101.50	102.00	101.10	0.00	103.10	
6	89.20	0.00	101.00	101.40	82.80	0.00	101.10	101.10	175.40	0.00	101.30	102.00	101.10	0.00	103.10	
7	87.50	0.00	101.00	101.60	82.10	0.00	101.00	101.00	175.10	0.00	101.20	102.00	101.10	0.00	102.90	
8	89.00	0.00	101.00	101.60	83.90	0.00	100.90	101.00	174.30	0.00	101.20	102.00	101.10	0.00	102.90	
9	90.60	0.00	101.00	101.60	85.50	0.00	100.90	101.00	173.70	0.00	101.20	102.00	101.10	0.00	103.00	
10	90.80	0.00	101.00	101.90	85.40	0.00	101.00	101.40	173.70	0.00	101.30	102.00	101.10	0.00	103.20	
11	92.40	0.00	101.20	102.10	85.60	0.00	101.20	101.30	173.00	0.00	101.40	102.00	101.30	0.00	103.60	
12	92.40	0.00	101.10	102.20	87.30	0.00	101.10	101.30	172.60	0.00	101.40	102.00	101.20	0.00	103.80	
13	90.90	0.00	101.10	102.30	85.60	0.00	101.10	101.20	172.90	0.00	101.60	102.10	101.30	0.00	104.10	
14	88.70	0.00	101.20	102.40	87.20	0.00	101.30	101.30	172.90	0.00	101.60	101.90	101.30	0.00	104.20	
15	86.30	0.00	101.10	102.30	86.00	0.00	101.20	101.40	172.50	0.00	101.60	102.00	101.30	0.00	104.40	
16	81.90	0.00	101.30	102.20	85.70	0.00	101.20	101.40	172.60	0.00	101.60	102.00	101.40	0.00	104.40	
17	70.10	0.00	101.30	102.20	84.20	0.00	101.20	101.30	171.60	0.00	101.60	102.00	101.40	0.00	104.30	
18	70.60	0.00	-999.00	-999.00	82.10	0.00	-999.00	-999.00	172.30	0.00	-999.00	-999.00	-999.00	0.00	-999.00	
19	69.20	0.00	-999.00	-999.00	80.60	0.00	-999.00	-999.00	173.80	0.00	-999.00	-999.00	-999.00	0.00	-999.00	
20	69.00	0.00	101.10	101.80	80.70	0.00	101.30	101.30	173.90	0.00	101.60	102.00	101.30	0.00	103.80	
21	68.70	0.00	101.10	101.80	81.10	0.00	101.20	101.30	172.70	0.00	101.70	102.10	101.30	0.00	103.50	
22	68.60	0.00	101.10	101.70	81.30	0.00	101.20	101.40	172.50	0.00	101.70	102.10	101.40	0.00	103.50	
23	79.40	0.00	101.20	101.80	81.30	0.00	101.20	101.30	171.90	0.00	101.70	102.10	101.40	0.00	103.30	
24	75.50	0.00	101.20	101.60	81.90	0.00	101.40	101.30	171.60	0.00	101.60	102.10	101.40	0.00	103.20	

06 APR 2003

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

06 APR 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	LOWER GRANITE	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.		
1	16.00	6.50	108.20	101.60	103.70	97.30	65.20	40.40	100.00	119.00	65.40	39.00	101.90	116.70	
2	15.90	6.40	108.20	101.60	103.60	97.10	65.10	40.40	99.90	119.20	65.20	39.00	101.90	116.50	
3	-999.00	-999.00	108.10	101.60	103.40	97.10	-999.00	-999.00	100.40	119.40	-999.00	-999.00	102.00	116.50	
4	15.90	6.40	108.10	101.40	103.30	96.80	66.10	40.70	99.80	119.40	65.30	39.00	102.00	116.80	
5	16.20	6.60	108.10	101.50	103.10	96.80	72.00	41.10	99.40	119.20	66.80	39.70	101.90	116.70	
6	16.00	6.50	108.10	101.40	103.10	96.70	71.50	39.20	99.50	119.20	73.90	38.30	101.90	116.20	
7	16.30	6.60	108.10	101.20	103.10	96.40	71.10	0.00	99.30	104.20	71.80	0.00	101.80	105.10	
8	16.00	6.40	108.20	101.20	103.00	96.20	73.20	0.00	99.30	102.00	77.00	0.00	101.80	103.00	
9	16.20	6.60	108.10	101.20	103.10	96.10	73.80	0.00	99.80	101.20	76.50	0.00	101.60	102.90	
10	15.90	6.40	108.30	101.30	103.20	95.70	75.40	0.00	100.00	100.70	76.00	0.00	101.40	102.10	
11	15.90	6.40	108.90	101.40	103.70	95.50	74.30	0.00	100.20	100.50	73.90	0.00	101.40	101.90	
12	16.30	6.70	109.00	101.60	103.90	95.90	74.00	0.00	100.30	100.50	85.60	0.00	101.40	101.50	
13	16.00	6.50	108.80	101.90	103.80	96.00	73.90	0.00	100.60	100.40	84.30	0.00	101.50	101.60	
14	16.20	6.60	108.90	102.30	104.10	96.40	70.10	0.00	100.70	100.40	86.60	0.00	101.80	101.70	
15	15.90	6.50	109.10	102.20	104.60	96.80	66.20	0.00	100.80	100.50	91.30	0.00	102.10	102.80	
16	16.20	6.60	109.00	102.40	104.90	97.30	65.80	0.00	100.90	100.80	86.90	0.00	102.20	101.80	
17	16.00	6.50	109.00	102.30	104.70	97.80	60.30	0.00	100.80	100.70	86.50	0.00	102.60	102.00	
18	16.00	6.50	108.70	102.10	104.50	97.70	62.50	3.20	100.90	100.40	91.20	0.60	102.80	102.20	
19	16.20	6.60	108.60	102.10	104.20	97.50	60.60	38.40	100.90	115.90	96.30	39.00	103.00	113.10	
20	16.00	6.50	108.50	101.90	104.00	97.60	59.50	40.10	100.90	118.00	89.40	38.30	103.90	114.30	
21	16.20	6.60	108.30	0.90	103.80	97.20	57.80	40.10	100.80	118.50	57.60	38.30	105.80	116.60	
22	15.90	6.40	108.40	101.40	103.80	97.10	57.80	40.20	100.90	119.20	57.60	38.20	106.10	116.70	
23	15.90	6.40	108.30	101.20	103.80	97.10	57.90	40.30	100.60	119.20	58.20	38.90	106.00	116.60	
24	16.20	6.60	108.20	101.10	103.70	97.10	62.00	41.00	100.30	119.30	54.40	38.20	105.70	116.80	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	MCNARY	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	PASCO	
1	75.00	0.00	101.20	101.60	79.70	0.00	101.40	101.40	0.00	101.60	102.10	101.50	0.00	103.10	
2	74.80	0.00	101.20	101.50	77.60	0.00	101.40	101.40	0.00	101.70	102.20	101.50	0.00	103.10	
3	-999.00	-999.00	101.20	101.50	-999.00	-999.00	101.50	101.50	-999.00	-999.00	101.80	102.20	101.50	0.00	103.00
4	74.60	0.00	101.20	101.50	81.80	0.00	101.50	101.40	0.00	101.70	102.20	101.60	0.00	103.00	
5	74.70	0.00	101.10	101.50	78.90	0.00	101.40	101.40	0.00	101.60	102.40	101.60	0.00	102.90	
6	74.70	0.00	101.20	101.50	77.80	0.00	101.30	101.30	0.00	101.60	102.40	101.60	0.00	102.90	
7	76.00	0.00	101.30	101.40	78.00	0.00	101.30	101.30	0.00	101.50	102.10	101.60	0.00	102.90	
8	85.00	0.00	101.30	101.50	79.70	0.00	101.20	101.20	0.00	101.40	102.10	101.30	0.00	102.80	
9	83.90	0.00	101.20	101.50	74.00	0.00	101.20	101.20	0.00	101.40	102.10	101.20	0.00	102.70	
10	82.00	0.00	101.20	101.50	77.10	0.00	101.10	101.20	0.00	101.30	102.10	101.30	0.00	102.90	
11	81.50	0.00	101.10	101.50	80.40	0.00	101.00	101.30	0.00	101.40	101.90	101.20	0.00	102.90	
12	93.40	0.00	101.00	101.50	79.50	0.00	100.90	101.20	0.00	101.40	102.10	101.20	0.00	103.00	
13	95.70	0.00	101.10	101.70	79.30	0.00	100.80	101.10	0.00	101.50	102.20	101.30	0.00	103.20	
14	95.20	0.00	101.30	101.80	80.90	0.00	100.80	101.10	0.00	101.50	102.20	101.30	0.00	103.60	
15	100.90	0.00	101.20	101.80	79.20	0.10	100.80	101.60	0.00	101.60	102.10	101.30	0.00	103.90	
16	99.10	0.00	101.00	101.90	79.90	0.00	100.80	101.20	0.00	102.80	0.00	102.00	101.20	0.00	104.30
17	98.70	0.00	101.10	102.00	78.10	0.00	100.70	101.00	0.00	103.00	0.00	103.30	102.10	0.00	104.50
18	102.40	0.00	101.00	102.00	78.00	0.00	100.70	101.00	0.00	102.80	0.00	103.20	102.00	0.00	104.60
19	104.00	0.00	100.80	102.00	86.90	0.00	100.80	100.80	0.00	103.00	0.00	102.60	101.70	0.00	104.70
20	84.40	0.00	100.70	101.50	87.60	0.00	100.70	100.70	0.00	104.10	0.00	102.20	101.50	0.00	104.50
21	83.80	0.00	100.60	101.10	89.30	0.00	100.80	100.80	0.00	103.30	0.00	101.40	101.40	0.00	104.30
22	84.00	0.00	100.60	101.00	87.90	0.00	100.70	100.70	0.00	102.40	0.00	101.60	101.50	0.00	103.90
23	83.70	0.00	100.60	100.90	87.60	0.00	100.50	100.70	0.00	102.10	0.00	101.60	101.80	0.00	103.90
24	63.80	0.00	100.60	101.00	80.80	0.00	100.50	66.10	0.00	102.00	0.00	101.20	102.10	0.00	103.60

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**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

07 APR 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.			
1	15.90	6.40	108.20	101.00	103.60	97.00	59.20	40.30	100.30	119.30	52.60	38.20	105.90	116.70	
2	16.20	6.50	108.30	100.90	103.40	96.70	59.30	40.40	100.40	119.60	52.60	38.30	106.30	116.60	
3	15.90	6.40	108.20	100.90	103.40	96.50	65.80	40.40	100.40	119.70	52.60	38.20	106.20	116.70	
4	15.90	6.40	108.20	100.80	103.10	96.30	71.80	41.10	100.40	119.60	53.60	38.90	106.30	116.80	
5	16.20	6.50	108.20	100.60	103.00	96.20	73.80	40.40	100.30	119.70	53.30	38.30	106.20	116.90	
6	15.90	6.40	108.20	100.60	103.10	95.70	74.00	39.40	100.30	119.50	67.60	38.30	106.30	116.50	
7	16.20	6.50	108.10	100.50	103.10	95.50	65.80	0.00	100.40	104.00	66.40	0.00	106.20	108.20	
8	15.90	6.40	108.10	100.50	103.00	95.40	68.00	0.00	100.50	102.00	69.70	0.00	105.80	108.90	
9	16.20	6.50	108.20	100.60	103.30	95.50	67.30	0.00	100.50	101.40	68.10	0.00	105.40	106.90	
10	15.90	6.40	108.10	100.80	103.50	95.50	69.30	0.00	100.80	101.60	68.20	0.00	105.00	105.80	
11	16.20	6.50	108.30	101.30	103.90	95.70	67.20	0.00	101.10	100.90	68.40	0.00	105.10	105.60	
12	15.90	6.40	108.40	101.70	104.30	96.10	67.30	0.00	101.10	101.10	69.50	0.00	105.00	105.40	
13	16.20	6.50	108.50	102.40	104.70	96.70	65.10	0.00	101.30	101.20	66.50	0.00	105.50	105.30	
14	15.90	6.40	108.40	102.80	105.10	97.30	63.90	0.00	101.60	101.20	66.50	0.00	105.00	104.90	
15	15.90	6.40	108.60	103.20	105.30	97.90	63.90	0.00	102.40	101.40	66.50	0.00	104.70	104.70	
16	16.20	6.50	108.50	103.50	105.40	98.30	57.10	0.00	103.10	101.30	63.20	0.00	104.40	104.40	
17	15.90	6.40	108.30	103.70	105.40	98.80	55.20	0.00	102.80	101.40	61.20	0.00	104.40	104.40	
18	15.90	6.40	108.30	103.70	105.10	98.80	53.50	0.00	103.70	101.40	56.60	0.00	104.20	104.20	
19	16.10	6.50	108.20	103.60	105.10	98.10	50.80	35.10	102.10	113.30	53.00	29.90	104.10	111.50	
20	15.90	6.40	108.10	103.40	104.70	98.00	55.50	40.40	102.20	116.90	54.30	40.10	104.80	117.30	
21	15.90	6.40	108.10	-999.00	104.60	98.40	54.80	41.10	101.90	117.80	55.20	40.80	104.90	117.70	
22	16.20	6.50	108.20	102.70	104.60	98.90	53.90	40.50	102.30	118.40	55.90	40.10	104.50	117.70	
23	15.90	6.40	108.00	102.60	104.50	99.30	55.30	40.50	101.60	118.80	57.10	40.00	104.50	117.60	
24	15.90	6.40	108.00	102.50	104.40	99.30	61.10	40.60	102.00	118.60	53.70	40.00	104.50	117.80	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.			
1	70.50	0.00	100.50	100.80	0.00	100.50	100.60	173.00	0.00	101.10	102.00	100.80			103.40
2	63.10	0.00	100.50	100.70	0.00	100.40	100.50	173.70	0.00	100.90	101.90	100.80			103.00
3	64.10	0.00	100.50	100.70	0.00	100.40	100.40	173.90	0.00	100.70	102.20	100.90			103.00
4	59.00	0.00	100.50	100.50	0.00	100.40	100.30	174.20	0.00	100.80	102.20	100.90			102.70
5	59.50	0.00	100.50	100.40	0.00	100.30	100.30	174.70	0.00	100.70	102.00	100.90			102.60
6	60.20	0.00	100.40	100.60	0.00	100.20	100.30	175.50	0.00	100.60	102.00	100.90			102.60
7	73.10	0.00	100.40	100.50	0.00	100.20	100.50	175.50	0.00	100.70	102.00	100.90			102.30
8	75.00	0.00	100.30	100.40	0.00	100.10	100.30	175.40	0.00	100.70	101.80	100.90			102.30
9	75.50	0.00	100.50	100.50	0.00	100.20	100.80	175.20	0.00	100.80	101.70	100.70			102.30
10	74.10	0.00	100.70	100.80	0.00	100.30	100.40	174.90	0.00	101.00	101.70	100.30			102.50
11	74.50	0.00	100.90	101.10	0.00	100.40	100.80	175.90	0.00	101.80	101.70	100.70			102.70
12	74.30	0.00	101.60	101.40	0.00	100.30	100.40	175.70	0.00	0.00	102.10	100.80			103.00
13	73.20	0.00	100.60	101.70	0.00	100.20	100.60	174.90	0.00	103.70	102.50	101.10			103.50
14	71.70	0.00	101.00	102.30	0.00	100.30	100.70	174.60	0.00	103.80	102.90	101.30			104.00
15	69.40	0.00	101.70	102.90	0.00	100.60	100.90	174.90	0.00	104.80	103.10	101.40			104.10
16	63.40	0.00	101.70	103.40	0.00	101.50	101.10	175.00	0.00	104.80	103.10	101.40			104.60
17	60.90	0.00	102.80	104.10	0.00	101.40	101.00	175.30	0.00	106.80	103.50	101.30			104.70
18	58.80	1.20	104.40	104.90	0.00	100.70	101.00	174.80	0.00	106.10	103.00	101.40			105.00
19	58.30	28.70	104.90	113.00	0.00	100.50	101.30	176.10	0.00	105.20	103.30	101.30			104.90
20	57.90	28.10	105.60	115.20	0.00	100.40	100.80	177.00	0.00	105.20	103.10	101.30			104.80
21	55.60	27.50	106.00	115.60	0.00	101.20	100.50	176.30	0.00	103.30	102.90	101.20			104.60
22	55.60	27.60	106.50	115.70	0.00	101.60	100.80	175.90	0.00	102.20	102.90	101.40			104.30
23	38.70	19.90	107.60	114.80	0.00	101.20	100.80	176.10	0.00	101.40	103.70	101.40			104.20
24	38.90	20.30	106.90	114.40	0.00	101.20	100.80	175.30	0.00	101.20	103.90	101.40			104.10

08 APR 2003

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

08 APR 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.			
1	16.20	6.50	108.10	102.40	104.30	99.00	59.60	40.60	101.70	118.90	53.70	40.70	104.60	117.80	
2	15.90	6.40	108.10	102.20	104.30	99.00	60.60	41.30	101.60	118.90	52.80	40.00	105.00	117.90	
3	15.90	6.40	108.10	102.10	104.10	98.90	59.60	40.70	101.30	119.00	52.90	40.00	105.30	117.80	
4	16.20	6.50	108.10	102.00	104.00	98.70	59.60	40.70	101.60	119.10	53.20	40.00	105.80	117.90	
5	15.90	6.30	108.10	101.90	103.80	98.40	66.40	40.60	101.10	119.20	54.60	40.00	105.90	117.80	
6	15.90	6.30	108.00	101.70	103.70	98.10	72.40	40.60	100.90	119.00	53.90	39.20	106.30	117.90	
7	16.20	6.50	107.90	101.60	103.50	97.80	71.10	0.00	101.10	105.50	50.40	0.70	106.80	112.30	
8	15.90	6.30	108.00	101.60	103.50	97.70	73.90	0.00	101.20	102.90	63.90	0.00	106.80	108.50	
9	15.90	6.30	108.10	101.60	103.70	97.60	74.10	0.00	101.40	102.10	64.20	0.00	107.30	108.30	
10	16.30	6.60	108.90	101.80	104.20	97.70	72.30	0.00	101.60	101.90	65.50	0.00	107.50	108.60	
11	16.10	6.60	109.10	102.20	104.90	98.20	61.60	0.00	101.80	101.80	64.40	0.00	107.80	108.40	
12	16.10	6.60	109.30	102.60	105.40	98.60	63.40	0.00	102.20	101.90	64.20	0.00	107.80	108.40	
13	16.40	6.70	109.10	103.20	105.80	99.10	54.50	0.00	102.30	102.90	65.60	0.00	107.80	108.30	
14	16.10	6.60	109.40	103.80	106.00	99.20	44.20	0.00	102.40	102.60	54.90	0.00	107.70	108.20	
15	16.40	6.70	109.30	104.30	106.20	99.80	44.30	0.00	102.60	102.60	46.50	0.00	107.30	108.30	
16	16.10	6.60	109.50	104.50	106.50	99.90	44.70	0.00	103.00	102.90	45.40	0.00	107.50	108.00	
17	16.10	6.60	109.40	104.60	106.50	99.70	56.60	0.00	103.50	102.80	53.00	0.00	107.40	107.90	
18	16.40	6.70	109.30	104.60	106.40	99.10	59.90	0.00	103.70	103.50	56.20	0.90	107.40	107.70	
19	16.10	6.60	109.10	104.50	106.20	99.40	62.20	39.10	103.60	116.40	66.50	42.30	107.10	117.40	
20	16.40	6.70	109.30	104.10	105.80	99.30	64.50	42.40	103.60	118.80	64.20	42.00	107.20	118.50	
21	16.10	6.60	109.10	103.70	105.80	100.10	63.00	42.30	103.40	119.90	65.50	41.90	106.60	118.50	
22	16.10	6.60	109.10	103.50	105.70	100.20	64.00	43.10	103.50	119.90	63.90	41.90	109.10	118.60	
23	16.40	6.70	109.20	98.90	105.80	100.70	58.80	42.40	103.30	120.30	60.70	42.60	109.80	118.60	
24	16.10	6.60	109.10	103.20	105.70	100.80	60.30	42.40	103.30	120.20	60.60	41.80	110.10	118.40	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT
1	39.90	19.90	106.90	113.70	0.00	100.90	100.90	175.80	0.00	101.30	104.30	101.40	0.00	103.80	
2	55.30	27.70	107.50	115.30	0.00	100.70	100.90	176.20	0.00	101.30	104.30	101.30	0.00	103.80	
3	60.50	30.40	109.50	115.90	0.00	100.80	100.90	175.00	0.00	101.20	103.90	101.40	0.00	103.70	
4	60.90	30.50	109.00	115.90	0.00	100.90	100.90	176.70	0.00	101.20	103.60	101.50	0.00	103.60	
5	61.00	30.50	109.20	116.10	0.00	101.00	100.80	176.60	0.00	101.20	103.20	101.50	0.00	103.40	
6	62.00	31.00	109.50	116.00	0.00	100.90	100.80	177.00	0.00	101.20	103.00	101.40	0.00	103.30	
7	61.10	30.50	109.90	116.00	0.00	100.80	101.00	176.20	0.00	101.00	103.00	101.30	0.00	103.10	
8	61.70	30.50	109.50	116.10	0.00	100.80	100.90	177.10	0.00	101.10	102.80	101.30	0.00	103.00	
9	62.80	30.50	109.10	116.20	0.00	100.90	101.60	176.60	0.00	101.20	102.70	101.30	0.00	103.10	
10	61.50	30.50	108.70	116.40	0.00	101.40	101.10	176.40	0.00	101.70	102.80	101.30	0.00	103.30	
11	61.10	30.50	108.40	117.00	0.00	101.00	101.30	176.10	0.00	103.40	102.70	101.60	0.00	103.70	
12	62.60	31.00	108.80	117.20	0.00	101.30	101.40	176.10	0.00	103.50	102.80	101.70	0.00	104.30	
13	62.60	30.50	107.80	117.50	0.00	101.30	101.70	163.50	0.00	102.80	102.80	102.00	0.00	104.80	
14	60.90	30.50	107.60	112.00	0.00	101.40	101.80	168.90	0.00	102.60	103.10	102.20	0.00	105.30	
15	58.50	30.50	107.30	115.10	0.00	101.50	101.90	174.90	0.00	103.10	103.40	102.10	0.00	106.00	
16	56.90	28.80	107.10	118.20	0.00	101.80	101.90	174.30	0.00	107.20	103.20	102.30	0.00	106.50	
17	56.90	28.80	106.30	118.40	0.00	102.30	102.10	174.70	0.00	108.80	103.20	102.40	0.00	106.70	
18	44.60	14.80	105.70	116.20	0.00	103.10	102.20	175.00	0.00	110.10	103.40	102.50	0.00	106.90	
19	57.40	29.20	105.80	118.00	0.00	103.00	102.20	172.30	0.00	109.60	103.70	102.40	0.00	107.00	
20	64.30	31.20	105.20	118.10	0.00	103.30	102.30	171.00	0.00	109.90	103.50	102.40	0.00	106.80	
21	64.70	31.30	105.20	117.50	0.00	103.20	102.40	169.60	0.00	109.10	103.50	102.60	0.00	106.50	
22	68.20	33.30	105.70	117.60	0.00	102.90	102.30	169.50	0.00	106.10	103.50	102.60	0.00	106.50	
23	66.80	33.50	106.00	117.60	0.00	102.40	102.80	169.70	0.00	102.60	103.50	102.70	0.00	106.60	
24	71.00	35.30	106.10	117.50	0.00	102.40	102.10	169.80	0.00	102.20	104.90	102.70	0.00	106.70	

09 APR 2003

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

09 APR 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	LOWER GRANITE	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.		
1	16.40	6.70	109.20	102.80	105.60	100.70	58.70	42.40	103.00	120.40	59.10	41.80	109.00	118.60	
2	16.10	6.50	109.10	102.70	105.50	100.40	61.20	42.40	102.90	120.40	57.60	42.50	108.20	118.50	
3	16.40	6.70	109.10	102.50	105.30	100.00	62.80	43.20	102.30	120.40	-999.00	-999.00	108.40	118.50	
4	16.10	6.60	109.10	102.30	105.10	99.50	72.60	42.40	102.80	120.30	57.60	41.80	108.30	118.60	
5	16.40	6.70	108.90	102.10	104.80	99.10	87.40	42.30	102.60	119.60	56.30	41.80	107.60	118.30	
6	16.10	6.60	108.90	101.90	104.60	98.70	80.00	41.80	102.30	119.80	57.70	40.00	106.40	118.30	
7	16.20	6.60	108.90	101.60	104.30	98.10	58.00	0.00	102.10	104.80	61.00	0.00	107.50	110.60	
8	16.10	6.60	109.00	101.50	104.20	97.90	51.70	0.00	101.80	105.30	65.30	0.00	107.90	108.60	
9	16.40	6.70	108.90	101.40	104.20	97.70	49.40	0.00	101.80	102.80	63.40	0.00	108.40	108.80	
10	16.20	6.60	108.90	101.30	104.10	97.70	48.30	0.00	101.70	102.60	54.50	0.00	108.80	108.90	
11	16.60	6.80	109.20	101.40	104.20	97.80	49.60	0.00	101.70	102.30	50.90	0.00	108.70	110.20	
12	16.20	6.70	109.30	101.60	104.50	97.70	60.70	0.00	101.90	102.40	50.70	0.00	108.50	0.00	
13	16.20	6.70	109.30	101.90	104.70	98.00	60.90	0.00	101.90	102.10	51.50	0.00	107.10	108.80	
14	16.50	6.80	109.50	102.10	105.10	98.60	60.80	0.00	102.10	102.30	50.80	0.00	107.50	108.90	
15	16.20	6.70	109.60	102.60	105.60	99.20	62.20	0.00	102.30	0.00	50.70	0.00	107.70	108.70	
16	16.50	6.80	109.60	102.90	105.90	99.60	60.70	0.00	102.40	102.50	50.80	0.00	107.70	108.50	
17	16.20	6.70	109.50	103.10	105.90	99.90	50.20	0.00	102.50	102.60	51.70	0.00	107.70	108.20	
18	16.50	6.80	109.60	103.30	105.90	99.60	48.70	0.20	102.50	102.70	48.70	0.00	107.50	107.80	
19	16.30	6.70	109.30	103.30	105.70	98.80	55.40	38.40	102.60	116.00	49.20	31.20	108.00	112.20	
20	16.50	6.80	109.30	103.10	105.40	98.60	57.10	41.10	102.80	117.60	47.90	32.00	107.50	114.90	
21	16.20	6.70	109.30	102.80	105.30	98.80	68.60	40.40	103.40	118.30	47.20	32.60	107.20	115.20	
22	16.50	6.80	109.30	102.50	105.10	99.20	68.80	40.40	103.00	118.50	46.40	32.00	107.10	115.50	
23	16.20	6.60	109.30	102.30	105.20	99.70	68.80	40.40	103.20	118.50	46.40	32.10	107.10	115.50	
24	16.40	6.70	109.20	102.20	105.20	99.70	68.90	40.30	103.10	118.40	46.50	32.10	107.40	115.70	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB	WA TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB	GAS %SAT	
1	66.30	32.80	106.70	117.40	0.00	102.10	102.00	169.50	0.00	103.10	104.60	102.40	0.00	106.60	
2	66.30	32.90	107.40	117.30	0.00	102.00	101.90	170.00	0.00	105.00	104.60	102.30	0.00	106.50	
3	57.60	29.30	107.70	117.00	0.00	102.10	101.80	170.30	0.00	103.20	104.10	102.30	0.00	106.30	
4	59.10	29.20	108.10	116.70	0.00	102.10	101.90	170.40	0.00	101.90	103.90	102.10	0.00	105.90	
5	56.80	28.70	109.30	116.80	0.00	102.00	101.70	171.00	0.00	101.50	103.80	102.40	0.00	105.50	
6	65.10	32.00	109.70	117.20	0.00	101.80	101.50	173.30	0.00	101.40	103.60	102.00	0.00	105.20	
7	56.60	28.30	110.80	116.70	0.00	101.70	101.30	175.20	0.00	101.30	103.40	101.90	0.00	104.70	
8	57.80	28.30	111.10	116.40	0.00	101.50	101.40	174.70	0.00	101.20	103.30	101.70	0.00	104.30	
9	56.30	28.30	112.60	116.50	0.00	101.40	101.30	174.70	0.00	101.10	103.10	101.70	0.00	104.20	
10	57.30	28.90	112.60	116.90	0.00	101.40	101.50	174.50	0.00	101.00	103.00	101.90	0.00	104.40	
11	56.20	28.30	113.10	116.50	0.00	101.50	101.60	173.10	0.00	101.10	103.00	102.00	0.00	104.50	
12	56.10	28.30	113.00	117.30	0.00	101.60	101.80	173.80	0.00	104.20	103.20	102.10	0.00	104.90	
13	54.40	24.90	112.80	116.90	0.00	101.60	102.00	173.70	0.00	104.50	103.30	102.30	0.00	105.40	
14	52.80	24.70	111.90	117.10	0.00	101.70	102.70	173.50	0.00	105.30	103.40	102.60	0.00	106.00	
15	53.80	25.10	111.50	117.20	0.00	101.90	102.30	172.70	0.00	105.10	103.60	102.80	0.00	106.40	
16	54.40	24.70	110.90	117.50	0.00	102.00	102.40	173.40	0.00	106.90	103.60	102.70	0.00	106.70	
17	52.90	24.70	111.20	117.60	0.00	102.00	102.30	173.40	0.00	107.30	103.70	102.80	0.00	106.90	
18	52.80	24.50	110.70	117.60	0.10	102.10	102.40	173.70	0.00	105.80	103.90	102.90	0.00	107.20	
19	43.50	21.50	110.70	115.90	42.80	31.00	103.00	174.80	0.00	105.00	106.10	103.10	0.00	106.90	
20	43.10	21.10	110.30	114.80	42.00	32.50	103.70	175.20	0.00	104.40	106.20	103.30	0.00	106.80	
21	42.80	21.30	109.70	114.40	41.90	32.50	104.00	172.90	0.00	104.40	106.00	103.30	0.00	106.60	
22	42.80	21.30	109.40	114.30	41.80	32.40	104.40	172.60	0.00	104.00	105.50	103.30	0.00	106.20	
23	44.30	21.30	109.20	114.40	42.40	33.10	104.70	173.70	0.00	103.30	105.50	103.30	0.00	106.00	
24	42.50	21.30	109.40	114.10	43.30	42.40	104.30	173.60	0.00	102.40	105.30	103.40	0.00	105.80	

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**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

10 APR 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.			
1	16.10	6.60	109.30	102.00	105.00	99.60	70.30	41.00	103.20	48.90	32.80	107.50	115.50		
2	16.10	6.50	109.20	102.10	104.90	99.30	68.90	40.30	103.40	47.90	32.30	107.40	115.70		
3	16.40	6.60	109.20	101.90	104.90	99.10	58.40	40.30	103.60	58.90	32.20	107.10	115.10		
4	16.10	6.50	109.20	101.90	104.70	98.90	57.90	40.30	103.70	58.90	32.20	107.30	115.00		
5	16.40	6.60	109.40	101.90	104.60	98.50	58.20	40.40	103.60	59.00	32.20	107.40	114.90		
6	16.00	6.50	109.30	101.80	104.50	98.20	75.80	41.10	103.50	59.90	31.70	107.50	114.80		
7	16.10	6.50	109.30	101.70	104.40	98.00	74.60	40.30	103.30	52.70	0.00	107.40	112.00		
8	16.40	6.60	109.40	101.60	104.50	97.90	41.50	40.50	103.20	63.10	0.00	107.60	109.40		
9	16.10	6.50	109.40	101.70	104.60	97.90	56.60	38.30	103.30	64.20	0.00	108.20	109.10		
10	16.10	6.50	109.50	101.90	104.80	97.70	35.10	19.80	103.40	65.80	0.00	108.90	109.50		
11	16.30	6.60	109.70	102.30	105.30	97.90	51.00	15.70	103.90	58.90	0.00	109.30	109.80		
12	16.00	6.40	109.30	102.80	105.90	98.30	62.60	0.00	103.90	59.40	0.00	109.80	110.20		
13	16.30	6.50	109.30	99.60	105.90	99.10	61.30	0.00	104.50	61.10	0.00	110.20	110.50		
14	16.00	6.40	109.30	103.10	106.20	99.90	61.10	0.00	105.10	59.40	0.00	110.50	110.70		
15	15.90	6.40	109.10	103.80	106.10	96.90	68.50	0.00	105.20	62.50	0.00	110.60	110.90		
16	16.20	6.50	109.20	104.20	106.00	106.30	69.10	0.00	106.00	68.00	0.00	110.60	111.00		
17	15.90	6.40	109.30	104.20	0.00	106.00	68.10	0.00	105.30	68.80	0.00	110.40	110.50		
18	16.20	6.50	109.00	104.30	106.20	105.60	64.50	1.10	104.90	69.00	0.00	110.20	110.10		
19	16.00	6.40	109.90	104.00	106.00	105.10	52.10	38.10	104.90	71.90	40.90	110.30	115.80		
20	16.20	6.50	110.10	103.50	105.60	104.70	54.70	38.40	105.30	68.70	41.70	110.20	116.80		
21	15.90	6.40	110.40	102.90	105.40	104.00	58.40	38.50	105.20	68.20	41.60	110.00	116.80		
22	16.00	6.40	110.10	102.50	105.30	103.60	57.70	38.60	105.60	58.10	41.80	109.70	117.40		
23	16.30	6.50	110.30	102.40	105.20	103.10	56.90	39.20	105.20	58.40	42.50	109.30	117.40		
24	15.90	6.40	109.90	102.20	104.90	102.80	55.90	38.60	105.10	55.00	41.70	109.00	117.30		

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT
1	36.70	21.70	109.20	114.00	43.30	42.70	103.70	111.30	0.00	102.60	105.50	103.30	105.70	0.00	105.70
2	42.50	21.20	109.20	114.10	43.30	42.70	103.30	111.50	0.00	102.50	105.60	103.50	105.60	0.00	105.60
3	43.00	21.30	109.70	113.90	44.40	43.80	103.10	111.50	0.00	102.30	105.50	103.50	105.50	0.00	105.50
4	43.00	21.30	110.00	114.00	50.60	50.00	103.20	111.50	0.00	102.20	105.50	103.60	105.40	0.00	105.40
5	63.10	31.40	110.30	116.70	54.90	54.30	103.10	112.10	0.00	102.30	105.50	103.50	105.20	0.00	105.20
6	65.90	33.10	110.40	117.10	58.50	44.50	104.00	112.00	0.00	102.40	105.40	103.40	105.10	0.00	104.80
7	64.80	32.50	110.60	117.30	72.20	44.50	104.70	112.40	0.00	102.20	105.20	103.50	104.90	0.00	104.90
8	65.30	32.50	111.10	117.30	71.40	44.50	105.00	112.80	0.00	102.60	105.00	103.40	105.10	0.00	105.10
9	65.00	32.50	111.70	117.50	71.40	44.60	105.10	112.90	0.00	103.30	105.20	103.50	104.90	0.00	104.90
10	64.90	32.50	112.70	117.70	72.50	45.30	105.70	113.10	0.00	103.80	105.20	103.50	105.10	0.00	105.10
11	61.30	31.60	113.40	118.00	71.40	44.50	105.80	113.10	0.00	104.80	105.30	104.10	105.50	0.00	105.50
12	62.50	30.90	114.60	117.90	71.40	44.60	106.50	113.20	0.00	105.30	105.30	104.30	105.80	0.00	105.80
13	59.90	30.30	115.20	118.10	71.30	44.50	107.50	113.30	0.00	105.80	105.40	104.60	106.30	0.00	106.30
14	59.80	30.30	115.80	118.30	71.40	44.50	108.30	113.30	0.00	106.10	105.40	104.70	106.80	0.00	106.80
15	59.80	30.30	115.30	118.40	72.50	45.20	108.60	113.30	0.00	106.70	107.00	104.80	107.20	0.00	107.20
16	59.90	30.30	115.00	118.60	71.40	44.50	109.10	113.40	0.00	106.90	107.90	105.00	107.70	0.00	107.70
17	67.70	27.80	114.60	118.70	71.20	44.40	109.70	113.10	0.00	105.80	108.00	104.80	107.70	0.00	107.70
18	69.30	17.60	114.60	115.20	72.00	44.40	110.40	113.10	0.00	105.60	107.20	104.90	107.80	0.00	107.80
19	70.00	33.80	114.10	118.30	68.40	58.10	111.50	113.10	0.00	105.10	107.10	104.90	107.60	0.00	107.60
20	72.50	33.90	113.40	118.40	69.90	60.50	111.70	114.00	0.00	105.30	107.40	104.70	107.30	0.00	107.30
21	72.80	33.80	112.90	118.30	70.20	59.50	111.70	113.90	0.00	105.40	106.90	104.60	107.00	0.00	107.00
22	73.90	34.40	112.40	118.50	68.80	59.60	111.40	113.90	0.00	103.10	106.70	104.30	106.60	0.00	106.60
23	60.50	33.90	111.60	117.70	71.40	69.50	111.90	113.90	0.00	103.00	106.50	104.30	106.30	0.00	106.30
24	51.40	33.80	111.30	117.30	72.00	71.40	112.00	113.80	0.00	103.20	106.10	104.00	105.90	0.00	105.90

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**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

11 APR 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT FB TAILW.	LITTLE GOOSE	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT FB TAILW.		
1	16.10	6.40	108.70	101.90	104.80	102.60	55.70	38.60	105.20	118.50	55.10	41.80	109.20	117.40	
2	15.80	6.20	108.30	101.80	103.80	102.40	55.90	38.70	104.80	118.70	55.00	41.70	109.20	117.20	
3	16.10	6.40	108.50	101.60	103.60	102.20	66.60	38.70	104.50	118.30	56.40	41.70	108.70	117.30	
4	15.80	6.20	108.20	101.30	103.30	102.00	69.70	39.40	104.10	118.30	57.50	42.50	108.30	117.20	
5	15.80	6.20	108.40	101.20	102.90	101.90	68.20	38.70	103.90	118.40	55.10	41.80	108.80	117.40	
6	16.10	6.40	108.50	101.00	102.90	101.70	70.10	37.90	103.80	118.20	55.70	41.00	109.10	117.20	
7	15.80	6.20	108.10	100.90	102.80	101.60	66.60	0.00	103.60	105.80	61.80	0.80	108.90	111.10	
8	16.10	6.40	108.10	100.80	102.80	101.60	68.60	0.00	103.40	104.40	65.50	0.00	109.00	110.10	
9	15.80	6.20	108.20	100.70	102.70	101.60	68.30	0.00	103.60	104.20	64.10	0.00	109.10	110.00	
10	16.10	6.30	108.10	100.70	102.60	101.50	69.80	0.00	104.10	104.10	64.40	0.00	109.50	110.10	
11	15.80	6.20	108.10	100.70	102.80	101.60	68.30	0.00	104.10	104.20	64.10	0.00	109.60	110.20	
12	16.10	6.30	108.30	100.80	103.00	101.90	61.70	0.00	104.50	104.00	64.80	0.00	109.70	110.00	
13	15.80	6.20	108.30	101.00	103.30	102.40	61.30	0.00	105.10	104.40	61.40	0.00	110.00	110.30	
14	15.80	6.20	108.50	101.20	103.70	102.50	58.80	0.00	105.60	104.30	60.90	0.00	110.00	110.30	
15	16.10	6.40	108.60	101.40	103.90	102.70	55.70	0.00	106.50	104.50	57.00	0.00	110.10	110.30	
16	15.80	6.20	108.40	101.70	104.30	103.00	54.50	0.00	106.00	104.50	56.80	0.00	110.60	110.30	
17	16.10	6.30	108.70	102.10	104.10	103.40	54.60	0.00	106.50	104.60	59.20	0.00	110.40	110.10	
18	15.80	6.20	108.70	102.30	104.10	103.30	53.90	0.30	105.60	104.70	56.40	0.40	109.90	109.90	
19	16.10	6.40	108.50	102.50	104.00	103.10	60.60	38.90	105.00	116.70	61.90	41.70	109.90	116.10	
20	15.80	6.20	108.50	102.40	103.90	102.90	73.90	41.20	104.70	117.90	65.90	41.70	109.60	117.10	
21	16.10	6.30	108.30	102.00	103.70	102.60	73.30	40.50	104.80	118.40	74.90	42.50	109.50	116.70	
22	15.80	6.20	108.50	101.80	103.60	102.50	75.10	40.40	105.00	118.60	76.90	41.80	109.60	116.70	
23	15.80	6.20	108.40	101.50	103.70	102.30	70.20	40.40	104.60	118.60	70.70	41.80	109.50	117.00	
24	16.10	6.30	108.60	101.40	103.60	102.20	69.50	40.40	104.60	118.70	70.20	41.70	109.70	117.00	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT FB TAILW.	PASCO	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT FB TAILW.	GAS %SAT	
1	51.30	33.90	111.00	117.40	59.00	58.50	111.60	113.80	0.00	104.60	105.80	103.80	105.70		
2	49.40	33.80	111.30	117.20	55.10	54.60	111.70	112.60	0.00	103.90	105.40	103.80	105.50		
3	49.80	34.40	111.70	117.20	55.10	54.60	111.40	112.20	0.00	103.00	105.40	103.50	105.30		
4	49.00	33.80	112.00	117.10	55.20	54.60	111.20	112.30	0.00	105.20	105.20	103.60	105.10		
5	49.00	33.90	112.50	117.00	54.70	53.60	111.90	112.20	0.00	102.90	105.00	103.60	104.90		
6	50.20	33.90	113.20	117.10	54.60	45.20	112.00	112.40	0.00	103.00	105.00	103.50	104.70		
7	56.20	33.80	113.60	117.30	53.70	44.40	112.10	112.40	0.00	102.80	104.80	103.60	104.50		
8	64.20	33.30	114.20	117.40	54.30	44.40	112.00	112.40	0.00	102.80	104.80	103.70	104.50		
9	62.30	30.60	114.60	117.10	64.60	44.50	112.10	112.50	0.00	103.10	105.00	103.90	104.30		
10	60.80	30.00	115.10	117.30	65.10	44.50	112.10	112.90	0.00	103.60	105.30	104.00	104.60		
11	60.90	30.10	114.90	117.50	73.60	45.20	112.00	113.10	0.00	104.30	105.30	104.20	104.90		
12	60.80	30.00	114.80	117.70	72.60	44.40	112.30	113.30	0.00	105.00	105.40	104.40	105.20		
13	60.50	30.00	114.70	118.00	71.00	44.40	112.60	113.50	0.00	107.10	105.40	104.50	105.60		
14	60.60	30.10	114.90	118.20	71.10	44.40	112.80	113.50	0.00	109.20	105.60	104.60	106.00		
15	61.40	30.60	114.60	118.40	71.00	44.30	113.10	113.40	0.00	109.70	105.80	104.60	106.40		
16	60.10	30.00	114.00	118.50	71.00	44.30	113.40	113.40	0.00	108.30	106.20	104.90	106.80		
17	60.10	30.10	113.70	118.40	70.40	45.10	113.90	113.30	0.00	104.40	106.20	105.10	107.00		
18	60.00	30.00	113.30	118.20	68.70	44.30	115.10	113.20	0.00	105.60	106.30	105.00	107.00		
19	60.30	30.00	114.70	118.10	58.20	44.30	116.20	113.20	0.00	107.10	106.60	105.20	106.80		
20	71.00	30.10	114.00	118.00	57.60	44.30	115.90	112.80	0.00	106.40	107.20	105.30	106.70		
21	74.50	30.60	112.70	117.80	57.70	44.40	115.50	112.70	0.00	106.40	107.50	105.40	106.60		
22	71.80	30.10	113.10	117.70	70.60	57.50	115.10	112.60	0.00	105.00	108.00	105.60	106.40		
23	72.00	30.10	113.20	117.50	75.80	74.80	114.60	114.30	0.00	105.00	107.80	105.70	106.30		
24	71.80	30.00	112.70	117.40	75.50	74.90	114.50	114.00	0.00	104.50	108.40	105.70	106.10		

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HOURLY OPERATIONAL REPORT**

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DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	LOWER GRANITE	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.		
1	15.80	6.20	108.50	101.40	103.60	102.00	69.50	40.40	104.20	118.90	70.20	41.70	109.60	117.00	
2	15.80	6.20	108.70	101.50	103.60	102.00	68.50	41.20	104.20	119.10	67.80	42.50	109.70	117.30	
3	16.00	6.40	108.80	101.50	103.50	101.80	68.90	40.40	104.10	119.10	66.40	41.80	109.70	117.20	
4	15.70	6.20	109.00	101.50	103.40	101.80	69.90	40.40	104.50	119.10	66.30	41.70	109.70	117.30	
5	16.00	6.30	108.80	101.30	103.30	101.70	67.30	40.50	104.40	119.40	66.30	41.70	109.80	117.20	
6	15.80	6.20	108.80	101.40	103.10	101.80	73.00	38.80	103.90	119.30	66.80	40.30	110.00	117.20	
7	16.00	6.30	108.80	101.40	103.10	101.80	72.10	0.00	104.00	107.10	63.40	0.00	110.60	112.90	
8	15.80	6.20	108.90	101.40	103.10	101.90	71.70	0.00	104.40	105.60	67.50	0.00	110.90	111.80	
9	16.10	6.30	108.80	101.40	103.10	102.10	71.70	0.00	104.10	105.00	71.00	0.00	110.90	111.40	
10	15.80	6.20	109.30	101.20	103.10	102.00	71.70	0.00	103.90	104.60	72.70	0.00	111.10	111.10	
11	15.80	6.20	109.00	101.10	103.10	102.10	71.80	0.00	103.70	104.40	71.30	0.00	111.10	111.10	
12	16.10	6.30	108.90	101.10	103.20	102.00	73.10	0.00	103.90	104.40	71.20	0.00	111.10	111.10	
13	15.80	6.20	109.00	101.20	103.00	102.40	71.80	0.00	104.20	104.50	72.80	0.00	111.30	111.30	
14	16.10	9.30	109.00	101.30	103.10	102.60	68.80	0.00	104.50	104.40	71.20	0.00	111.40	111.50	
15	16.10	6.20	108.90	101.50	103.10	103.40	68.50	0.00	105.00	104.80	70.60	0.00	111.50	111.40	
16	15.90	6.20	109.00	101.90	103.20	103.60	68.50	0.00	104.90	104.70	67.80	0.00	111.50	111.30	
17	16.20	6.30	109.10	102.30	103.40	103.80	69.70	0.00	105.30	105.30	67.60	0.00	111.30	111.20	
18	15.90	6.20	109.10	102.50	103.50	103.30	60.60	0.00	104.90	104.70	66.00	0.00	111.10	110.90	
19	16.20	6.30	109.00	102.70	103.50	103.00	61.70	40.30	104.80	115.80	63.80	42.60	111.30	116.30	
20	15.90	6.20	109.00	102.60	103.60	102.90	61.30	40.40	105.10	118.40	59.90	41.80	111.50	117.50	
21	15.90	6.20	109.00	102.40	103.60	102.50	61.20	40.40	104.70	119.10	59.90	41.80	111.10	117.60	
22	16.20	6.30	109.10	102.10	103.70	102.20	67.60	41.20	104.20	119.10	59.90	41.80	110.90	117.40	
23	15.90	6.20	108.90	101.80	103.50	101.90	67.70	40.50	104.20	119.30	64.50	42.50	110.70	117.40	
24	15.90	6.20	109.20	101.60	103.50	101.90	68.00	40.50	104.20	119.30	65.40	41.80	110.70	117.50	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB	WA TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB	GAS %SAT	
1	71.50	30.10	112.80	117.20	75.40	74.80	114.50	113.90	0.00	104.40	108.30	105.80	0.00	106.00	
2	64.60	30.00	112.80	117.20	75.40	74.90	114.60	113.90	0.00	104.40	108.40	105.80	0.00	106.00	
3	65.50	30.10	112.70	117.20	78.20	76.10	114.60	113.90	0.00	104.30	108.10	105.90	0.00	105.90	
4	62.80	30.60	112.90	117.10	75.30	74.70	114.60	114.00	0.00	104.50	108.20	105.90	0.00	105.80	
5	62.10	30.10	113.00	117.10	73.80	72.90	114.50	114.00	0.00	104.40	108.10	105.90	0.00	105.70	
6	62.00	30.00	113.20	117.10	57.10	44.40	114.70	113.80	0.00	104.40	107.80	105.70	0.00	105.70	
7	62.60	30.10	113.50	117.20	58.20	44.50	114.70	112.90	0.00	104.20	107.40	105.50	0.00	105.60	
8	63.80	30.00	113.70	117.20	69.60	45.20	114.70	112.80	0.00	104.50	107.20	105.60	0.00	105.50	
9	61.90	30.10	114.20	117.30	70.60	44.50	114.90	113.20	0.00	105.30	107.20	105.40	0.00	105.40	
10	70.00	34.30	114.30	118.00	70.50	44.40	114.80	113.60	0.00	105.60	107.20	105.50	0.00	105.50	
11	68.90	33.70	114.00	118.00	70.70	44.40	114.80	113.40	0.00	106.80	106.90	105.70	0.00	105.70	
12	70.40	33.70	113.40	118.10	70.70	44.50	114.80	113.50	0.00	107.00	107.40	106.20	0.00	106.00	
13	69.10	33.70	113.40	118.20	77.00	45.20	115.20	113.80	0.00	107.10	107.80	106.60	0.00	106.50	
14	69.60	33.70	113.30	118.70	76.60	44.50	115.50	113.90	0.00	107.50	108.70	106.70	0.00	107.00	
15	77.90	33.70	113.10	119.30	85.40	44.40	116.10	113.90	0.00	108.80	109.70	106.90	0.00	107.50	
16	81.50	35.70	115.50	119.50	82.60	44.40	119.10	114.00	0.00	109.60	110.00	107.10	0.00	107.80	
17	80.90	21.20	115.60	117.00	83.90	44.40	119.20	113.80	0.00	108.70	110.30	107.40	0.00	108.00	
18	66.80	15.30	114.70	114.50	87.70	46.50	118.70	113.70	0.00	107.40	110.50	107.30	0.00	107.70	
19	60.80	28.60	113.90	116.80	80.30	69.80	116.10	114.00	0.00	106.70	110.30	107.40	0.00	107.70	
20	59.70	30.00	113.70	117.60	66.40	65.20	115.90	115.20	0.00	105.80	110.70	107.60	0.00	107.60	
21	59.70	30.00	113.60	117.70	66.80	64.80	115.80	113.80	0.00	105.60	110.60	107.60	0.00	107.50	
22	61.20	30.00	113.30	117.20	64.40	63.90	115.90	113.70	0.00	106.10	110.40	107.90	0.00	107.30	
23	59.90	29.90	113.50	117.40	63.90	63.40	116.40	113.40	0.00	106.50	110.10	107.70	0.00	107.10	
24	55.80	28.20	113.80	117.40	55.00	54.40	116.10	113.50	0.00	106.90	109.90	107.90	0.00	107.00	

13 APR 2003

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

13 APR 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	LOWER GRANITE	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.		
1	16.20	6.30	109.30	101.40	103.40	101.70	74.40	40.60	104.50	119.20	63.90	41.80	110.50	117.60	
2	15.90	6.20	109.20	101.30	103.30	101.70	74.70	40.50	104.20	119.20	63.90	41.80	110.40	117.50	
3	16.20	6.30	109.30	101.10	103.30	101.60	75.80	41.20	104.20	119.10	63.90	41.80	110.00	117.30	
4	15.90	6.20	109.10	101.10	103.10	101.50	72.00	40.50	104.00	119.00	65.10	42.60	110.30	117.30	
5	16.10	6.30	109.00	100.80	102.80	101.40	72.00	40.50	104.00	118.90	64.00	41.90	110.60	117.40	
6	16.20	6.30	108.70	100.90	102.60	101.40	70.40	37.70	104.00	118.90	63.80	40.50	110.90	117.40	
7	15.90	6.20	108.90	100.70	102.60	101.30	70.30	0.00	103.90	108.50	69.30	0.00	110.80	112.60	
8	16.20	6.30	108.80	100.70	102.50	101.40	74.30	0.00	103.90	105.70	73.60	0.00	111.10	111.60	
9	15.90	6.20	108.70	100.70	102.40	101.40	85.00	0.00	104.00	104.90	81.80	0.00	111.10	111.90	
10	15.90	6.20	109.00	100.70	102.40	101.70	85.50	0.00	103.90	104.40	88.70	0.00	111.20	111.70	
11	16.20	6.30	108.90	100.70	102.60	101.90	85.20	0.00	103.90	104.50	88.50	0.00	111.60	111.90	
12	15.90	6.20	109.20	100.70	102.80	102.00	84.60	0.00	104.00	104.30	88.20	0.00	111.90	112.20	
13	16.20	6.30	109.00	100.90	103.00	102.30	75.00	0.00	103.90	104.30	89.90	0.00	112.20	112.30	
14	15.90	6.20	109.00	101.00	103.00	102.50	75.70	0.00	103.90	104.20	83.80	0.00	112.90	112.30	
15	16.20	6.30	109.20	101.20	103.20	102.80	69.70	0.00	105.40	104.50	78.10	0.00	112.70	112.40	
16	15.90	6.20	109.20	101.50	103.40	103.20	68.40	0.00	105.00	104.50	69.90	0.00	112.90	112.20	
17	16.20	6.30	109.10	102.00	103.50	103.10	68.20	0.00	104.90	104.50	74.90	0.00	112.50	112.00	
18	15.90	6.20	109.10	102.30	103.60	103.00	71.70	0.00	104.40	104.60	73.60	0.70	113.10	112.00	
19	16.20	6.30	109.10	102.40	103.40	102.80	72.50	40.30	104.20	116.90	75.70	41.80	112.70	116.10	
20	15.90	6.20	109.00	102.20	103.40	102.50	71.70	41.20	103.80	118.30	75.20	41.70	112.70	116.90	
21	16.20	6.30	108.90	102.10	103.20	102.20	73.50	40.40	103.90	118.80	75.00	42.40	112.60	116.90	
22	15.90	6.20	109.00	102.10	103.20	102.20	71.30	40.40	103.80	118.70	73.40	41.70	112.50	117.00	
23	16.20	6.30	109.10	101.80	103.40	102.00	65.60	40.40	103.70	119.00	67.90	41.70	112.30	116.90	
24	15.90	6.20	108.90	101.50	103.20	101.70	66.50	41.20	103.60	119.30	62.90	41.70	112.30	117.30	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB	WA TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB	GAS % SAT	
1	55.80	28.20	114.20	117.30	55.00	54.50	115.90	112.60	0.00	106.80	109.50	107.80	0.00	106.70	
2	55.90	28.30	114.40	117.10	55.00	54.50	115.70	112.20	0.00	106.70	109.50	107.80	0.00	106.40	
3	55.80	28.20	114.90	117.00	55.00	54.50	115.50	112.20	0.00	106.50	109.40	107.50	0.00	106.40	
4	56.80	28.70	115.80	117.30	56.00	55.50	115.50	112.50	0.00	106.40	109.30	107.50	0.00	106.20	
5	55.80	28.30	115.80	117.10	54.50	54.00	115.40	112.20	0.00	106.20	109.20	107.30	0.00	106.10	
6	56.40	28.20	116.10	117.10	59.10	44.80	115.30	112.20	0.00	105.90	109.00	107.00	0.00	105.70	
7	69.10	28.30	115.80	117.30	67.70	44.90	115.10	112.20	0.00	105.50	108.80	106.80	0.00	105.50	
8	69.90	28.30	115.50	117.30	68.90	44.90	114.90	112.80	0.00	105.70	108.70	106.70	0.00	105.30	
9	79.00	28.30	115.00	117.60	79.30	45.80	114.90	113.10	0.00	106.30	108.60	106.60	0.00	105.40	
10	90.10	28.80	114.30	118.00	87.90	44.90	114.80	113.60	0.00	108.50	108.40	106.70	0.00	105.50	
11	88.80	28.30	114.20	118.30	88.70	45.00	114.90	113.90	0.00	110.10	108.20	106.80	0.00	105.90	
12	88.00	28.20	113.70	118.50	100.30	44.90	114.90	114.00	0.00	109.70	108.30	107.00	0.00	106.40	
13	87.90	28.30	112.80	118.60	99.70	44.90	115.10	114.50	0.00	110.30	108.30	107.20	0.00	106.60	
14	87.80	28.30	112.70	118.70	99.80	44.80	115.70	114.20	0.00	110.20	108.40	107.20	0.00	107.30	
15	87.30	28.30	112.70	118.90	103.00	45.60	115.40	114.20	0.00	110.20	108.40	107.30	0.00	107.60	
16	85.30	28.30	112.80	118.50	94.00	44.80	115.70	114.30	0.00	110.90	108.40	107.50	0.00	107.60	
17	86.40	28.80	113.50	118.50	93.30	44.70	116.50	114.00	0.00	109.60	108.30	107.60	0.00	107.70	
18	72.90	28.30	114.00	118.30	87.90	46.60	116.70	113.80	0.00	112.60	108.30	107.40	0.00	107.60	
19	74.20	28.20	113.40	117.80	77.10	66.40	115.60	113.90	0.00	112.00	108.30	107.30	0.00	107.50	
20	75.50	28.80	113.90	117.60	77.40	67.70	115.40	114.80	0.00	110.90	108.40	107.30	0.00	107.30	
21	76.70	30.00	114.70	117.60	76.20	66.70	115.30	114.80	0.00	109.50	108.20	107.20	0.00	107.10	
22	75.10	29.90	114.80	117.40	75.90	66.70	115.10	114.70	0.00	108.40	109.10	107.10	0.00	106.70	
23	68.20	30.40	115.50	117.40	70.60	70.00	115.00	114.50	0.00	107.80	108.90	106.90	0.00	106.30	
24	59.00	29.50	116.30	117.00	69.10	68.50	114.80	113.90	0.00	107.60	108.90	106.90	0.00	105.90	

14 APR 2003

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

14 APR 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	LOWER GRANITE	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.		
1	16.20	6.30	108.90	101.30	103.10	101.60	65.60	40.60	103.40	119.10	57.30	42.40	112.10	117.20	
2	15.90	6.20	108.70	101.30	103.10	101.30	69.70	40.60	103.20	119.10	55.90	41.70	111.80	117.20	
3	16.20	6.30	109.00	101.10	102.90	101.30	74.50	40.60	102.80	118.90	55.90	41.80	111.60	117.40	
4	15.90	6.20	108.80	101.10	102.80	101.20	83.30	41.30	102.80	119.00	56.20	41.80	111.50	117.60	
5	16.20	6.30	108.70	100.90	102.60	101.20	85.50	40.70	102.50	118.30	61.90	41.90	111.50	117.60	
6	15.80	6.20	108.80	100.60	102.50	101.10	87.50	39.50	102.50	117.50	80.30	41.30	111.50	116.90	
7	16.10	6.30	108.70	100.60	102.40	101.20	90.50	20.50	102.40	110.30	82.70	0.00	111.30	113.40	
8	15.80	6.10	108.80	100.40	102.40	101.10	86.10	20.50	102.30	110.20	84.70	0.00	111.10	111.40	
9	16.20	6.30	108.80	100.40	102.40	101.30	87.10	20.50	102.30	110.50	90.10	0.00	110.80	110.80	
10	15.90	6.20	108.70	100.50	102.60	101.80	87.00	20.80	102.30	109.80	97.00	0.00	110.70	110.60	
11	16.20	6.30	109.00	100.60	102.70	102.40	85.90	20.50	102.20	109.70	97.30	0.00	110.60	110.20	
12	16.10	6.30	108.90	100.60	103.20	102.70	85.70	20.40	102.30	109.80	96.50	0.00	110.30	110.90	
13	15.90	6.20	108.90	100.70	103.30	102.90	79.10	20.40	102.30	109.60	85.70	0.00	110.10	109.60	
14	16.20	6.30	108.80	100.90	102.90	103.20	75.40	20.50	102.40	110.00	80.90	0.00	109.70	109.50	
15	15.90	6.20	108.90	101.20	103.20	103.60	76.60	20.80	102.30	109.80	78.10	0.00	109.40	109.30	
16	16.20	6.30	108.90	101.30	103.50	103.60	77.10	20.50	102.20	109.50	74.90	0.00	109.50	109.10	
17	15.90	6.20	108.60	101.60	103.50	103.30	75.60	20.50	102.10	109.70	74.90	0.00	109.40	109.10	
18	16.20	6.30	109.00	101.80	103.50	102.90	75.50	20.50	102.10	109.90	74.20	0.00	109.50	109.10	
19	15.90	6.20	108.70	102.10	103.40	102.70	89.90	20.40	101.90	109.20	86.30	37.70	109.70	114.30	
20	16.20	6.30	108.60	101.90	103.20	102.20	92.90	20.40	102.20	108.70	91.70	38.50	109.90	115.30	
21	15.90	6.10	108.50	101.70	103.20	101.80	96.90	20.80	102.20	108.80	93.30	37.80	110.00	115.40	
22	16.20	6.30	108.40	101.50	103.20	101.60	84.60	20.30	102.30	109.50	93.10	37.80	110.20	115.50	
23	15.90	6.10	108.70	101.40	103.20	101.60	82.10	20.40	102.50	108.80	80.80	37.90	110.30	115.60	
24	16.20	6.30	108.70	101.30	103.00	101.50	80.50	20.30	102.20	108.90	81.20	38.50	110.30	115.60	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB	WA TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB	GAS % SAT	
1	43.70	22.00	116.20	115.70	61.20	60.70	114.70	113.80	0.00	107.60	108.60	107.00	0.00	105.40	
2	43.50	22.00	116.20	114.40	60.00	59.40	114.60	113.40	0.00	107.50	108.40	106.80	0.00	105.10	
3	45.00	22.00	116.20	114.20	54.90	54.30	114.60	113.10	0.00	107.40	108.20	106.80	0.00	104.90	
4	44.20	22.40	115.90	114.10	44.80	44.30	114.50	113.00	0.00	107.20	108.00	106.80	0.00	104.60	
5	44.30	22.30	115.40	114.00	45.90	44.20	114.40	111.90	0.00	107.00	107.90	106.60	0.00	104.50	
6	59.00	28.80	114.50	116.20	56.00	45.10	114.20	111.70	0.00	107.10	107.70	106.50	0.00	104.30	
7	78.50	29.30	113.80	116.80	54.80	44.40	114.00	112.00	0.00	106.90	107.50	106.30	0.00	104.10	
8	85.50	29.20	113.10	116.90	70.20	44.50	113.70	112.60	0.00	106.80	107.40	106.20	0.00	103.90	
9	94.40	29.30	112.60	117.00	88.10	44.50	113.60	112.90	0.00	106.90	107.50	106.30	0.00	103.90	
10	104.20	29.80	112.50	117.40	104.50	44.50	113.50	113.50	0.00	106.90	107.40	106.30	0.00	104.00	
11	106.80	29.30	111.90	117.60	111.70	45.30	113.30	114.00	0.00	107.10	107.40	106.50	0.00	104.20	
12	107.30	29.30	111.60	117.70	110.30	44.50	113.30	114.10	0.00	107.10	107.40	106.50	0.00	104.70	
13	108.10	29.20	111.40	117.80	110.00	44.50	113.20	114.10	0.00	107.10	107.50	106.60	0.00	105.00	
14	88.40	29.30	111.70	117.70	109.90	44.50	113.20	114.10	0.00	107.20	107.60	106.80	0.00	105.40	
15	77.60	29.30	112.30	117.60	97.30	44.50	113.10	114.20	0.00	107.40	107.50	106.80	0.00	105.70	
16	76.70	29.30	112.70	117.70	87.30	44.50	113.10	114.00	0.00	107.60	107.70	106.90	0.00	106.10	
17	73.10	29.60	113.30	117.90	89.30	45.20	113.00	113.80	0.00	107.60	107.70	106.90	0.00	106.20	
18	70.80	24.40	113.70	117.80	88.30	47.40	113.00	113.90	0.00	107.60	107.60	106.80	0.00	106.30	
19	82.10	27.90	114.10	117.80	81.40	78.40	113.10	114.40	0.00	107.70	107.60	110.10	0.00	106.30	
20	85.30	28.30	114.30	117.80	79.80	79.30	113.00	114.40	0.00	107.70	107.50	116.10	0.00	105.90	
21	90.40	28.30	114.20	117.60	80.24	80.13	112.90	114.30	0.00	107.50	107.40	116.90	0.00	105.70	
22	88.20	28.30	113.90	117.50	93.30	91.20	112.90	114.70	0.00	107.30	107.40	117.20	0.00	105.40	
23	90.70	28.80	113.50	117.90	90.10	89.60	112.90	115.30	0.00	107.40	107.30	117.20	0.00	105.30	
24	79.20	28.30	114.10	117.30	90.20	89.60	112.70	115.30	0.00	107.40	107.20	117.40	0.00	105.20	

15 APR 2003

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

15 APR 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB	%SAT. TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB	%SAT. TAILW.	
1	15.90	6.10	108.50	101.10	102.90	101.30	75.90	20.40	102.30	109.20	72.70	37.90	110.30	115.80	
2	16.20	6.30	108.50	100.90	102.80	101.30	77.00	20.80	102.20	109.20	72.20	37.90	110.30	116.00	
3	15.90	6.10	108.50	100.80	102.70	101.20	75.70	20.40	101.90	109.20	70.70	37.90	110.10	115.90	
4	16.20	6.30	108.60	100.70	102.40	101.10	75.60	20.40	101.70	109.10	72.10	38.60	109.80	115.90	
5	15.90	6.10	108.60	100.50	102.30	101.00	75.50	20.50	101.60	109.20	71.00	38.00	109.60	115.90	
6	16.20	6.30	108.50	100.40	102.30	100.90	75.50	20.50	101.60	109.30	78.40	36.60	109.20	115.50	
7	15.90	6.10	108.50	100.20	102.20	100.90	80.60	20.90	101.40	109.40	79.00	0.00	108.80	110.90	
8	15.90	6.10	108.30	100.20	102.20	101.00	79.30	20.50	101.40	109.80	81.40	0.00	108.50	108.80	
9	16.10	6.20	108.50	100.10	102.30	101.20	80.80	20.50	101.30	109.60	82.90	0.00	108.10	108.20	
10	16.20	6.20	108.60	100.30	102.40	101.70	79.10	20.50	101.80	109.30	82.20	0.00	107.80	108.00	
11	15.90	6.10	108.70	100.70	102.70	102.20	86.00	20.50	101.80	109.70	85.70	0.00	107.70	107.80	
12	16.10	6.20	108.70	101.00	103.10	102.70	87.90	20.90	101.60	109.50	85.50	0.00	107.70	107.80	
13	15.90	6.20	109.10	101.10	103.40	103.40	88.40	20.50	101.70	109.50	86.40	0.00	107.70	107.80	
14	16.30	6.40	109.30	101.40	103.80	103.60	86.70	20.40	101.60	109.30	84.90	0.00	108.00	108.00	
15	15.90	6.20	109.40	101.60	103.90	103.20	79.90	20.50	101.30	109.10	85.00	0.00	108.30	108.30	
16	16.30	6.40	109.20	101.70	104.00	103.60	79.10	20.40	101.40	108.90	84.90	0.00	108.80	108.70	
17	16.10	6.40	108.90	101.90	104.20	103.20	85.10	20.50	102.00	109.60	85.00	0.00	109.00	109.00	
18	16.40	6.50	109.80	101.90	104.00	103.00	96.10	20.80	101.80	108.40	91.60	1.40	109.20	108.90	
19	16.10	6.30	110.10	101.90	104.20	102.90	95.50	20.40	101.60	108.50	94.40	36.90	109.10	114.00	
20	16.40	6.50	109.90	101.80	104.30	102.50	95.50	20.30	102.00	108.30	93.90	36.90	109.10	114.70	
21	16.10	6.30	109.60	101.60	104.00	102.30	87.20	20.30	101.50	108.40	94.60	36.90	108.70	115.00	
22	16.30	6.50	109.70	101.40	103.80	102.20	79.20	20.30	101.50	108.80	94.70	37.60	108.50	114.90	
23	16.30	6.50	109.80	101.30	103.70	101.90	80.30	20.70	101.30	108.60	92.20	36.80	108.40	114.70	
24	16.00	6.30	109.60	101.10	103.50	101.70	71.90	20.30	101.30	109.00	66.00	36.90	108.20	115.40	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. OR FB	%SAT. WA FB	TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB	
1	69.50	28.30	113.70	116.90	90.10	89.60	112.70	115.30	195.30	135.00	107.20	107.20	117.30	:	105.00
2	69.20	28.30	113.40	116.70	85.50	84.90	112.60	115.10	195.40	135.00	107.10	107.00	117.30	:	104.80
3	69.20	28.30	113.20	116.70	72.00	71.40	112.60	114.50	195.90	135.00	106.90	107.00	117.30	:	104.70
4	70.50	28.80	112.70	116.60	72.20	70.10	112.60	114.00	207.60	135.00	106.90	106.80	117.30	:	104.50
5	69.30	28.30	112.40	116.60	69.60	67.20	112.40	114.00	236.30	135.00	106.80	106.70	117.00	:	104.30
6	70.90	28.30	112.10	116.50	69.80	45.70	112.40	113.80	230.30	124.00	106.80	106.60	116.70	:	104.00
7	70.40	28.30	111.60	116.60	75.20	45.70	112.10	113.30	172.00	0.10	106.60	106.50	112.80	:	104.00
8	70.70	28.30	111.50	116.60	75.50	45.70	112.00	113.30	175.40	0.00	106.60	106.40	108.10	:	103.80
9	81.50	28.30	111.70	117.00	84.40	46.50	111.90	113.40	176.00	0.00	106.50	106.50	106.80	:	103.80
10	87.60	28.80	111.30	117.20	87.40	45.70	111.80	113.70	175.60	0.00	106.70	106.50	106.40	:	104.00
11	86.10	28.30	111.40	117.50	87.70	45.80	111.70	113.90	163.20	0.00	106.80	106.50	106.30	:	104.40
12	86.30	28.30	111.40	117.70	94.00	45.80	111.70	114.00	162.80	0.00	107.20	106.70	106.00	:	104.80
13	89.40	28.30	111.70	118.10	94.40	45.70	111.60	114.20	162.80	0.00	107.50	106.50	106.00	:	105.10
14	90.50	28.40	112.10	118.10	96.20	46.50	111.50	114.20	173.00	0.00	107.80	106.50	106.00	:	105.50
15	93.60	30.50	112.50	118.10	94.50	45.70	111.50	114.20	174.60	0.00	107.80	106.50	105.80	:	106.00
16	85.90	30.00	112.90	118.20	94.20	45.70	111.60	114.10	174.70	0.00	107.60	106.70	105.90	:	106.30
17	85.50	30.00	113.40	118.40	94.20	45.70	111.60	113.90	174.90	0.00	107.50	106.60	105.80	:	106.30
18	90.80	30.00	113.80	118.30	93.50	46.30	111.50	113.80	171.40	1.00	107.30	106.50	105.80	:	106.40
19	94.90	30.00	113.90	118.50	87.60	76.40	111.30	114.30	198.30	131.50	107.50	106.40	109.10	:	106.20
20	95.50	30.00	113.70	118.10	97.00	87.00	111.30	115.20	204.60	140.50	107.10	106.40	117.50	:	105.90
21	95.60	30.00	114.10	117.70	95.40	85.60	111.30	115.80	204.60	140.50	106.80	106.50	118.30	:	105.50
22	97.20	30.50	113.40	117.60	94.40	86.50	111.30	115.70	204.20	140.50	106.80	106.50	118.30	:	105.40
23	95.70	30.00	113.10	117.50	92.50	91.90	111.20	115.80	204.50	140.50	106.70	106.40	118.40	:	105.10
24	93.20	30.00	112.50	117.30	92.50	91.90	111.20	115.50	204.20	140.50	106.60	106.40	118.30	:	105.00

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**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

16 APR 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	LOWER GRANITE	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.		
1	16.10	6.40	109.60	101.00	103.50	101.60	71.00	20.40	101.20	109.50	64.20	36.90	107.90	115.70	
2	16.40	6.50	109.40	101.00	103.30	101.50	71.10	20.40	101.10	109.30	56.10	36.90	107.50	116.20	
3	16.10	6.30	108.50	100.80	103.00	101.50	70.90	20.40	101.10	109.00	56.80	37.60	107.30	116.30	
4	16.30	6.30	108.40	100.60	102.70	101.50	72.50	20.80	100.90	109.10	56.70	37.00	107.00	116.30	
5	16.00	6.20	108.40	100.70	102.50	101.30	71.00	20.50	100.80	109.00	71.40	37.00	107.00	115.70	
6	16.20	6.30	108.10	100.50	102.40	101.10	70.40	19.30	100.60	109.00	72.00	35.40	106.70	115.70	
7	16.00	6.20	108.20	100.50	102.20	101.10	74.10	0.00	100.60	102.50	82.10	0.40	106.40	109.40	
8	16.20	6.30	108.30	100.30	102.20	101.40	85.10	0.00	100.70	101.50	91.40	0.00	106.40	107.30	
9	16.00	6.20	108.40	100.00	102.40	101.80	87.00	0.00	100.70	101.20	94.20	0.00	106.80	107.10	
10	16.20	6.30	108.40	99.90	102.70	101.90	84.90	0.00	100.70	101.10	94.30	0.00	107.10	107.30	
11	16.00	6.20	108.40	99.70	102.80	101.90	84.80	0.00	100.70	101.00	90.10	0.00	107.60	107.50	
12	16.20	6.30	108.40	99.70	103.10	102.00	75.50	0.00	100.80	101.20	86.10	0.00	107.80	107.60	
13	15.90	6.20	108.50	100.30	103.30	102.50	75.50	0.00	101.10	101.20	85.20	0.00	108.10	107.80	
14	16.20	6.30	108.50	100.40	103.40	103.30	76.10	0.00	101.30	101.40	71.70	0.00	108.70	108.30	
15	16.20	6.30	108.70	100.90	103.80	103.60	76.90	0.00	101.50	101.60	71.50	0.00	109.00	108.60	
16	15.90	6.20	108.50	101.40	104.20	104.00	75.30	0.00	101.90	101.50	73.10	0.00	109.30	109.10	
17	16.20	6.30	109.00	101.70	104.20	104.20	75.70	0.00	102.20	101.60	71.30	0.00	109.50	109.40	
18	15.90	6.20	109.40	101.90	104.40	104.10	73.90	0.00	102.30	101.80	71.20	0.70	109.70	109.40	
19	16.20	6.30	109.60	102.00	104.40	103.70	74.90	36.70	102.10	116.40	83.00	36.30	109.80	113.90	
20	16.00	6.20	109.40	102.10	104.30	103.40	77.40	41.10	102.20	117.40	82.50	36.90	110.50	115.20	
21	16.20	6.30	109.40	102.00	104.30	103.10	75.90	40.30	102.20	118.10	84.40	37.50	110.10	115.40	
22	15.90	6.20	109.50	102.00	104.20	102.70	74.90	40.40	102.10	118.30	82.40	36.80	110.00	115.40	
23	16.20	6.30	109.30	101.90	104.20	102.50	68.40	40.40	102.30	118.60	67.30	36.80	109.70	115.80	
24	15.90	6.20	109.40	101.80	104.20	102.20	66.90	40.50	102.20	118.60	59.40	36.80	110.00	116.40	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	MCNARY	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	PASCO	
1	57.90	28.60	111.50	116.80	90.80	90.20	111.20	115.50	204.60	140.50	106.30	106.30	118.40	104.70	
2	55.90	28.30	111.20	116.50	74.20	72.00	111.20	114.80	208.60	140.50	106.20	106.30	118.30	104.50	
3	46.00	23.50	111.30	115.60	62.40	61.70	111.10	113.90	239.10	140.30	106.20	106.30	117.90	104.30	
4	46.50	23.10	110.70	114.10	53.00	52.30	111.00	113.40	242.80	140.30	106.00	106.20	117.70	104.20	
5	44.30	22.70	110.30	114.00	52.20	50.60	110.90	112.60	243.20	140.30	105.90	106.00	117.60	104.00	
6	46.80	23.10	109.90	114.10	50.20	38.90	110.90	112.40	230.10	124.80	105.90	106.00	117.60	103.80	
7	80.30	30.00	109.80	116.30	64.60	44.10	110.80	111.70	168.80	0.00	105.70	105.80	112.50	103.80	
8	93.30	30.00	109.00	117.00	81.70	44.20	111.10	112.60	109.10	0.00	105.70	105.80	107.00	103.80	
9	100.60	30.00	109.00	117.30	96.30	44.30	110.90	113.30	105.00	0.00	105.80	105.80	106.30	103.80	
10	97.50	30.50	109.70	117.50	103.60	44.30	110.90	113.60	105.00	0.00	106.50	106.00	105.70	104.10	
11	95.00	30.00	110.10	117.60	102.60	44.30	111.10	114.00	106.80	0.00	107.50	105.80	105.70	104.20	
12	95.00	30.00	110.70	118.00	104.60	45.10	111.30	114.00	144.70	0.00	107.80	105.80	105.80	104.70	
13	94.50	30.00	111.40	118.10	102.30	44.30	111.50	114.00	170.10	0.00	108.70	105.80	105.90	105.20	
14	81.50	30.00	111.90	118.10	92.80	44.40	111.60	114.00	170.90	0.00	109.80	106.20	105.70	105.80	
15	83.50	32.20	112.70	119.00	93.50	44.40	111.80	113.90	170.90	0.00	110.70	106.40	105.70	106.10	
16	82.50	31.70	113.10	119.20	92.00	44.30	112.20	114.20	170.90	0.00	112.50	106.80	105.80	106.50	
17	82.00	31.70	113.00	119.20	91.70	44.20	112.60	113.90	170.10	0.00	112.10	107.20	106.00	106.60	
18	67.90	26.20	113.50	118.40	92.00	45.00	113.30	113.80	176.30	8.10	111.00	107.40	106.20	106.70	
19	72.00	32.20	113.80	118.20	74.80	63.10	112.90	113.70	216.10	94.80	110.60	108.30	112.20	106.60	
20	75.20	32.80	114.10	118.20	74.60	63.50	113.00	114.30	271.20	133.10	107.50	107.90	116.30	106.60	
21	72.40	32.20	114.60	117.90	73.10	63.60	112.80	114.20	286.90	145.00	107.10	107.80	118.30	106.20	
22	72.30	32.20	114.40	117.90	74.60	63.70	112.90	114.10	284.50	145.00	107.70	107.70	118.30	106.00	
23	71.70	32.20	113.90	117.80	69.70	69.00	112.70	114.30	223.10	145.00	106.90	107.30	118.40	105.80	
24	72.80	32.20	113.40	117.80	68.50	67.90	112.90	113.90	219.60	145.00	106.30	107.30	118.40	105.50	

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**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

17 APR 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	LOWER GRANITE	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.		
1	16.20	6.30	109.50	101.70	104.10	102.10	58.90	41.30	102.20	119.00	51.30	37.50	109.60	116.20	
2	15.90	6.20	109.50	101.60	104.10	102.10	59.00	40.60	102.20	119.40	50.00	36.80	109.50	116.50	
3	16.20	6.30	109.60	101.40	103.80	102.00	69.10	40.70	102.00	118.90	51.50	36.80	109.30	116.50	
4	15.90	6.20	109.50	101.20	103.70	101.80	81.20	40.70	102.10	118.20	50.10	36.90	109.20	116.50	
5	15.90	6.20	109.70	101.10	103.50	101.80	89.90	40.70	102.00	117.90	52.50	37.70	109.20	116.60	
6	16.20	6.30	109.50	101.20	103.30	101.90	89.70	39.30	101.80	117.70	72.40	34.70	109.00	116.10	
7	16.20	6.30	109.50	101.10	103.30	101.80	86.30	3.10	101.70	104.30	81.00	0.00	108.70	111.10	
8	15.90	6.20	109.70	101.10	103.20	102.00	85.80	0.00	101.60	103.20	85.40	0.00	108.60	109.10	
9	16.20	6.30	109.90	100.90	103.20	102.40	78.70	0.00	101.70	102.60	85.40	0.00	108.70	109.00	
10	15.90	6.20	109.80	101.00	103.60	102.90	80.20	0.00	101.80	102.90	87.60	0.00	108.70	108.80	
11	16.00	6.10	108.50	101.10	103.80	103.30	75.90	0.00	101.90	102.40	85.40	0.00	108.70	108.50	
12	15.50	5.70	108.30	101.20	103.50	103.80	75.50	0.00	102.00	102.40	74.70	0.00	108.70	108.50	
13	15.50	5.70	108.40	101.20	103.70	104.00	76.90	0.00	101.90	102.60	74.30	0.00	108.60	108.70	
14	15.70	5.80	108.20	101.60	103.80	104.20	76.10	0.00	102.30	102.60	76.30	0.00	108.50	108.30	
15	15.70	5.80	108.50	101.90	103.80	104.60	75.60	0.00	102.30	102.50	74.70	0.00	108.40	108.10	
16	15.40	5.70	108.40	102.20	104.10	104.70	71.80	0.00	102.00	102.60	74.50	0.00	108.20	107.70	
17	15.70	5.80	108.00	102.20	104.00	104.60	71.60	0.00	101.90	102.30	74.40	0.00	108.00	107.70	
18	15.50	5.70	108.00	102.30	103.90	104.20	67.80	0.00	101.90	102.40	75.60	2.40	108.00	107.70	
19	15.70	5.80	107.90	102.20	103.60	103.80	68.60	39.00	101.90	115.80	77.70	37.70	107.80	114.30	
20	15.40	5.70	108.00	102.00	103.60	103.00	67.80	40.30	101.80	117.70	72.30	37.00	107.90	115.50	
21	15.70	5.80	107.80	101.80	103.60	102.30	67.70	40.30	102.20	118.00	72.30	37.00	107.90	115.60	
22	15.40	5.70	107.80	101.70	103.50	102.10	67.70	40.40	102.20	118.30	73.40	37.00	107.80	115.80	
23	15.70	5.80	107.70	101.30	103.40	101.70	70.50	41.20	102.40	118.60	67.20	37.60	107.80	115.80	
24	15.40	5.70	107.80	101.20	103.40	101.60	59.00	40.50	102.20	118.80	59.40	36.90	107.60	115.90	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	MCNARY	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	PASCO	
1	60.90	32.20	112.80	117.50	70.10	69.60	112.80	114.10	212.00	145.00	106.40	107.30	118.60	105.40	
2	59.20	31.10	112.50	117.40	66.00	65.40	112.90	114.00	211.90	145.00	106.50	107.50	118.80	105.30	
3	40.80	20.70	112.70	115.80	50.10	49.50	112.90	114.10	213.70	145.00	106.50	107.50	118.70	105.10	
4	39.50	20.20	111.90	114.00	50.90	50.30	112.70	112.90	239.00	145.00	106.50	107.70	118.40	105.00	
5	40.50	20.60	111.40	113.90	50.50	48.70	112.80	112.70	242.70	144.90	106.60	107.70	118.00	104.80	
6	64.00	31.80	111.10	116.50	54.90	44.80	112.80	112.60	250.40	131.60	106.60	107.70	118.00	104.80	
7	72.90	31.80	111.00	117.30	64.10	44.70	112.80	112.70	170.10	0.10	106.60	107.70	113.00	104.70	
8	91.80	32.30	110.10	117.70	89.50	44.80	112.80	113.00	173.70	0.00	106.60	107.70	108.90	104.70	
9	84.50	31.80	110.00	117.80	88.50	45.60	113.00	113.70	173.90	0.00	106.70	107.70	107.70	104.90	
10	84.40	31.80	109.90	117.90	88.50	44.90	113.00	113.90	172.70	0.00	107.30	107.90	107.40	104.80	
11	77.10	31.80	109.80	117.90	77.40	44.90	113.10	114.00	172.20	0.00	106.90	108.10	107.30	105.00	
12	73.80	31.80	109.80	118.10	75.30	44.90	113.30	113.80	171.20	0.00	107.10	107.90	107.30	105.40	
13	76.00	34.00	110.40	118.00	73.80	44.90	113.50	113.80	171.40	0.00	108.00	108.20	107.30	105.60	
14	78.30	35.90	110.30	118.30	77.00	45.00	113.50	113.70	171.10	0.00	108.60	108.20	107.20	105.80	
15	77.70	35.20	111.20	118.60	79.50	45.80	113.50	113.40	197.10	25.70	108.10	108.30	107.30	105.80	
16	78.70	35.20	111.80	118.20	81.40	44.90	113.40	113.60	233.10	59.70	107.70	108.40	110.90	105.80	
17	77.40	35.20	112.50	118.30	81.10	45.00	113.60	113.90	233.40	59.80	107.70	108.30	112.30	105.70	
18	77.10	35.20	113.10	118.10	84.80	45.20	113.40	113.70	238.20	65.60	107.60	108.20	112.30	105.70	
19	78.80	35.80	113.10	117.90	104.50	91.00	113.60	114.90	296.30	153.10	107.50	107.90	117.10	105.70	
20	79.10	35.20	113.00	117.70	105.00	91.70	113.50	116.40	297.80	154.70	107.40	107.70	118.50	105.60	
21	77.80	35.20	113.00	117.60	95.50	82.40	113.50	116.60	299.10	154.90	107.20	107.30	118.80	105.40	
22	76.90	34.50	113.40	117.40	91.60	79.60	113.50	115.40	298.00	154.60	107.00	107.10	118.80	105.30	
23	64.60	31.80	113.50	117.10	76.20	75.60	113.50	115.10	249.10	154.60	107.10	106.90	118.60	105.10	
24	62.30	32.40	113.80	117.00	55.50	54.90	113.40	114.60	246.20	154.60	107.00	106.60	118.40	104.90	

18 APR 2003

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

18 APR 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	LOWER GRANITE	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.		
1	15.70	5.80	107.60	101.00	103.20	101.40	59.40	40.60	102.30	118.70	58.70	36.90	107.50	115.80	
2	15.40	5.70	107.80	100.80	103.20	101.30	67.70	40.60	102.10	118.70	51.00	36.90	107.30	115.80	
3	15.70	5.80	107.70	100.80	103.00	101.10	71.80	40.70	102.10	118.60	50.50	36.90	107.20	115.90	
4	15.50	5.70	107.90	100.60	102.80	101.00	75.20	41.40	102.00	118.50	53.80	37.70	107.20	116.10	
5	15.70	5.80	107.70	100.40	102.60	100.90	74.10	40.70	101.90	118.50	68.30	37.00	107.10	115.90	
6	15.40	5.70	107.40	100.20	102.30	100.70	74.00	39.60	101.70	118.40	71.90	37.10	106.90	115.60	
7	15.70	5.80	107.40	99.90	102.10	100.60	77.70	0.00	101.40	105.60	73.40	0.70	106.70	108.50	
8	15.40	5.70	107.40	99.70	102.10	100.90	74.50	0.00	101.50	104.30	80.40	0.00	106.60	107.50	
9	15.70	5.80	107.40	99.70	102.30	101.30	75.30	0.00	101.40	103.40	81.00	0.00	106.40	106.80	
10	15.40	5.70	107.40	99.60	102.50	101.60	74.10	0.00	101.50	102.60	82.40	0.00	106.30	106.50	
11	15.70	5.80	107.30	99.60	102.50	101.90	74.20	0.00	101.50	102.40	80.40	0.00	106.10	106.20	
12	15.40	5.70	107.10	99.60	102.40	102.50	71.40	0.00	101.40	102.40	74.10	0.00	106.00	106.60	
13	15.70	5.80	107.90	99.70	102.50	102.90	71.20	0.00	101.40	102.10	75.10	0.00	105.80	106.00	
14	15.50	5.80	108.60	99.70	102.90	103.00	69.00	0.00	101.40	102.10	72.20	0.00	105.80	105.90	
15	15.80	5.90	108.30	100.20	103.50	103.10	66.50	0.00	101.40	101.90	67.90	0.00	105.80	105.90	
16	15.50	5.80	108.40	100.20	103.60	103.50	66.70	0.00	101.40	101.90	68.30	0.00	105.70	106.00	
17	15.80	5.90	108.30	100.60	103.80	103.50	66.70	0.00	101.40	102.00	69.40	0.00	105.70	105.90	
18	15.50	5.80	108.20	101.20	103.90	103.50	67.40	1.60	101.40	101.80	67.20	0.50	105.60	105.80	
19	15.80	5.90	108.20	101.60	103.80	103.10	70.80	41.10	101.40	116.10	59.20	35.00	105.80	112.90	
20	15.50	5.80	108.10	101.50	103.40	102.40	69.50	40.40	101.70	117.20	66.00	37.00	105.70	115.20	
21	15.80	5.90	108.10	101.10	103.30	101.90	67.80	40.40	101.80	117.90	78.00	37.00	105.50	115.00	
22	15.80	5.90	108.10	100.80	103.10	101.60	69.50	40.40	101.80	118.20	75.70	37.60	105.50	115.00	
23	15.50	5.80	107.90	100.50	103.10	101.30	67.70	40.40	101.80	118.30	64.60	36.90	105.50	115.30	
24	15.80	5.90	107.90	100.20	103.00	101.10	67.80	40.40	102.00	118.40	63.40	36.90	105.50	115.50	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	MCNARY	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	PASCO	
1	59.60	31.80	114.60	117.00	56.40	55.80	113.20	112.60	250.70	154.50	107.00	106.40	118.30	104.70	
2	57.60	30.30	113.60	116.90	55.50	54.90	113.00	112.30	257.00	154.50	106.80	106.10	118.30	104.70	
3	42.10	20.50	113.40	115.30	55.60	55.10	112.80	112.30	259.00	154.50	106.70	105.90	118.30	104.50	
4	42.10	20.50	113.10	114.00	55.50	54.90	112.90	112.20	290.90	154.30	106.60	105.70	118.50	104.10	
5	42.90	20.80	112.80	113.60	54.80	53.70	112.80	112.10	293.10	154.00	106.40	105.50	118.70	104.10	
6	52.40	22.70	112.30	113.60	54.30	44.90	112.80	112.20	279.80	138.00	106.40	105.60	118.60	103.90	
7	69.00	34.30	111.70	116.00	56.50	45.70	112.60	112.40	171.60	0.20	106.30	105.30	114.60	103.60	
8	77.90	34.80	111.20	116.90	67.30	45.00	112.50	112.60	173.10	0.00	106.00	105.30	108.00	103.50	
9	80.30	34.90	110.50	117.20	78.80	45.00	112.50	112.90	173.50	0.00	106.00	105.30	106.30	103.50	
10	82.70	34.90	109.70	117.50	79.60	45.10	112.30	113.50	173.00	0.00	105.90	105.40	105.80	103.50	
11	81.10	34.90	109.00	117.60	81.50	45.10	112.30	113.60	171.80	0.00	105.80	105.30	105.50	103.60	
12	82.70	35.40	109.00	117.80	81.90	45.10	112.30	113.70	171.10	0.00	107.60	105.30	105.40	103.90	
13	81.70	34.80	108.60	118.10	91.60	45.90	112.20	114.00	170.50	0.00	108.20	105.30	105.40	104.10	
14	79.40	34.90	108.40	118.30	89.00	45.10	112.20	113.90	169.50	0.00	107.70	105.40	105.60	104.50	
15	70.90	34.90	108.60	118.10	89.10	45.00	112.20	114.10	169.40	0.00	107.80	105.50	105.50	104.70	
16	71.60	35.30	108.90	118.10	88.80	45.00	112.50	113.90	169.50	0.00	107.90	105.60	105.50	105.00	
17	70.60	35.00	109.30	118.10	81.70	45.00	112.90	113.90	169.40	0.00	108.10	105.70	105.40	105.10	
18	71.30	34.50	109.40	118.10	79.10	44.90	112.80	113.70	171.80	5.30	108.80	105.90	105.40	105.20	
19	54.20	23.80	109.90	115.70	95.60	83.20	112.60	113.40	210.10	103.50	109.30	105.70	112.00	105.30	
20	59.40	29.40	109.90	116.90	83.30	82.70	112.50	115.90	267.80	160.50	109.20	105.70	117.70	105.10	
21	77.90	38.50	110.30	118.30	72.60	72.00	112.30	114.40	268.80	160.80	106.80	105.70	119.10	105.10	
22	82.00	39.60	110.60	118.60	72.60	72.00	112.20	113.60	272.30	160.80	105.50	105.50	119.50	104.90	
23	81.60	38.70	110.90	118.50	64.30	62.20	112.00	113.60	247.10	160.70	105.20	105.30	119.70	104.80	
24	63.30	30.60	111.00	117.70	61.40	60.90	112.20	113.60	233.10	160.70	105.10	105.30	119.80	104.80	

19 APR 2003

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

19 APR 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	LOWER GRANITE	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	LOWER GRANITE	LITTLE GOOSE
1	15.50	5.70	107.80	100.00	102.80	101.10	69.40	41.20	101.40	118.40	63.50	36.90	105.30	115.60	
2	15.80	5.80	108.00	99.70	102.60	100.90	68.10	40.50	101.80	118.60	66.00	37.60	105.20	115.60	
3	15.50	5.70	107.70	99.50	102.50	100.70	68.10	40.50	101.50	118.60	63.30	36.90	105.10	115.70	
4	15.80	5.90	107.90	99.40	102.20	100.60	68.10	40.50	101.30	118.50	64.80	36.90	105.00	115.50	
5	15.50	5.70	107.70	99.30	102.20	100.50	68.10	40.50	101.20	118.50	63.40	36.90	104.90	115.60	
6	15.70	5.80	107.60	99.20	102.00	100.40	68.90	39.90	101.20	118.60	64.50	36.90	104.60	115.50	
7	15.50	5.70	107.80	99.10	102.00	100.50	67.40	1.50	101.30	104.40	64.70	1.30	104.10	108.60	
8	15.80	5.80	107.70	99.20	102.20	100.80	67.20	0.00	101.30	102.90	67.60	0.00	103.90	105.30	
9	15.50	5.70	107.80	99.50	102.40	101.30	67.40	0.00	101.40	102.40	67.50	0.00	103.90	104.50	
10	15.80	5.80	108.20	99.50	102.90	101.90	68.00	0.00	101.60	102.30	67.80	0.00	103.80	104.20	
11	15.40	5.70	108.00	99.50	103.40	102.80	66.10	0.00	102.10	102.40	68.80	0.00	104.00	104.20	
12	15.70	5.80	108.50	99.40	103.80	103.50	63.30	0.00	102.70	102.20	66.20	0.00	104.20	104.30	
13	15.50	5.70	108.40	99.50	104.20	104.30	63.10	0.00	103.20	102.30	66.20	0.00	104.10	104.40	
14	15.80	5.80	108.50	99.60	104.50	104.90	61.20	0.00	103.60	102.50	66.20	0.00	104.10	104.30	
15	15.50	5.70	108.40	99.90	104.80	105.30	61.00	0.00	103.70	102.60	67.50	0.00	104.30	104.70	
16	15.80	5.80	108.40	100.30	105.00	105.50	62.20	0.00	102.60	102.80	67.70	0.00	105.30	105.30	
17	15.50	5.70	108.30	101.10	105.00	105.40	57.90	0.00	103.60	102.40	62.20	0.00	106.70	105.50	
18	15.80	5.80	108.40	101.90	105.00	105.20	39.90	0.00	104.10	102.50	53.90	2.30	107.40	105.60	
19	15.50	5.70	108.40	102.50	104.90	104.60	64.40	33.30	103.50	115.40	69.70	36.80	107.90	113.40	
20	15.80	5.80	108.20	102.80	104.60	104.00	71.30	40.40	103.90	117.60	65.60	37.40	108.30	115.30	
21	15.70	5.80	108.20	102.60	104.40	103.50	71.00	40.40	103.50	118.10	65.20	36.80	108.40	115.70	
22	15.40	5.70	108.30	102.30	104.20	103.10	71.60	40.30	103.20	118.30	68.10	36.80	108.40	115.70	
23	15.70	5.80	108.30	102.20	104.20	102.70	67.90	41.00	103.10	118.50	64.00	36.80	108.00	115.70	
24	15.40	5.70	108.30	101.90	104.00	102.30	58.40	40.40	103.20	118.90	63.30	37.50	108.30	115.80	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	MCNARY	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	PASCO	
1	62.40	30.20	111.40	117.60	59.70	59.20	112.10	113.40	160.60	104.90	105.60	119.70	104.60		
2	59.10	28.60	111.80	116.70	55.30	54.80	112.00	113.20	160.40	105.10	106.20	119.90	104.50		
3	55.20	27.20	111.70	116.30	62.30	61.70	111.90	112.20	160.40	105.50	105.80	119.70	104.30		
4	56.20	27.70	111.50	116.30	65.50	64.90	111.80	113.30	160.20	105.00	105.80	119.10	104.20		
5	55.20	27.20	110.50	116.20	64.90	63.60	111.80	113.30	159.50	104.80	105.60	118.90	104.00		
6	55.20	27.20	110.40	116.20	57.50	45.00	111.70	113.40	150.70	104.80	105.60	118.90	103.90		
7	57.50	27.90	110.00	116.00	58.50	44.90	111.60	112.40	104.70	0.30	105.60	113.70	103.60		
8	67.90	32.70	109.80	116.50	65.30	45.00	111.60	112.50	104.70	0.00	105.60	106.50	103.60		
9	67.30	33.40	109.80	116.90	70.60	45.00	111.70	112.70	105.20	0.00	105.70	105.30	103.60		
10	73.70	36.90	109.40	117.40	79.10	45.00	112.60	113.30	105.80	0.00	105.90	105.10	103.70		
11	75.20	37.60	109.90	117.80	82.50	45.70	113.30	113.50	106.40	0.00	105.90	105.10	103.90		
12	73.80	36.90	109.50	118.10	79.50	44.90	113.30	113.50	106.90	0.00	105.80	105.20	104.40		
13	71.00	34.60	109.30	118.10	78.10	44.90	113.60	113.50	107.30	0.00	105.80	105.30	104.90		
14	68.70	34.20	110.00	118.20	75.80	45.00	114.80	113.60	108.80	0.00	106.60	105.60	105.30		
15	65.10	32.50	110.20	118.20	75.60	45.00	116.80	113.60	109.60	0.00	106.80	105.50	105.70		
16	66.20	33.10	109.10	118.20	76.80	45.70	116.70	113.50	111.90	0.00	106.60	105.60	106.10		
17	64.80	32.60	109.60	118.30	74.00	45.00	117.10	113.60	111.70	0.00	106.60	105.70	106.30		
18	61.40	30.90	109.70	118.20	74.10	45.60	115.60	113.20	112.20	0.00	106.80	105.70	106.30		
19	61.10	30.80	109.10	118.20	70.30	59.60	113.60	113.20	115.80	0.00	106.90	116.20	106.20		
20	61.20	30.90	109.10	117.80	69.20	59.60	113.10	113.90	116.00	0.00	108.80	108.00	120.30		
21	65.40	30.80	109.50	117.50	69.00	59.50	113.00	113.70	116.00	0.00	107.90	109.20	120.40		
22	65.80	31.00	110.40	117.50	71.80	60.60	113.00	113.70	116.00	0.00	106.30	108.30	120.80		
23	67.50	32.20	109.90	117.20	69.10	59.50	114.50	114.10	116.00	0.00	106.30	107.40	120.60		
24	59.70	28.60	110.20	116.80	69.10	59.60	114.20	113.90	116.00	0.00	105.90	107.00	120.60		

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**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

20 APR 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	LOWER GRANITE	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.		
1	15.70	5.80	108.40	101.80	103.90	102.00	58.00	40.40	103.20	119.20	55.00	36.80	108.40	116.00	
2	15.40	5.70	108.20	101.50	103.60	101.80	58.10	40.40	103.10	119.20	55.00	36.80	108.20	116.10	
3	15.70	5.80	108.20	101.30	103.40	101.60	60.40	40.50	102.80	119.10	55.10	36.80	108.10	116.20	
4	15.40	5.70	108.20	101.10	103.20	101.50	61.40	40.60	102.70	119.30	56.00	37.40	108.00	116.20	
5	15.70	5.80	108.10	100.90	103.00	101.30	71.20	41.30	102.50	118.90	55.40	36.90	107.90	116.20	
6	15.40	5.70	108.20	100.70	102.80	101.20	69.30	38.30	102.10	118.80	64.30	36.80	107.70	115.90	
7	15.70	5.80	107.90	100.60	102.70	101.20	76.10	20.50	102.10	110.60	69.40	0.40	107.60	110.20	
8	15.40	5.70	108.20	100.50	102.90	101.60	77.20	20.50	102.20	109.50	71.40	0.00	107.40	108.10	
9	15.70	5.80	108.20	100.40	103.00	102.20	73.10	20.50	102.20	110.00	72.70	0.00	107.40	107.70	
10	15.40	5.70	108.30	100.30	103.40	102.80	74.20	20.40	102.40	110.50	71.40	0.00	107.20	107.50	
11	15.70	5.80	108.40	100.60	103.80	103.60	67.20	20.40	102.70	109.70	65.30	0.00	107.10	107.50	
12	15.40	5.70	108.50	100.90	104.20	104.40	62.80	20.40	103.50	110.50	61.50	0.00	107.10	107.30	
13	15.70	5.80	108.60	101.40	104.60	105.10	63.90	20.80	103.20	110.20	64.50	0.00	107.70	107.20	
14	15.40	5.60	108.80	101.30	105.10	105.60	62.60	20.40	103.30	110.10	58.10	0.00	108.00	107.20	
15	15.70	5.70	108.90	101.80	105.30	105.90	60.20	20.40	104.00	110.30	59.10	0.00	108.60	107.20	
16	15.40	5.60	109.00	102.40	105.60	106.30	60.10	20.40	104.20	110.10	61.00	0.00	109.80	106.80	
17	15.70	5.70	108.30	103.00	105.60	106.30	60.00	20.40	104.60	110.60	62.50	0.00	110.00	106.70	
18	15.40	5.60	108.10	103.60	105.40	105.90	59.90	20.40	105.00	110.80	69.20	1.50	108.20	106.50	
19	15.70	5.70	108.20	103.70	105.00	105.30	61.00	20.70	105.10	110.80	60.90	36.80	108.40	113.30	
20	15.40	5.60	108.00	103.50	104.70	104.70	61.70	20.40	104.10	110.70	58.90	36.90	109.40	115.80	
21	15.70	5.70	107.90	103.20	104.40	104.00	60.10	20.40	104.00	110.20	58.90	36.80	108.90	116.00	
22	15.60	5.70	108.00	103.00	104.30	103.60	59.70	20.40	104.40	110.40	59.80	37.50	108.90	116.10	
23	15.40	5.60	107.90	102.80	104.20	103.10	59.40	20.40	104.30	110.60	58.50	36.90	109.00	116.20	
24	15.60	5.70	107.90	102.60	104.10	102.90	47.80	20.40	103.90	111.60	52.70	36.80	108.90	116.40	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	MCNARY	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	PASCO	
1	59.70	28.60	110.60	116.70	68.20	59.50	113.30	113.80	214.90	160.00	105.60	106.90	120.30	: 105.50	
2	59.70	28.60	110.10	116.70	60.20	59.60	113.10	113.80	215.10	160.00	105.40	106.80	120.30	: 105.40	
3	59.60	28.60	111.80	116.50	61.20	60.70	113.10	113.30	215.10	160.00	105.40	106.90	120.50	: 105.10	
4	57.80	27.80	111.80	116.40	60.20	59.60	113.20	113.20	215.10	160.00	105.20	106.80	120.50	: 105.00	
5	54.50	26.40	112.10	116.20	59.60	59.00	113.20	113.20	215.40	160.00	105.30	106.60	120.50	: 104.90	
6	54.00	25.40	111.40	116.10	64.60	44.50	113.20	113.10	206.30	146.20	105.20	106.50	120.50	: 104.70	
7	54.00	25.90	111.60	115.70	64.40	44.40	113.20	112.80	171.40	2.30	105.20	106.50	116.20	: 104.60	
8	56.30	27.90	111.70	116.20	64.50	44.60	113.20	112.60	174.40	0.00	105.20	106.50	109.20	: 104.40	
9	76.30	37.50	110.90	118.00	66.50	45.50	113.40	112.90	174.80	0.00	106.00	106.60	106.50	: 104.50	
10	77.10	37.80	110.80	118.80	78.40	44.70	114.20	113.10	175.00	0.00	106.90	106.90	106.20	: 104.60	
11	77.00	37.80	111.70	119.10	79.10	44.80	114.10	113.70	175.10	0.00	107.40	107.20	106.20	: 104.90	
12	67.90	34.50	111.00	119.30	80.50	44.80	114.50	113.90	174.90	0.00	108.00	107.80	106.30	: 105.30	
13	64.80	32.40	110.40	119.60	75.50	44.80	114.50	113.90	173.80	0.00	108.30	108.00	106.70	: 105.80	
14	56.50	28.00	110.20	118.50	68.60	45.60	114.20	113.60	173.40	0.00	108.40	108.30	106.90	: 106.20	
15	56.20	28.00	109.90	118.50	66.80	44.70	114.20	113.60	173.40	0.00	108.50	109.00	107.10	: 106.60	
16	56.30	28.00	109.30	118.50	62.80	44.70	114.40	113.60	173.60	0.00	108.70	109.30	107.20	: 106.80	
17	57.70	28.00	109.40	118.60	62.80	44.70	114.80	113.30	174.30	0.00	108.60	109.90	107.30	: 107.00	
18	57.20	28.40	108.90	118.70	70.60	44.90	114.90	113.10	172.40	2.90	108.40	109.80	107.40	: 107.00	
19	56.90	28.50	109.20	118.60	57.70	55.50	115.10	113.10	191.10	131.50	107.90	109.70	110.20	: 107.10	
20	73.20	31.30	111.00	118.50	56.80	56.30	116.10	112.70	194.80	139.90	107.60	109.10	116.90	: 106.90	
21	57.00	15.10	111.40	115.10	65.20	64.60	115.30	112.40	194.60	139.90	108.00	108.90	118.20	: 106.80	
22	57.10	15.50	113.00	113.60	65.20	64.70	115.30	113.40	194.40	139.90	108.00	108.80	118.60	: 106.80	
23	57.50	24.80	112.60	116.20	62.80	62.20	115.30	113.50	194.30	139.80	107.60	108.70	118.60	: 106.80	
24	43.00	21.00	111.10	115.20	51.10	50.50	115.30	113.60	184.50	129.70	107.30	108.70	118.60	: 106.70	

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**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

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DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB %SAT.	TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB %SAT.	TAILW.	
1	15.40	5.60	108.00	102.40	103.90	102.50	56.40	20.80	103.60	110.90	52.40	36.80	108.80	116.50	
2	15.70	5.70	107.90	102.30	103.80	102.20	58.20	20.50	104.20	111.10	51.80	37.50	108.80	116.60	
3	15.40	5.60	108.00	102.10	103.70	102.00	58.80	20.50	104.00	111.10	51.10	36.90	109.10	116.60	
4	15.70	5.70	108.00	101.90	103.40	101.80	64.30	20.50	103.90	110.20	56.90	36.90	109.00	116.60	
5	15.40	5.60	108.00	101.80	103.30	101.60	65.10	20.50	103.70	110.60	57.20	36.90	109.70	116.50	
6	15.60	5.70	107.70	101.50	103.00	101.50	69.30	20.50	103.80	110.90	58.50	37.00	109.70	116.40	
7	15.40	5.60	107.90	101.40	102.90	101.50	71.20	20.80	103.40	109.70	67.70	0.00	109.30	111.10	
8	15.70	5.70	108.00	101.30	103.00	101.80	70.20	20.50	103.50	109.70	72.40	0.00	109.30	109.90	
9	15.40	5.60	108.80	101.30	103.30	102.20	69.80	20.40	103.70	109.70	72.50	0.00	109.30	109.80	
10	15.70	5.70	109.00	101.30	103.80	102.60	60.50	20.40	103.90	110.40	72.80	0.00	109.30	109.80	
11	15.60	5.70	109.00	101.60	104.20	103.30	60.10	20.40	104.00	110.60	75.10	0.00	109.40	109.90	
12	15.40	5.60	109.30	101.90	104.70	103.70	60.10	20.40	103.90	110.90	61.40	0.00	109.30	110.20	
13	15.70	5.70	109.20	102.30	105.10	104.30	61.10	20.80	103.90	110.90	60.90	0.00	109.40	110.00	
14	15.40	5.60	109.40	102.80	105.30	105.00	61.80	20.40	103.90	111.00	55.90	0.00	109.40	109.90	
15	15.60	5.70	109.20	103.00	105.50	105.70	60.00	20.40	104.00	110.80	58.00	0.00	109.60	109.70	
16	15.40	5.60	109.40	-999.00	105.70	106.10	60.10	20.50	104.30	110.70	55.30	0.00	109.80	109.60	
17	15.60	5.70	109.50	103.40	105.90	105.80	59.80	20.50	104.40	110.40	55.40	0.00	109.60	109.50	
18	15.40	5.60	109.10	103.40	105.50	105.70	63.00	20.80	104.30	110.70	54.70	0.00	109.30	109.10	
19	15.60	5.70	109.00	103.10	105.20	105.20	72.40	20.50	104.00	110.10	59.40	27.60	109.10	113.10	
20	15.40	5.60	108.90	102.80	104.90	104.60	79.90	20.40	104.00	109.70	73.80	35.10	108.90	115.10	
21	15.60	5.70	109.10	102.50	105.00	104.00	82.40	20.40	104.00	109.30	83.20	35.10	109.00	115.00	
22	15.30	5.60	109.00	102.30	104.80	103.60	80.10	20.30	103.90	109.50	75.60	35.20	109.10	115.20	
23	15.60	5.70	108.90	102.20	104.60	103.10	62.30	20.40	104.00	110.40	72.30	35.20	109.00	115.30	
24	15.30	5.60	108.90	101.90	104.40	102.80	57.80	20.70	104.00	110.60	64.90	35.80	109.20	115.60	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH KCFS	SPILL KCFS	GAS FB %SAT.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB %SAT.	TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB %SAT.	WA TAILW.	TOTAL DISCH KCFS	SPILL OR KCFS	GAS FB %SAT.	SAT
1	42.60	21.10	111.20	114.50	51.50	49.40	115.30	112.50	160.50	105.80	107.30	108.80	118.60	106.60	
2	42.50	21.10	111.90	114.40	50.00	49.40	115.30	112.90	160.20	105.40	107.30	108.80	117.00	106.50	
3	42.50	21.00	112.20	114.30	50.00	49.50	115.40	112.40	160.10	105.30	107.30	108.60	116.50	106.40	
4	44.50	21.10	112.30	114.20	50.00	49.40	115.40	112.20	160.50	105.30	107.30	108.50	116.30	106.30	
5	57.30	27.50	112.60	116.00	52.40	49.80	115.40	112.20	160.00	104.90	107.20	108.30	116.20	106.20	
6	60.70	29.70	112.80	116.80	57.40	44.40	115.60	112.20	155.10	95.80	107.20	108.20	116.00	106.10	
7	76.80	35.60	113.30	117.40	67.80	44.40	115.50	112.40	160.50	0.10	107.20	108.20	113.80	106.10	
8	77.80	36.20	114.80	117.70	68.80	44.50	115.50	112.90	163.80	0.00	107.50	108.10	108.90	105.80	
9	78.00	36.30	114.70	118.00	79.00	44.50	115.60	113.00	163.60	0.00	107.30	108.10	107.90	105.90	
10	78.20	36.30	114.20	118.10	81.60	44.60	115.70	113.70	163.40	0.00	107.40	108.10	107.60	106.00	
11	77.70	36.20	114.00	118.60	86.30	45.30	115.90	113.80	162.60	0.00	107.50	108.30	107.70	106.20	
12	66.20	32.40	112.90	118.60	84.70	44.50	115.90	113.80	162.10	0.00	109.80	108.50	106.70	106.70	
13	68.40	33.40	112.40	119.10	84.10	44.50	116.10	113.90	162.00	0.00	112.20	108.90	107.60	107.10	
14	61.40	30.60	112.10	119.00	66.00	44.40	116.30	113.90	161.70	0.00	112.60	0.00	108.10	107.60	
15	61.10	30.10	111.80	119.20	64.70	44.40	116.40	113.50	161.80	0.00	109.50	108.30	108.20	108.20	
16	43.60	21.30	112.40	117.70	64.40	44.40	116.30	113.30	161.50	0.00	109.40	109.20	108.30	105.10	
17	41.70	20.20	112.20	116.20	65.40	45.20	116.40	113.10	161.50	0.00	110.30	109.60	108.30	107.90	
18	42.10	20.50	111.90	115.70	55.00	44.00	116.40	112.90	168.70	9.30	110.70	109.90	108.30	109.10	
19	43.80	22.20	111.50	115.60	41.50	40.90	116.30	112.60	256.20	155.40	108.80	109.60	115.70	109.10	
20	61.00	30.70	110.60	117.60	41.40	40.80	116.30	111.80	257.80	158.10	108.50	110.00	120.90	108.80	
21	87.40	41.00	110.00	119.40	57.20	56.70	116.20	111.50	241.00	156.50	108.40	109.90	121.60	108.50	
22	90.70	40.80	109.30	119.90	83.60	83.10	116.30	113.40	192.10	135.20	108.50	109.80	121.10	108.20	
23	90.50	40.50	110.50	119.80	90.00	89.40	116.30	114.60	154.30	100.50	108.40	109.90	119.70	108.00	
24	70.10	34.40	110.60	118.60	90.00	89.50	116.30	115.20	153.80	100.50	108.30	109.70	117.40	107.80	

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HOURLY OPERATIONAL REPORT**

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DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.			
1	15.30	5.60	108.90	101.70	104.40	102.50	52.20	20.40	103.80	110.40	53.10	35.10	109.60	115.90	
2	15.40	5.60	108.80	101.60	104.10	102.30	53.50	20.40	103.90	110.70	49.40	35.20	109.10	116.10	
3	15.60	5.70	109.10	101.40	103.80	102.10	51.90	20.50	104.10	110.80	49.20	35.10	109.20	116.00	
4	15.50	5.80	109.80	101.20	103.60	101.90	54.50	20.50	104.50	110.70	50.00	35.80	109.30	116.10	
5	15.90	5.90	108.30	101.20	103.70	101.80	67.00	20.90	104.20	110.10	49.90	35.20	109.30	116.10	
6	15.60	5.80	108.80	101.10	103.10	101.70	76.90	19.90	103.90	110.30	69.10	35.20	109.30	115.70	
7	15.80	5.90	108.80	100.90	103.10	101.70	73.80	0.00	104.10	105.30	74.40	0.60	109.90	111.80	
8	15.50	5.80	108.90	100.90	103.10	101.70	75.70	0.00	104.10	104.80	74.40	0.00	110.20	111.00	
9	15.80	5.90	109.10	100.90	103.10	101.80	74.40	0.00	104.30	104.20	75.90	0.00	110.20	111.00	
10	15.50	5.80	109.40	100.80	103.50	102.10	74.40	0.00	104.60	104.30	74.10	0.00	110.40	111.30	
11	15.80	5.90	109.40	101.00	103.60	102.50	65.70	0.00	104.90	104.50	65.70	0.00	110.50	111.30	
12	15.50	5.80	109.40	101.20	103.60	102.80	64.30	0.00	104.70	104.50	65.10	0.00	110.50	110.80	
13	15.80	5.90	109.30	101.30	103.90	103.30	64.00	0.00	104.50	104.60	66.60	0.00	110.60	110.60	
14	15.50	5.70	109.50	101.50	104.00	103.30	64.00	0.00	104.40	104.50	66.70	0.00	110.60	110.60	
15	15.80	5.80	109.40	101.60	104.10	103.60	74.40	0.00	104.40	104.40	61.20	0.00	110.60	110.70	
16	15.50	5.70	109.60	101.70	104.10	103.90	73.40	0.00	104.50	104.50	74.00	0.00	110.60	110.10	
17	15.80	5.90	109.50	101.70	104.20	103.90	75.20	0.00	104.50	104.70	83.50	0.00	110.50	111.00	
18	15.50	5.70	109.20	101.80	104.30	103.80	70.70	2.20	104.60	104.60	85.40	0.90	110.30	109.80	
19	15.80	5.80	109.20	101.80	104.20	103.50	71.40	40.30	104.60	116.50	90.60	34.60	110.30	114.00	
20	15.50	5.70	109.00	101.70	104.00	103.10	69.70	40.40	104.50	118.00	112.50	35.10	110.00	114.70	
21	15.80	5.90	109.10	101.50	103.90	102.80	72.50	41.10	104.50	118.30	74.20	35.10	110.00	115.10	
22	15.50	5.70	109.00	101.20	103.70	102.50	69.30	40.40	104.50	118.60	72.10	35.70	110.00	115.60	
23	15.80	5.80	109.10	101.20	103.60	102.30	66.80	40.40	104.70	118.90	62.50	34.90	109.90	115.50	
24	15.50	5.70	109.30	101.10	103.40	102.00	66.70	40.50	104.70	119.20	57.90	35.00	110.00	115.90	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL OR FB	GAS %SAT. WA FB	TAILW.	GAS %SAT	
1	56.60	27.80	110.90	117.30	90.10	89.60	116.20	115.30	154.30	100.50	108.20	109.50	116.40	107.70	
2	54.80	26.70	111.20	116.70	82.60	82.10	116.00	115.00	160.70	106.70	108.20	109.40	116.20	107.60	
3	47.30	23.30	111.20	115.20	64.50	63.90	116.00	114.30	179.50	125.50	108.10	109.40	116.60	107.60	
4	44.50	22.90	112.00	114.50	50.90	50.30	116.00	113.70	206.10	151.30	108.00	109.20	117.70	107.40	
5	44.80	23.00	112.70	114.40	51.50	48.40	115.80	112.20	231.20	157.80	108.00	109.20	119.30	107.30	
6	56.60	28.30	112.80	115.50	53.90	44.50	115.60	111.90	251.00	152.00	107.90	109.10	120.40	107.30	
7	60.70	30.30	113.20	116.70	57.90	44.50	115.60	112.30	223.70	59.90	107.90	109.10	117.30	107.20	
8	75.30	33.80	114.10	117.40	59.70	44.50	115.40	112.40	224.70	60.00	107.90	109.10	114.30	107.00	
9	77.30	34.70	114.40	117.60	75.60	45.40	115.20	112.70	223.70	60.00	107.80	108.90	114.30	106.80	
10	75.30	33.60	114.10	117.80	74.90	44.70	114.90	113.10	223.70	60.00	108.20	108.90	114.40	106.90	
11	62.40	30.90	113.50	117.60	68.10	44.70	115.00	113.20	212.20	60.10	109.00	109.20	114.60	107.10	
12	59.90	29.60	113.00	117.50	67.30	44.60	115.10	113.10	223.60	60.10	109.20	109.10	114.80	107.30	
13	61.40	29.50	112.50	117.40	67.30	44.70	115.00	113.20	223.30	60.10	108.60	109.00	114.70	107.80	
14	60.60	30.20	112.10	117.50	71.40	45.40	115.20	113.30	223.00	60.10	108.50	109.20	114.80	108.40	
15	61.30	30.90	111.40	117.90	67.20	44.60	115.20	113.50	221.00	60.10	109.30	109.60	114.90	108.90	
16	69.50	35.50	111.00	118.40	67.20	44.60	115.20	113.40	222.80	60.10	110.20	109.80	115.10	109.40	
17	83.20	36.20	110.70	118.80	67.40	44.70	115.00	113.40	223.10	60.10	110.30	110.00	115.10	109.70	
18	99.10	35.50	110.60	119.40	86.80	50.60	115.50	113.30	227.80	66.00	110.10	110.10	114.80	109.90	
19	96.90	30.40	110.60	119.20	102.60	91.10	115.40	115.70	280.50	157.00	109.00	109.70	118.10	109.80	
20	96.30	31.60	110.60	118.80	110.10	92.80	115.20	116.50	275.90	157.70	108.70	109.20	121.20	109.50	
21	100.70	35.80	110.50	119.60	110.70	91.10	115.00	116.90	276.20	157.70	108.60	108.90	121.60	109.00	
22	90.20	35.80	110.90	119.60	109.90	91.10	114.80	116.70	277.80	157.70	108.40	108.80	121.80	108.60	
23	71.50	36.40	111.30	119.00	96.00	91.50	114.90	116.70	277.60	157.70	108.40	108.70	121.70	108.00	
24	61.40	31.70	111.80	118.60	81.80	81.20	114.70	115.90	231.90	157.80	108.40	108.70	121.60	107.60	

23 APR 2003

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

23 APR 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.			
1	15.80	5.80	109.20	101.00	103.30	101.90	67.90	41.20	104.70	55.30	35.00	110.10	115.90		
2	15.50	5.70	109.20	101.00	103.40	101.90	67.10	40.60	104.60	56.30	35.60	110.00	116.00		
3	15.80	5.80	109.00	100.90	103.20	101.80	70.40	40.60	104.50	55.40	35.00	110.20	115.90		
4	15.50	5.70	109.20	100.80	103.20	101.60	76.20	40.60	104.50	55.70	35.10	110.50	115.90		
5	15.80	5.80	109.10	100.70	103.00	101.60	88.00	40.60	104.40	67.20	35.10	110.70	115.80		
6	15.50	5.70	109.20	100.70	103.00	101.40	90.70	40.30	104.40	69.00	35.20	110.70	115.70		
7	15.80	5.80	109.20	100.60	102.90	101.40	73.40	0.00	104.40	69.50	1.30	111.00	112.10		
8	15.50	5.70	109.10	100.60	102.90	101.40	71.70	0.00	104.30	73.60	0.00	111.10	111.40		
9	15.80	5.80	109.00	100.40	102.90	101.70	71.70	0.00	104.30	74.40	0.00	111.10	111.20		
10	15.50	5.70	109.10	100.30	103.10	101.90	71.50	0.00	104.30	74.70	0.00	111.10	111.00		
11	15.80	5.80	109.20	100.20	103.20	102.20	71.50	0.00	104.40	78.90	0.00	111.10	111.00		
12	15.50	5.70	109.30	100.40	103.40	102.60	72.80	0.00	104.40	77.70	0.00	111.00	110.90		
13	15.80	5.80	109.20	100.70	103.50	103.30	71.60	0.00	104.80	77.50	0.00	111.10	110.80		
14	15.80	5.80	109.50	101.00	103.80	104.00	71.60	0.00	106.70	77.70	0.00	110.90	110.60		
15	15.50	5.70	109.40	101.60	103.90	104.60	71.60	0.00	107.00	79.30	0.00	110.80	110.60		
16	15.80	5.80	109.50	102.40	104.20	104.80	71.70	0.00	106.40	79.20	0.00	110.90	110.40		
17	15.50	5.70	109.40	102.70	104.30	104.90	72.60	0.00	105.20	77.60	0.00	110.90	110.50		
18	15.80	5.80	109.40	102.90	104.30	104.80	72.60	1.70	105.90	78.20	1.40	110.90	110.30		
19	15.50	5.70	109.20	102.90	104.20	104.40	85.20	40.30	105.70	88.70	35.10	110.90	113.90		
20	15.80	5.80	109.10	102.70	103.90	103.70	85.20	40.30	105.30	88.30	35.70	110.80	114.90		
21	15.50	5.70	109.00	102.40	103.80	103.20	85.70	40.30	105.30	83.30	35.10	110.90	115.20		
22	15.80	5.80	109.10	102.30	103.60	102.80	69.70	41.10	105.60	68.80	35.10	110.80	115.70		
23	15.50	5.70	108.80	102.00	103.50	102.40	66.50	40.40	105.20	66.20	35.10	111.00	115.70		
24	15.80	5.80	109.10	102.00	103.40	102.20	66.80	40.50	104.30	58.60	35.00	110.80	115.90		

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.			
1	43.40	22.40	112.00	116.90	61.80	61.30	114.50	114.20	229.40	157.80	107.80	108.50	121.40		107.10
2	43.70	22.40	112.10	116.00	50.10	46.60	114.30	113.20	230.70	157.80	107.50	108.30	121.30		106.80
3	45.30	22.40	112.70	115.60	38.20	37.60	114.30	112.60	229.90	157.80	107.40	108.20	121.30		106.50
4	43.70	22.40	113.20	115.50	38.20	37.70	114.00	111.50	230.20	157.80	107.40	108.00	121.70		106.30
5	46.30	22.90	113.30	115.70	40.20	38.70	114.00	110.70	230.70	157.70	107.20	108.00	121.80		106.10
6	68.80	34.20	112.90	117.70	56.90	44.20	114.20	110.60	212.40	135.00	107.00	107.90	121.60		105.90
7	71.10	36.00	112.60	118.30	73.90	44.30	113.50	112.30	193.60	33.30	106.90	107.90	117.50		105.70
8	73.20	35.80	112.10	118.20	78.10	45.10	113.40	112.80	213.70	48.90	106.80	107.80	111.50		105.80
9	73.00	35.40	111.50	117.40	76.10	44.30	112.80	113.10	206.60	41.80	106.80	107.70	111.20		106.00
10	74.70	36.10	110.90	117.60	77.80	44.30	113.20	112.90	214.20	49.30	107.00	107.80	110.90		106.40
11	81.50	35.40	110.80	118.20	80.00	44.80	113.30	0.00	214.00	49.30	107.40	107.70	111.30		107.00
12	82.00	35.40	110.40	118.40	86.90	44.90	113.40	113.60	213.70	49.30	107.40	107.80	111.40		107.70
13	81.80	35.40	110.50	0.00	88.70	45.70	113.40	113.90	213.20	49.30	107.90	107.90	111.50		108.20
14	81.90	35.40	109.90	118.50	87.30	44.90	113.60	113.90	212.80	49.30	108.20	107.90	111.50		109.00
15	82.00	35.40	110.10	118.80	87.30	44.90	113.60	113.80	212.30	49.30	109.10	108.00	111.50		109.70
16	83.40	36.00	110.30	119.00	88.10	44.80	113.80	113.90	213.10	49.30	109.70	108.20	111.60		110.20
17	81.80	35.40	110.40	119.30	86.60	44.80	114.30	114.00	215.70	51.80	110.20	108.20	111.60		110.70
18	82.40	35.40	110.60	119.40	89.80	47.90	114.50	113.70	246.50	82.30	111.80	108.10	112.40		111.00
19	93.30	33.60	111.00	119.20	88.10	77.20	114.30	115.20	296.80	149.30	110.20	108.10	117.30		111.30
20	77.10	26.00	111.10	118.20	86.10	76.40	113.50	114.70	297.70	149.90	110.00	108.40	119.20		111.70
21	89.50	33.50	111.70	118.60	87.70	76.40	113.40	114.90	305.90	149.90	108.90	108.70	119.40		112.30
22	83.50	35.50	112.00	118.60	85.10	76.40	113.60	115.10	268.60	149.90	108.40	109.10	119.50		112.80
23	75.10	35.50	112.10	118.30	77.10	76.50	113.50	114.70	237.00	149.90	108.50	109.10	119.50		113.20
24	55.70	27.60	112.40	117.60	77.10	76.50	113.50	114.10	226.40	149.90	107.90	108.90	119.70		113.50

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**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

24 APR 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	LOWER GRANITE	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.		
1	15.50	5.70	109.10	101.80	103.30	102.00	72.10	40.60	104.20	119.00	54.00	35.70	110.80	116.30	
2	15.80	5.80	109.00	101.70	103.20	101.80	80.00	40.50	104.10	118.90	65.90	35.10	110.70	115.90	
3	15.50	5.70	109.10	101.50	103.00	101.70	81.80	41.30	104.00	118.90	69.90	35.20	110.70	115.90	
4	15.80	5.80	109.10	101.40	102.90	101.70	85.20	40.60	103.90	118.50	83.70	35.10	110.50	115.40	
5	15.50	5.70	109.10	101.30	102.80	101.50	85.50	40.50	103.70	118.60	86.10	35.70	110.50	115.30	
6	15.80	5.80	109.20	101.20	102.80	101.50	87.70	40.30	103.80	118.60	85.30	34.40	110.30	115.10	
7	15.80	5.80	109.10	101.10	102.70	101.50	85.00	20.50	103.80	111.00	83.30	0.00	110.30	111.00	
8	15.50	5.70	109.10	100.90	102.80	101.60	88.00	20.80	103.60	110.20	85.10	0.00	109.90	110.00	
9	15.80	5.90	109.20	100.90	102.80	101.80	86.80	20.40	103.70	110.00	84.90	0.00	109.70	109.30	
10	15.50	5.70	109.10	100.90	103.00	102.00	87.10	20.40	103.30	109.40	86.30	0.00	109.50	109.10	
11	15.80	5.80	109.30	100.90	103.10	102.20	82.40	20.40	103.50	109.60	84.60	0.00	109.30	109.10	
12	15.50	5.70	109.50	100.90	103.30	102.70	81.80	20.40	103.30	109.50	84.40	0.00	109.20	108.70	
13	15.80	5.80	109.30	101.00	103.50	103.20	81.60	20.70	103.40	109.70	81.70	0.00	109.20	108.70	
14	15.50	5.70	109.50	101.20	103.80	103.50	79.80	20.40	103.20	109.90	83.10	0.00	109.10	108.70	
15	15.80	5.80	109.60	101.40	104.00	103.60	79.50	20.40	103.00	109.70	82.90	0.00	108.80	108.30	
16	15.50	5.70	109.70	101.70	104.20	103.50	79.20	20.40	102.80	109.60	81.50	0.00	108.80	108.20	
17	15.80	5.80	109.70	101.60	104.20	103.10	79.10	20.30	102.30	109.70	81.50	0.00	108.50	107.90	
18	15.50	5.70	109.10	101.40	103.90	102.50	80.50	20.70	102.30	109.60	80.40	0.00	108.50	107.90	
19	15.80	5.80	109.10	101.30	103.60	102.40	83.10	20.30	102.10	109.30	84.60	34.40	108.60	112.90	
20	15.50	5.70	108.80	101.20	103.50	102.10	79.40	20.40	102.20	109.50	87.30	35.00	108.40	114.40	
21	15.80	5.80	109.00	100.80	103.40	101.90	79.40	20.40	102.00	109.60	89.70	35.00	108.40	114.60	
22	15.50	5.70	108.90	100.70	103.30	101.80	80.60	20.40	102.10	110.20	79.80	35.00	108.20	114.80	
23	15.70	5.80	108.90	100.50	103.10	101.60	71.30	20.40	102.10	109.80	79.20	35.60	108.10	114.90	
24	15.50	5.70	108.90	100.50	103.10	101.50	60.40	20.80	102.00	110.50	62.50	35.00	107.80	115.40	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	MCNARY	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	MCNARY	PASCO
1	55.20	27.70	112.40	117.20	77.00	76.40	113.50	114.30	149.90	107.80	108.70	119.80	113.70		
2	44.50	22.10	112.80	115.90	76.70	76.20	113.60	114.10	149.90	108.00	108.70	120.00	114.00		
3	44.20	22.20	112.50	114.90	68.30	67.70	113.40	114.00	149.90	107.90	108.60	120.00	114.10		
4	64.20	31.30	112.80	117.20	52.20	51.70	113.40	113.70	149.90	107.80	108.40	119.90	114.20		
5	80.10	35.40	112.40	117.80	48.60	45.60	113.30	112.80	149.90	107.50	108.30	119.80	114.20		
6	90.90	36.10	111.80	118.20	65.30	44.90	113.20	112.00	133.60	107.30	108.10	119.90	114.10		
7	90.10	36.10	112.00	117.90	83.70	45.00	113.00	112.50	133.60	107.40	107.80	117.10	113.70		
8	91.50	36.70	111.50	118.10	94.60	45.00	112.70	113.20	60.90	107.00	107.60	113.70	113.30		
9	90.50	36.00	111.30	118.20	95.90	45.00	112.70	113.70	61.40	106.70	107.50	113.20	112.90		
10	90.50	36.00	111.00	118.20	98.80	45.00	112.60	113.80	61.40	106.70	107.30	113.00	112.60		
11	90.20	36.10	110.50	118.10	99.00	45.80	112.40	113.80	61.40	106.70	107.30	113.00	112.50		
12	90.20	36.00	110.20	118.10	97.20	45.00	112.40	113.80	61.40	106.80	107.30	113.00	112.40		
13	90.40	36.10	110.30	118.30	97.50	45.00	112.30	114.00	61.40	106.80	107.30	113.00	112.40		
14	90.40	36.10	110.60	118.20	97.50	45.00	112.10	114.00	61.40	106.90	107.40	113.00	112.40		
15	90.20	36.00	110.90	118.10	99.00	44.90	112.00	113.70	60.10	106.80	107.40	112.40	112.30		
16	90.20	36.00	111.10	118.00	101.00	44.90	111.80	113.90	204.00	40.20	106.70	107.30	112.20		
17	90.20	36.10	111.20	117.70	103.10	45.60	111.70	113.80	182.70	19.90	106.70	107.30	110.20		
18	75.50	28.00	111.30	117.40	100.70	45.60	111.70	114.00	184.20	23.80	106.70	107.30	109.70		
19	79.70	26.80	111.60	115.60	89.50	73.20	111.70	114.30	234.30	147.20	106.70	107.50	113.20		
20	73.40	30.50	112.00	116.50	84.20	70.50	111.70	114.80	258.70	150.00	106.50	107.30	118.80		
21	79.60	33.60	112.50	117.00	79.80	64.60	111.70	114.40	260.40	150.10	106.80	107.40	119.70		
22	81.00	34.60	112.70	117.20	79.50	65.60	111.70	114.30	254.90	149.80	106.70	107.20	119.80		
23	83.70	37.40	112.70	117.30	79.10	64.60	111.60	114.30	209.40	141.30	106.60	107.20	119.70		
24	75.20	33.00	112.50	116.80	65.40	64.80	111.60	114.20	154.60	100.60	106.50	107.20	119.30		

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HOURLY OPERATIONAL REPORT**

25 APR 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.			
1	15.80	5.80	108.70	100.30	103.10	101.40	64.80	20.50	102.10	110.10	61.90	35.00	107.60	115.50	
2	15.50	5.70	108.90	100.30	103.00	101.40	74.60	20.50	101.90	109.90	61.80	35.00	107.40	115.60	
3	15.70	5.80	109.00	100.20	102.90	101.20	75.20	20.50	101.90	110.20	63.00	35.70	107.30	115.40	
4	15.50	5.70	108.90	100.20	102.70	101.20	84.20	20.50	101.90	109.60	61.90	35.10	107.10	115.50	
5	15.70	5.80	108.90	100.20	102.50	101.20	87.40	20.90	101.90	109.10	63.90	35.10	106.80	115.30	
6	15.50	5.70	108.80	100.00	102.50	101.20	85.60	20.50	101.50	109.10	74.30	34.20	106.80	115.20	
7	15.70	5.80	108.90	99.90	102.30	101.10	85.80	20.50	101.50	109.20	83.60	7.10	106.50	109.40	
8	15.50	5.70	108.80	99.70	102.30	101.20	85.70	20.50	101.50	109.30	86.10	0.00	106.20	108.90	
9	15.70	5.80	109.00	99.70	102.30	101.70	82.40	20.50	101.40	109.20	94.60	0.00	106.10	106.60	
10	15.40	5.70	109.00	99.50	102.60	102.10	83.70	20.80	101.70	109.00	93.00	0.00	106.10	106.50	
11	15.70	5.80	109.00	99.40	102.80	102.40	82.00	20.50	101.70	109.00	81.90	0.00	106.30	106.40	
12	15.50	5.70	108.50	99.50	102.90	102.80	83.70	20.50	101.90	109.10	84.10	0.00	106.50	106.40	
13	15.70	5.80	109.00	100.00	103.20	103.50	81.90	20.40	102.00	109.70	82.60	0.00	107.40	106.80	
14	15.50	5.70	109.30	100.50	103.70	103.90	81.90	20.40	102.50	109.40	84.00	0.00	108.00	107.20	
15	15.70	5.80	109.00	100.60	103.80	104.50	79.50	20.80	102.60	109.20	82.20	0.00	108.70	107.90	
16	15.50	5.70	109.10	101.00	104.10	104.70	77.80	20.40	102.80	109.90	77.00	0.00	108.50	108.50	
17	15.80	5.80	108.90	101.30	104.10	104.90	77.90	20.40	103.30	109.70	78.00	0.00	109.40	108.90	
18	15.50	5.70	108.80	102.00	104.10	104.70	78.30	20.40	104.10	109.70	76.90	0.50	109.60	109.30	
19	15.80	5.80	108.90	102.50	104.10	104.10	88.80	20.40	103.80	109.40	99.80	35.00	110.90	114.00	
20	15.50	5.70	108.90	102.50	103.90	103.50	91.00	20.70	104.20	109.50	98.90	35.00	111.40	114.60	
21	15.50	5.70	108.90	102.30	103.80	102.90	82.00	20.40	104.00	110.30	92.60	35.70	111.20	114.90	
22	15.80	5.80	108.70	102.20	103.80	102.60	81.70	20.40	103.60	109.30	86.50	35.00	110.80	115.10	
23	15.50	5.70	108.80	102.10	103.80	102.30	77.70	20.40	103.30	109.40	78.40	35.00	110.10	115.20	
24	15.80	5.80	108.90	101.90	103.70	102.10	70.20	20.40	103.00	109.70	69.90	35.00	109.80	115.50	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.			
1	64.10	33.00	112.20	116.70	66.90	64.80	111.50	113.50	100.60	106.60	107.00	117.60	:	111.30	
2	59.50	31.30	111.90	116.80	62.30	61.70	111.60	113.60	100.70	106.60	107.00	116.80	:	111.10	
3	54.40	24.70	111.30	116.00	58.00	55.90	111.50	113.20	125.40	106.70	107.00	116.20	:	111.00	
4	52.00	23.90	111.40	115.50	55.40	54.90	111.30	112.40	149.60	106.70	106.90	117.50	:	110.80	
5	52.00	23.90	111.30	115.50	55.10	53.70	111.60	112.50	149.60	106.80	107.00	119.40	:	110.50	
6	54.30	25.10	111.10	115.40	54.10	44.60	111.50	112.30	127.60	106.20	107.00	119.50	:	110.70	
7	79.20	36.00	110.90	116.80	58.70	44.70	111.80	112.50	0.60	106.70	106.90	117.10	:	110.60	
8	78.60	35.40	110.50	117.00	68.30	44.70	111.90	112.70	0.20	106.90	106.90	109.90	:	110.90	
9	82.00	35.40	110.40	117.30	86.50	45.60	112.20	113.20	0.00	107.40	107.10	108.00	:	111.00	
10	86.40	35.40	110.20	117.60	87.00	44.80	112.30	113.80	0.00	107.90	107.20	107.60	:	111.30	
11	98.00	35.40	110.20	118.20	98.60	44.70	112.40	113.90	0.00	108.40	107.80	107.40	:	111.80	
12	99.00	35.40	110.50	118.40	103.70	44.70	113.80	114.30	0.00	108.70	109.20	107.50	:	112.50	
13	99.80	39.40	110.90	119.10	102.60	44.80	114.60	114.40	0.00	109.20	110.20	107.60	:	113.10	
14	90.90	39.50	111.30	119.20	102.60	44.70	115.20	114.40	0.00	109.70	110.20	107.90	:	113.70	
15	79.30	36.70	111.40	119.40	105.40	45.40	116.10	114.40	0.00	109.60	110.60	107.90	:	114.30	
16	79.20	36.00	112.30	119.60	93.10	44.60	114.40	114.60	20.40	109.70	110.90	108.10	:	114.80	
17	79.30	36.00	112.60	119.70	90.80	44.50	114.80	114.30	88.60	109.70	110.90	115.30	:	115.30	
18	81.00	36.70	113.30	119.80	90.80	45.40	113.20	114.10	261.80	100.30	109.60	111.20	116.10	:	115.70
19	86.80	36.10	113.10	119.90	91.10	75.10	113.20	114.40	290.00	149.00	108.90	111.30	119.00	:	115.80
20	78.10	26.00	112.90	115.40	92.80	79.00	113.40	115.40	289.90	148.80	108.80	111.10	121.10	:	115.60
21	89.30	38.90	113.00	118.90	90.70	75.60	113.30	115.50	289.70	148.50	109.20	110.90	121.70	:	115.50
22	84.90	35.00	113.10	117.60	83.50	69.90	112.90	114.90	269.00	148.40	109.00	111.00	121.70	:	115.40
23	91.40	40.30	113.00	117.80	83.30	69.80	112.80	114.80	251.20	148.70	109.10	110.90	121.50	:	115.40
24	89.20	39.60	112.70	118.00	84.10	69.80	112.70	114.80	248.40	148.40	109.20	110.90	121.50	:	115.20

26 APR 2003

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

26 APR 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	LOWER GRANITE	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.		
1	15.40	5.70	108.90	101.80	103.50	101.90	59.60	20.50	103.00	110.20	63.50	35.00	109.10	115.90	
2	15.70	5.80	109.00	101.50	103.50	101.70	70.20	20.80	103.00	110.00	62.50	35.60	108.70	116.00	
3	15.40	5.70	109.10	101.40	103.30	101.60	79.50	20.50	102.90	110.00	61.50	35.00	108.20	115.80	
4	15.70	5.80	109.00	101.20	103.10	101.60	88.40	20.50	102.70	109.60	61.90	35.10	108.20	115.40	
5	15.40	5.70	109.10	101.10	102.90	101.50	89.00	20.50	102.60	108.90	73.30	35.10	108.10	115.20	
6	15.70	5.80	109.20	100.80	102.70	101.40	89.60	20.10	102.30	108.80	76.90	35.80	107.70	115.20	
7	15.40	5.70	109.00	100.40	102.50	101.10	87.40	0.00	102.10	103.50	78.10	4.00	107.30	109.20	
8	15.70	5.80	109.00	100.10	102.20	100.90	91.40	0.00	102.00	102.60	97.40	0.00	107.00	107.80	
9	15.40	5.70	108.70	99.90	102.00	101.00	83.60	0.00	101.90	102.10	93.90	0.00	106.90	107.20	
10	15.70	5.80	108.70	99.60	101.80	100.90	83.00	0.00	101.80	102.00	94.30	0.00	106.90	106.80	
11	15.60	5.80	108.80	99.60	101.90	101.10	82.20	0.00	101.70	101.70	89.10	0.00	106.90	106.70	
12	15.30	5.70	108.70	99.40	102.00	101.20	82.20	0.00	101.50	101.60	85.70	0.00	107.30	106.80	
13	15.60	5.80	108.70	99.40	102.10	101.50	82.00	0.00	101.50	101.60	85.00	0.00	107.70	106.90	
14	15.40	5.70	108.90	99.60	102.30	101.80	83.20	0.00	101.50	101.50	87.80	0.00	108.20	107.20	
15	15.70	5.80	108.70	99.90	102.70	102.20	77.70	0.00	101.30	101.40	79.30	0.00	108.10	107.50	
16	15.40	5.70	109.10	100.40	103.00	102.50	78.10	0.00	101.30	101.30	81.10	0.00	108.10	107.80	
17	15.70	5.80	108.90	100.90	103.20	102.80	77.80	0.00	101.30	101.30	77.30	0.00	108.00	107.80	
18	15.50	5.70	108.80	101.50	103.30	102.80	78.20	2.40	101.30	101.30	75.60	0.00	108.60	108.10	
19	15.70	5.80	108.90	101.50	103.40	102.50	78.60	40.50	101.40	116.00	76.10	35.50	109.40	114.30	
20	15.50	5.70	108.70	101.50	103.40	102.20	80.20	40.50	101.40	117.40	84.10	37.00	109.50	115.10	
21	15.40	5.70	108.60	101.60	103.30	101.90	90.20	40.40	101.30	117.10	87.50	36.90	109.10	115.20	
22	15.70	5.80	108.60	101.40	103.30	101.70	90.00	40.40	101.40	117.10	87.60	36.90	108.70	115.20	
23	15.50	5.70	108.40	101.20	103.20	101.50	87.20	41.10	101.20	117.50	85.20	37.60	108.40	115.30	
24	15.70	5.80	108.50	100.90	103.00	101.30	80.70	40.40	101.20	118.00	78.40	37.00	108.20	115.20	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	MCNARY	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	PASCO	
1	70.00	34.10	112.30	117.70	71.90	71.30	112.80	114.60	248.70	148.40	109.30	110.90	121.40	: 115.10	
2	60.30	30.50	112.00	117.30	70.20	69.60	112.70	114.20	248.70	148.30	109.30	111.10	121.30	: 114.80	
3	60.10	30.50	111.70	117.10	57.00	54.90	112.60	113.80	248.90	148.00	109.50	111.10	121.40	: 114.60	
4	60.10	30.50	111.40	117.00	55.50	54.90	112.50	112.50	258.00	147.90	108.90	110.90	121.40	: 114.10	
5	62.70	31.00	110.70	116.70	55.80	54.00	112.50	112.60	258.80	147.90	109.10	110.80	121.40	: 114.10	
6	60.80	30.90	110.20	116.80	62.60	32.60	112.10	112.50	242.10	129.10	109.10	110.50	121.50	: 113.90	
7	74.60	34.20	109.60	117.40	78.80	36.70	112.10	111.40	211.00	44.90	108.90	110.40	118.80	: 113.70	
8	96.20	40.50	109.00	117.90	98.70	48.90	111.90	112.60	190.60	18.00	108.90	110.40	113.50	: 113.50	
9	95.50	40.10	108.50	117.90	101.40	49.90	111.80	114.20	218.50	44.50	109.00	110.30	111.60	: 113.20	
10	95.40	40.10	108.20	118.00	99.80	49.90	111.80	114.20	218.90	44.80	108.80	110.20	111.50	: 113.10	
11	96.90	40.80	108.20	117.90	99.80	49.80	111.70	114.00	218.50	44.80	109.10	110.20	111.90	: 112.80	
12	96.60	40.10	108.30	117.80	101.50	50.70	111.50	114.10	219.50	44.80	109.40	110.10	112.10	: 112.20	
13	91.90	40.10	108.70	117.70	99.00	49.80	111.50	114.20	209.90	36.30	109.40	110.20	112.10	: 112.00	
14	93.70	40.10	110.10	117.80	99.10	49.90	111.60	114.50	208.60	35.30	109.20	110.00	111.30	: 112.00	
15	90.00	40.10	110.50	118.00	97.70	48.60	111.80	114.50	197.70	24.80	109.30	110.00	111.00	: 112.20	
16	91.70	40.80	111.10	118.10	90.50	44.50	111.80	113.90	197.10	24.90	109.50	109.80	110.80	: 112.40	
17	83.50	38.70	111.50	118.20	91.90	45.40	111.90	114.00	196.70	24.90	109.10	109.90	110.80	: 112.50	
18	77.30	31.00	111.60	118.10	88.70	44.50	111.90	113.80	202.70	30.80	109.10	109.90	111.00	: 112.50	
19	70.60	25.90	111.80	117.00	86.70	68.30	112.10	113.60	304.80	148.40	109.00	109.70	117.30	: 112.40	
20	80.80	35.90	111.90	117.70	85.30	71.70	112.20	114.60	309.40	149.60	109.30	109.60	121.00	: 112.20	
21	83.00	37.30	111.90	117.60	81.60	71.80	111.80	114.40	310.20	149.30	109.10	109.50	121.30	: 111.90	
22	91.50	40.10	111.40	118.80	82.90	72.40	111.80	114.30	306.30	148.60	109.10	109.50	121.30	: 111.80	
23	89.80	40.10	110.50	119.00	85.40	84.90	111.30	114.60	252.40	148.60	108.90	109.30	121.30	: 111.60	
24	76.50	35.10	109.80	117.60	90.40	89.90	111.90	115.20	253.00	148.60	108.90	109.20	121.20	: 111.40	

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**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

27 APR 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	LOWER GRANITE	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.		
1	15.70	5.80	108.60	100.70	102.80	101.10	80.10	40.40	101.00	117.90	77.70	36.90	107.90	115.30	
2	15.50	5.70	108.60	100.60	102.80	101.20	80.40	40.50	101.00	117.90	78.30	36.90	107.80	115.20	
3	15.80	5.80	108.60	100.50	102.70	101.10	80.20	40.50	100.90	118.20	78.20	36.90	107.70	115.30	
4	15.50	5.60	108.40	100.30	102.60	101.00	81.80	41.30	100.80	118.20	79.60	37.60	107.40	115.20	
5	15.80	5.80	108.40	100.10	102.50	101.00	88.60	40.60	100.80	117.60	79.00	36.90	106.90	115.50	
6	15.40	5.60	108.50	100.10	102.30	100.90	101.00	40.50	100.60	117.10	78.90	34.80	106.70	115.20	
7	15.70	5.80	108.50	99.90	102.20	100.80	84.30	0.00	100.60	102.90	69.40	2.00	106.40	110.60	
8	15.50	5.70	108.40	99.90	102.40	101.10	85.60	0.00	100.70	101.80	87.90	0.00	106.20	107.70	
9	15.70	5.70	108.70	99.60	102.70	101.50	87.70	0.00	101.00	101.40	89.50	0.00	106.30	106.70	
10	15.40	5.60	108.80	99.60	103.00	102.20	86.10	0.00	101.30	101.30	87.70	0.00	106.70	106.70	
11	15.70	5.70	108.90	99.60	103.40	103.00	86.50	0.00	101.30	101.40	87.50	0.00	107.40	106.70	
12	15.40	5.60	108.80	99.60	103.80	103.70	80.40	0.00	101.40	101.50	87.20	0.00	106.80	106.70	
13	15.70	5.70	108.90	100.00	104.20	104.30	81.40	0.00	102.10	101.60	84.90	0.00	107.10	106.80	
14	15.40	5.60	108.70	100.30	104.30	104.80	78.10	0.00	102.40	101.80	84.20	0.00	106.80	106.80	
15	15.70	5.70	108.90	100.80	104.60	105.10	77.60	0.00	104.00	101.90	83.40	0.00	106.50	106.70	
16	15.40	5.60	108.80	101.20	104.60	104.70	75.00	0.00	103.90	102.00	76.90	0.00	106.50	106.60	
17	15.70	5.70	108.80	101.70	104.70	104.80	76.50	0.00	103.20	102.70	77.50	0.00	108.50	106.60	
18	15.40	5.60	108.60	102.10	104.90	104.70	71.70	1.70	103.70	102.30	74.00	0.00	108.30	106.60	
19	15.70	5.70	108.60	102.40	104.70	104.40	74.90	42.10	103.30	117.30	73.30	37.40	108.20	114.80	
20	15.40	5.60	108.40	102.40	104.60	103.70	79.60	42.30	103.70	118.80	71.70	38.80	108.30	116.10	
21	15.50	5.60	108.50	102.40	104.30	103.30	81.50	42.30	103.30	119.10	78.80	39.50	107.90	115.80	
22	15.70	5.70	108.50	102.20	104.20	102.80	80.30	42.20	103.10	119.10	77.80	38.80	107.70	115.90	
23	15.40	5.60	108.50	102.00	104.10	102.50	82.80	43.00	102.90	119.30	77.30	38.80	107.90	116.10	
24	15.70	5.70	108.60	101.80	103.80	102.20	70.10	42.30	102.90	119.90	69.20	38.80	108.00	116.10	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	MCNARY	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	PASCO	
1	75.60	34.70	108.90	117.50	91.90	89.80	111.60	115.30	254.40	148.50	108.60	109.20	121.00	111.20	
2	70.30	34.70	108.60	117.00	90.30	89.70	111.60	115.30	249.90	148.50	108.50	109.60	121.00	111.30	
3	71.40	35.30	108.30	117.00	90.30	89.70	111.60	115.40	249.40	148.50	108.40	109.20	121.00	111.20	
4	70.20	34.70	107.90	117.00	91.60	91.00	111.50	115.40	249.80	148.50	108.30	109.40	121.00	111.10	
5	71.40	34.70	107.50	117.00	86.30	85.00	111.60	115.30	285.90	148.10	108.30	109.40	121.00	111.10	
6	70.00	34.70	107.00	116.70	67.40	44.60	111.60	115.10	278.60	124.30	108.30	109.50	121.20	111.10	
7	70.30	34.80	106.80	116.60	59.80	44.70	111.40	113.10	171.80	0.10	108.70	109.40	116.10	110.90	
8	86.40	39.20	106.90	118.20	71.60	44.70	111.30	112.70	174.40	0.00	108.80	109.30	111.20	110.70	
9	88.80	39.80	107.10	118.60	79.40	45.00	111.40	113.30	162.70	0.00	109.20	109.40	109.80	110.70	
10	87.10	39.10	107.60	118.90	87.60	45.50	111.40	113.80	173.70	0.00	109.70	109.40	109.30	111.10	
11	87.20	39.10	107.90	119.30	86.80	44.80	111.40	113.90	174.50	0.00	110.60	109.60	109.20	111.40	
12	88.80	39.10	108.50	119.50	86.80	44.90	111.60	114.10	173.50	0.00	110.60	109.60	109.10	111.90	
13	87.30	39.10	109.00	119.90	86.80	44.90	111.70	114.10	174.70	0.00	111.80	109.90	109.40	112.50	
14	85.90	39.80	109.70	119.90	86.70	44.90	112.80	114.20	173.40	0.00	113.20	109.90	109.40	113.10	
15	84.20	39.10	110.40	120.40	89.50	45.70	112.70	114.10	173.40	0.00	113.60	110.00	109.50	113.70	
16	78.80	37.60	110.40	120.40	88.30	44.90	114.00	114.20	173.50	0.00	114.60	110.60	109.60	114.00	
17	75.90	34.70	111.60	119.30	88.20	44.90	115.50	114.00	173.50	0.00	113.40	110.60	109.60	114.20	
18	76.50	31.50	111.20	119.10	88.00	44.80	114.90	113.90	172.20	3.50	112.60	113.00	109.80	114.30	
19	75.20	16.60	111.80	114.70	88.10	44.80	113.50	113.80	208.50	141.40	111.40	112.30	113.70	114.30	
20	79.90	33.10	113.10	117.90	87.70	44.50	112.40	113.70	206.50	144.60	110.40	112.50	119.90	114.20	
21	81.50	36.60	112.30	118.20	82.60	42.60	112.70	113.60	214.20	144.60	110.30	112.80	120.90	113.90	
22	82.60	37.70	111.30	118.20	81.80	41.80	112.50	113.10	215.00	144.60	110.00	112.30	121.00	113.70	
23	82.10	37.40	110.90	118.00	80.60	41.90	112.20	113.00	224.50	144.60	110.10	111.90	120.90	113.50	
24	71.60	35.80	110.20	117.60	70.60	38.20	112.00	113.00	225.30	144.60	110.00	111.60	120.90	113.30	

28 APR 2003

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

28 APR 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT FB TAILW.	LITTLE GOOSE	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT FB TAILW.		
1	15.40	5.60	108.40	101.60	103.70	101.90	69.60	42.40	102.80	120.20	70.10	38.80	107.60	116.30	
2	15.70	5.70	108.50	101.30	103.60	101.80	69.70	42.40	102.70	120.10	69.70	39.40	107.40	116.20	
3	15.40	5.60	108.50	101.00	103.30	101.70	70.10	42.50	102.40	120.20	68.40	38.80	106.90	116.20	
4	15.70	5.70	108.40	100.90	103.10	101.60	84.20	43.30	102.50	119.80	68.90	38.70	106.80	116.20	
5	15.40	5.60	108.60	100.80	103.00	101.50	85.50	42.50	102.20	119.80	82.80	38.70	106.80	115.90	
6	15.70	5.70	108.40	100.70	102.80	101.30	86.60	42.50	102.20	119.90	83.90	36.80	106.80	115.60	
7	15.60	5.70	108.50	100.60	102.70	101.40	94.70	23.70	102.10	109.90	85.40	0.00	107.00	109.10	
8	15.30	5.60	108.60	100.60	102.70	101.70	93.00	20.80	102.00	109.40	88.40	0.00	107.20	107.50	
9	15.60	5.70	108.80	100.70	102.90	102.20	90.90	20.40	102.20	109.40	85.20	0.00	107.10	107.30	
10	15.30	5.60	109.00	100.80	103.40	102.90	90.80	20.40	102.50	109.30	86.80	0.00	107.20	107.40	
11	15.60	5.70	109.00	100.80	103.80	103.60	81.30	20.40	102.80	109.20	85.50	0.00	107.40	107.30	
12	15.40	5.60	109.30	101.10	104.20	104.10	76.30	20.40	103.50	109.70	83.00	0.00	107.40	107.40	
13	15.60	5.70	109.40	101.50	104.70	104.80	75.30	20.40	104.20	109.30	81.20	0.00	107.50	107.50	
14	15.30	5.60	109.40	101.90	105.00	105.00	72.00	20.40	103.40	109.50	70.00	0.00	107.40	107.50	
15	15.60	5.70	109.50	102.20	105.30	105.20	69.80	20.50	103.40	110.10	72.20	0.00	108.00	107.60	
16	15.40	5.60	109.40	102.60	105.40	105.20	71.60	20.80	104.00	110.40	70.80	0.00	108.30	107.50	
17	15.70	5.70	109.00	103.00	105.40	105.10	72.50	20.50	104.70	110.40	64.60	0.00	108.50	107.60	
18	15.40	5.60	109.20	103.10	105.40	105.00	72.90	20.50	104.00	110.60	63.20	0.00	108.20	107.30	
19	15.40	5.60	109.00	103.10	105.10	104.60	76.10	20.50	103.80	109.70	69.90	34.60	107.60	114.40	
20	15.70	5.70	108.80	102.90	104.80	104.00	78.40	20.50	104.00	110.20	84.10	38.80	107.40	115.70	
21	15.40	5.60	108.80	102.80	104.50	103.60	94.50	20.40	103.40	109.00	94.80	38.70	107.40	115.40	
22	15.60	5.70	108.80	102.50	104.40	103.10	88.00	20.40	103.60	109.50	95.10	38.70	106.80	115.20	
23	15.40	5.60	108.70	102.30	104.20	102.80	72.70	20.40	103.70	109.70	85.00	38.80	106.00	115.70	
24	15.70	5.70	108.80	102.00	104.00	102.50	67.00	20.40	103.70	109.70	71.10	39.40	105.70	116.00	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT FB TAILW.	PASCO	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT FB TAILW.	GAS %SAT	
1	69.50	35.20	109.70	117.40	38.00	111.80	112.20	226.20	144.50	110.20	111.60	120.90			113.10
2	69.60	35.20	109.40	117.50	38.60	111.80	112.10	226.90	144.40	110.10	111.40	120.80			113.00
3	69.60	35.20	109.30	117.30	38.00	112.00	112.20	227.10	144.40	110.10	111.20	120.90			113.00
4	71.20	35.20	108.80	117.10	38.00	112.10	112.10	227.00	144.40	110.10	111.10	120.80			112.80
5	71.00	35.80	108.40	117.30	39.00	112.20	112.10	227.60	144.40	110.20	111.00	120.80			112.70
6	70.60	35.50	108.20	117.30	44.90	112.30	112.50	215.80	128.30	110.30	110.70	120.90			112.70
7	82.50	37.80	107.90	118.60	45.60	112.20	113.30	168.50	0.30	110.00	110.70	119.10			112.50
8	87.10	37.90	108.00	118.90	44.90	112.50	113.70	173.80	0.00	109.90	110.40	112.80			112.50
9	87.30	37.90	107.90	119.30	44.90	112.60	114.00	173.00	0.00	109.70	110.30	110.70			112.50
10	87.40	37.90	107.80	119.60	44.90	112.60	114.20	173.60	0.00	109.70	110.30	110.00			112.90
11	90.50	38.60	108.40	119.70	44.90	114.00	114.10	175.20	0.00	110.10	110.50	109.90			113.20
12	87.60	37.90	109.10	120.30	45.70	116.00	114.60	175.20	0.00	110.40	110.70	109.80			113.60
13	87.80	36.90	110.50	120.40	44.90	117.20	114.50	173.70	0.00	110.30	110.80	109.90			114.00
14	72.90	31.70	111.50	119.20	44.90	116.50	114.40	173.00	0.00	110.50	110.90	110.00			114.20
15	71.00	33.00	111.40	119.20	44.90	116.00	114.40	172.40	0.00	110.60	111.20	110.00			114.50
16	68.10	32.50	112.00	119.40	44.90	116.10	114.20	171.90	0.00	111.00	111.10	110.10			114.50
17	78.90	28.00	113.20	119.20	44.80	117.00	114.00	171.70	0.00	111.30	110.80	110.00			114.60
18	69.20	16.10	113.50	115.10	45.60	116.90	114.00	177.80	7.70	111.50	111.00	110.10			114.50
19	67.10	30.20	112.60	118.10	42.30	117.50	114.00	270.10	138.10	110.90	110.70	116.20			114.30
20	70.00	34.00	113.30	118.60	54.70	114.80	112.80	271.90	139.60	110.10	110.70	118.90			114.40
21	88.90	38.50	114.10	120.00	82.00	70.70	114.40	268.20	139.30	109.90	110.80	119.60			113.80
22	96.10	39.30	114.20	119.60	91.00	82.20	114.60	273.00	138.40	109.70	110.80	119.70			113.10
23	89.70	38.50	114.10	119.60	96.80	96.20	114.40	249.90	139.10	109.50	110.90	119.50			112.50
24	79.90	36.70	114.10	118.50	95.20	94.60	114.20	225.30	139.40	109.50	110.80	119.40			112.00

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**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

29 APR 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	LOWER GRANITE	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	LOWER GRANITE	LITTLE GOOSE
1	15.40	5.60	108.60	101.70	103.80	102.30	59.10	20.80	103.20	110.60	53.90	38.70	105.50	116.60	
2	15.70	5.70	108.70	101.50	103.70	101.90	58.40	20.40	102.90	111.00	54.70	38.70	105.20	116.80	
3	15.40	5.60	108.80	101.30	103.40	101.70	56.80	20.50	102.70	110.60	53.10	38.70	105.00	116.70	
4	15.70	5.70	108.70	101.20	103.20	101.50	56.80	20.50	102.60	110.80	56.20	39.40	104.80	116.80	
5	15.40	5.60	108.80	101.00	103.00	101.40	68.50	20.50	102.50	110.70	67.90	38.70	104.50	116.40	
6	15.70	5.70	108.60	100.80	103.00	101.30	77.00	20.90	102.50	109.80	69.30	38.40	104.60	116.40	
7	15.40	5.50	108.50	100.70	102.80	101.20	81.40	20.50	102.20	109.90	69.10	0.60	104.30	108.60	
8	15.60	5.60	108.60	100.40	102.80	101.40	86.00	20.50	102.30	109.60	72.40	0.00	104.10	105.80	
9	15.40	5.50	108.70	100.40	103.00	101.90	86.40	20.50	102.60	109.20	79.10	0.00	104.40	105.20	
10	15.60	5.60	108.70	100.30	103.40	102.60	82.20	20.50	102.60	109.50	85.20	0.00	104.40	105.50	
11	15.40	5.50	108.90	100.40	103.60	103.00	75.90	20.50	102.90	109.60	86.30	0.00	104.50	105.00	
12	15.70	5.60	108.80	100.70	103.80	103.60	65.20	20.50	104.00	110.30	74.80	0.00	104.90	105.40	
13	15.40	5.50	108.90	100.90	104.00	104.20	60.90	20.90	103.40	111.20	59.30	0.00	105.70	105.90	
14	15.70	5.60	108.70	101.10	104.40	104.60	60.10	20.50	103.70	110.80	53.20	0.00	105.70	105.90	
15	15.40	5.50	108.80	101.70	104.50	104.90	69.40	20.50	103.70	110.20	64.60	0.00	106.20	106.10	
16	15.40	5.50	108.90	102.10	104.50	104.90	70.10	20.50	103.60	110.00	65.10	0.00	107.20	106.40	
17	15.70	5.60	108.70	102.10	104.50	105.10	77.70	20.50	103.60	109.90	73.60	0.00	110.60	107.10	
18	15.40	5.50	108.40	102.30	104.30	104.80	81.20	20.90	103.70	109.60	80.20	0.90	111.90	108.30	
19	15.60	5.60	108.70	102.20	104.20	104.20	80.00	20.50	103.50	109.60	83.10	37.00	110.80	114.00	
20	15.40	5.50	108.40	102.10	104.00	103.60	84.70	20.40	103.60	109.60	85.00	37.00	111.20	115.00	
21	15.60	5.60	108.40	101.90	103.70	103.00	86.90	20.40	105.20	109.40	88.20	37.70	111.40	115.40	
22	15.30	5.50	108.40	101.70	103.60	102.60	77.90	20.30	105.40	109.60	86.80	37.00	111.40	115.40	
23	15.60	5.60	108.30	101.50	103.50	102.20	74.90	20.70	104.80	109.70	74.30	36.80	110.80	115.80	
24	15.30	5.50	108.10	101.30	103.30	101.80	66.00	20.40	104.20	110.10	65.60	36.80	110.20	116.10	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	MCNARY	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	PASCO	
1	60.00	29.90	114.10	117.60	95.10	94.50	114.10	116.50	224.90	139.40	109.50	110.80	119.40	:	112.00
2	59.00	29.30	113.50	117.10	77.70	77.10	114.00	116.50	249.00	139.20	109.30	110.90	119.20	:	112.10
3	52.20	24.60	112.80	116.40	61.90	61.30	114.20	114.00	260.00	139.00	109.30	111.10	119.30	:	112.20
4	52.90	24.90	112.10	116.20	55.00	52.90	114.00	113.50	261.80	138.50	109.30	111.30	119.50	:	112.30
5	53.10	25.30	111.50	116.10	50.70	49.40	113.90	112.90	262.50	138.40	109.10	111.70	119.50	:	112.30
6	67.90	34.50	110.90	116.80	55.00	44.90	113.80	112.40	259.40	134.40	109.20	111.70	119.30	:	112.10
7	68.40	34.50	110.50	117.00	68.00	44.90	114.00	112.70	176.80	3.50	109.80	111.50	117.90	:	112.30
8	68.90	33.70	109.70	117.00	71.70	45.10	114.10	113.20	176.20	0.00	110.40	111.40	112.30	:	112.30
9	76.20	33.30	109.70	117.60	74.00	45.00	114.50	113.50	176.60	0.00	111.10	111.80	111.20	:	112.60
10	89.00	40.30	109.30	119.40	78.30	45.90	115.10	113.60	175.90	0.00	112.00	111.90	111.10	:	112.90
11	89.20	39.60	110.40	119.80	88.90	45.00	115.40	113.90	163.10	0.00	112.90	112.70	111.10	:	113.40
12	89.10	39.60	108.90	120.20	90.10	45.10	114.70	114.10	173.90	0.00	114.10	113.70	111.30	:	113.60
13	86.90	39.60	109.50	120.20	93.40	45.00	114.80	114.30	174.50	0.00	114.30	114.40	111.50	:	113.90
14	44.50	10.30	109.00	115.70	94.90	45.10	114.80	114.20	174.10	0.00	115.40	113.60	111.70	:	114.50
15	55.30	25.50	109.50	117.00	83.40	45.70	115.40	114.30	174.50	0.00	113.40	113.70	111.90	:	114.90
16	57.40	29.20	110.20	118.70	64.80	44.80	114.90	114.20	173.70	0.00	115.20	113.90	112.10	:	115.40
17	69.60	35.10	110.70	119.10	70.60	44.80	115.10	113.60	173.30	0.00	113.90	113.70	112.00	:	115.70
18	70.70	34.80	111.30	119.20	64.40	44.70	114.70	113.30	178.90	7.30	116.70	114.00	111.90	:	115.80
19	84.10	33.00	112.80	119.00	60.60	49.60	114.70	113.30	276.30	136.10	116.40	113.60	116.90	:	115.60
20	86.90	33.50	113.90	118.70	65.20	53.60	114.60	113.10	279.10	139.00	111.80	113.50	118.80	:	115.40
21	82.60	28.60	115.20	118.30	73.40	62.10	114.70	113.70	279.20	138.60	111.20	114.10	119.30	:	115.00
22	80.50	27.30	114.20	116.40	90.00	80.00	114.50	114.70	278.20	138.30	111.00	113.80	119.10	:	114.60
23	85.40	32.50	115.10	117.70	80.80	80.00	114.40	114.90	248.90	138.30	110.80	113.20	119.10	:	114.30
24	76.80	32.70	114.20	117.70	82.10	80.10	114.30	114.40	248.50	138.30	110.70	113.00	118.90	:	113.80

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**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

30 APR 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB	%SAT. TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB	%SAT. TAILW.	
1	15.30	5.50	108.30	101.20	103.20	101.60	67.20	20.40	104.10	110.00	66.60	36.80	109.50	116.20	
2	15.30	5.50	108.20	101.00	103.00	101.30	65.60	20.40	104.20	110.30	66.40	37.50	108.70	115.90	
3	15.30	5.50	108.10	100.90	103.00	101.20	65.40	20.40	104.10	110.60	65.10	36.80	108.50	116.10	
4	15.30	5.50	108.00	100.90	102.80	101.20	66.60	20.80	104.10	110.20	65.00	36.80	107.70	115.90	
5	15.30	5.50	108.30	100.70	102.70	101.00	67.20	20.40	103.90	110.40	65.00	36.80	107.40	115.90	
6	15.50	5.50	108.00	100.50	102.60	101.00	72.00	20.40	103.70	110.00	65.40	34.90	107.30	115.90	
7	15.50	5.50	108.00	100.50	102.40	100.90	72.50	20.50	103.60	109.90	68.40	0.00	107.00	109.70	
8	15.50	5.70	108.00	100.30	102.40	101.10	73.00	20.50	103.40	109.90	82.30	0.00	106.70	108.20	
9	15.50	5.70	108.00	100.20	102.50	101.50	79.30	20.50	103.30	109.50	81.20	0.00	106.80	106.90	
10	15.50	5.60	107.80	100.10	102.60	101.90	81.10	20.80	103.30	109.50	84.10	0.00	106.70	106.60	
11	15.50	5.60	107.70	100.00	102.60	102.10	73.80	20.50	103.30	109.80	80.70	0.00	106.40	106.50	
12	15.50	5.60	108.00	100.10	102.60	102.10	73.10	20.40	103.20	109.90	70.80	0.00	106.60	106.40	
13	15.30	5.70	107.60	100.40	102.90	102.40	66.00	20.50	103.20	110.10	60.70	0.00	106.70	106.70	
14	15.00	5.60	107.70	100.60	103.10	102.80	65.50	20.50	103.00	110.30	61.70	0.00	107.30	107.00	
15	15.20	5.70	107.90	100.20	103.30	103.00	66.30	20.90	103.10	110.40	61.10	0.00	107.70	107.30	
16	15.00	5.60	107.70	102.70	103.50	102.90	65.60	20.50	103.20	110.50	63.60	0.00	107.90	107.60	
17	15.30	5.70	107.70	102.70	103.30	102.80	71.20	20.50	103.40	110.50	63.80	0.00	108.30	107.90	
18	15.00	5.60	107.70	102.50	103.20	102.70	71.30	20.50	103.50	109.90	64.40	0.00	108.70	108.30	
19	15.30	5.70	107.60	102.40	103.00	102.40	79.00	20.50	104.10	109.50	79.70	36.70	109.10	114.10	
20	15.00	5.60	107.30	102.10	102.90	102.20	77.80	20.80	104.20	109.50	75.80	36.90	109.70	115.40	
21	15.20	5.70	107.50	101.90	102.70	102.20	94.90	20.40	104.20	109.00	99.00	36.80	110.30	115.30	
22	14.90	5.60	107.50	101.80	102.70	101.90	89.60	20.30	104.00	108.90	103.50	36.80	110.70	115.10	
23	15.20	5.70	107.40	101.60	102.80	101.50	85.40	20.30	104.00	109.30	91.70	37.50	110.70	115.40	
24	14.90	5.60	107.40	101.60	102.80	101.40	65.20	20.30	103.50	110.40	76.10	36.80	110.70	115.80	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. OR FB	%SAT. WA FB	TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB	
1	64.50	27.60	114.70	116.40	82.10	80.00	114.40	114.40	248.90	138.30	110.70	112.70	118.80	113.50	
2	62.60	27.10	114.00	116.30	83.40	81.40	114.20	114.20	249.80	138.30	110.40	112.60	118.80	113.00	
3	62.50	27.10	113.30	116.30	79.10	78.60	114.20	114.40	275.80	138.20	110.70	112.70	119.00	112.90	
4	64.00	27.10	113.20	116.00	66.30	65.80	114.10	114.30	277.80	138.20	110.60	112.70	119.20	112.90	
5	62.30	27.10	113.00	116.00	65.80	65.20	114.20	113.80	276.70	138.20	110.40	112.50	119.30	112.70	
6	63.40	27.60	112.60	115.80	68.10	35.00	114.00	113.60	272.40	132.40	110.70	112.60	119.10	112.70	
7	63.90	27.10	111.80	115.90	70.20	35.50	113.90	111.80	166.20	0.20	111.00	112.50	116.90	112.60	
8	74.50	33.30	111.50	117.30	78.80	37.40	113.70	111.80	172.60	0.00	111.20	112.30	113.00	112.90	
9	76.50	34.50	110.90	117.60	83.00	41.30	113.90	113.10	174.20	0.00	111.90	112.30	112.20	112.90	
10	78.20	34.70	109.70	117.90	84.50	41.30	113.80	113.10	173.50	0.00	113.30	112.40	112.00	113.10	
11	78.10	35.30	109.00	118.10	83.10	41.20	114.10	113.50	173.20	0.00	112.90	112.50	111.70	113.50	
12	78.60	35.20	108.70	118.40	85.70	41.90	114.20	113.40	172.30	0.00	113.10	112.60	111.70	113.90	
13	80.10	38.30	108.30	118.40	75.60	37.80	114.20	113.70	171.90	0.00	113.80	112.80	111.60	114.30	
14	62.50	30.70	108.30	118.30	74.10	37.00	114.20	113.00	172.10	0.00	113.60	112.90	111.60	114.80	
15	59.60	29.20	108.80	118.20	62.50	31.00	114.10	112.90	171.80	0.00	114.30	112.80	111.40	115.20	
16	59.70	29.20	109.10	118.30	62.80	30.30	114.20	111.80	171.70	0.00	113.80	112.70	111.30	115.40	
17	75.80	36.00	109.40	118.70	62.90	30.30	114.50	111.50	170.70	0.00	113.60	112.70	111.10	115.50	
18	76.10	36.20	109.80	118.90	62.60	30.90	114.60	111.60	177.20	8.30	113.50	112.60	111.00	115.60	
19	65.90	24.50	110.10	116.30	73.00	36.50	114.60	111.20	280.90	138.90	113.40	112.00	116.30	115.50	
20	78.50	32.50	111.10	118.60	81.10	38.80	114.80	112.10	282.60	139.50	113.50	111.80	118.80	115.30	
21	85.90	37.80	111.40	119.50	89.60	45.50	115.00	112.90	314.70	139.20	112.90	111.70	119.10	115.00	
22	93.70	37.70	111.90	119.50	104.50	51.10	114.60	113.80	313.30	138.90	112.50	111.90	119.50	114.70	
23	89.20	38.40	112.30	119.40	100.80	50.50	114.40	114.40	282.90	139.10	111.50	112.00	119.40	114.50	
24	86.50	37.70	113.20	119.30	93.40	46.30	114.50	114.10	271.20	139.00	110.90	112.50	119.40	114.40	

01 MAR 2003

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

01 MAR 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.			
1	1.50	0.00	104.60	-999.00	-999.00	-999.00	27.90	0.00	99.60	18.10	0.00	-999.00	-999.00	-999.00	-999.00
2	1.50	0.00	104.50	-999.00	-999.00	-999.00	26.20	0.00	99.50	16.90	0.00	-999.00	-999.00	-999.00	-999.00
3	1.50	0.00	104.60	-999.00	-999.00	-999.00	26.70	0.00	99.50	17.20	0.00	-999.00	-999.00	-999.00	-999.00
4	1.50	0.00	104.40	-999.00	-999.00	-999.00	26.20	0.00	99.50	18.40	0.00	-999.00	-999.00	-999.00	-999.00
5	1.50	0.00	104.30	-999.00	-999.00	-999.00	26.20	0.00	99.30	17.20	0.00	-999.00	-999.00	-999.00	-999.00
6	1.50	0.00	104.40	-999.00	-999.00	-999.00	25.50	0.00	99.20	25.90	0.00	-999.00	-999.00	-999.00	-999.00
7	1.50	0.00	104.20	-999.00	-999.00	-999.00	21.40	0.00	99.20	28.50	0.00	-999.00	-999.00	-999.00	-999.00
8	1.50	0.00	104.40	-999.00	-999.00	-999.00	21.90	0.00	99.10	26.40	0.00	-999.00	-999.00	-999.00	-999.00
9	1.50	0.00	104.60	-999.00	-999.00	-999.00	21.40	0.00	99.10	27.80	0.00	-999.00	-999.00	-999.00	-999.00
10	1.50	0.00	105.20	-999.00	-999.00	-999.00	21.30	0.00	99.10	27.90	0.00	-999.00	-999.00	-999.00	-999.00
11	1.50	0.00	105.60	-999.00	-999.00	-999.00	21.30	0.00	99.20	28.50	0.00	-999.00	-999.00	-999.00	-999.00
12	1.50	0.00	105.70	-999.00	-999.00	-999.00	23.00	0.00	99.20	27.90	0.00	-999.00	-999.00	-999.00	-999.00
13	1.50	0.00	105.90	-999.00	-999.00	-999.00	21.60	0.00	99.50	27.90	0.00	-999.00	-999.00	-999.00	-999.00
14	1.50	0.00	105.60	-999.00	-999.00	-999.00	21.20	0.00	99.60	27.80	0.00	-999.00	-999.00	-999.00	-999.00
15	1.50	0.00	105.50	-999.00	-999.00	-999.00	21.10	0.00	99.70	27.80	0.00	-999.00	-999.00	-999.00	-999.00
16	1.50	0.00	105.40	-999.00	-999.00	-999.00	20.80	0.00	99.70	31.60	0.00	-999.00	-999.00	-999.00	-999.00
17	1.50	0.00	105.30	-999.00	-999.00	-999.00	22.20	0.00	99.70	38.50	0.00	-999.00	-999.00	-999.00	-999.00
18	1.50	0.00	104.90	-999.00	-999.00	-999.00	40.50	0.00	99.70	38.60	0.00	-999.00	-999.00	-999.00	-999.00
19	1.50	0.00	104.40	-999.00	-999.00	-999.00	47.40	0.00	99.50	35.20	0.00	-999.00	-999.00	-999.00	-999.00
20	1.50	0.00	104.30	-999.00	-999.00	-999.00	47.70	0.00	99.40	43.70	0.00	-999.00	-999.00	-999.00	-999.00
21	1.50	0.00	104.10	-999.00	-999.00	-999.00	47.90	0.00	99.40	43.30	0.00	-999.00	-999.00	-999.00	-999.00
22	1.50	0.00	104.20	-999.00	-999.00	-999.00	41.40	0.00	99.20	43.30	0.00	-999.00	-999.00	-999.00	-999.00
23	1.50	0.00	104.20	-999.00	-999.00	-999.00	36.20	0.00	99.30	43.00	0.00	-999.00	-999.00	-999.00	-999.00
24	1.50	0.00	104.30	-999.00	-999.00	-999.00	26.70	0.00	99.40	34.40	0.00	-999.00	-999.00	-999.00	-999.00

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL OR FB	GAS %SAT. WA FB	TAILW.	GAS % SAT	
1	17.10	0.00	-999.00	-999.00	12.00	0.00	99.00	98.80	0.00	95.60	0.00	98.60	99.70	99.00	98.20
2	16.70	0.00	-999.00	-999.00	10.70	0.00	99.00	98.70	0.00	95.60	0.00	98.60	99.50	98.90	98.00
3	16.70	0.00	-999.00	-999.00	10.70	0.00	99.00	98.60	0.00	105.60	0.00	98.40	99.40	98.80	97.80
4	17.00	0.00	-999.00	-999.00	10.70	0.00	98.90	98.50	0.00	115.10	0.00	98.30	99.40	98.80	97.60
5	17.00	0.00	-999.00	-999.00	10.70	0.00	98.90	98.60	0.00	115.00	0.00	98.30	99.30	98.90	97.60
6	25.80	0.00	-999.00	-999.00	12.30	0.00	98.80	98.80	0.00	117.10	0.00	98.20	99.30	98.70	97.70
7	26.40	0.00	-999.00	-999.00	29.80	0.00	98.80	98.80	0.00	117.30	0.00	98.20	99.20	98.70	97.50
8	33.70	0.00	-999.00	-999.00	30.20	0.00	98.70	99.40	0.00	136.60	0.00	98.20	99.30	98.70	97.60
9	40.80	0.00	-999.00	-999.00	32.90	0.00	98.80	98.70	0.00	133.40	0.00	98.10	99.30	98.70	97.70
10	42.90	0.00	-999.00	-999.00	33.10	0.00	98.80	98.70	0.00	111.30	0.00	98.20	99.20	98.90	97.80
11	41.10	0.00	-999.00	-999.00	33.10	0.00	98.90	98.80	0.00	109.00	0.00	98.20	99.20	98.90	97.90
12	38.40	0.00	-999.00	-999.00	33.70	0.00	98.90	99.00	0.00	109.00	0.00	100.30	99.40	99.00	98.00
13	34.10	0.00	-999.00	-999.00	34.50	0.00	99.40	99.00	0.00	109.00	0.00	102.10	99.60	99.10	98.30
14	34.10	0.00	-999.00	-999.00	32.90	0.00	99.10	99.10	0.00	108.30	0.00	101.30	99.80	99.10	98.60
15	34.20	0.00	-999.00	-999.00	34.10	0.00	98.90	99.30	0.00	109.70	0.00	101.40	100.00	98.90	98.90
16	31.80	0.00	-999.00	-999.00	28.80	0.00	98.80	99.00	0.00	105.50	0.00	101.70	99.70	99.00	99.00
17	37.90	0.00	-999.00	-999.00	36.30	0.00	98.90	99.80	0.00	112.70	0.00	101.60	99.90	99.00	99.30
18	34.70	0.00	-999.00	-999.00	34.50	0.00	98.80	98.70	0.00	116.20	0.00	100.90	99.90	99.00	99.50
19	28.10	0.00	-999.00	-999.00	28.80	0.00	98.80	98.60	0.00	117.70	0.00	99.50	99.80	99.20	99.50
20	36.70	0.00	-999.00	-999.00	33.80	0.00	99.00	99.10	0.00	118.80	0.00	99.30	99.70	99.00	99.60
21	37.20	0.00	-999.00	-999.00	34.30	0.00	98.90	98.70	0.00	113.70	0.00	98.80	99.60	99.10	99.50
22	37.70	0.00	-999.00	-999.00	34.70	0.00	99.00	98.60	0.00	100.40	0.00	99.00	99.60	99.30	99.50
23	37.70	0.00	-999.00	-999.00	34.00	0.00	99.10	98.60	0.00	94.20	0.00	98.90	99.90	99.10	99.50
24	37.10	0.00	-999.00	-999.00	34.00	0.00	99.20	98.70	0.00	95.30	0.00	98.70	100.00	99.00	99.50

02 MAY 2003

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

02 MAY 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.			
1	15.50	5.60	107.30	101.80	103.40	101.50	56.70	20.40	103.80	110.90	57.40	39.50	109.40	116.70	
2	15.50	5.70	108.30	101.80	103.20	101.40	59.60	20.90	103.60	111.40	52.20	38.90	109.80	116.90	
3	15.80	5.80	108.20	101.70	103.40	101.30	66.00	20.50	103.90	110.80	52.00	38.80	110.00	116.90	
4	15.50	5.70	108.20	101.60	103.20	101.10	66.70	20.50	103.90	110.70	52.00	38.90	110.00	117.00	
5	15.80	5.80	108.40	101.40	103.00	101.10	66.50	20.50	103.70	110.60	53.70	39.70	109.90	116.90	
6	15.50	5.70	108.40	101.30	103.00	101.10	68.20	20.30	103.40	110.30	67.70	38.90	109.80	116.60	
7	15.80	5.80	108.60	101.30	103.00	101.10	66.50	0.00	103.20	105.60	68.20	3.00	109.70	112.00	
8	15.50	5.70	108.60	101.50	103.10	101.50	68.40	0.00	103.30	104.60	67.50	0.00	109.60	110.20	
9	15.80	5.80	108.70	101.80	103.50	102.20	70.00	0.00	103.30	104.00	69.50	0.00	109.80	110.40	
10	15.50	5.70	109.00	102.40	103.70	103.20	70.40	0.00	103.40	103.80	71.70	0.00	109.80	117.90	
11	15.80	5.80	109.00	103.00	104.10	104.00	58.60	0.00	103.60	103.90	57.50	0.00	110.30	115.20	
12	15.50	5.70	109.10	103.70	104.10	104.90	57.00	0.00	104.30	104.00	55.30	0.00	109.90	113.40	
13	15.80	5.80	109.30	104.30	104.60	105.30	54.10	0.00	105.40	104.00	54.30	0.00	111.10	112.00	
14	15.50	5.70	109.40	104.90	105.10	104.80	53.90	0.00	106.50	104.10	54.20	0.00	110.10	111.20	
15	15.80	5.80	109.30	104.60	105.20	104.80	54.80	0.00	105.60	104.20	49.90	0.00	110.10	110.80	
16	15.50	5.70	109.30	104.50	105.10	105.00	64.20	0.00	107.40	104.30	56.10	0.00	110.00	110.40	
17	15.80	5.80	109.40	104.60	105.20	104.90	68.50	0.00	108.30	104.10	56.90	0.00	110.10	110.30	
18	15.50	5.70	109.30	104.40	105.40	104.90	71.00	0.00	105.80	104.40	59.20	0.00	110.20	110.20	
19	15.80	5.80	109.30	104.00	105.20	104.60	84.90	43.20	105.30	117.40	84.30	37.30	110.20	115.10	
20	15.50	5.70	109.10	103.40	104.90	104.00	86.40	42.30	105.10	118.60	92.70	38.90	110.20	115.80	
21	15.80	5.80	109.20	103.00	104.70	103.60	88.70	42.30	105.00	119.30	94.80	38.80	109.90	116.30	
22	15.50	5.70	109.10	102.70	104.60	103.10	86.10	42.20	105.00	119.50	95.10	38.80	110.20	115.80	
23	15.80	5.80	109.20	102.50	104.40	102.80	71.20	42.20	105.40	120.40	76.50	39.60	110.10	116.20	
24	15.50	5.60	109.30	102.40	104.40	102.50	61.70	43.00	105.50	120.40	66.10	38.80	110.50	116.50	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL OR FB	GAS %SAT. WA FB	TAILW.	GAS %SAT	SAT
1	56.90	28.90	111.80	117.10	51.00	25.90	114.60	110.50	212.20	140.00	111.90	115.50	119.30	115.60	
2	57.20	28.90	113.50	117.00	52.00	26.40	114.50	110.60	203.90	140.00	112.10	115.60	119.40	115.40	
3	57.10	28.90	113.50	116.90	50.90	26.00	114.50	110.40	197.40	140.00	112.30	115.60	119.40	115.20	
4	45.00	22.80	113.30	115.50	52.40	26.00	114.30	110.30	197.50	140.00	112.00	115.50	119.50	114.90	
5	44.70	22.70	113.10	114.60	50.60	26.30	114.40	110.30	197.40	139.90	112.20	115.30	119.60	114.60	
6	45.60	23.10	113.00	114.20	54.80	44.20	114.40	110.50	188.70	126.60	112.20	115.00	119.50	114.40	
7	61.80	31.60	112.30	116.40	55.10	45.10	114.50	112.40	168.30	0.00	112.20	114.80	118.50	114.20	
8	66.20	33.50	112.00	117.20	54.30	44.20	114.50	112.70	175.60	0.00	112.20	114.90	115.10	114.00	
9	67.50	33.50	111.70	117.50	64.20	44.40	115.10	113.00	174.90	0.00	113.40	115.00	114.30	114.10	
10	66.10	33.50	111.50	117.90	66.50	44.40	116.00	113.40	174.90	0.00	115.10	115.10	114.20	114.70	
11	68.70	34.10	110.50	118.30	68.20	44.50	115.90	113.90	174.60	0.00	117.20	115.00	114.20	115.10	
12	66.70	32.80	110.50	118.80	69.10	44.40	115.90	113.80	174.90	0.00	114.70	115.20	114.10	115.60	
13	58.40	28.60	110.60	118.90	69.90	45.20	115.50	114.00	174.50	0.00	119.10	115.40	114.00	116.40	
14	58.30	28.60	110.90	119.00	71.50	44.40	115.40	114.00	174.50	0.00	117.10	115.30	114.20	116.90	
15	58.30	28.60	110.90	119.40	67.20	44.50	115.60	113.90	174.30	0.00	114.10	115.50	114.20	117.10	
16	59.40	29.10	111.20	119.40	68.60	44.50	115.60	113.60	174.20	0.00	119.30	115.60	114.20	117.40	
17	58.30	28.60	110.90	119.50	63.30	44.50	115.80	113.60	173.90	0.00	118.50	115.60	114.10	117.40	
18	60.20	28.60	111.50	119.80	64.00	45.40	116.00	113.50	179.40	8.20	117.70	115.60	114.20	117.50	
19	68.10	26.90	111.80	119.20	71.50	59.70	116.20	113.10	229.30	137.50	117.90	115.50	116.40	117.30	
20	77.30	35.30	111.90	119.30	71.60	61.60	116.10	114.40	234.90	139.40	117.10	115.50	118.70	117.00	
21	90.50	38.40	112.10	120.50	87.00	75.50	116.10	114.30	239.20	140.00	116.30	115.50	119.00	116.60	
22	98.00	39.10	113.00	120.60	85.50	75.60	116.40	114.70	234.20	140.00	114.60	115.60	119.20	116.10	
23	85.10	38.40	113.60	120.30	96.90	96.30	116.30	115.40	201.30	140.00	114.20	116.40	119.10	115.70	
24	70.10	35.00	114.10	118.60	95.50	94.90	116.20	116.60	196.60	140.00	113.90	115.90	119.00	115.10	

03 MAY 2003

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

03 MAY 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	LOWER GRANITE	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	LOWER GRANITE	LITTLE GOOSE
1	15.80	5.70	109.20	102.20	104.20	102.40	55.60	42.30	105.20	120.50	59.10	38.70	110.60	116.90	
2	15.30	5.60	109.20	102.00	104.10	102.30	55.60	42.40	104.90	120.70	58.90	38.70	110.90	116.90	
3	12.80	5.00	107.20	101.90	103.90	102.10	57.30	42.40	104.60	120.50	56.20	38.70	110.30	116.90	
4	12.30	4.70	106.90	101.80	102.70	101.90	58.40	42.50	104.50	120.70	57.70	39.40	110.50	116.90	
5	12.70	4.90	107.70	101.60	102.40	101.90	68.70	43.30	104.40	120.70	56.60	38.70	110.80	116.90	
6	12.50	4.90	108.30	101.60	102.70	101.70	72.50	41.80	104.00	120.60	56.90	38.70	110.80	117.10	
7	12.80	5.00	108.30	101.60	102.90	101.70	69.80	0.00	104.00	107.80	87.60	0.00	110.90	113.50	
8	12.50	4.90	108.50	101.60	102.80	101.80	73.00	0.00	103.90	105.60	65.60	0.00	110.70	110.90	
9	12.70	5.00	108.80	101.60	103.10	101.90	72.50	0.00	104.00	104.80	68.40	0.00	110.30	110.70	
10	12.50	4.90	109.00	101.60	103.60	102.30	69.80	0.00	104.10	104.50	67.40	0.00	110.20	110.30	
11	12.70	5.00	108.80	101.70	103.90	102.50	69.00	0.00	104.00	104.50	66.90	0.00	110.20	110.10	
12	12.50	4.90	109.00	102.00	103.90	102.90	63.90	0.00	103.80	104.20	64.40	0.00	110.30	110.10	
13	12.70	5.00	108.90	102.10	104.10	103.00	56.00	0.00	103.80	103.80	57.20	0.00	110.20	110.00	
14	12.50	4.90	109.00	102.40	104.40	103.20	55.20	0.00	103.70	103.70	59.50	0.00	110.20	110.10	
15	12.70	5.00	109.00	102.40	104.40	102.90	56.10	0.00	103.60	103.70	60.00	0.00	110.20	110.10	
16	12.50	4.90	108.80	102.20	104.60	102.80	55.10	0.00	103.70	103.90	60.70	0.00	110.40	110.00	
17	12.70	5.00	108.80	102.10	104.50	102.90	54.90	0.00	103.70	103.60	57.50	0.00	110.30	110.10	
18	12.50	4.90	108.70	102.10	104.30	103.20	53.80	0.00	103.70	103.70	57.90	1.70	110.30	110.10	
19	12.70	5.00	108.80	102.00	104.20	103.10	77.40	40.60	103.90	116.00	82.30	36.70	110.50	114.90	
20	12.50	4.90	108.70	101.90	104.10	102.70	86.30	41.20	103.80	117.60	85.70	36.90	110.60	115.50	
21	12.70	5.00	108.60	101.50	103.90	102.30	85.70	40.40	103.70	118.10	87.50	37.60	110.60	115.60	
22	12.50	4.90	108.50	101.40	103.80	102.00	90.60	40.30	103.50	117.70	84.00	36.90	110.50	115.60	
23	12.70	5.00	108.50	101.20	103.40	101.80	63.70	40.30	103.50	118.30	57.40	37.00	110.40	116.50	
24	12.50	4.90	108.70	101.20	103.40	101.60	57.20	40.30	103.60	119.20	55.50	37.00	110.30	116.50	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	MCNARY	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	PASCO	
1	58.20	29.70	115.10	118.00	92.30	91.70	116.20	116.60	140.00	113.80	115.70	119.00	114.70		
2	57.70	29.60	115.00	117.80	77.70	77.10	116.10	115.60	140.10	114.00	116.00	119.20	114.60		
3	58.70	30.10	114.50	117.60	63.70	63.20	116.30	114.20	140.30	113.90	116.30	119.20	114.40		
4	57.60	29.60	115.90	117.50	61.70	59.70	116.20	113.70	140.30	114.10	116.00	118.80	114.50		
5	57.70	29.60	116.00	117.50	62.80	60.80	116.20	113.40	140.10	114.40	115.90	118.90	114.60		
6	57.50	29.60	116.00	117.40	56.00	46.00	116.40	113.60	125.10	113.80	115.90	118.70	114.60		
7	57.50	29.60	115.70	117.40	56.90	44.60	116.40	113.10	0.00	113.70	115.60	118.20	114.40		
8	57.30	29.60	115.60	117.40	58.60	44.60	116.30	112.60	0.00	113.70	115.50	115.70	114.00		
9	59.90	30.20	115.10	117.60	58.50	44.70	116.30	113.00	0.00	113.60	115.50	115.10	113.30		
10	58.90	29.60	114.10	117.50	58.10	45.50	116.30	112.70	0.00	113.60	115.70	114.90	112.90		
11	57.40	29.60	114.30	117.50	59.30	44.70	116.30	112.90	0.00	113.60	115.70	114.70	112.80		
12	60.60	29.60	113.60	117.70	62.00	44.70	116.20	112.90	0.00	113.70	115.80	114.60	112.60		
13	58.00	29.60	113.20	117.80	65.20	44.70	116.10	113.30	0.00	113.60	115.90	114.70	112.60		
14	58.80	30.10	112.80	117.70	69.90	44.70	116.10	113.50	0.00	113.80	115.90	114.60	112.50		
15	57.80	29.60	112.60	117.80	71.50	45.50	116.00	114.30	0.00	114.00	115.90	114.70	112.30		
16	57.70	29.60	112.30	118.10	68.80	44.60	116.10	114.00	2.10	114.90	115.80	114.50	112.20		
17	57.70	29.60	112.00	118.30	68.80	44.60	116.10	113.60	2.10	115.00	115.60	114.30	112.20		
18	58.90	28.90	112.00	118.30	70.10	44.70	116.10	113.30	182.60	12.30	114.80	115.60	114.00	112.00	
19	63.30	19.70	112.10	117.20	69.90	58.40	116.00	113.20	252.50	134.00	114.30	115.30	117.00	111.90	
20	82.60	37.50	112.00	118.80	75.90	60.60	115.90	113.80	251.50	135.10	114.00	115.10	118.50	111.70	
21	85.90	38.20	112.10	119.70	74.10	59.80	115.90	114.00	276.20	134.80	113.80	115.00	118.80	111.30	
22	87.30	38.80	112.30	119.60	72.00	59.90	115.80	114.10	293.20	134.50	113.50	114.70	119.10	111.10	
23	86.60	38.70	112.70	119.50	62.20	60.10	115.50	113.80	259.90	135.10	113.20	114.70	119.30	110.70	
24	70.20	33.80	113.30	118.10	80.10	79.50	115.40	114.00	236.40	135.10	113.20	114.50	119.10	110.50	

04 MAY 2003

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

04 MAY 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	LOWER GRANITE	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.		
1	12.70	4.90	108.50	101.10	103.20	101.40	58.60	41.00	103.60	119.00	57.90	37.50	110.10	116.40	
2	12.50	4.90	108.40	101.00	103.00	101.30	57.00	40.40	103.70	119.10	57.30	36.90	109.90	116.40	
3	12.70	5.00	108.50	101.00	102.90	101.10	57.60	40.40	103.60	119.20	63.60	36.90	109.90	116.20	
4	12.50	4.90	108.50	100.90	102.70	101.00	66.70	40.40	103.50	119.10	63.80	36.80	109.80	116.10	
5	12.80	5.00	108.30	100.80	102.60	100.90	68.60	40.40	103.50	119.10	63.90	36.90	109.70	116.20	
6	12.50	4.90	108.30	100.80	102.50	100.80	67.10	39.80	103.30	119.20	65.60	36.90	109.60	116.10	
7	12.80	5.00	108.30	100.70	102.40	100.90	55.70	20.40	103.20	112.50	55.20	0.00	109.60	111.20	
8	12.50	4.90	108.30	100.80	102.40	101.00	65.80	20.40	103.60	111.10	56.60	0.00	109.50	109.90	
9	12.70	4.90	108.50	101.00	102.50	101.50	71.50	20.40	103.60	111.10	61.00	0.00	109.50	109.70	
10	12.50	4.90	108.40	101.10	102.60	101.90	69.90	20.50	103.70	110.80	62.70	0.00	109.40	109.50	
11	12.70	4.90	108.40	101.50	102.70	102.30	70.90	20.80	103.70	110.30	61.80	0.00	109.50	109.40	
12	12.50	4.90	108.40	101.90	102.80	102.60	69.60	20.40	103.80	110.20	61.70	0.00	109.40	109.50	
13	12.70	4.90	108.50	102.30	102.90	103.10	63.50	20.40	103.70	111.00	63.00	0.00	109.40	109.30	
14	12.70	4.90	108.60	102.70	103.30	103.90	61.40	20.40	103.70	110.60	66.10	0.00	109.40	109.30	
15	12.50	4.90	108.70	102.80	103.50	104.20	61.50	20.40	103.70	110.70	65.00	0.00	109.40	109.20	
16	12.70	4.90	108.70	102.70	103.70	104.60	62.50	20.80	103.70	110.70	65.10	0.00	109.50	109.30	
17	12.50	4.90	108.50	102.50	103.60	104.60	61.40	20.40	103.70	110.80	66.80	0.00	109.30	108.90	
18	12.70	4.90	108.50	102.30	103.70	104.40	61.30	20.40	103.70	110.90	64.20	0.00	109.30	108.70	
19	12.50	4.90	108.30	102.20	103.50	103.70	61.30	20.40	103.50	110.70	61.30	29.20	109.10	113.70	
20	12.70	5.00	108.20	101.80	103.20	103.00	63.00	20.40	103.40	110.90	61.40	35.00	109.00	115.20	
21	12.50	4.90	108.30	101.60	103.00	102.30	62.30	20.80	103.20	110.40	61.30	35.00	108.70	115.40	
22	12.70	4.90	108.10	101.40	102.90	101.70	61.20	20.40	102.90	110.50	61.30	35.10	108.60	115.50	
23	12.50	4.90	108.00	101.30	102.70	101.40	61.20	20.40	102.90	110.50	62.30	35.70	108.40	115.50	
24	12.70	4.90	108.00	101.20	102.70	101.10	61.30	20.40	102.70	110.70	62.70	35.00	108.40	115.50	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB	MCNARY	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	PASCO	
1	67.90	33.70	114.20	117.90	85.30	84.80	115.30	114.30	134.30	113.30	114.50	119.00	110.40		
2	64.80	34.30	114.60	117.70	85.00	84.40	115.30	115.00	134.30	113.00	114.30	118.90	110.10		
3	54.60	26.30	115.20	117.20	79.20	77.20	115.20	115.00	134.30	113.00	114.30	118.90	109.90		
4	54.80	27.20	115.10	117.00	65.50	65.00	114.80	114.30	134.30	113.10	114.10	118.90	109.80		
5	54.90	27.20	114.90	117.20	65.00	64.50	114.80	113.70	134.30	113.20	114.10	118.70	109.70		
6	55.00	27.20	114.90	117.10	60.50	32.90	114.60	113.60	130.90	113.00	114.00	118.70	109.80		
7	57.40	27.60	114.20	117.20	61.30	30.50	114.40	111.20	0.80	113.10	113.90	118.20	109.90		
8	55.20	27.40	113.90	117.10	60.40	30.00	114.30	111.00	0.00	113.50	113.90	115.00	110.10		
9	59.40	29.90	113.60	117.40	66.80	31.60	114.20	111.00	0.00	113.40	113.80	113.80	110.30		
10	59.90	30.40	113.30	117.60	68.40	34.20	114.20	112.30	0.00	113.40	113.80	113.30	110.40		
11	61.40	30.30	113.00	117.80	69.80	34.20	114.00	112.20	0.00	113.30	113.70	113.10	110.50		
12	61.40	30.30	112.70	118.10	69.60	34.70	113.90	112.20	0.00	113.50	113.70	112.80	110.80		
13	60.90	30.90	112.30	118.10	68.40	34.20	113.90	112.40	0.00	113.50	113.70	112.60	111.10		
14	59.90	30.30	111.90	118.10	68.40	34.20	113.80	112.30	0.00	113.50	113.70	112.50	111.20		
15	59.90	30.40	111.70	118.30	68.30	34.10	113.70	112.20	0.00	113.30	113.60	112.30	111.20		
16	59.90	30.40	111.60	118.20	68.30	34.10	113.60	111.90	0.00	113.00	113.40	112.00	110.90		
17	59.80	30.30	111.50	118.20	69.70	34.70	113.50	111.80	0.00	112.70	113.20	111.60	110.60		
18	50.90	19.50	111.40	117.90	69.70	33.90	113.30	111.50	172.10	13.90	112.50	113.00	111.20	110.00	
19	59.40	29.90	111.20	117.20	63.40	31.50	112.90	111.80	237.90	132.20	112.00	111.80	115.10	109.50	
20	57.00	27.40	111.10	116.00	52.10	25.10	112.70	110.70	257.50	135.10	111.60	111.40	117.80	108.90	
21	57.80	28.40	111.20	116.80	57.00	28.30	112.60	109.30	265.60	134.90	111.00	111.10	118.30	108.30	
22	58.80	29.40	111.70	117.20	58.10	28.70	112.20	110.10	267.10	134.90	110.60	110.60	118.50	108.10	
23	59.90	29.90	111.90	116.80	60.60	29.30	112.00	110.20	266.30	134.90	110.40	110.30	118.50	107.90	
24	58.80	29.40	112.00	116.80	58.10	28.80	111.70	110.10	238.80	134.90	109.90	110.10	118.40	107.80	

05 MAY 2003

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

05 MAY 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.			
1	12.70	4.90	108.10	101.00	102.60	100.90	61.40	20.40	102.50	110.30	61.30	35.00	108.20	115.50	
2	12.50	4.90	108.00	101.00	102.60	100.80	62.40	20.80	102.50	110.50	57.60	35.10	108.10	115.60	
3	12.70	4.90	107.80	100.80	102.30	100.70	64.70	20.40	102.40	111.60	54.90	35.70	107.90	115.50	
4	12.50	4.90	107.90	100.80	102.20	100.50	61.30	20.40	102.30	110.40	53.90	35.10	107.80	115.50	
5	12.70	5.00	107.90	100.70	102.10	100.50	61.40	20.50	102.10	110.40	55.20	35.10	107.60	115.40	
6	12.50	4.90	107.90	100.70	102.00	100.40	62.40	20.50	102.10	110.10	56.10	35.10	107.60	115.40	
7	12.70	4.90	107.80	100.80	102.00	100.50	76.50	20.80	102.00	109.70	60.00	3.10	107.30	110.00	
8	12.50	4.90	108.00	100.90	102.10	100.80	75.80	20.40	102.00	109.50	71.00	0.00	107.20	109.20	
9	12.70	5.00	107.90	101.00	102.30	101.20	73.50	20.40	102.20	109.70	82.50	0.00	107.00	107.50	
10	12.50	4.90	108.20	101.50	102.50	102.00	70.90	20.40	102.10	109.50	84.70	0.00	106.90	107.20	
11	12.70	4.90	108.10	102.00	103.10	102.40	64.60	20.40	102.20	109.80	84.40	0.00	106.80	106.90	
12	12.50	4.90	107.70	102.40	103.10	102.80	61.80	20.80	102.20	110.00	72.90	0.00	106.70	106.80	
13	12.70	5.00	108.10	102.50	103.20	103.40	62.30	20.40	102.20	110.00	56.60	0.00	106.60	106.70	
14	12.80	4.90	108.00	102.60	103.50	103.50	61.40	20.40	102.30	110.10	59.10	0.00	106.50	106.60	
15	15.80	5.90	108.90	102.70	103.70	103.90	61.20	20.40	102.40	110.10	54.60	0.00	106.40	106.40	
16	15.70	5.80	108.90	102.90	104.40	104.10	61.30	20.40	102.40	110.10	56.80	0.00	106.30	106.50	
17	16.00	5.90	109.10	102.90	104.50	104.10	61.50	20.40	102.30	110.30	54.10	0.00	106.40	106.50	
18	15.70	5.80	109.00	102.90	104.50	103.80	62.40	20.80	102.20	110.30	53.40	0.20	106.10	106.20	
19	16.00	5.90	108.90	102.70	104.40	103.50	66.00	20.40	102.30	110.10	62.60	34.90	106.00	113.50	
20	15.70	5.80	108.80	102.40	104.20	102.80	66.40	20.40	102.10	109.90	62.30	35.80	106.00	115.00	
21	16.00	5.90	108.70	102.30	103.90	102.40	66.60	20.40	102.10	109.90	61.90	35.20	106.10	115.40	
22	15.70	5.80	108.60	101.90	103.70	102.00	84.20	20.80	102.20	110.00	77.60	35.10	106.60	114.90	
23	15.90	5.90	108.80	101.80	103.70	101.80	64.80	20.40	102.10	110.00	63.30	35.20	106.70	115.30	
24	15.70	5.80	108.60	101.70	103.60	101.70	62.60	20.50	102.10	110.10	61.70	35.30	106.60	115.40	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. OR FB	WA TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB	GAS %SAT	
1	59.00	29.40	111.80	116.70	28.80	111.50	110.30	237.00	134.90	109.70	109.70	118.20		107.70	
2	59.00	29.40	111.60	116.60	28.80	111.30	110.10	237.10	134.90	109.50	109.30	118.10		107.80	
3	60.60	29.40	111.20	116.60	29.10	111.10	110.40	234.10	134.90	109.30	109.00	118.00		107.60	
4	56.70	28.30	111.80	116.50	29.70	110.90	110.40	233.60	134.90	109.10	108.80	118.00		107.60	
5	56.50	28.20	112.00	116.50	29.30	110.70	110.50	233.60	134.90	108.90	108.50	117.80		107.60	
6	57.00	27.70	111.80	116.50	30.50	110.60	110.40	215.00	120.40	108.80	108.40	117.90		107.60	
7	56.00	27.80	111.50	116.50	40.60	110.40	111.20	170.50	9.80	108.60	108.30	116.70		107.80	
8	64.00	32.60	111.20	116.80	40.50	110.50	112.20	174.70	4.00	108.60	108.30	112.10		108.10	
9	74.00	34.30	110.90	117.30	41.10	110.30	112.40	174.10	0.00	108.50	108.50	109.40		108.30	
10	84.20	34.40	110.50	117.70	40.30	110.30	112.80	175.50	0.00	108.30	108.30	108.30		108.80	
11	86.60	35.00	110.20	118.00	40.40	110.40	112.80	241.00	0.00	108.80	108.40	107.80		109.30	
12	85.30	34.40	110.00	118.00	40.50	110.30	112.90	244.50	0.00	108.60	108.40	107.70		109.70	
13	72.60	33.80	110.10	117.90	40.50	110.40	112.90	243.90	0.00	108.40	108.30	0.00		110.50	
14	62.20	31.00	109.70	117.70	40.40	110.40	112.80	243.10	0.00	108.50	108.20	0.00		111.00	
15	56.10	27.80	109.40	117.90	40.00	110.50	112.80	244.20	0.00	107.80	108.40	107.60		111.30	
16	52.10	24.60	109.10	117.00	31.00	110.40	112.60	244.40	0.00	108.60	107.80	107.50		111.50	
17	53.60	25.10	109.10	116.60	31.00	110.40	111.40	244.30	0.00	108.30	108.10	107.40		111.20	
18	50.80	24.60	109.40	116.70	25.30	110.20	111.00	245.10	8.30	108.10	108.00	107.40		113.90	
19	43.30	15.50	109.40	116.60	23.40	110.20	110.50	208.10	135.30	108.00	107.70	115.70		112.20	
20	53.30	26.90	109.60	116.40	23.60	110.20	109.60	215.70	140.00	107.80	107.70	118.20		111.70	
21	58.60	26.90	109.60	117.00	23.30	110.10	109.50	216.30	140.00	107.60	107.80	118.60		111.50	
22	68.70	31.50	109.60	117.10	23.30	110.00	109.50	215.60	140.00	107.70	107.80	118.80		111.30	
23	66.20	34.10	109.70	117.20	24.00	109.90	109.40	206.40	140.00	107.60	107.70	118.90		111.20	
24	66.00	33.50	109.80	117.10	29.30	109.90	109.60	204.50	140.00	107.60	107.70	119.00		111.20	

06 MAY 2003

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

06 MAY 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	LOWER GRANITE	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.		
1	15.90	5.90	108.60	101.50	103.40	101.50	62.90	20.40	101.80	109.90	64.10	35.80	106.80	115.50	
2	15.60	5.80	108.60	101.50	103.20	101.40	63.10	20.50	101.70	110.10	64.40	35.20	106.90	115.50	
3	15.90	5.90	108.40	101.40	103.10	101.30	83.70	20.90	101.50	109.30	65.40	35.20	107.00	115.60	
4	15.60	5.80	108.40	101.20	103.00	101.10	83.80	20.50	101.60	108.60	79.80	35.20	106.90	115.00	
5	15.90	5.90	108.30	101.10	102.80	101.00	85.30	20.50	101.60	108.60	82.10	35.90	106.80	114.90	
6	15.60	5.80	108.50	101.10	102.60	100.90	76.60	19.20	101.30	108.60	81.60	35.30	106.60	114.90	
7	15.90	5.90	108.50	101.20	102.60	100.90	74.70	0.00	101.20	103.10	77.90	5.00	106.70	109.60	
8	15.60	5.80	108.60	101.30	102.80	101.20	77.30	0.00	101.20	102.10	74.80	0.00	106.60	107.30	
9	15.90	5.90	108.70	101.70	103.20	101.70	76.00	0.00	101.30	101.70	84.30	0.00	106.40	106.90	
10	15.60	5.80	108.80	102.20	103.40	102.50	75.80	0.00	101.30	101.60	86.30	0.00	106.30	106.50	
11	15.90	5.90	109.00	102.70	103.80	103.40	71.50	0.00	101.30	101.70	84.80	0.00	106.10	106.40	
12	15.60	5.80	109.00	103.10	104.10	104.00	73.20	0.00	101.40	101.70	84.60	0.00	106.10	106.20	
13	15.90	5.90	108.90	103.20	104.10	104.10	68.90	0.00	101.60	102.00	76.40	0.00	106.00	106.30	
14	15.60	5.80	109.10	103.20	104.20	103.90	67.00	0.00	101.50	101.90	69.00	0.00	106.10	106.20	
15	15.90	5.90	108.80	103.00	104.40	103.70	66.10	0.00	101.50	101.60	67.70	0.00	106.10	106.20	
16	15.60	5.80	108.80	103.10	104.20	104.00	66.00	0.00	101.40	101.60	67.80	0.00	106.10	106.00	
17	15.90	5.90	108.90	102.80	104.30	104.20	65.90	0.00	101.20	101.30	67.60	0.00	106.10	106.10	
18	15.80	5.90	109.00	102.90	104.50	103.90	66.90	1.30	101.20	101.10	69.20	1.10	106.10	106.10	
19	15.60	5.80	108.90	102.80	104.50	103.80	81.90	39.00	101.20	115.00	79.70	36.90	106.50	113.70	
20	15.90	5.80	108.80	102.50	104.30	103.30	81.70	41.10	101.10	117.00	80.20	36.90	106.80	115.30	
21	15.60	5.80	108.70	102.30	104.10	102.80	86.00	40.30	101.30	117.20	86.20	36.90	107.00	115.10	
22	15.90	5.80	108.70	102.00	103.90	102.40	76.20	40.30	101.40	117.80	87.20	37.50	107.50	115.40	
23	15.60	5.70	108.70	101.80	103.80	102.00	68.10	40.40	101.40	118.60	64.80	36.90	107.70	115.80	
24	15.90	5.80	108.90	101.70	103.60	101.70	59.60	40.30	101.40	118.80	58.90	36.80	107.40	116.30	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	MCNARY	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	MCNARY	PASCO
1	60.20	29.20	109.80	117.00	34.70	109.70	110.70	204.60	140.00	107.60	107.60	119.10	0.00	111.20	
2	51.60	24.70	109.80	116.40	38.20	109.80	111.50	204.40	140.00	107.50	107.40	119.30	0.00	111.10	
3	64.30	30.70	110.10	116.80	37.80	109.60	111.80	205.10	140.00	107.30	107.40	119.30	0.00	111.20	
4	66.90	32.70	110.30	116.80	38.00	109.60	112.00	224.80	140.00	107.40	107.30	118.90	0.00	111.10	
5	65.70	32.40	110.80	116.80	38.90	109.60	112.10	225.30	140.00	107.30	107.40	118.90	0.00	111.20	
6	65.60	32.40	110.80	116.70	44.90	109.50	112.40	180.80	108.90	107.20	107.30	119.30	0.00	111.20	
7	69.00	33.80	111.30	116.90	45.70	109.50	113.20	170.90	0.00	107.30	107.20	114.20	0.00	111.20	
8	79.80	34.10	111.00	117.30	44.90	109.80	113.30	175.80	0.00	107.10	107.20	108.40	0.00	111.50	
9	87.70	34.00	111.10	117.60	44.90	110.10	113.40	175.00	0.00	107.40	107.30	107.20	0.00	111.90	
10	87.80	34.70	110.80	117.90	44.90	110.10	113.80	173.70	0.00	108.20	107.50	106.80	0.00	112.20	
11	87.00	34.70	110.60	118.20	44.90	110.20	113.90	162.40	0.00	109.00	107.70	106.90	0.00	112.40	
12	90.30	37.60	110.40	118.70	45.70	110.30	113.80	173.00	0.00	108.10	107.80	107.10	0.00	112.80	
13	89.90	37.50	110.10	119.50	44.90	110.20	113.90	173.70	0.00	107.90	107.90	107.10	0.00	112.90	
14	78.40	37.30	109.40	119.70	45.00	110.50	114.10	173.50	0.00	108.00	108.00	106.90	0.00	113.20	
15	67.10	33.20	109.20	118.20	45.00	110.60	114.00	172.40	0.00	108.50	107.90	106.90	0.00	113.40	
16	65.50	32.50	109.00	118.10	44.90	110.60	113.90	173.00	0.00	108.50	107.70	106.80	0.00	113.70	
17	65.40	32.50	108.70	117.90	45.70	110.60	113.60	228.50	54.30	108.70	107.40	108.10	0.00	114.00	
18	68.30	32.50	108.80	117.90	45.30	110.70	113.50	253.40	78.40	108.80	107.10	113.80	0.00	113.90	
19	47.00	17.00	109.00	116.10	54.80	111.00	113.40	299.80	149.40	108.60	107.00	118.90	0.00	113.90	
20	77.90	34.60	109.20	117.60	54.70	110.90	113.20	299.20	149.90	108.60	107.10	119.70	0.00	113.90	
21	79.10	36.00	109.60	117.60	55.10	110.80	113.10	298.50	149.70	108.50	107.20	119.70	0.00	113.70	
22	78.60	35.40	109.80	117.60	66.10	110.80	113.00	298.00	149.60	108.20	107.40	119.50	0.00	113.60	
23	76.50	35.40	110.10	117.40	75.80	111.00	114.40	297.50	149.50	107.80	107.40	119.70	0.00	113.30	
24	77.80	35.40	110.60	117.30	74.70	110.60	114.40	296.60	149.40	107.40	107.60	119.70	0.00	113.10	

07 MAY 2003

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

07 MAY 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	LOWER GRANITE	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.		
1	15.60	5.70	108.90	101.50	103.60	101.40	60.80	41.20	101.30	119.10	58.70	36.80	107.40	116.20	
2	15.90	5.80	108.80	101.40	103.50	101.30	60.20	40.60	101.30	119.10	56.30	37.50	107.40	116.30	
3	15.60	5.70	108.80	101.40	103.30	101.10	69.50	40.60	101.30	118.90	58.40	36.90	107.30	116.30	
4	15.90	5.80	108.80	101.30	103.20	101.00	74.70	40.70	101.30	118.70	63.20	36.70	107.70	115.90	
5	15.60	5.70	109.10	101.10	103.00	100.90	79.90	40.70	101.30	118.60	66.10	37.10	107.70	116.00	
6	15.90	5.80	109.10	101.20	103.10	100.80	80.60	39.20	101.30	118.40	77.60	34.50	107.60	115.40	
7	15.50	5.70	109.20	101.10	103.00	100.90	81.80	0.00	101.30	105.50	76.60	0.00	107.60	110.50	
8	15.80	5.80	109.20	101.30	103.20	101.50	82.60	0.00	101.50	103.20	79.30	0.00	107.70	108.30	
9	15.60	5.70	109.40	101.70	103.40	102.20	82.70	0.00	101.60	102.40	79.10	0.00	107.70	107.90	
10	15.80	5.80	109.30	102.30	103.60	103.20	82.20	0.00	101.80	102.20	79.00	0.00	107.90	108.00	
11	15.50	5.70	109.60	102.90	104.30	103.90	64.40	0.00	102.10	102.10	78.10	0.00	108.10	107.90	
12	15.80	5.80	109.70	103.40	104.80	104.60	63.10	0.00	102.70	102.00	77.70	0.00	107.80	107.90	
13	15.80	5.80	109.30	103.90	104.80	105.30	63.40	0.00	102.70	102.00	65.90	0.00	107.90	108.10	
14	15.50	5.70	109.50	104.00	104.90	105.90	63.10	0.00	102.40	101.90	63.00	0.00	107.90	107.90	
15	15.80	5.80	109.40	104.00	105.10	105.80	64.60	0.00	102.50	102.70	63.70	0.00	108.00	107.80	
16	15.50	5.70	109.60	104.10	105.10	105.70	63.20	0.00	102.40	102.40	63.10	0.00	108.00	107.80	
17	15.80	5.80	109.30	103.80	105.40	105.30	62.90	0.00	102.40	102.60	62.50	0.00	107.90	107.80	
18	15.50	5.70	109.50	103.70	105.60	105.30	63.30	1.20	103.10	102.20	64.80	1.30	107.90	107.70	
19	15.80	5.80	109.30	103.40	105.40	104.80	68.80	40.40	103.20	116.10	70.20	38.90	108.10	115.20	
20	15.60	5.70	109.20	103.00	105.20	103.90	80.20	40.40	102.50	117.60	80.80	39.60	107.90	115.80	
21	15.80	5.80	109.30	102.70	104.90	103.40	81.10	40.40	102.30	117.90	80.20	39.00	107.80	115.70	
22	15.50	5.70	109.20	102.40	104.70	102.80	71.20	40.40	102.30	118.60	79.30	39.00	108.00	115.80	
23	15.80	5.80	109.20	102.30	104.50	102.40	56.30	41.20	102.80	118.90	57.20	39.70	108.10	116.60	
24	15.50	5.70	109.00	102.00	104.40	102.10	53.00	40.50	102.50	119.10	52.20	39.10	108.00	116.80	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	MCNARY	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	PASCO	
1	63.90	32.80	110.40	116.90	84.70	74.50	110.80	114.30	253.60	149.50	107.00	107.50	119.50	112.90	
2	62.60	31.10	111.20	116.60	84.90	74.60	111.10	114.40	270.20	149.20	106.70	107.20	119.20	112.80	
3	54.60	26.70	111.40	116.40	66.00	54.40	111.20	114.50	279.70	148.90	107.00	107.30	119.10	112.60	
4	50.90	24.60	111.20	115.50	62.10	50.40	111.20	113.10	281.40	149.00	106.80	107.50	119.50	112.40	
5	51.10	24.60	111.20	115.40	59.60	49.40	111.30	112.90	300.70	148.60	106.70	107.60	119.70	112.30	
6	54.30	24.60	111.40	115.30	61.50	46.10	111.00	113.10	280.60	127.00	106.60	107.20	119.80	112.10	
7	76.60	33.90	111.10	117.30	59.10	44.20	111.20	112.80	175.00	0.00	106.80	107.30	115.50	111.80	
8	80.50	36.00	110.80	117.20	69.50	44.30	111.30	112.70	174.90	0.00	107.30	107.50	109.30	112.00	
9	78.70	35.30	110.60	117.40	73.70	45.20	111.30	113.20	174.80	0.00	108.60	107.70	108.20	112.30	
10	80.60	35.40	110.10	117.80	82.30	44.40	113.50	113.40	174.50	0.00	109.50	108.30	108.00	112.90	
11	78.80	35.30	109.90	118.00	83.40	44.50	112.90	116.30	174.20	0.00	110.20	108.20	108.00	113.40	
12	79.00	35.30	109.80	112.90	89.70	44.40	113.30	114.50	174.10	0.00	110.70	108.40	108.20	114.00	
13	82.10	36.00	109.40	117.60	93.70	44.50	113.50	114.40	172.80	0.00	109.70	108.60	108.20	114.60	
14	78.50	34.90	109.40	118.30	95.50	45.20	113.40	114.50	171.80	0.00	112.00	108.80	108.40	115.20	
15	59.30	29.80	109.30	118.20	94.80	44.30	113.30	114.40	171.40	0.00	111.50	108.80	108.50	115.60	
16	58.60	29.80	109.10	117.90	80.90	44.20	113.80	114.10	171.30	0.00	111.80	108.90	108.70	115.70	
17	58.90	29.80	109.40	118.10	73.40	44.10	113.70	113.90	170.40	0.00	111.60	109.00	108.70	115.80	
18	46.10	15.00	109.60	117.50	56.30	44.10	113.30	113.60	230.50	58.40	111.40	108.80	110.10	115.70	
19	56.80	22.40	109.50	116.10	61.30	49.50	113.50	113.30	301.30	148.90	111.30	109.20	118.50	115.90	
20	75.20	33.70	110.00	118.00	59.20	49.10	113.30	113.30	325.10	149.60	110.70	109.90	119.70	115.70	
21	78.60	35.40	110.80	117.50	59.20	49.30	113.70	113.30	326.90	149.50	110.10	110.40	120.20	115.80	
22	75.70	35.30	111.60	117.40	60.70	49.40	113.80	113.20	323.60	148.90	109.70	110.50	120.00	115.60	
23	55.10	26.50	111.80	116.60	53.20	49.70	114.10	113.20	256.90	148.90	109.80	110.80	119.70	115.50	
24	58.10	25.70	111.90	116.00	62.60	62.10	113.80	113.00	204.00	149.00	109.60	110.70	119.50	115.10	

08 MAY 2003

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

08 MAY 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	LOWER GRANITE	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.		
1	15.80	5.80	109.00	102.00	104.20	102.00	53.10	40.60	102.40	119.10	51.80	38.70	107.80	116.80	
2	15.50	5.70	109.00	101.90	103.90	101.90	54.70	40.70	102.40	119.40	53.10	39.80	107.50	116.80	
3	15.80	5.80	109.20	101.80	103.80	101.60	75.50	40.70	102.20	118.70	52.10	39.00	107.60	116.80	
4	15.50	5.70	109.20	101.80	103.50	101.50	77.00	40.80	102.10	118.70	52.30	39.10	108.00	116.80	
5	15.80	5.80	109.00	101.60	103.40	101.30	79.10	40.70	101.90	118.80	53.20	39.10	108.00	116.90	
6	15.50	5.60	109.10	101.60	103.20	101.10	86.40	39.00	101.80	118.10	84.90	39.20	107.90	115.80	
7	15.80	5.80	109.20	101.60	103.20	101.20	58.40	0.00	101.60	107.60	81.80	6.60	107.90	111.10	
8	15.50	5.60	109.20	101.70	103.30	101.80	72.20	0.00	101.90	104.20	79.60	0.00	107.90	108.50	
9	15.80	5.70	109.30	102.00	103.60	102.40	70.30	0.00	102.10	102.90	71.50	0.00	108.10	108.50	
10	15.80	5.70	109.30	102.30	104.00	103.30	69.30	0.00	102.60	103.10	71.50	0.00	108.20	108.30	
11	15.50	5.60	109.50	102.80	104.30	104.00	71.40	0.00	103.80	102.70	81.20	0.00	108.10	108.30	
12	15.70	5.70	109.60	103.30	104.80	104.70	71.60	0.00	104.60	102.90	82.70	0.00	108.10	108.50	
13	15.40	5.60	109.50	103.80	105.10	105.60	71.20	0.00	103.80	103.00	76.10	0.00	108.20	108.40	
14	15.50	5.40	108.80	104.10	105.50	105.90	72.40	0.00	103.00	102.90	77.30	0.00	108.30	108.30	
15	15.40	5.40	108.80	104.20	105.60	106.20	79.10	0.00	103.10	102.90	76.20	0.00	108.40	108.30	
16	15.20	5.30	108.90	104.30	105.60	106.40	69.90	0.00	103.20	103.00	72.50	0.00	108.40	108.20	
17	15.50	5.40	108.90	104.30	105.70	106.40	66.20	0.00	102.90	102.80	68.50	0.00	108.40	108.20	
18	15.20	5.30	108.70	104.10	105.70	106.30	67.90	3.10	102.90	102.80	64.40	0.60	108.70	108.30	
19	15.50	5.40	108.50	103.60	105.20	105.60	71.80	40.50	103.10	116.20	69.30	41.10	108.80	115.50	
20	15.20	5.30	108.40	103.20	105.10	104.80	75.70	41.20	102.90	117.80	69.30	41.40	108.70	116.90	
21	15.40	5.40	108.50	102.80	104.60	104.00	80.60	40.40	102.70	118.20	75.00	42.10	108.80	116.80	
22	15.20	5.30	108.40	102.40	104.60	103.40	83.50	40.40	102.90	117.90	73.60	41.40	108.50	116.90	
23	15.40	5.40	108.20	102.30	104.20	102.90	58.90	40.50	102.90	118.50	60.00	41.50	108.60	117.30	
24	15.20	5.30	108.30	102.10	104.00	102.50	53.70	40.40	102.80	119.10	55.40	41.40	108.60	117.40	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	MCNARY	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	PASCO	
1	54.60	26.00	112.60	116.10	70.10	69.60	113.70	113.70	148.90	109.50	110.70	119.20	114.80		
2	55.40	27.00	112.70	116.60	70.30	69.70	114.10	114.00	148.90	109.50	110.50	119.40	114.60		
3	55.50	27.00	113.40	116.70	70.10	69.60	114.00	114.00	149.80	109.40	110.50	119.30	114.30		
4	55.50	27.00	113.20	116.50	71.60	69.60	114.00	114.20	149.80	109.20	110.40	119.10	114.00		
5	55.60	27.00	112.80	116.50	71.60	70.70	113.90	114.30	149.80	109.10	110.30	119.20	113.80		
6	56.60	27.50	112.00	116.50	52.50	27.90	113.70	114.20	128.30	109.00	110.40	119.20	113.60		
7	55.60	27.00	111.50	116.40	52.30	26.40	113.50	110.90	158.20	0.00	109.00	110.20	113.40		
8	73.10	31.80	111.30	117.00	61.10	29.90	113.70	110.60	162.90	0.00	109.00	110.20	113.30		
9	76.10	35.40	110.80	117.70	72.30	34.80	114.00	111.30	152.30	0.00	109.80	110.20	110.60		
10	76.10	35.40	110.60	117.70	79.20	39.60	114.80	112.90	160.40	0.00	111.90	110.30	110.20		
11	76.30	35.50	110.40	118.20	81.60	40.80	116.20	113.00	168.30	0.00	113.30	110.50	110.30		
12	77.60	36.00	109.60	118.50	81.70	40.10	117.40	113.10	173.30	0.00	114.00	111.10	110.40		
13	76.40	35.40	109.40	119.00	81.90	40.10	116.00	113.70	170.80	0.00	114.10	112.10	110.50		
14	76.50	35.40	111.10	118.80	80.30	40.10	116.00	113.40	171.50	0.00	114.80	111.70	110.60		
15	78.00	35.40	111.10	119.10	80.30	40.10	115.30	113.10	170.90	0.00	114.20	112.30	110.70		
16	76.60	35.40	111.00	118.90	81.70	40.80	115.20	113.20	205.20	38.80	111.20	113.40	110.80		
17	77.20	35.50	111.00	119.00	80.10	40.10	115.80	113.20	248.90	75.00	112.40	113.70	115.00		
18	73.10	36.10	109.70	118.70	80.20	40.10	115.30	113.00	311.60	136.00	112.10	113.70	118.80		
19	57.20	19.90	111.10	118.30	81.80	40.10	115.20	112.90	326.40	149.70	112.70	113.70	120.30		
20	61.00	25.40	110.10	116.40	80.40	40.10	115.20	113.10	326.80	149.60	112.50	112.70	120.60		
21	78.40	39.20	111.00	118.70	83.10	40.50	115.00	112.60	326.40	149.50	112.10	112.80	120.40		
22	77.80	39.20	111.40	118.70	88.80	43.50	114.90	112.70	319.00	149.20	111.40	112.60	120.30		
23	59.90	29.90	111.40	117.50	68.00	34.10	115.00	113.50	279.90	149.20	111.10	112.60	120.00		
24	60.00	29.90	112.40	117.20	58.30	29.10	114.70	112.10	214.40	149.50	111.10	112.30	119.70		

09 MAY 2003

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

09 MAY 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	LOWER GRANITE	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.		
1	15.40	5.40	108.40	101.90	103.90	102.00	53.60	40.50	103.00	119.00	56.20	42.10	108.60	117.50	
2	15.20	5.30	108.30	101.80	103.80	101.70	55.70	41.40	103.10	119.00	54.60	41.40	108.30	117.40	
3	15.40	5.40	108.10	101.60	103.50	101.40	67.80	40.70	103.00	119.00	56.60	41.40	108.00	117.30	
4	15.10	5.30	108.20	101.50	103.30	101.00	74.10	40.70	103.00	118.70	69.10	41.40	107.90	116.80	
5	15.40	5.40	108.20	101.30	103.10	100.90	79.10	40.70	102.80	118.80	78.20	41.40	107.50	116.70	
6	15.10	5.30	108.10	101.20	102.90	100.60	82.60	40.00	102.80	118.60	81.80	42.10	106.70	116.60	
7	15.40	5.40	108.00	101.20	102.80	100.80	80.40	0.00	102.60	106.00	79.20	1.20	106.90	110.30	
8	15.20	5.30	108.00	101.40	102.90	101.50	82.50	0.00	102.70	104.10	79.80	0.00	106.40	107.70	
9	15.40	5.40	108.20	101.70	103.30	102.20	83.20	0.00	102.70	103.30	79.20	0.00	106.20	106.80	
10	15.40	5.40	108.40	102.10	103.60	103.10	66.80	0.00	102.80	103.20	68.60	0.00	106.20	106.50	
11	15.10	5.30	108.40	102.40	104.10	103.90	65.50	0.00	102.90	103.00	64.80	0.00	105.90	0.00	
12	15.40	5.40	108.20	102.70	104.10	104.60	65.70	0.00	102.90	102.90	65.50	0.00	106.40		
13	15.10	5.30	108.00	102.90	104.10	105.00	61.00	0.00	103.10	102.80	58.00	0.00	106.70	106.10	
14	15.40	5.40	108.10	102.90	104.10	105.20	60.80	0.00	102.80	103.10	56.30	0.00	105.70	106.00	
15	15.40	5.40	108.10	103.20	104.20	105.30	62.10	0.00	0.00	102.50	57.40	0.00	105.60	106.10	
16	15.10	5.30	108.10	103.40	104.40	104.90	60.90	0.00	102.90	102.30	56.20	0.00	105.70	105.60	
17	15.40	5.30	108.20	103.20	104.50	105.00	60.90	0.00	102.90	102.30	56.30	0.00	106.00	105.60	
18	15.10	5.20	108.20	103.10	104.50	104.70	64.70	4.30	102.90	102.30	61.20	0.80	106.00	105.50	
19	15.40	5.30	108.00	102.90	104.50	104.00	76.70	40.40	102.90	115.80	78.00	39.70	106.60	114.40	
20	15.10	5.20	107.90	-999.00	104.10	103.30	76.10	40.40	103.30	117.20	86.90	39.00	106.60	115.10	
21	15.40	5.30	107.70	102.20	103.90	102.60	70.80	40.40	103.20	117.70	93.00	38.90	106.80	115.00	
22	15.10	5.20	107.40	102.00	103.70	102.00	70.60	41.00	103.20	118.10	92.30	38.80	108.90	115.20	
23	15.40	5.30	107.50	101.80	103.50	101.60	55.90	40.30	103.40	118.50	69.40	38.80	109.80	115.80	
24	15.10	5.20	107.30	101.60	103.30	101.30	55.30	40.40	103.60	118.70	54.80	39.50	109.50	116.30	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	MCNARY	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	PASCO	
1	59.80	30.50	113.10	117.20	58.00	29.10	115.00	111.20	149.50	111.00	112.00	119.80	115.20		
2	57.80	29.90	113.30	117.00	59.10	29.10	114.60	110.90	149.40	111.00	112.10	119.40	115.10		
3	54.80	27.10	113.00	116.80	58.80	29.60	114.50	110.90	149.50	110.80	112.00	119.40	114.90		
4	53.10	26.60	113.30	116.60	59.50	29.10	114.50	110.90	149.80	110.70	111.90	119.70	114.60		
5	53.10	26.60	113.30	116.60	63.00	29.90	114.30	110.90	149.20	110.50	111.90	120.20	114.40		
6	56.20	28.30	112.30	116.60	67.70	34.10	114.00	111.30	130.10	110.40	111.90	120.30	113.80		
7	80.60	36.10	112.30	117.10	67.90	34.10	113.80	111.70	176.00	0.00	110.40	118.40	112.90		
8	79.10	36.10	112.00	117.30	76.90	38.00	113.80	111.90	174.40	0.00	111.10	111.60	112.40		
9	78.90	36.00	111.70	117.50	83.00	39.90	114.00	112.50	173.80	0.00	111.40	111.70	111.50		
10	79.20	35.80	111.60	117.90	83.30	39.90	114.30	113.30	172.90	0.00	112.80	112.10	111.40		
11	67.70	33.50	110.80	118.00	81.40	39.90	115.40	113.20	171.90	0.00	112.50	112.80	111.40		
12	68.20	34.10	110.00	118.30	66.90	32.70	117.50	113.60	170.80	0.00	113.40	111.90	111.40		
13	57.50	28.90	110.00	118.20	67.50	33.30	117.70	112.70	169.80	0.00	114.20	113.00	111.60		
14	56.20	28.10	110.80	118.40	65.30	32.00	117.20	112.70	169.50	0.00	114.50	114.40	111.60		
15	52.00	25.30	109.70	118.00	55.60	26.70	116.30	112.60	169.80	0.00	114.10	114.00	111.70		
16	51.60	25.30	109.60	117.80	55.40	26.70	115.20	111.20	170.20	0.00	113.80	113.60	111.50		
17	52.50	25.80	109.80	117.60	55.20	26.70	115.10	111.10	170.50	0.00	112.20	114.30	111.70		
18	52.00	25.30	109.30	117.40	56.20	27.20	116.40	111.00	171.40	4.20	111.60	114.20	111.80		
19	52.40	16.80	110.00	117.10	66.20	30.20	115.40	110.80	247.40	147.00	111.70	113.80	116.10		
20	71.90	26.90	111.10	117.40	76.30	34.10	115.70	112.00	298.90	149.40	111.50	114.00	119.20		
21	79.90	31.90	112.10	118.00	84.20	40.20	116.40	112.00	302.70	149.30	111.60	113.60	119.70		
22	93.30	41.50	114.30	119.90	89.00	44.30	114.90	113.30	302.20	149.00	111.50	113.50	119.80		
23	95.20	42.20	112.80	120.10	89.10	44.40	114.60	113.40	300.40	148.70	111.30	113.40	119.90		
24	91.20	40.70	113.30	120.20	92.10	45.20	114.10	113.30	241.40	148.90	111.10	113.20	119.50		

10 MAY 2003

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

10 MAY 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	LOWER GRANITE	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	LOWER GRANITE	LITTLE GOOSE
1	15.10	5.30	107.30	101.40	103.10	101.10	57.10	40.50	103.10	118.70	52.20	38.70	109.00	116.50	
2	15.10	5.30	107.40	101.40	102.90	101.00	55.50	40.60	103.20	118.80	52.20	38.70	108.40	116.50	
3	15.10	5.30	107.40	101.20	102.90	100.80	64.90	40.60	102.90	118.80	53.70	38.80	109.00	116.50	
4	15.10	5.30	107.20	101.20	102.70	100.60	68.00	41.40	102.60	118.70	53.10	39.40	109.00	116.60	
5	15.10	5.30	107.30	101.20	102.50	100.50	68.20	40.70	102.70	118.90	52.70	38.80	108.70	116.70	
6	15.10	5.30	106.90	101.10	102.40	100.40	81.70	40.60	102.60	118.40	66.20	38.80	108.40	116.40	
7	15.10	5.30	107.00	101.00	102.40	100.60	79.60	21.10	102.70	111.30	75.40	3.50	108.30	111.80	
8	15.10	5.30	106.90	101.10	102.50	101.20	79.70	20.50	102.90	110.10	76.10	0.00	108.10	109.40	
9	15.10	5.30	107.00	101.60	102.80	101.90	75.20	20.90	102.80	109.90	76.50	0.00	108.30	108.90	
10	14.90	5.30	107.30	102.00	103.20	102.70	69.60	20.50	102.90	110.20	74.60	0.00	107.70	108.20	
11	14.60	5.20	107.30	102.60	103.70	103.60	68.80	20.50	102.70	110.20	65.30	0.00	109.00	108.20	
12	14.90	5.30	107.50	103.20	104.20	104.40	68.60	20.50	103.00	109.90	64.50	0.00	107.90	107.80	
13	14.60	5.20	107.60	103.60	104.50	105.20	61.10	20.50	103.00	110.80	59.40	0.00	106.90	107.70	
14	14.90	5.30	107.30	104.00	105.00	105.80	60.70	20.50	102.90	110.50	56.20	0.00	107.30	107.50	
15	14.60	5.20	107.50	104.20	105.10	106.10	61.90	20.90	103.00	110.40	56.30	0.00	106.80	107.30	
16	14.80	5.20	107.40	104.30	105.20	106.40	60.70	20.50	102.90	110.50	56.30	0.00	106.90	107.10	
17	14.60	5.20	107.40	104.20	105.20	105.80	61.20	20.50	103.10	110.50	57.30	0.00	106.80	107.20	
18	14.90	5.30	107.20	103.90	105.00	105.60	75.00	20.50	103.20	109.80	56.90	1.40	107.00	107.00	
19	14.60	5.20	107.40	103.60	104.80	104.80	75.90	20.40	103.30	109.50	74.40	39.20	107.80	113.60	
20	14.80	5.20	107.50	103.20	104.70	104.20	75.90	20.40	103.30	109.20	76.20	39.20	109.00	115.60	
21	14.60	5.20	107.40	102.90	104.30	103.60	72.60	20.70	103.10	109.20	79.50	39.80	107.60	115.90	
22	14.80	5.20	107.50	102.60	104.30	103.10	54.40	20.40	103.50	109.80	77.90	39.20	107.90	115.80	
23	14.60	5.10	107.40	102.40	104.10	102.50	45.40	20.40	104.10	111.00	65.00	37.90	108.70	116.00	
24	14.80	5.20	107.30	102.10	103.90	102.10	45.10	20.40	103.60	111.20	45.60	28.60	109.30	114.60	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	MCNARY	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	PASCO	
1	55.40	27.50	113.00	117.60	88.80	44.40	114.30	113.50	148.80	110.90	113.00	118.90	114.40		
2	54.40	27.50	113.00	116.90	71.00	34.30	114.30	113.30	147.80	110.80	113.20	119.00	114.10		
3	38.20	19.50	112.60	116.10	68.40	34.10	114.30	112.30	149.90	110.90	112.90	119.60	113.90		
4	35.70	18.50	112.20	113.80	59.70	29.90	114.10	111.70	150.10	110.70	112.70	120.30	113.70		
5	42.50	21.40	112.00	113.50	52.90	26.80	113.90	110.80	150.10	110.80	112.70	120.10	113.30		
6	55.00	28.00	113.30	116.00	38.80	25.60	113.70	110.60	130.00	110.80	112.50	120.20	112.90		
7	69.50	34.30	113.20	116.70	38.60	25.70	113.80	109.90	0.00	111.30	112.30	116.70	112.70		
8	68.80	34.70	112.80	117.10	41.80	29.10	113.80	110.10	0.00	111.30	112.40	112.20	112.80		
9	75.80	37.80	112.40	118.50	58.60	45.00	113.80	110.50	0.00	112.00	112.50	111.60	112.80		
10	77.70	38.80	111.90	119.40	77.40	45.80	113.90	113.00	0.00	112.70	112.40	111.60	113.10		
11	76.30	38.10	111.70	119.70	83.90	45.10	114.20	113.60	0.00	113.20	112.30	111.60	113.20		
12	74.60	36.60	111.20	119.90	85.70	45.10	114.30	113.90	0.00	114.90	112.30	111.70	113.40		
13	59.20	29.10	110.40	118.70	84.30	45.10	114.90	114.10	0.00	114.40	112.60	111.70	113.40		
14	58.60	29.10	110.50	118.50	84.00	45.00	117.10	114.00	0.00	112.90	112.30	111.70	113.40		
15	58.60	29.10	110.40	118.60	71.30	45.70	114.80	114.10	0.00	112.40	114.00	111.90	113.50		
16	59.00	29.60	110.20	118.60	69.80	44.90	114.30	113.80	0.00	114.50	115.00	111.90	113.60		
17	58.60	29.10	110.20	118.70	69.70	44.80	114.50	113.80	0.00	114.20	115.10	112.00	113.80		
18	58.60	29.10	110.20	118.10	67.90	45.20	114.60	113.40	0.00	114.00	115.30	112.10	113.70		
19	56.40	20.50	110.30	115.50	66.30	54.50	114.90	113.40	0.00	125.80	113.00	115.90	116.20		
20	56.00	21.00	110.10	115.30	64.20	54.50	114.80	113.50	0.00	129.20	112.50	115.60	118.10		
21	83.90	37.10	110.20	118.60	69.00	55.50	115.00	113.10	0.00	129.10	112.10	115.30	118.30		
22	83.30	37.10	109.90	119.30	69.30	54.90	115.00	113.10	0.00	129.10	111.90	115.50	118.20		
23	83.90	37.10	110.50	119.20	74.20	73.60	114.80	113.10	0.00	121.30	111.90	115.20	118.30		
24	69.30	35.10	111.50	119.00	74.20	73.60	114.70	113.70	0.00	117.90	115.10	117.90	112.80		

11 MAY 2003

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

11 MAY 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.			
1	14.60	5.10	107.50	102.00	103.60	101.70	45.40	20.50	104.10	111.50	44.90	28.60	109.50	113.80	
2	14.80	5.20	107.40	101.90	103.50	101.40	54.90	20.50	104.00	110.70	45.70	29.10	109.50	113.70	
3	14.60	5.10	107.30	101.90	103.40	101.20	66.50	20.90	103.90	111.40	47.00	30.70	109.50	113.70	
4	14.60	5.10	107.30	101.80	103.10	101.00	69.80	20.60	103.90	110.60	53.20	36.90	109.40	115.50	
5	14.80	5.20	107.20	101.80	103.00	100.90	70.40	20.50	103.80	110.20	53.80	37.00	109.60	116.10	
6	14.50	5.10	107.40	101.70	102.80	100.90	68.60	20.60	103.70	110.60	71.10	37.70	109.50	116.10	
7	14.80	5.20	107.30	101.60	102.80	100.90	74.90	20.50	103.60	109.60	73.90	5.90	109.50	114.00	
8	14.60	5.10	107.50	101.60	103.00	101.40	69.40	20.50	103.60	110.00	73.80	0.00	109.90	110.60	
9	14.60	5.10	107.50	101.80	103.10	102.10	70.30	20.90	104.10	110.40	74.00	0.00	109.60	110.10	
10	14.80	5.20	107.60	101.90	103.40	102.70	69.10	20.50	104.40	110.10	73.50	0.00	109.40	109.70	
11	14.50	5.10	107.70	102.40	103.50	103.20	64.90	20.50	104.60	110.20	67.20	0.00	109.70	109.80	
12	14.80	5.20	107.90	102.50	103.90	103.70	64.70	20.50	105.50	110.20	65.60	0.00	109.60	109.90	
13	13.70	5.10	108.30	102.90	104.10	104.00	65.40	20.50	104.30	110.40	67.10	0.00	109.00	109.50	
14	12.80	5.20	109.10	102.90	104.30	104.20	70.40	20.90	104.40	110.50	65.40	0.00	108.60	109.30	
15	13.20	5.10	108.50	103.10	105.00	104.40	69.60	20.50	103.50	109.90	70.80	0.00	108.30	108.90	
16	14.50	5.10	107.70	103.60	105.00	104.80	69.60	20.50	103.60	109.70	69.70	0.00	108.30	108.50	
17	14.80	5.20	107.40	103.60	104.40	105.00	69.40	20.40	103.50	109.60	69.50	0.00	107.50	108.10	
18	14.50	5.10	107.70	103.30	104.30	104.40	66.40	20.40	103.30	109.60	66.10	1.30	107.20	107.70	
19	14.50	5.10	107.60	103.10	104.30	103.70	66.30	20.40	103.40	109.40	67.60	39.10	107.60	114.00	
20	14.80	5.20	107.40	102.80	104.20	103.10	67.20	20.80	103.40	109.20	66.70	39.80	107.50	115.80	
21	14.50	5.10	107.20	102.40	103.90	102.60	65.50	20.40	103.70	109.40	65.50	39.10	107.50	116.00	
22	14.50	5.10	107.30	102.20	103.60	102.30	49.70	20.40	104.80	110.70	65.30	39.10	107.20	116.10	
23	14.20	5.10	107.70	102.10	103.60	102.00	35.20	20.40	104.20	111.50	54.00	39.10	107.80	116.40	
24	12.90	5.00	108.50	102.00	103.60	101.90	53.30	20.40	103.70	110.60	53.20	39.70	108.20	116.60	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.			
1	38.20	18.70	112.40	117.40	74.30	73.70	115.00	113.60	120.00	111.70	114.80	117.70	112.70		
2	29.00	14.60	113.40	114.60	76.90	74.80	114.70	113.60	120.90	111.80	114.70	117.80	112.60		
3	28.90	14.60	112.80	113.50	57.80	57.20	114.90	113.90	129.60	111.90	114.40	118.20	112.50		
4	29.30	14.60	113.50	113.20	35.80	35.20	114.80	113.10	129.80	111.90	114.20	118.30	112.50		
5	41.90	20.40	114.30	113.40	26.30	25.00	114.80	112.40	129.80	112.10	114.10	118.60	112.20		
6	55.50	28.30	115.10	116.20	34.40	25.10	114.60	110.80	108.50	112.20	113.90	119.00	112.10		
7	56.30	28.30	114.50	116.90	41.20	31.80	114.60	109.90	10.70	112.30	113.70	117.50	112.00		
8	73.70	37.10	113.90	118.50	54.90	44.80	114.70	110.40	11.50	112.00	113.70	113.40	111.90		
9	74.90	38.00	113.90	119.00	73.30	44.90	114.80	112.70	11.50	111.70	113.70	112.60	112.00		
10	80.10	41.00	113.70	120.10	84.10	45.00	114.90	113.40	11.50	111.70	113.70	112.50	112.20		
11	79.90	40.80	113.80	120.50	85.10	44.90	115.10	113.90	1.00	112.20	113.70	112.60	112.50		
12	79.50	40.40	113.30	120.80	89.00	45.00	115.00	114.20	0.00	113.00	113.90	112.70	112.90		
13	70.00	35.50	112.80	119.20	92.10	45.70	114.90	114.20	0.00	114.10	113.90	112.60	113.50		
14	69.80	35.50	112.60	119.00	89.10	44.80	115.20	114.10	0.00	114.70	113.90	112.50	113.70		
15	72.50	36.20	112.20	119.10	90.30	44.80	115.40	114.20	0.00	114.60	113.90	112.60	113.90		
16	69.70	35.50	111.70	118.80	72.70	44.80	115.20	114.30	0.00	114.50	113.80	112.60	114.00		
17	69.80	35.50	111.20	118.70	67.40	44.80	115.20	113.60	0.00	114.60	113.70	112.60	113.90		
18	54.20	23.00	110.80	117.50	69.00	46.90	115.30	113.30	12.00	114.60	113.80	112.50	113.90		
19	63.40	31.90	110.10	118.10	70.00	59.90	115.20	113.60	134.20	115.30	113.30	117.40	113.70		
20	64.90	32.60	110.00	118.20	69.50	59.90	115.30	114.10	134.50	115.10	112.90	118.80	113.50		
21	63.70	32.00	109.70	117.80	71.10	60.00	115.40	114.00	134.50	114.70	112.90	119.00	113.40		
22	63.50	31.90	109.90	117.80	71.00	59.90	115.20	114.20	134.50	112.90	113.10	118.90	113.10		
23	54.20	27.00	110.30	117.20	70.70	61.00	115.40	114.20	134.50	112.70	113.60	118.90	112.90		
24	52.90	26.00	111.30	116.60	69.50	59.90	115.30	114.20	134.50	112.80	113.30	119.10	112.70		

12 MAY 2003

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

12 MAY 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	LOWER GRANITE	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.		
1	14.50	5.10	107.30	101.90	104.10	101.60	54.60	20.50	103.60	110.20	52.40	39.00	108.60	116.70	
2	14.50	5.00	107.30	101.90	103.50	101.30	55.50	20.90	103.70	110.50	52.40	39.10	109.40	116.50	
3	14.80	5.10	107.40	101.80	103.40	101.20	61.00	20.50	103.50	110.40	52.30	39.00	109.70	116.70	
4	14.50	5.00	107.40	101.80	103.30	101.20	61.40	20.50	103.70	110.50	53.40	39.80	109.60	116.80	
5	14.50	5.00	107.30	101.70	103.20	101.10	65.80	20.60	103.70	110.60	58.10	39.10	109.50	116.80	
6	14.70	5.10	107.50	101.50	103.10	101.10	68.60	19.30	103.60	109.90	58.90	39.10	109.40	116.80	
7	14.50	5.00	107.40	101.50	103.10	101.00	66.80	0.00	103.30	104.80	64.20	2.10	109.80	114.60	
8	14.50	5.00	107.40	101.60	103.00	101.20	67.00	0.00	103.40	103.70	65.60	0.00	110.20	111.70	
9	14.70	5.10	107.50	101.70	103.10	101.60	67.30	0.00	103.40	103.60	66.60	0.00	110.40	110.90	
10	14.50	5.00	107.50	102.00	103.30	102.00	67.00	0.00	103.30	103.30	66.20	0.00	110.30	110.60	
11	14.50	5.00	107.50	102.10	103.30	102.40	66.90	0.00	103.10	102.90	67.20	0.00	109.90	110.20	
12	14.90	5.30	108.30	102.20	103.30	102.80	67.00	0.00	103.10	102.90	68.80	0.00	109.70	110.10	
13	14.60	5.20	108.30	102.30	103.70	103.10	68.40	0.00	103.00	102.80	73.00	0.00	109.80	109.80	
14	14.80	5.20	108.20	102.50	103.70	103.40	67.80	0.00	102.90	102.80	70.80	0.00	109.50	109.60	
15	14.60	5.10	108.30	102.60	103.60	103.60	69.30	0.00	103.10	102.70	70.10	0.00	109.30	109.50	
16	14.80	5.20	108.40	102.80	103.80	103.70	66.90	0.00	103.20	102.70	70.10	0.00	109.10	109.10	
17	14.60	5.10	108.20	102.90	104.10	103.60	66.00	0.00	103.20	102.70	71.70	0.00	108.60	108.70	
18	14.90	5.20	108.20	102.90	104.00	103.60	60.50	0.00	103.40	102.80	71.10	1.40	108.50	108.40	
19	14.60	5.10	108.10	102.60	103.90	103.20	63.90	42.30	103.60	113.60	80.50	38.90	108.50	114.00	
20	14.90	5.20	108.00	102.40	103.70	102.70	61.80	42.30	103.60	118.10	79.10	38.90	108.60	115.40	
21	14.60	5.10	107.90	102.00	103.50	102.20	80.00	42.30	103.60	119.00	79.00	38.90	108.60	115.80	
22	14.60	5.10	108.00	101.80	103.40	101.70	79.10	42.20	103.40	119.40	79.10	39.50	108.30	115.70	
23	14.80	5.20	107.80	101.70	103.20	101.40	56.80	42.40	103.10	119.50	54.00	38.90	108.40	116.20	
24	14.60	5.10	107.70	101.60	103.20	101.30	55.90	43.10	103.10	119.80	51.50	38.80	108.80	116.70	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	MCNARY	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	PASCO	
1	53.90	26.50	112.50	116.50	69.40	59.80	115.20	113.90	134.50	112.50	113.70	119.00	112.70		
2	52.90	26.00	113.00	116.50	62.50	51.40	115.20	114.10	134.50	112.40	113.70	118.90	112.50		
3	46.30	23.00	113.40	117.00	52.30	42.70	115.00	113.30	134.20	112.40	113.50	118.80	112.30		
4	43.60	21.90	113.70	114.80	44.30	34.70	114.80	112.50	133.10	112.20	113.50	119.00	112.00		
5	43.80	22.00	114.20	114.60	44.90	35.10	114.70	111.40	114.40	112.40	113.40	118.40	111.60		
6	58.90	27.00	114.50	116.00	51.60	27.40	114.80	111.20	93.40	112.20	113.40	118.10	111.40		
7	60.70	30.40	115.00	117.10	53.80	27.70	114.40	110.50	0.00	112.30	113.20	116.20	111.20		
8	62.80	31.10	114.70	117.20	63.80	32.40	114.30	110.60	112.40	112.40	113.10	113.80	111.30		
9	64.50	32.00	113.00	117.40	65.50	32.40	114.60	111.70	112.10	112.10	113.20	112.90	111.30		
10	65.40	32.00	113.10	117.40	65.80	33.00	114.60	111.90	112.20	113.10	112.40	111.20			
11	65.50	32.00	114.20	117.50	65.40	32.50	114.50	112.00	112.90	112.20	113.10	112.30	111.20		
12	65.50	32.00	114.40	117.50	67.00	32.50	114.50	111.90	114.40	112.30	113.10	112.40	111.50		
13	66.70	32.60	114.30	117.60	66.60	32.90	115.10	112.50	0.00	114.00	113.40	112.50	111.80		
14	69.20	34.10	113.40	118.00	77.70	39.30	115.20	112.40	115.50	113.70	112.70	112.20			
15	72.10	35.50	112.60	118.40	81.30	40.00	115.00	112.80	0.50	115.10	113.90	112.90	112.50		
16	72.50	35.60	112.10	118.50	79.10	39.30	115.10	113.20	117.30	114.70	116.20	113.00	112.80		
17	75.70	35.60	111.30	118.70	78.70	39.40	115.40	112.80	0.60	114.70	116.40	113.00	113.10		
18	69.30	30.60	111.10	118.90	80.40	40.00	115.50	112.50	188.40	17.20	113.20	116.30	112.90		
19	64.00	22.70	110.70	117.60	80.40	65.30	115.10	113.20	239.90	145.20	113.00	115.60	118.20		
20	68.90	29.30	110.40	117.20	78.50	65.10	115.10	114.50	241.60	150.10	112.80	115.50	119.40		
21	88.30	38.20	110.30	119.40	79.10	66.30	115.00	114.20	259.80	150.00	112.50	114.30	119.20		
22	82.70	37.20	111.00	119.30	78.10	64.80	115.10	114.10	223.20	150.00	112.30	113.90	119.60		
23	53.50	26.50	111.60	117.50	65.30	49.30	115.10	114.10	205.30	150.10	112.10	113.20	119.50		
24	31.00	16.40	111.90	116.50	50.00	33.00	114.90	112.60	203.50	150.00	112.00	112.70	119.50		

13 MAY 2003

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

13 MAY 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	LOWER GRANITE	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.		
1	14.80	5.20	107.50	101.50	103.10	101.20	57.50	42.50	103.00	119.90	52.90	38.80	109.20	116.70	
2	14.60	5.10	107.70	101.50	102.90	101.00	58.20	42.60	103.00	119.90	52.40	39.60	109.70	116.80	
3	14.80	5.20	107.50	101.30	102.90	100.80	75.70	42.60	103.00	119.90	52.40	38.90	109.90	116.90	
4	14.60	5.10	107.60	101.30	102.70	100.70	73.60	42.60	103.10	120.10	73.60	38.80	110.70	116.40	
5	14.80	5.20	107.60	101.30	102.70	100.70	83.90	43.30	102.90	119.90	81.30	38.90	111.00	116.10	
6	14.50	5.10	107.80	101.30	102.70	100.60	81.40	41.20	102.90	119.70	93.40	38.80	110.70	115.80	
7	14.80	5.20	107.70	101.20	102.60	100.70	80.30	0.30	103.00	105.50	90.10	0.70	109.90	112.00	
8	14.80	5.20	107.70	101.40	102.80	101.30	90.70	0.00	103.10	103.80	89.80	0.00	109.90	110.90	
9	14.60	5.20	108.10	101.80	103.20	102.00	71.30	0.00	103.30	103.80	84.90	0.00	109.90	110.80	
10	14.90	5.30	108.50	102.30	103.70	102.80	69.40	0.00	103.80	103.40	86.00	0.00	110.40	110.60	
11	14.60	5.20	108.40	102.90	104.20	103.70	71.50	0.00	104.30	103.40	75.80	0.00	110.30	110.80	
12	14.90	5.30	108.60	103.40	104.40	104.60	69.60	0.00	105.30	103.70	67.70	0.00	110.30	110.70	
13	14.60	5.20	108.70	103.90	104.90	105.30	69.70	0.00	105.30	103.70	69.20	0.00	110.50	110.70	
14	14.90	5.30	108.70	104.30	105.30	105.90	70.00	0.00	105.40	103.90	64.70	0.00	110.60	110.80	
15	14.90	5.20	109.00	104.30	105.60	106.40	70.70	0.00	106.70	103.80	65.60	0.00	110.50	110.90	
16	14.60	5.20	108.90	104.50	105.80	106.50	77.90	0.00	105.10	103.90	64.50	0.00	110.80	111.00	
17	14.60	5.10	108.80	104.60	105.90	106.50	81.50	0.00	104.60	103.90	66.10	0.00	111.90	110.90	
18	14.90	5.20	108.90	104.50	105.80	106.30	75.80	0.00	104.80	103.80	63.50	0.00	111.60	110.80	
19	14.60	5.10	108.80	104.20	105.50	105.60	71.80	39.90	104.60	115.40	65.10	36.80	112.70	114.10	
20	14.90	5.20	108.50	103.80	105.30	104.90	71.80	40.40	104.70	117.60	70.60	35.70	113.00	115.50	
21	14.60	5.10	108.50	103.40	105.00	104.20	74.50	40.40	104.30	118.00	75.60	35.10	112.60	115.50	
22	14.80	5.20	108.60	103.20	104.80	103.60	74.90	40.50	103.80	118.20	73.50	35.10	112.80	115.40	
23	14.60	5.10	108.50	102.90	104.80	103.20	57.50	41.20	104.50	118.70	56.30	35.10	112.90	115.90	
24	14.90	5.20	108.60	102.90	104.70	102.90	58.00	40.60	105.10	118.80	56.40	35.70	112.40	115.90	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	MCNARY	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	PASCO	
1	29.80	14.80	112.00	113.50	28.10	114.70	112.00	203.30	150.10	111.80	112.20	119.40	0	111.80	
2	51.20	25.00	112.30	115.30	55.80	27.50	114.50	110.50	203.60	150.00	111.80	112.20	119.40	0	111.70
3	56.60	27.40	112.80	116.40	55.30	28.00	114.50	110.80	203.40	149.60	111.80	112.20	119.40	0	111.40
4	68.90	33.50	113.00	117.10	62.60	30.10	114.20	110.50	203.10	149.40	111.70	111.80	119.40	0	111.30
5	80.90	36.60	112.90	117.30	70.20	34.80	114.10	111.70	203.20	149.20	111.50	111.80	119.30	0	111.20
6	98.40	41.00	112.90	118.60	82.30	39.70	114.10	111.90	223.60	149.20	111.60	111.70	119.10	0	110.90
7	97.20	40.30	113.30	118.80	109.10	52.80	114.00	112.80	179.90	10.90	111.60	111.60	116.90	0	110.80
8	97.00	40.30	112.70	119.10	112.00	53.90	114.20	114.40	172.90	0.00	111.50	111.60	112.30	0	110.70
9	88.40	40.30	112.60	119.00	98.90	48.70	114.80	114.60	172.80	0.00	111.60	111.70	111.40	0	110.60
10	85.50	40.30	112.90	119.20	94.70	47.70	115.10	114.70	172.40	0.00	112.80	111.90	111.20	0	110.80
11	86.80	41.00	112.70	119.60	94.30	47.70	115.60	114.60	172.70	0.00	113.10	111.90	111.20	0	111.10
12	76.20	37.90	112.20	119.80	76.70	38.80	116.00	114.80	171.10	0.00	114.90	111.90	111.50	0	111.30
13	59.00	29.20	111.70	119.00	69.50	34.30	118.20	113.50	166.10	0.00	115.90	113.20	111.70	0	111.70
14	57.10	28.70	111.50	118.90	72.00	34.90	117.90	112.70	162.10	0.00	114.60	113.40	111.80	0	112.30
15	57.30	28.70	111.30	119.00	64.50	32.10	120.20	112.80	165.30	0.00	113.60	113.40	111.90	0	113.00
16	58.10	29.20	111.10	119.30	60.90	29.80	118.50	112.30	172.10	0.00	113.00	113.90	112.00	0	113.80
17	57.50	28.70	111.00	119.40	59.80	29.30	120.70	111.70	176.40	4.40	115.40	114.50	112.20	0	114.40
18	59.80	23.50	110.80	118.00	59.90	29.20	117.40	111.60	256.40	82.00	115.90	116.70	114.40	0	114.90
19	65.60	31.90	111.10	118.90	63.70	29.80	117.70	111.50	329.40	152.80	118.00	117.70	120.40	0	115.40
20	67.10	32.30	110.90	118.50	70.10	34.50	116.50	111.60	330.70	154.00	115.50	116.60	121.10	0	115.60
21	73.50	34.20	111.60	119.20	75.60	35.10	117.20	112.30	330.50	153.90	113.50	115.90	121.10	0	115.70
22	75.70	35.00	112.40	119.30	75.60	34.50	117.30	112.20	329.50	153.90	112.60	115.10	121.40	0	115.70
23	60.20	31.10	113.30	118.10	63.40	32.30	117.10	112.30	295.00	154.00	112.10	114.90	121.00	0	115.70
24	60.50	29.70	113.60	117.80	68.30	34.30	117.00	112.10	236.10	154.20	112.00	115.20	121.00	0	115.70

14 MAY 2003

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

14 MAY 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	LOWER GRANITE	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.		
1	14.60	5.10	108.40	102.70	104.40	102.50	59.10	40.70	104.90	118.90	55.60	35.10	112.00	116.00	
2	14.80	5.20	108.40	102.60	104.30	102.30	72.00	40.80	104.50	118.80	55.70	35.10	111.80	116.00	
3	14.60	5.10	108.40	102.50	104.00	102.10	76.00	41.50	104.40	118.60	65.30	35.10	111.80	115.90	
4	14.80	5.20	108.50	102.40	103.90	101.80	79.90	40.80	104.10	118.70	78.50	35.80	111.80	115.50	
5	14.60	5.10	108.50	102.30	103.60	101.70	85.70	40.70	104.00	118.40	77.20	35.10	111.60	115.60	
6	14.80	5.20	108.60	102.20	103.40	101.60	87.10	39.00	103.80	117.70	78.60	35.10	111.50	115.60	
7	14.60	5.10	108.60	102.10	103.30	101.70	82.40	20.50	103.80	111.10	80.30	0.60	111.40	114.80	
8	14.60	5.10	108.80	102.10	103.30	102.00	83.40	20.50	103.90	109.90	84.50	0.00	111.40	111.40	
9	14.80	5.20	108.70	102.50	103.60	102.60	87.10	20.90	103.80	109.60	86.10	0.00	111.80	112.50	
10	14.60	5.10	108.90	102.90	103.90	103.40	81.70	20.50	104.30	109.50	85.00	0.00	111.70	111.60	
11	14.90	5.30	109.00	103.60	104.30	104.30	81.10	20.40	104.30	109.90	82.10	0.00	111.30	112.70	
12	14.90	5.30	109.10	103.90	104.60	104.90	79.40	20.50	104.50	109.90	80.40	0.00	110.60	111.10	
13	14.60	5.20	109.20	104.30	104.90	105.20	80.00	20.50	104.60	109.90	83.60	0.00	110.70	110.90	
14	14.90	5.30	109.30	104.70	105.30	105.70	79.30	20.40	104.10	110.10	78.60	0.00	110.60	110.60	
15	14.60	5.20	109.10	104.60	105.60	106.10	77.00	20.40	103.90	110.00	76.90	0.00	110.50	110.50	
16	14.90	5.20	109.10	104.80	105.70	106.50	77.70	20.80	103.60	109.70	75.40	0.00	110.40	110.30	
17	14.60	5.10	108.80	104.40	105.50	106.20	76.90	20.40	103.50	109.90	78.10	0.00	110.30	110.10	
18	14.90	5.20	108.80	104.00	105.30	105.80	75.30	20.40	103.50	109.80	74.30	0.60	110.20	110.00	
19	14.60	5.10	108.70	103.60	105.20	105.40	76.80	20.40	103.50	110.00	76.60	36.90	110.30	113.90	
20	14.90	5.20	108.50	103.30	104.70	104.60	74.90	20.40	103.30	109.70	74.80	36.90	110.20	115.30	
21	14.60	5.10	108.40	102.90	104.40	103.70	84.60	20.40	103.30	109.50	75.90	36.90	110.00	115.40	
22	14.80	5.20	108.30	102.70	104.30	103.10	84.80	20.40	103.10	109.50	77.30	37.60	109.90	115.50	
23	14.80	5.20	108.40	102.50	104.10	102.60	74.10	20.80	103.20	109.40	75.60	37.00	109.60	115.60	
24	14.60	5.10	108.40	102.20	103.90	102.20	60.60	20.40	103.10	109.60	64.20	37.00	109.40	115.70	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB	WA TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT.		
	KCFS	KCFS		KCFS	KCFS		KCFS	KCFS	FB		KCFS	KCFS	SAT		
1	55.10	28.30	114.10	117.60	34.40	116.60	112.00	217.70	154.20	111.90	114.80	121.10	115.60		
2	45.40	18.90	114.90	115.60	30.20	116.90	112.00	235.40	154.20	111.80	114.40	121.00	115.70		
3	46.60	19.20	114.80	114.80	29.30	116.70	111.10	254.00	154.20	111.80	114.30	120.60	115.60		
4	45.90	18.90	114.90	114.70	29.30	116.30	111.20	257.70	154.20	111.70	113.60	120.30	115.60		
5	76.80	36.60	114.90	119.00	30.60	115.90	111.00	305.50	153.90	111.70	113.10	120.70	115.50		
6	80.20	39.20	115.00	119.70	44.50	115.50	111.40	263.10	140.90	111.90	112.90	120.70	115.20		
7	81.90	39.20	114.50	119.60	44.70	115.30	113.40	170.60	0.10	111.80	112.60	117.80	115.20		
8	86.70	39.90	113.70	120.00	45.50	115.70	113.60	173.10	0.00	112.00	112.60	112.80	115.10		
9	89.70	39.80	114.30	120.30	44.80	115.70	113.70	172.70	0.00	112.50	112.40	111.70	115.00		
10	84.90	36.50	113.90	119.40	44.90	115.70	113.90	224.70	50.70	112.70	112.60	111.80	115.10		
11	83.50	35.40	113.10	119.20	44.80	115.70	114.00	249.20	74.30	112.00	112.30	115.40	115.20		
12	83.50	35.40	113.20	119.60	44.80	115.70	114.60	248.30	74.30	111.90	112.30	115.80	115.60		
13	85.00	36.00	112.70	119.60	45.60	115.70	114.80	241.60	74.30	111.90	112.20	115.90	115.70		
14	82.40	33.70	112.60	119.90	44.80	115.70	114.20	237.90	74.30	112.00	112.10	115.70	115.80		
15	84.40	33.60	112.70	119.90	44.80	115.60	114.10	245.10	74.30	112.10	112.10	115.50	115.30		
16	84.10	33.50	112.90	120.00	44.70	115.50	114.50	247.00	74.30	112.00	112.00	115.40	115.10		
17	84.10	33.50	113.60	120.00	44.80	115.70	114.30	247.10	74.30	111.90	112.00	115.60	115.00		
18	77.20	25.50	113.80	118.00	45.60	115.70	114.00	255.20	82.30	111.60	112.00	115.60	115.00		
19	80.70	33.80	114.70	119.90	72.80	115.90	114.00	326.30	149.80	111.40	111.90	120.00	115.00		
20	73.90	32.90	115.10	119.10	70.00	115.70	115.00	326.60	149.70	111.20	111.80	121.00	114.60		
21	73.70	32.80	115.30	118.70	69.70	115.30	114.40	326.90	149.90	111.10	111.80	120.80	114.30		
22	73.80	32.90	115.50	118.50	69.70	115.30	114.50	326.30	149.70	111.00	111.70	120.80	114.00		
23	65.00	31.50	115.60	118.20	71.10	115.40	114.50	308.40	150.20	110.70	111.60	120.50	113.80		
24	64.00	31.60	115.50	118.00	70.30	115.30	114.20	294.70	149.70	110.50	111.50	120.50	113.80		

15 MAY 2003

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

15 MAY 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	LOWER GRANITE	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.		
1	14.80	5.20	108.10	102.00	103.90	101.80	59.00	20.50	103.20	110.00	64.00	36.90	109.40	116.00	
2	14.60	5.10	108.20	102.10	103.70	101.60	58.70	20.50	103.10	110.00	66.90	37.60	109.30	116.10	
3	14.80	5.20	108.20	101.90	103.40	101.40	59.20	20.50	102.90	110.20	64.20	36.90	109.10	116.00	
4	14.60	5.10	108.30	101.70	103.20	101.30	78.20	20.50	102.80	109.50	64.50	36.90	108.80	116.00	
5	14.80	5.20	108.30	101.70	103.00	101.10	79.40	20.50	102.80	109.50	74.30	36.90	108.50	116.00	
6	14.60	5.10	108.30	101.70	102.80	101.10	85.60	20.90	102.90	109.70	79.70	37.00	108.20	115.50	
7	14.90	5.20	108.30	101.80	102.90	101.20	84.50	20.50	102.70	109.50	77.30	0.00	108.20	112.00	
8	14.60	5.10	108.50	101.80	102.90	101.50	85.20	20.50	102.70	109.60	83.90	0.00	107.90	109.10	
9	14.90	5.20	108.30	102.10	103.00	101.90	85.00	20.50	102.70	109.20	82.40	0.00	107.80	108.30	
10	14.60	5.10	108.50	102.30	103.10	102.10	79.60	20.40	102.70	109.20	84.60	0.00	107.60	108.00	
11	14.80	5.20	108.50	102.40	103.20	102.30	76.80	20.80	102.80	109.40	79.20	0.00	107.50	107.60	
12	14.60	5.10	108.40	102.40	103.10	102.20	75.00	20.40	102.80	109.50	75.80	0.00	107.60	107.50	
13	14.90	5.30	108.40	102.60	103.10	102.70	71.10	20.50	102.80	109.40	70.80	0.00	107.70	107.50	
14	14.70	5.20	108.60	102.70	103.00	103.10	69.90	20.50	102.70	109.70	70.20	0.00	107.90	107.50	
15	14.90	5.30	108.40	102.80	103.00	103.20	69.70	20.50	102.80	109.70	67.30	0.00	108.30	107.80	
16	14.70	5.20	108.40	102.70	103.20	103.20	69.70	20.50	102.90	109.80	64.30	0.00	108.70	108.00	
17	14.90	5.30	108.00	102.40	102.50	103.00	72.30	20.90	103.00	110.00	64.30	0.00	109.00	108.20	
18	14.70	5.20	108.20	102.40	103.10	102.30	85.30	20.50	103.00	110.00	73.30	0.00	109.20	108.30	
19	14.90	5.30	107.10	102.30	103.10	102.20	105.10	20.50	103.20	108.90	89.40	30.80	109.20	112.20	
20	14.70	5.20	107.90	101.90	102.90	101.70	106.30	20.40	103.50	108.70	108.80	37.50	109.40	114.40	
21	14.70	5.20	107.90	101.60	102.80	101.20	106.00	20.40	103.50	108.50	117.60	36.90	109.30	114.80	
22	14.90	5.30	107.60	101.50	102.50	100.90	84.40	20.40	103.50	108.90	119.20	36.80	109.30	114.70	
23	14.60	5.20	107.60	101.40	102.40	100.60	77.10	20.40	103.40	109.00	98.00	36.80	108.90	114.70	
24	14.90	5.30	107.60	101.40	102.40	100.50	76.50	20.80	103.40	109.10	76.50	37.40	108.60	115.10	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	MCNARY	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	PASCO	
1	63.20	32.00	115.00	117.90	70.40	69.80	115.10	114.10	294.60	149.60	110.40	111.50	120.30	: 113.60	
2	57.00	28.30	115.60	117.60	70.40	69.80	115.10	113.90	273.90	149.60	110.70	111.40	120.30	: 113.50	
3	57.10	28.30	115.70	117.50	70.30	69.80	115.20	113.90	273.90	149.70	110.60	111.20	120.00	: 113.60	
4	57.00	28.30	115.50	117.20	71.50	71.00	115.40	113.90	272.10	149.10	110.40	111.10	119.80	: 113.40	
5	57.60	28.50	115.00	117.30	68.30	65.70	115.20	113.90	238.80	149.00	110.70	111.10	120.00	: 113.60	
6	77.80	35.30	114.60	117.80	79.70	44.80	115.40	113.50	223.70	132.90	110.80	110.90	119.80	: 113.60	
7	77.60	35.20	114.10	117.80	79.30	44.90	115.70	113.70	163.60	0.20	110.50	110.90	118.20	: 113.40	
8	78.90	35.20	113.70	117.80	79.30	44.90	115.70	113.60	163.10	0.00	110.70	110.80	112.00	: 113.30	
9	78.90	35.20	113.40	118.20	79.40	44.80	115.40	113.60	165.70	0.00	110.60	111.00	110.90	: 113.40	
10	84.70	35.20	113.00	118.90	81.00	45.70	115.50	113.60	174.20	0.00	109.90	111.00	110.40	: 113.30	
11	83.30	35.20	112.60	118.80	85.00	44.90	115.30	113.60	173.90	0.00	109.90	110.80	110.40	: 113.00	
12	80.90	35.90	112.70	118.80	85.30	44.90	115.20	114.00	173.40	0.00	110.50	111.00	110.40	: 113.00	
13	68.90	34.70	112.70	118.40	85.00	44.90	115.20	113.80	172.00	0.00	110.90	111.00	110.30	: 112.80	
14	67.10	33.40	112.70	118.40	76.40	44.90	115.00	114.20	172.50	0.00	111.30	111.00	110.40	: 112.80	
15	66.90	33.40	112.80	118.40	73.50	45.70	114.90	114.00	172.10	0.00	110.90	111.00	110.40	: 112.90	
16	66.90	33.40	113.10	118.60	69.10	44.90	114.70	113.80	171.50	0.00	111.20	111.10	110.40	: 113.00	
17	68.60	33.40	113.30	118.70	69.10	44.90	114.60	113.00	171.40	0.00	111.70	111.00	110.30	: 112.80	
18	69.10	34.00	113.30	118.30	69.40	45.80	114.60	112.70	181.90	12.90	111.60	111.00	110.20	: 112.50	
19	68.10	24.30	113.10	118.50	71.30	59.90	114.40	112.70	244.30	144.80	111.40	110.90	117.60	: 112.00	
20	86.80	23.00	112.90	116.60	89.20	78.50	114.20	113.80	295.50	144.80	110.70	110.60	119.10	: 111.50	
21	112.50	32.50	112.90	118.50	112.70	101.20	114.00	115.50	321.50	144.50	110.40	110.60	119.80	: 111.10	
22	131.30	35.10	112.80	119.60	119.40	99.60	113.60	117.50	320.00	144.30	110.50	110.30	119.50	: 110.80	
23	111.20	35.00	112.50	119.00	119.80	99.70	113.60	117.90	310.10	144.30	110.20	109.90	119.80	: 110.80	
24	88.20	35.70	112.40	118.10	118.80	99.70	113.50	117.80	310.80	144.30	110.00	109.70	119.60	: 110.60	

16 MAY 2003

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

16 MAY 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.			
1	14.60	5.20	107.40	101.30	102.30	100.30	75.00	20.40	103.20	109.50	73.90	36.70	108.10	115.20	
2	14.90	5.30	107.60	101.30	102.10	100.20	75.00	20.40	103.00	109.60	74.40	36.70	107.60	115.10	
3	14.60	5.20	107.40	101.20	102.00	100.20	74.90	20.50	102.80	109.40	74.80	36.70	107.00	115.20	
4	14.90	5.30	107.60	101.20	101.90	100.10	76.60	20.50	102.80	109.90	76.20	36.70	106.80	115.30	
5	14.60	5.20	107.40	101.30	101.90	100.10	76.20	20.90	102.80	109.90	76.20	37.40	106.30	115.00	
6	14.90	5.30	107.60	101.20	101.80	100.10	79.00	19.80	102.60	109.50	74.50	35.40	106.20	114.90	
7	14.60	5.20	107.40	101.30	101.80	100.20	78.40	0.00	102.40	104.30	73.40	0.00	105.80	108.50	
8	14.90	5.20	107.30	101.40	101.90	100.30	79.90	0.00	102.30	103.40	75.30	0.00	105.70	106.60	
9	14.90	5.20	107.60	101.70	102.30	100.80	91.50	0.00	102.30	102.70	86.60	0.00	105.70	106.30	
10	14.90	5.20	107.70	102.10	102.40	101.50	91.70	0.00	102.20	102.40	85.90	0.00	105.70	106.10	
11	14.90	5.20	107.80	102.30	102.70	102.00	91.40	0.00	102.20	102.40	90.70	0.00	106.20	106.10	
12	14.90	5.20	107.80	102.80	102.80	102.60	93.30	0.00	102.20	102.30	90.00	0.00	106.30	106.30	
13	14.90	5.20	108.20	103.30	103.30	103.10	90.30	0.00	102.30	102.20	87.70	0.00	106.80	106.50	
14	14.60	5.10	108.20	103.20	103.80	103.70	86.40	0.00	102.20	102.20	89.40	0.00	107.30	107.10	
15	14.80	5.20	108.10	103.30	104.10	104.00	83.00	0.00	102.30	102.20	82.30	0.00	107.50	107.20	
16	14.00	4.50	108.10	103.20	104.20	104.10	82.60	0.00	102.30	102.30	82.60	0.00	107.60	107.30	
17	12.10	2.50	101.60	103.20	104.00	103.80	84.10	0.00	102.50	102.40	81.50	0.00	107.50	107.10	
18	9.50	0.00	98.60	103.40	102.70	103.50	82.80	1.00	102.70	102.40	81.90	0.50	107.50	107.00	
19	9.60	0.00	98.10	103.40	102.00	103.20	90.90	40.60	102.90	114.90	88.30	34.90	107.40	112.10	
20	9.40	0.00	97.70	103.30	101.80	102.90	101.90	40.60	103.00	116.10	103.10	34.80	107.50	113.80	
21	9.60	0.00	97.40	103.00	101.60	102.50	112.80	40.60	102.90	116.40	105.90	34.80	107.30	114.00	
22	9.40	0.00	97.60	102.90	101.60	102.10	109.20	40.50	102.70	116.30	108.80	35.50	107.00	114.00	
23	9.60	0.00	97.60	-	999.00	101.60	101.80	97.80	41.20	102.60	116.90	103.10	34.90	106.80	113.80
24	9.40	0.00	97.70	-	102.80	101.40	101.40	83.40	40.50	102.30	117.60	91.40	34.80	106.40	113.90

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.			
1	75.30	33.90	112.20	117.30	101.70	99.60	113.20	117.30	144.10	109.70	109.30	119.90	110.60		
2	75.70	33.20	111.80	117.30	83.20	82.60	113.10	116.40	143.70	109.60	109.00	119.80	110.60		
3	74.60	33.20	111.40	117.20	80.30	79.70	112.80	114.50	143.20	109.40	108.80	119.80	110.50		
4	71.70	35.10	111.10	117.00	81.80	79.70	112.80	114.20	143.20	109.20	108.70	119.80	110.60		
5	72.30	35.00	110.40	116.90	76.50	74.50	112.60	114.40	143.20	108.80	108.50	119.60	110.40		
6	71.90	35.70	110.00	116.80	72.30	38.00	112.10	113.70	137.80	108.60	108.10	119.70	110.00		
7	70.70	35.00	109.80	117.00	75.70	38.70	111.80	112.00	140.00	108.50	108.10	116.70	109.50		
8	70.60	35.10	109.50	117.00	74.40	38.00	111.80	112.00	140.00	108.70	107.90	109.90	109.30		
9	72.10	35.00	109.20	117.10	75.90	38.00	111.90	112.20	140.00	108.50	108.00	108.40	109.20		
10	71.20	35.10	109.10	117.40	74.80	38.00	111.70	112.30	140.00	108.60	108.20	108.00	109.50		
11	91.20	35.00	109.10	118.20	82.70	38.00	111.50	112.60	140.00	108.60	108.20	107.90	109.80		
12	94.10	35.70	109.60	118.50	86.30	39.60	111.60	112.70	140.00	108.70	108.10	107.80	110.10		
13	92.30	35.10	109.90	118.50	101.70	50.80	111.80	113.80	140.00	108.90	108.00	107.90	110.60		
14	89.50	35.00	110.10	118.60	101.90	49.90	111.70	114.40	140.00	109.20	108.30	108.10	111.00		
15	93.60	35.10	110.40	118.70	99.50	49.20	111.70	114.60	140.00	109.60	108.30	108.30	111.50		
16	82.20	35.00	110.70	118.50	90.70	44.90	111.70	114.30	140.00	109.70	108.30	108.30	111.70		
17	81.60	35.70	111.10	118.50	90.30	44.90	111.50	114.00	140.00	109.50	108.50	108.40	112.10		
18	78.80	32.20	111.40	118.70	92.00	45.70	111.70	113.90	140.00	109.80	108.70	108.40	112.10		
19	81.40	26.40	111.60	118.10	93.60	44.90	111.60	113.70	140.00	109.60	108.80	117.80	112.00		
20	99.90	35.00	111.50	118.80	98.80	49.70	111.60	113.90	140.00	109.50	108.90	119.60	111.70		
21	100.60	32.00	111.40	118.10	98.80	49.80	111.40	114.00	140.00	109.20	108.80	119.80	111.60		
22	107.90	34.30	111.20	118.60	100.20	49.80	111.30	114.00	140.00	109.00	109.00	119.70	111.60		
23	103.60	35.00	110.50	118.40	100.50	50.80	111.30	114.20	140.00	109.20	108.90	119.70	111.70		
24	95.50	34.40	109.30	118.00	100.10	49.90	111.30	114.10	140.00	108.70	108.40	119.70	111.70		

17 MAY 2003

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

17 MAY 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	LOWER GRANITE	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.		
1	9.60	0.00	97.70	102.60	101.30	100.70	79.40	40.50	102.00	117.80	78.20	34.80	106.20	114.40	
2	9.40	0.00	97.60	102.60	101.00	100.10	79.30	40.60	102.00	117.90	77.10	34.80	106.10	114.50	
3	9.60	0.00	97.60	102.40	100.90	99.70	81.10	40.60	101.80	117.80	79.80	35.40	105.90	114.40	
4	9.40	0.00	97.60	102.40	100.60	99.50	85.70	40.70	101.70	117.70	78.40	34.70	105.70	114.60	
5	9.60	0.00	97.60	102.40	100.50	99.50	103.20	41.40	101.60	117.10	79.90	34.80	105.60	114.40	
6	9.50	0.00	97.60	102.40	100.40	99.50	103.70	40.60	101.30	117.00	86.90	34.20	105.60	114.00	
7	9.60	0.00	97.70	102.50	100.20	99.50	91.20	0.70	101.30	104.90	95.30	0.00	105.40	106.90	
8	9.50	0.00	98.00	102.50	100.20	99.60	91.70	0.00	101.40	102.70	94.50	0.00	105.40	106.00	
9	9.60	0.00	98.10	102.80	100.20	100.10	88.70	0.00	101.20	102.00	96.20	0.00	105.40	105.60	
10	9.40	0.00	98.50	102.90	100.40	100.40	83.00	0.00	101.20	101.80	96.10	0.00	105.40	105.40	
11	9.60	0.00	98.50	103.10	100.70	100.50	85.60	0.00	101.20	101.70	90.50	0.00	105.30	105.30	
12	9.40	0.00	98.40	103.40	100.80	100.80	77.00	0.00	101.10	101.50	81.90	0.00	105.30	105.20	
13	9.40	0.00	98.20	103.60	100.70	101.10	75.60	0.00	101.10	101.60	78.30	0.00	105.30	105.30	
14	9.60	0.00	98.50	103.70	101.00	101.60	78.80	0.00	101.20	101.40	79.80	0.00	105.40	105.20	
15	9.40	0.00	98.50	103.90	101.20	102.00	82.10	0.00	101.00	101.30	78.20	0.00	105.20	105.20	
16	9.60	0.00	98.60	103.90	101.70	102.40	87.90	0.00	101.00	101.30	79.50	0.00	105.10	104.80	
17	9.40	0.00	98.20	103.90	101.50	101.70	91.60	0.00	100.90	101.10	78.90	0.00	105.00	104.70	
18	9.60	0.00	98.00	103.70	101.30	101.30	90.90	2.20	101.00	100.90	77.00	0.00	105.10	104.80	
19	9.40	0.00	97.60	103.50	100.90	101.10	103.80	40.60	100.90	114.40	105.60	38.60	105.00	111.30	
20	9.60	0.00	97.60	103.10	100.80	100.70	108.30	40.50	100.90	115.50	111.70	39.50	105.10	113.60	
21	9.30	0.00	97.40	103.00	100.70	100.10	111.10	40.40	100.90	116.00	115.00	38.90	105.10	113.90	
22	9.50	0.00	97.30	102.80	100.60	99.90	110.20	40.30	101.00	116.00	118.70	38.80	105.00	114.20	
23	9.40	0.00	97.30	102.80	100.60	99.80	83.40	41.10	100.80	117.40	97.80	38.90	105.00	114.50	
24	9.60	0.00	97.30	102.70	100.60	99.80	80.00	40.40	100.60	117.70	84.10	39.50	104.80	114.90	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	MCNARY	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	PASCO	
1	81.90	34.40	108.80	117.50	98.50	49.90	111.20	114.00	144.90	108.60	108.20	119.40	111.60		
2	76.80	34.40	108.00	117.20	98.30	49.90	111.20	114.20	144.60	108.30	108.00	119.40	111.40		
3	76.20	34.40	108.10	117.10	92.00	47.80	111.30	114.00	144.50	108.10	107.70	119.80	111.00		
4	75.90	34.40	108.10	116.90	86.50	43.60	111.30	113.30	144.10	108.00	107.30	120.10	110.90		
5	77.30	35.00	107.30	116.80	84.90	42.80	111.00	113.10	143.60	107.80	107.00	120.00	110.90		
6	79.30	34.30	107.00	117.00	85.10	42.80	110.80	112.90	130.10	107.60	106.80	119.80	110.70		
7	89.80	34.40	107.20	117.20	84.90	42.50	110.80	113.00	0.10	107.50	106.80	115.70	110.60		
8	88.80	34.40	107.50	117.40	84.20	42.00	110.90	113.00	0.00	107.50	106.70	108.70	110.60		
9	90.30	34.40	108.10	117.50	83.60	41.60	110.90	113.10	0.00	107.50	106.70	107.10	110.60		
10	88.70	34.40	108.60	117.80	85.10	42.30	111.00	113.30	0.00	107.50	106.80	106.70	110.80		
11	90.50	35.00	109.60	118.00	83.60	41.70	110.90	113.30	0.00	107.60	106.70	106.70	111.00		
12	89.00	34.40	109.80	118.10	85.20	41.70	111.10	113.50	0.00	107.60	106.70	106.70	111.50		
13	80.80	34.40	110.30	118.20	91.00	44.40	111.10	113.70	0.00	107.70	106.50	106.60	111.90		
14	80.30	34.40	110.60	118.30	91.50	44.70	111.30	113.80	0.00	107.90	106.70	106.50	112.20		
15	82.30	34.40	110.40	118.20	93.50	45.60	111.20	113.50	0.00	107.80	106.80	106.60	111.90		
16	81.00	34.40	110.70	118.10	90.30	44.80	111.30	113.50	0.00	107.60	106.90	106.60	111.70		
17	84.10	37.20	111.20	118.80	90.10	44.80	111.50	113.60	0.00	107.80	106.90	106.80	111.60		
18	85.80	37.20	111.80	119.10	93.60	44.80	111.50	113.50	3.10	107.90	106.90	106.80	111.30		
19	91.60	25.10	111.70	118.40	109.00	54.40	111.60	113.60	309.40	133.70	107.70	107.20	116.80	111.10	
20	98.80	30.60	111.40	118.20	111.50	55.30	111.70	114.20	321.70	145.10	107.60	107.30	119.90	111.10	
21	106.40	33.50	111.30	118.70	109.50	54.40	111.80	114.20	321.40	145.00	107.40	107.40	120.10	110.90	
22	117.40	38.40	110.30	119.50	110.90	54.40	111.80	114.20	320.70	144.90	107.40	107.10	120.30	110.60	
23	114.80	37.80	109.70	119.50	109.40	54.40	112.00	114.30	318.10	144.90	107.40	106.80	120.10	110.50	
24	102.00	37.80	109.10	119.20	110.50	54.40	111.90	114.10	277.60	145.20	107.70	106.60	119.80	110.10	

18 MAY 2003

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

18 MAY 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	LOWER GRANITE	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.		
1	9.60	0.00	97.40	102.70	100.50	99.50	76.60	40.40	100.70	117.80	75.30	38.70	104.80	115.50	
2	9.60	0.00	97.60	102.60	100.30	99.30	76.50	40.60	100.30	118.10	72.20	38.80	104.60	115.70	
3	9.60	0.00	97.40	102.60	100.30	99.20	78.60	40.50	100.30	118.20	68.80	38.80	104.60	115.70	
4	9.60	0.00	97.20	102.50	100.10	99.10	79.30	40.70	100.30	118.10	72.00	39.40	104.50	115.80	
5	9.50	0.00	97.00	102.40	99.90	99.10	89.50	41.40	100.30	117.50	71.10	38.80	104.50	115.70	
6	4.30	0.00	98.00	102.40	99.90	99.10	90.40	40.70	100.20	117.60	71.10	37.40	104.30	115.60	
7	1.50	0.00	98.10	102.30	100.20	99.10	94.20	20.90	100.10	110.10	78.50	0.00	104.20	107.50	
8	1.50	0.00	99.10	102.20	100.30	99.30	94.90	20.50	100.10	109.00	93.20	0.00	104.20	105.30	
9	1.50	0.00	102.40	102.10	100.50	99.30	94.60	20.50	100.00	108.50	97.10	0.00	104.10	104.80	
10	1.50	0.00	104.30	102.20	100.60	99.40	94.70	20.40	100.10	108.50	98.20	0.00	104.10	104.60	
11	1.50	0.00	105.40	102.30	101.00	99.70	93.90	20.80	100.20	108.20	97.80	0.00	104.10	104.40	
12	1.50	0.00	105.90	102.60	101.40	100.00	93.60	20.50	100.40	108.40	97.60	0.00	104.20	104.30	
13	1.50	0.00	106.00	102.80	101.70	100.50	86.20	20.40	100.50	108.30	100.60	0.00	104.10	104.00	
14	1.50	0.00	106.00	103.00	101.70	101.10	81.20	20.40	100.50	108.70	87.30	0.00	103.90	103.60	
15	1.50	0.00	106.00	103.20	101.90	101.90	72.50	20.40	100.50	108.90	73.10	0.00	103.70	103.90	
16	3.90	0.00	105.20	103.30	101.70	102.10	73.50	20.40	100.70	109.00	70.60	0.00	103.60	103.80	
17	9.30	0.00	99.90	103.30	102.10	102.30	67.20	20.80	100.70	109.00	67.40	0.00	103.60	103.40	
18	11.70	1.70	99.30	103.20	101.10	102.60	65.50	20.40	100.90	109.40	66.70	2.20	103.50	103.50	
19	14.10	4.30	105.90	103.10	101.10	102.40	65.60	20.50	100.90	109.40	68.50	40.50	103.50	113.20	
20	15.40	5.40	107.00	102.90	102.80	101.70	66.50	20.60	100.80	109.40	67.50	40.60	103.10	115.60	
21	15.20	5.30	107.10	102.90	103.00	100.90	94.40	20.50	100.90	108.30	86.60	41.20	102.80	115.40	
22	15.40	5.40	106.80	102.60	102.70	100.40	97.50	20.80	100.50	108.20	89.70	40.50	102.40	115.10	
23	15.10	5.30	106.80	102.60	102.70	100.10	94.60	20.40	100.70	108.00	94.20	40.60	102.10	115.10	
24	15.40	5.40	106.80	102.60	102.50	99.90	89.20	20.40	101.00	108.10	94.00	40.60	102.00	115.10	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	MCNARY	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	PASCO	
1	83.70	37.80	108.00	118.70	46.40	111.90	114.00	254.40	145.10	107.70	106.70	119.10	0.00	110.00	
2	72.30	37.00	107.70	118.40	44.10	111.80	113.30	254.50	144.90	107.70	107.00	119.00	0.00	109.80	
3	66.20	33.40	107.30	117.30	34.20	111.70	113.00	280.90	144.80	107.50	106.80	119.30	0.00	109.80	
4	67.40	34.00	106.90	116.90	34.20	111.70	111.60	286.80	144.40	107.20	106.80	119.50	0.00	109.50	
5	66.50	33.40	106.70	116.80	35.70	111.70	111.50	289.40	144.00	107.20	106.60	119.50	0.00	109.30	
6	66.30	33.40	106.60	116.70	44.40	111.60	111.70	281.40	126.90	106.90	106.40	119.50	0.00	109.10	
7	64.20	31.20	106.50	116.50	45.10	111.40	112.50	170.70	0.00	106.90	106.30	116.50	0.00	109.10	
8	64.20	31.10	107.00	116.60	44.30	111.20	113.00	171.40	0.00	106.80	106.30	108.70	0.00	109.30	
9	75.20	37.50	107.40	116.80	44.50	111.30	112.80	172.00	0.00	106.80	106.40	107.20	0.00	109.30	
10	83.90	36.90	108.00	117.20	44.80	111.10	113.10	172.50	0.00	106.80	106.30	106.80	0.00	109.70	
11	94.90	36.90	108.70	117.90	44.80	111.40	113.30	172.70	0.00	107.50	106.10	106.70	0.00	110.10	
12	103.60	36.90	109.10	118.60	45.60	111.30	113.70	173.30	0.00	108.40	106.20	106.70	0.00	110.50	
13	102.70	36.90	109.80	118.80	44.80	111.30	114.00	171.50	0.00	109.10	106.40	106.70	0.00	111.00	
14	105.70	39.90	109.90	119.30	44.80	111.50	114.30	170.80	0.00	109.70	106.40	106.80	0.00	111.40	
15	107.40	41.00	110.20	119.10	44.70	111.60	114.30	170.90	0.00	110.20	106.70	106.90	0.00	111.70	
16	80.10	35.70	110.80	118.00	44.70	111.70	114.20	171.80	0.00	110.10	106.80	106.90	0.00	111.90	
17	62.80	25.30	110.60	117.80	44.60	111.80	114.00	172.00	0.00	109.90	106.80	107.00	0.00	112.00	
18	62.20	29.70	110.60	117.30	45.40	111.60	113.70	175.20	5.40	109.90	107.00	106.90	0.00	112.00	
19	64.00	31.70	110.60	117.60	51.30	111.30	113.50	262.90	129.60	110.80	107.40	114.60	0.00	111.80	
20	65.10	32.30	110.10	117.30	51.60	111.10	113.00	277.80	145.00	111.30	108.10	119.30	0.00	111.50	
21	67.50	32.10	109.60	117.20	51.90	110.90	112.70	300.10	145.40	111.10	108.50	119.90	0.00	111.20	
22	77.70	34.70	108.90	117.20	51.70	110.90	112.70	300.50	145.20	109.60	109.40	120.20	0.00	111.00	
23	93.10	40.40	108.10	119.00	86.00	111.00	112.90	296.30	144.60	107.90	108.60	120.00	0.00	110.70	
24	93.30	40.20	106.80	119.30	85.30	111.00	114.30	247.80	144.50	108.30	108.50	119.70	0.00	110.60	

19 MAY 2003

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

19 MAY 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.			
1	15.20	5.30	106.80	102.50	102.50	99.70	82.80	20.50	100.70	108.20	80.00	40.60	101.80	115.80	
2	15.50	5.40	106.70	102.50	102.40	99.30	82.00	20.40	100.70	108.40	81.30	41.40	101.90	115.90	
3	15.20	5.30	106.80	102.30	102.20	99.50	78.80	20.40	100.30	108.10	79.00	40.60	102.00	115.90	
4	15.50	5.40	106.70	102.30	102.20	100.10	79.10	20.80	99.90	108.30	77.90	40.60	102.40	116.00	
5	15.20	5.30	106.80	102.20	102.20	100.30	75.70	20.50	99.90	108.40	76.60	40.60	102.60	116.00	
6	15.40	5.30	106.90	102.20	102.10	100.30	88.50	20.50	99.90	107.90	81.10	39.90	103.10	115.90	
7	15.20	5.20	106.80	102.20	102.20	100.50	92.80	20.50	100.00	107.70	86.10	0.00	103.80	108.30	
8	15.40	5.30	106.90	102.30	102.40	101.00	93.20	20.50	100.00	107.60	89.70	0.00	103.90	105.20	
9	15.10	5.20	107.10	102.50	102.60	101.70	95.60	20.50	100.20	107.70	95.00	0.00	103.80	104.60	
10	15.40	5.30	107.20	103.00	103.10	102.40	95.10	20.50	100.40	107.80	95.10	0.00	104.60	104.40	
11	15.20	5.20	107.30	103.50	103.50	103.30	94.20	20.80	100.50	107.90	97.50	0.00	105.40	105.00	
12	15.40	5.30	107.50	103.90	104.10	104.20	92.20	20.40	100.80	108.00	95.40	0.00	105.90	105.40	
13	15.10	5.20	107.60	104.50	104.50	104.90	88.70	20.40	101.20	108.10	90.80	0.00	106.50	106.00	
14	15.40	5.30	107.60	104.90	104.90	105.70	85.70	20.40	101.60	108.30	91.80	0.00	106.90	106.50	
15	15.20	5.20	107.50	105.20	105.30	106.10	83.70	20.40	102.00	108.50	91.20	0.00	107.20	106.60	
16	15.40	5.30	107.70	105.30	105.50	106.40	80.90	20.40	103.20	108.70	79.70	0.00	107.30	106.70	
17	15.10	5.20	107.70	105.40	105.60	106.40	80.10	20.40	103.00	108.70	79.80	0.00	107.10	106.70	
18	15.40	5.30	107.50	105.30	105.60	106.20	79.10	20.50	102.30	108.60	78.40	0.00	106.50	106.30	
19	15.10	5.20	107.50	105.00	105.60	105.50	79.70	20.40	102.60	108.50	79.40	39.60	106.00	113.50	
20	15.40	5.30	107.40	104.70	105.10	104.90	85.20	20.40	103.00	108.70	84.90	41.10	105.50	115.40	
21	15.10	5.20	107.30	104.40	104.80	104.20	79.00	20.40	102.30	108.70	83.60	41.10	105.10	115.80	
22	15.40	5.30	107.30	104.10	104.70	103.50	79.90	20.70	102.40	109.10	84.50	41.10	104.70	115.80	
23	15.10	5.20	107.10	103.80	104.30	103.10	70.30	20.40	102.20	109.40	71.40	41.10	104.50	116.40	
24	15.40	5.30	107.10	103.70	104.20	102.70	70.00	20.40	102.10	110.00	68.80	41.80	104.40	116.60	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL OR KCFS	GAS %SAT. WA FB	TOTAL DISCH KCFS	GAS %SAT. TAILW.	
1	84.90	37.90	106.70	118.30	86.00	85.40	111.10	114.20	144.40	108.00	108.50	119.30	110.40		
2	82.40	37.20	106.40	118.10	86.10	85.50	111.10	114.30	144.40	107.90	108.70	119.30	110.20		
3	74.80	37.30	105.90	117.90	87.50	85.40	110.90	114.20	144.40	107.80	108.70	119.50	110.00		
4	74.20	36.00	105.70	117.70	87.50	86.90	110.90	114.40	144.40	107.70	108.60	119.20	109.70		
5	72.00	35.40	105.30	117.80	84.00	82.50	111.00	114.30	143.90	107.50	108.30	118.90	109.40		
6	72.20	35.40	104.70	117.80	74.30	44.40	110.70	114.10	127.80	107.40	108.00	119.10	109.10		
7	83.00	36.10	104.70	117.70	74.50	44.40	110.50	113.00	170.90	0.00	107.30	107.80	115.30	109.00	
8	81.00	35.60	104.80	118.00	88.80	44.80	110.60	113.10	175.80	0.00	107.20	107.90	108.40	109.00	
9	89.30	39.80	105.50	119.00	93.30	44.80	111.00	113.60	175.90	0.00	108.30	107.80	107.90	109.10	
10	91.50	39.80	106.20	119.30	96.00	45.60	111.20	113.80	175.50	0.00	109.70	108.00	107.70	109.50	
11	90.00	39.80	106.70	119.90	93.80	44.80	111.20	114.00	174.90	0.00	110.70	108.60	107.80	110.20	
12	93.50	39.80	108.00	120.20	95.60	44.80	111.90	114.20	174.60	0.00	110.40	108.80	108.00	111.00	
13	95.50	40.50	110.90	120.40	95.50	44.80	114.50	114.20	172.40	0.00	0.00	109.60	108.20	111.60	
14	94.20	39.80	110.40	120.60	97.00	44.90	114.70	114.20	163.40	0.00	110.90	111.20	108.30	112.10	
15	94.00	39.80	112.90	120.80	97.40	45.70	114.20	114.30	162.00	0.00	111.50	111.10	108.60	0.00	
16	89.70	39.80	111.30	120.90	95.80	44.80	112.80	114.20	161.50	0.00	111.40	110.90	108.70	113.20	
17	81.30	35.60	111.70	120.30	100.70	44.90	113.10	114.00	170.00	0.00	110.90	111.20	108.60	113.50	
18	83.40	36.20	113.90	120.00	99.80	44.80	113.30	113.90	177.60	7.40	109.60	111.30	108.60	113.70	
19	72.80	26.20	113.40	118.40	91.50	74.20	114.20	114.10	278.80	142.60	109.40	111.50	117.80	113.90	
20	80.70	35.20	113.20	118.30	89.10	75.40	114.10	114.80	295.90	145.10	108.90	110.60	119.60	113.80	
21	81.50	36.00	112.70	118.70	79.70	69.70	113.00	114.50	304.10	144.80	108.70	110.10	119.70	113.70	
22	82.10	36.90	111.90	119.10	79.20	70.10	113.30	114.40	306.60	144.80	108.50	109.70	119.90	113.60	
23	74.40	36.30	111.40	118.90	76.80	74.60	113.30	114.40	279.30	145.10	108.40	109.60	119.60	113.60	
24	65.30	33.50	110.40	117.90	75.30	74.70	113.30	113.70	272.50	144.70	108.30	109.50	119.50	113.40	

20 MAY 2003

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

20 MAY 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	LOWER GRANITE	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.		
1	15.10	5.20	107.00	103.40	104.00	102.30	67.20	20.40	102.20	109.70	63.20	41.10	104.20	116.90	
2	15.40	5.30	107.10	103.30	103.70	102.10	66.90	20.40	102.00	109.60	64.40	41.10	104.40	116.90	
3	15.10	5.20	107.00	103.10	103.60	101.90	64.30	20.50	101.90	109.70	58.50	41.10	104.30	116.90	
4	15.40	5.30	107.10	103.00	103.30	101.70	64.00	20.80	101.80	109.50	56.60	41.90	104.30	117.10	
5	15.10	5.20	107.30	102.90	103.10	101.40	64.00	20.60	101.80	109.90	55.50	41.20	104.30	117.10	
6	15.40	5.30	107.30	102.70	102.90	101.30	65.60	20.60	101.70	109.40	55.30	39.00	104.40	117.20	
7	15.10	5.20	107.40	102.70	102.90	101.40	76.10	0.00	101.60	103.70	65.00	0.00	104.40	113.00	
8	15.30	5.20	107.40	102.90	103.10	101.90	79.50	0.00	101.70	102.40	80.90	0.00	104.40	107.00	
9	15.10	5.10	107.40	103.10	103.30	102.50	79.40	0.00	101.70	101.90	79.50	0.00	104.60	105.70	
10	15.30	5.20	107.70	103.20	103.50	103.00	82.70	0.00	101.90	101.70	82.90	0.00	104.90	105.80	
11	15.30	5.20	107.70	103.80	103.70	103.60	83.00	0.00	101.90	101.80	91.50	0.00	105.30	105.70	
12	15.00	5.10	107.80	104.00	104.00	104.20	83.50	0.00	102.20	101.80	91.70	0.00	105.40	105.60	
13	15.30	5.20	108.00	104.40	104.20	104.70	81.40	0.00	102.20	101.80	90.70	0.00	105.80	105.70	
14	15.10	5.10	108.10	104.70	104.60	105.10	70.00	0.00	101.90	102.00	85.90	0.00	106.20	106.20	
15	15.30	5.20	108.00	104.90	104.90	105.30	68.60	0.00	102.70	102.00	79.60	0.00	107.40	106.60	
16	15.00	5.10	107.80	104.90	104.90	105.30	65.00	0.00	103.10	102.10	71.20	0.00	107.30	106.60	
17	15.30	5.20	107.70	104.90	104.90	104.90	66.20	0.00	102.40	102.00	73.40	0.00	107.30	106.60	
18	15.00	5.10	107.70	104.50	104.90	104.40	68.10	3.60	102.20	102.00	68.90	0.00	107.70	106.90	
19	15.30	5.20	107.40	104.20	104.70	104.00	71.00	40.40	102.30	114.40	68.10	39.10	107.90	113.10	
20	15.00	5.10	107.30	104.00	104.30	103.50	71.50	40.50	102.50	117.00	68.00	40.50	107.90	116.00	
21	15.30	5.20	107.30	103.60	104.20	103.00	87.50	40.40	102.80	117.10	81.00	41.20	107.90	116.40	
22	15.00	5.10	107.30	103.40	104.10	102.50	86.90	40.40	102.80	117.30	78.40	41.10	108.60	116.40	
23	15.30	5.20	107.10	103.10	104.00	102.30	62.40	41.20	102.80	118.20	60.90	41.10	108.90	116.90	
24	15.00	5.10	107.10	103.10	103.80	102.00	54.60	40.50	102.60	118.70	55.80	41.10	109.00	117.20	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	MCNARY	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	PASCO	
1	54.00	27.40	109.90	117.10	76.70	76.00	113.30	113.80	234.20	144.50	108.40	109.50	119.40	: 113.50	
2	53.00	26.60	109.00	116.90	67.20	65.10	113.20	113.50	229.10	144.40	108.40	109.50	119.40	: 113.40	
3	43.60	21.80	108.70	116.30	55.10	54.50	113.30	113.00	229.20	144.30	108.40	109.50	119.40	: 113.30	
4	43.60	21.80	108.10	116.00	55.00	54.40	113.30	112.40	229.30	144.30	108.30	109.60	119.60	: 113.10	
5	43.60	21.80	107.80	115.90	53.60	51.90	113.30	112.10	231.40	144.30	108.40	109.80	119.40	: 113.00	
6	44.30	22.20	108.10	115.70	51.70	27.60	112.90	112.00	219.00	126.00	108.30	109.70	119.60	: 112.80	
7	58.80	29.10	108.70	116.60	65.00	33.20	113.00	110.40	171.20	0.00	108.20	109.50	114.60	: 112.60	
8	64.10	31.70	108.10	117.10	65.30	32.80	113.20	111.40	176.00	0.00	108.70	109.50	110.00	: 112.60	
9	76.80	35.10	107.50	118.70	78.80	39.30	113.40	111.70	175.70	0.00	109.50	109.80	109.30	: 112.90	
10	81.60	35.70	107.50	119.20	79.80	39.40	113.70	112.80	175.90	0.00	110.20	110.20	109.20	: 113.50	
11	88.30	39.10	108.30	120.00	87.80	43.10	113.50	112.80	166.00	0.00	110.40	110.40	109.30	: 113.90	
12	88.80	39.30	108.20	120.40	94.60	44.70	0.00	113.30	170.70	0.00	110.00	110.40	109.20	: 114.20	
13	88.80	39.30	109.60	120.60	96.70	48.00	113.60	113.90	174.10	0.00	109.50	110.50	109.20	: 114.60	
14	88.90	39.30	109.50	120.70	97.30	48.20	114.30	114.50	173.40	0.00	109.20	110.90	109.30	: 115.00	
15	88.90	39.40	111.00	120.70	98.70	48.20	115.40	114.50	172.70	0.00	109.50	111.00	109.40	: 115.10	
16	88.70	39.30	111.40	119.70	98.80	49.10	116.70	114.80	173.10	0.00	113.30	111.20	109.40	: 115.20	
17	71.50	35.50	111.70	119.60	86.90	43.20	116.10	114.30	173.40	0.70	113.30	110.70	109.30	: 115.00	
18	65.50	28.20	112.10	117.00	84.60	41.70	115.60	113.30	197.40	25.90	112.40	110.60	109.40	: 114.80	
19	68.60	33.50	112.40	117.60	69.40	34.20	115.80	113.10	280.50	142.90	111.10	110.90	118.60	: 114.60	
20	65.30	33.50	112.60	117.80	67.40	34.80	115.20	112.00	281.60	145.50	111.10	111.60	119.90	: 114.50	
21	78.60	36.90	113.80	119.00	78.70	39.90	115.10	112.00	308.20	145.40	109.90	111.30	120.40	: 114.20	
22	75.20	35.70	114.80	119.10	79.00	39.20	114.90	112.20	308.00	145.10	109.60	111.80	120.50	: 114.00	
23	59.10	29.20	115.10	117.60	66.70	35.80	114.90	112.20	276.40	144.50	109.50	111.90	120.10	: 113.90	
24	47.40	23.80	114.80	117.00	57.60	29.10	114.90	111.70	247.80	144.90	109.60	111.70	119.60	: 113.90	

21 MAY 2003

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

21 MAY 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	LOWER GRANITE	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	LOWER GRANITE	LITTLE GOOSE
1	15.30	5.20	107.30	103.00	103.70	101.90	55.20	40.60	102.40	118.40	55.30	41.00	109.00	117.10	
2	15.00	5.10	107.30	103.00	103.60	101.70	67.80	40.70	102.80	118.60	57.90	41.80	109.00	117.30	
3	15.30	5.20	107.10	102.90	103.50	101.60	74.70	40.70	102.90	118.40	55.40	41.10	109.00	117.30	
4	15.00	5.10	107.10	102.90	103.30	101.50	78.70	40.60	102.80	118.30	55.70	41.10	108.70	117.20	
5	15.30	5.10	107.10	102.70	103.20	101.30	80.00	41.40	102.50	118.20	62.40	41.20	108.50	117.20	
6	15.00	5.00	107.10	102.50	103.00	101.30	80.20	40.70	102.40	118.20	73.00	42.00	108.20	117.10	
7	15.30	5.10	107.10	102.70	103.00	101.40	77.80	0.80	102.40	105.90	79.30	8.10	108.30	113.60	
8	15.00	5.00	107.30	102.70	103.10	101.70	78.90	0.00	102.60	104.20	77.80	0.00	108.10	109.50	
9	15.30	5.10	107.30	102.80	103.30	102.10	78.70	0.00	102.50	103.50	77.60	0.00	108.00	108.70	
10	15.00	5.00	107.40	103.10	103.50	102.60	74.20	0.00	102.50	103.10	77.50	0.00	108.20	108.40	
11	15.20	5.10	107.50	103.30	103.80	103.10	72.60	0.00	102.50	103.00	78.30	0.00	108.10	107.50	
12	15.00	5.00	107.40	103.40	103.80	103.50	72.20	0.00	102.60	103.00	75.40	0.00	107.70	109.40	
13	15.20	5.10	107.40	103.70	103.80	103.70	72.10	0.00	103.00	103.00	75.40	0.00	108.30	108.60	
14	15.00	5.00	107.30	103.90	103.80	103.90	72.30	0.00	103.20	102.80	77.00	0.00	108.30	108.60	
15	15.20	5.10	107.70	104.20	104.00	104.20	71.30	0.00	103.50	103.40	76.70	0.00	108.30	108.20	
16	14.90	5.00	107.30	104.10	104.30	104.50	71.50	0.00	104.70	103.80	75.30	0.00	108.20	108.10	
17	15.20	5.10	107.60	104.50	104.40	104.70	70.20	0.00	105.40	103.70	75.40	0.00	108.20	108.10	
18	14.90	5.00	107.30	104.50	104.30	104.80	67.50	1.40	105.40	103.90	74.50	1.20	108.40	107.90	
19	15.20	5.10	107.30	104.30	104.20	104.40	76.20	40.40	105.60	116.40	83.30	39.40	109.20	114.20	
20	14.90	5.00	107.20	103.80	104.00	103.70	82.60	40.40	105.70	116.90	88.40	38.70	109.60	115.20	
21	15.20	5.10	107.20	103.50	103.80	103.00	84.00	40.40	106.70	117.40	94.40	38.60	109.80	115.30	
22	14.90	5.00	107.20	103.20	103.60	102.50	85.30	41.10	106.10	117.80	94.50	38.60	109.40	115.20	
23	15.20	5.10	107.00	103.10	103.50	102.10	83.40	40.30	106.60	117.80	95.60	39.20	109.40	115.20	
24	10.10	0.20	99.20	103.00	103.20	101.80	59.00	40.40	106.10	118.30	76.70	38.50	109.60	115.50	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	MCNARY	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	PASCO	
1	43.60	21.80	114.70	116.50	59.20	29.10	115.00	110.70	144.90	109.60	111.70	119.60	113.70		
2	43.70	21.80	114.00	116.20	45.30	24.30	115.10	110.70	144.90	109.50	111.50	119.90	113.70		
3	43.60	21.70	113.50	116.00	44.90	22.70	115.00	109.80	144.90	109.40	111.50	119.70	113.50		
4	43.70	21.80	113.00	116.00	42.70	22.40	114.80	109.50	144.90	109.30	111.50	120.00	113.50		
5	43.70	21.80	112.10	116.00	50.80	26.50	114.60	109.50	144.90	109.30	111.80	120.00	113.30		
6	44.90	22.20	111.20	115.90	58.40	29.80	114.80	110.40	124.60	109.70	111.70	120.20	113.20		
7	72.30	31.10	110.00	118.20	79.70	41.20	114.80	111.80	171.00	0.00	110.30	111.70	115.90		113.00
8	76.50	35.10	110.00	118.70	84.40	42.00	115.00	112.80	175.90	0.00	111.10	111.60	112.10		113.10
9	85.80	38.50	109.80	119.60	81.60	41.40	115.10	113.50	175.50	0.00	111.70	111.70	111.30		113.30
10	86.30	38.40	109.20	120.10	83.00	41.10	115.30	112.90	167.20	0.00	112.20	112.00	111.30		113.50
11	87.80	38.40	109.00	120.20	87.00	43.20	115.30	113.50	162.00	0.00	112.70	112.00	111.30		113.70
12	81.90	38.50	108.70	120.40	88.50	43.20	115.30	113.90	161.50	0.00	113.80	112.40	111.50		114.00
13	76.50	34.40	108.30	120.40	87.00	43.10	115.40	113.70	160.30	0.00	115.60	112.50	111.70		114.50
14	76.60	34.40	108.90	120.60	87.00	43.10	115.60	113.80	161.00	0.00	117.40	112.70	111.90		114.80
15	76.70	34.40	109.50	120.60	101.00	48.40	115.80	114.10	161.90	0.30	117.60	113.00	112.20		115.10
16	76.50	34.40	110.10	120.80	94.60	47.20	117.50	114.90	161.70	0.00	113.10	113.30	112.30		115.60
17	76.70	34.50	109.60	121.00	87.20	42.80	116.80	114.50	160.60	0.00	118.80	113.70	112.50		115.80
18	69.60	25.10	110.40	120.80	86.80	42.80	118.10	113.60	183.90	16.20	120.50	113.70	112.20		116.10
19	84.60	37.30	112.00	120.20	90.20	43.70	117.10	113.40	304.80	129.00	120.30	113.40	118.80		116.10
20	85.10	37.20	113.70	119.90	93.80	46.10	116.90	113.80	321.70	145.20	118.10	113.50	120.80		116.00
21	95.30	37.20	113.00	119.70	96.80	47.50	117.10	114.10	321.80	145.20	114.70	114.60	121.00		115.70
22	96.00	37.20	114.80	119.70	96.80	47.50	117.40	114.20	320.80	145.10	113.40	115.10	121.00		115.60
23	97.00	37.90	114.80	119.80	94.80	47.30	116.70	114.20	320.70	144.90	112.60	115.10	120.90		115.50
24	77.80	33.80	115.30	119.40	76.80	38.30	116.20	114.00	283.90	145.00	112.80	114.80	120.80		115.20

22 MAY 2003

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

22 MAY 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.			
1	10.10	0.00	98.50	103.00	100.90	101.60	60.70	40.50	106.00	118.80	58.00	38.50	109.40	116.30	
2	9.90	0.00	98.40	102.80	100.70	101.40	61.00	40.50	105.80	118.70	52.40	38.40	109.30	116.40	
3	10.10	0.00	98.40	102.70	100.50	101.20	62.20	41.40	105.70	118.80	40.60	38.50	109.20	116.80	
4	9.90	0.00	98.40	102.60	100.30	101.10	70.50	40.60	105.60	118.70	40.00	39.20	108.80	117.10	
5	10.10	0.00	98.40	102.60	100.10	100.90	83.10	40.70	105.70	118.10	42.60	38.50	108.60	116.90	
6	9.90	0.00	98.40	102.60	100.00	100.80	80.70	40.60	105.40	118.40	38.70	36.00	108.50	117.00	
7	10.10	0.00	98.50	102.50	100.00	101.00	81.00	21.50	105.40	110.50	70.70	0.00	108.70	113.10	
8	9.90	0.00	98.50	102.70	100.10	101.30	82.60	20.90	105.30	110.50	76.90	0.00	108.70	109.80	
9	10.10	0.00	98.60	103.00	100.60	101.60	75.40	20.50	105.30	110.40	74.90	0.00	108.80	109.00	
10	9.90	0.00	98.60	103.50	100.80	101.80	75.40	20.50	105.30	110.00	74.40	0.00	109.00	108.80	
11	10.10	0.00	98.90	103.70	101.20	102.50	75.40	20.40	105.70	110.10	74.20	0.00	109.10	108.70	
12	9.90	0.00	99.20	104.00	101.70	103.10	72.30	20.40	106.30	110.50	75.30	0.00	108.60	108.50	
13	10.10	0.00	99.20	104.40	102.20	103.60	72.40	20.80	106.00	110.40	75.30	0.00	108.50	108.50	
14	10.10	0.00	99.20	104.70	102.50	103.70	71.00	20.40	105.80	110.40	73.70	0.00	108.50	108.40	
15	9.90	0.00	99.20	104.80	102.80	104.30	66.10	20.40	106.60	110.90	68.60	0.00	108.70	108.30	
16	10.10	0.00	99.20	105.00	103.00	104.80	65.10	20.40	106.80	111.10	68.10	0.00	108.50	108.20	
17	9.90	0.00	99.20	105.00	102.90	104.70	61.60	20.40	105.70	111.00	62.40	0.00	108.60	108.20	
18	10.10	0.00	-999.00	6739.10	103.00	104.40	62.90	20.80	106.00	111.00	63.80	2.00	108.50	108.20	
19	9.90	0.00	-999.00	104.70	102.70	103.70	74.90	20.40	106.10	110.20	80.10	36.80	108.60	113.30	
20	10.10	0.00	-999.00	104.30	102.40	103.00	77.40	20.40	106.20	110.50	79.00	36.90	108.60	115.00	
21	9.90	0.00	-999.00	103.90	102.00	102.40	80.80	20.40	106.10	110.60	84.10	37.60	108.50	115.20	
22	10.10	0.00	-999.00	103.60	101.90	101.90	81.60	20.40	106.20	110.20	82.60	36.90	108.50	115.00	
23	9.90	0.00	-999.00	103.40	101.70	101.30	76.00	20.70	106.60	110.20	82.10	36.90	108.40	115.00	
24	10.10	0.00	-999.00	103.30	101.50	100.90	59.00	20.40	106.50	110.80	66.00	36.90	108.60	115.50	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL OR KCFS	GAS %SAT. WA FB TAILW.	TOTAL DISCH KCFS	GAS %SAT. SAT	
1	57.20	28.10	115.10	118.80	30.70	115.80	112.10	282.40	144.70	112.70	114.80	120.80			115.00
2	46.00	23.10	114.40	117.40	29.00	115.70	110.90	296.60	144.40	112.70	114.70	120.80			114.90
3	42.70	21.30	114.30	115.10	23.40	115.60	110.90	297.00	143.80	112.70	114.60	120.70			114.80
4	30.80	16.00	114.50	114.60	17.90	115.50	110.10	297.30	143.40	112.80	114.10	120.70			114.50
5	30.50	15.90	113.90	113.90	17.70	115.30	109.50	297.40	143.40	112.70	114.00	120.90			114.30
6	31.00	16.20	113.30	113.70	26.90	115.40	108.50	237.50	126.10	112.70	114.00	120.90			114.10
7	30.50	15.90	112.40	113.70	27.40	115.70	109.50	171.10	0.00	113.00	113.80	117.30			113.90
8	49.70	24.50	111.90	115.40	26.90	115.60	110.30	174.00	0.00	113.40	113.80	113.60			113.70
9	72.30	36.90	111.30	119.10	41.60	115.80	110.40	173.50	0.00	113.80	113.70	112.90			113.60
10	76.20	36.90	110.90	119.50	44.40	115.70	112.70	173.70	0.00	114.60	113.90	112.80			113.50
11	77.60	36.90	110.30	120.00	44.90	116.70	113.80	173.50	0.00	115.70	113.90	112.70			113.50
12	79.40	37.50	110.50	120.40	45.60	116.70	114.20	206.00	31.90	116.60	114.20	112.70			113.60
13	77.90	36.90	110.10	120.70	44.80	118.10	113.90	234.00	60.20	116.40	114.00	115.30			113.70
14	80.20	36.90	110.00	120.90	44.80	117.10	114.10	231.40	57.30	117.10	115.20	115.90			114.10
15	74.30	33.10	109.20	120.00	44.70	117.60	114.20	230.20	56.00	116.50	116.60	115.30			114.30
16	72.70	31.80	109.60	119.90	44.70	117.70	114.10	210.60	36.20	117.80	115.40	115.10			114.40
17	67.00	31.80	109.60	119.60	45.50	118.90	113.90	182.60	9.40	117.90	115.60	113.50			114.80
18	58.30	25.00	109.80	118.90	45.80	119.30	113.60	211.20	37.10	114.90	116.50	113.00			114.70
19	66.90	32.10	110.00	119.40	58.60	117.00	113.70	316.50	139.90	113.20	116.00	118.70			114.80
20	75.90	32.10	110.30	119.40	59.50	116.60	114.10	318.10	140.90	113.20	116.20	119.50			114.70
21	84.60	32.10	110.80	119.40	61.60	116.40	113.90	317.90	140.90	113.70	115.80	119.60			114.50
22	83.80	32.20	112.00	119.10	73.10	116.30	114.10	316.30	140.80	113.70	115.50	119.50			114.40
23	82.90	32.70	112.80	118.80	89.30	116.40	115.50	291.60	140.90	112.60	115.80	119.40			114.50
24	57.50	28.00	114.90	117.90	89.50	116.30	116.10	244.70	140.90	112.40	115.20	119.10			114.40

23 MAY 2003

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

23 MAY 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	LOWER GRANITE	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.		
1	9.90	0.00	999.00	103.30	101.20	100.60	48.20	20.40	106.00	111.60	60.00	37.50	108.50	115.90	
2	10.10	0.00	1000.00	103.00	101.10	100.30	48.80	20.50	105.50	111.60	50.10	36.80	108.40	116.10	
3	9.90	0.00	1000.00	102.90	100.80	100.10	76.80	20.50	105.40	110.90	50.60	36.80	108.20	116.30	
4	10.10	0.00	1000.00	102.80	100.60	99.80	75.40	20.50	105.20	110.20	65.40	36.90	108.00	115.80	
5	9.90	0.00	1000.00	102.70	100.30	99.60	90.00	20.80	105.10	110.50	74.20	36.90	107.90	115.80	
6	10.10	0.00	1000.00	102.70	100.10	99.60	97.90	20.40	104.90	109.40	85.50	37.40	107.90	115.10	
7	9.90	0.00	1000.00	102.70	100.10	99.70	101.90	20.40	104.90	109.60	91.40	0.00	107.40	109.30	
8	10.10	0.00	98.60	102.80	100.30	100.40	83.30	20.40	105.10	109.90	91.50	0.00	107.10	107.70	
9	10.10	0.00	98.80	103.00	100.70	101.10	77.40	20.40	105.30	110.10	91.70	0.00	107.00	106.90	
10	9.90	0.00	99.00	103.50	101.20	101.90	70.90	20.40	105.80	109.90	80.00	0.00	106.50	106.70	
11	10.10	0.00	99.30	104.00	101.50	102.80	63.00	20.80	105.70	110.50	64.30	0.00	106.60	106.80	
12	9.90	0.00	99.30	104.40	101.90	103.60	63.40	20.40	106.40	111.30	63.30	0.00	106.40	106.60	
13	10.10	0.00	99.30	104.90	102.30	104.40	67.80	20.40	107.50	110.20	63.30	0.00	106.30	106.60	
14	9.90	0.00	99.40	105.20	102.70	104.90	68.50	20.50	107.20	110.50	66.10	0.00	107.50	106.70	
15	10.10	0.00	99.50	105.40	103.20	105.20	74.80	20.50	106.70	110.40	65.10	0.00	107.90	107.20	
16	9.90	0.00	99.40	105.70	103.40	105.50	88.90	20.80	107.60	110.30	70.10	0.00	108.80	107.20	
17	10.10	0.00	99.30	105.80	103.50	105.30	86.50	20.50	105.90	109.90	72.70	0.00	108.40	107.30	
18	9.90	0.00	99.40	105.50	103.60	104.80	92.70	20.40	106.40	109.60	88.80	0.90	108.90	108.00	
19	10.10	0.00	99.30	105.30	103.40	104.10	98.20	20.40	107.50	109.50	108.10	35.20	111.10	112.70	
20	9.90	0.00	99.20	105.00	103.20	103.30	100.10	20.80	106.60	109.70	107.50	34.80	112.90	114.40	
21	10.10	0.00	99.00	104.70	102.90	102.60	101.60	20.30	106.40	109.40	104.60	34.80	112.10	114.60	
22	9.90	0.00	99.00	104.40	102.70	102.10	85.80	20.30	106.30	109.70	104.20	34.80	112.10	114.60	
23	10.10	0.00	99.00	104.30	102.60	101.60	80.10	20.40	107.80	109.80	92.40	35.40	111.70	114.70	
24	9.90	0.00	98.90	104.20	102.50	101.30	70.60	20.40	107.40	110.00	69.70	34.70	112.00	115.40	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	MCNARY	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	PASCO	
1	51.80	24.10	115.60	117.10	74.90	74.30	116.20	115.80	140.90	112.60	115.00	119.30	114.50		
2	41.30	20.10	115.50	115.50	60.20	59.60	116.00	114.10	140.90	112.50	114.70	118.40	114.30		
3	45.30	22.20	115.30	114.90	50.10	49.50	115.90	113.40	140.90	112.50	114.60	119.20	113.90		
4	54.00	27.70	115.00	117.10	40.30	39.80	115.80	113.10	140.90	112.40	114.60	119.40	113.40		
5	64.00	31.60	114.60	117.40	41.20	39.90	116.00	111.20	140.90	112.50	114.60	119.70	113.20		
6	77.60	32.10	113.90	118.00	63.00	41.10	116.00	111.10	111.20	112.90	114.60	119.40	112.90		
7	81.80	31.60	113.10	117.90	79.40	44.90	115.80	112.60	0.00	113.00	114.60	116.80	112.70		
8	81.90	31.50	113.10	118.20	81.70	45.00	115.90	113.50	0.00	113.50	114.60	114.10	113.00		
9	87.70	31.60	113.10	119.00	90.30	45.80	116.70	114.00	0.00	114.60	114.70	113.80	113.40		
10	88.70	35.50	112.90	119.50	96.00	44.90	117.90	114.00	0.00	115.40	114.80	113.80	114.10		
11	86.40	32.40	112.30	119.30	102.40	44.90	117.50	114.50	0.00	114.80	114.90	113.90	114.70		
12	65.10	30.90	112.80	119.30	100.30	44.90	117.10	114.50	43.60	114.80	115.00	114.00	115.50		
13	62.50	30.00	111.70	119.50	80.90	44.90	116.70	114.60	61.90	115.00	115.70	114.90	116.50		
14	62.80	30.10	113.50	119.90	74.70	44.80	117.00	114.30	62.00	115.50	116.60	115.00	117.10		
15	64.40	30.10	111.90	120.00	75.70	45.50	116.80	114.20	25.50	116.70	117.40	114.70	117.70		
16	64.20	30.60	111.60	120.20	76.00	44.70	117.20	114.10	71.00	117.40	117.70	115.10	118.30		
17	69.60	30.00	111.50	120.30	75.90	44.70	117.00	114.20	67.20	117.80	117.70	114.90	118.80		
18	67.70	26.20	112.50	120.50	74.30	44.70	117.20	113.80	74.00	118.00	117.70	115.30	119.00		
19	89.30	27.50	113.20	120.30	80.10	64.10	117.20	113.90	139.10	115.40	118.00	119.20	119.30		
20	103.90	28.60	113.50	120.40	99.60	89.10	118.10	115.60	291.60	140.00	115.20	118.40	120.20		
21	112.30	29.10	117.90	119.90	100.60	90.20	118.60	116.00	315.20	139.90	114.80	117.60	120.10		
22	111.80	28.60	116.70	119.90	114.50	99.40	117.80	117.00	316.40	139.70	114.50	116.90	120.10		
23	95.60	28.60	116.10	119.00	113.00	99.40	117.80	117.60	315.30	139.50	114.50	116.30	120.20		
24	84.80	28.60	116.00	118.90	105.80	95.30	117.10	117.90	293.20	139.80	114.40	115.90	120.00		

24 MAY 2003

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

24 MAY 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB %SAT.	TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB %SAT.	TAILW.	
1	10.10	0.00	98.90	104.10	102.20	101.10	67.70	20.40	106.40	110.50	58.40	34.80	111.50	115.70	
2	9.90	0.00	98.90	103.90	101.90	100.80	65.30	20.80	106.00	110.60	56.40	34.80	111.10	115.80	
3	10.10	0.00	99.00	103.90	101.70	100.60	74.30	20.50	105.70	110.20	49.90	34.80	111.10	115.90	
4	9.90	0.00	98.90	104.00	101.50	100.40	84.30	20.50	106.00	110.30	57.90	35.50	111.00	116.30	
5	10.10	0.00	98.90	103.80	101.30	100.40	89.50	20.60	105.60	109.60	82.60	34.90	111.00	115.50	
6	9.90	0.00	98.90	103.80	101.20	100.20	89.90	20.50	105.40	109.70	84.90	35.00	111.60	115.30	
7	10.10	0.00	99.00	103.80	101.10	100.40	96.60	20.90	105.40	109.60	95.80	0.00	111.00	111.70	
8	9.90	0.00	99.00	104.00	101.10	101.00	103.10	20.50	105.40	109.40	114.10	0.00	110.70	110.80	
9	10.10	0.00	99.40	104.30	101.40	101.60	103.60	20.50	105.90	109.60	113.30	0.00	110.80	110.50	
10	9.90	0.00	99.70	104.70	101.70	102.30	99.10	20.40	106.30	109.60	112.70	0.00	111.50	110.40	
11	10.10	0.00	99.80	105.00	102.10	103.00	96.20	20.40	106.80	109.70	108.40	0.00	111.70	110.50	
12	9.90	0.00	100.10	105.50	102.50	103.80	97.90	20.80	107.10	109.80	100.40	0.00	112.80	110.90	
13	10.10	0.00	100.20	105.90	103.00	104.30	95.90	20.40	107.40	110.30	104.70	0.00	112.20	111.20	
14	9.90	0.00	100.20	106.10	103.50	104.70	91.30	20.40	107.10	110.50	96.10	0.00	112.60	111.40	
15	10.10	0.00	100.40	106.40	104.00	104.80	109.80	20.40	107.40	110.00	100.20	0.00	113.40	111.70	
16	9.90	0.00	100.40	106.60	104.40	104.70	112.50	20.40	107.90	110.20	100.70	0.00	113.80	112.40	
17	10.10	0.00	100.40	106.40	104.60	104.60	111.80	20.70	107.40	110.10	109.40	0.00	113.80	112.50	
18	9.90	0.00	100.30	106.20	104.70	103.80	109.60	20.30	106.40	109.70	110.30	0.60	114.30	112.70	
19	10.10	0.00	100.10	106.00	104.40	103.10	100.10	20.30	106.40	109.80	104.80	32.80	113.90	114.10	
20	9.90	0.00	99.90	105.50	104.30	102.50	99.30	20.40	105.70	109.70	102.50	32.90	113.80	114.30	
21	10.10	0.00	99.20	105.10	103.60	101.70	99.70	20.40	105.40	109.70	104.70	33.50	114.00	114.40	
22	9.60	0.00	99.40	105.10	103.60	101.80	99.60	20.40	105.40	109.80	102.70	32.90	113.70	114.20	
23	7.50	0.00	98.90	105.10	103.50	101.70	101.10	20.80	105.60	110.30	98.40	33.00	113.60	114.20	
24	7.50	0.00	98.80	105.00	103.20	101.50	99.50	20.40	105.10	110.10	93.50	32.90	113.50	114.50	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH KCFS	SPILL KCFS	GAS FB %SAT.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB %SAT.	TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB %SAT.	WA TAILW.	TOTAL DISCH KCFS	SPILL OR KCFS	GAS FB %SAT.	TAILW.
1	64.20	28.40	115.90	118.30	80.90	117.10	116.30	272.50	139.90	114.60	115.60	119.70	0	117.20	
2	51.90	25.20	115.80	117.90	66.70	117.20	115.90	270.60	139.90	114.70	115.40	119.60	0	117.00	
3	44.10	22.20	115.60	117.40	53.60	117.00	114.20	290.50	139.80	114.70	115.50	119.80	0	116.70	
4	44.50	21.60	115.40	117.10	53.50	116.90	112.80	315.20	139.30	114.50	115.50	119.60	0	116.40	
5	43.10	21.20	115.00	115.60	51.00	117.20	113.20	316.30	139.20	114.80	115.40	120.00	0	116.20	
6	55.60	26.70	114.90	117.50	22.60	117.30	112.70	294.90	118.00	114.80	115.40	119.90	0	115.80	
7	67.00	27.30	114.50	118.00	31.60	117.10	110.20	169.20	0.00	114.60	115.30	117.40	0	115.50	
8	103.00	29.50	115.10	119.10	40.30	117.10	111.60	169.70	0.00	114.90	115.30	114.90	0	115.40	
9	120.00	29.00	115.60	120.10	51.70	117.70	113.80	171.80	0.00	115.70	115.50	114.40	0	115.50	
10	129.70	29.00	113.80	120.50	62.40	117.70	115.80	172.20	0.00	116.00	115.50	114.40	0	115.70	
11	130.20	29.00	114.90	120.80	69.80	117.60	117.20	171.60	0.00	115.70	115.60	114.40	0	116.00	
12	122.00	29.00	113.00	121.10	69.80	117.70	117.60	170.70	0.00	116.40	115.60	114.40	0	116.10	
13	102.00	29.10	113.40	120.90	71.10	117.80	117.60	225.80	54.90	117.40	116.40	114.60	0	116.40	
14	94.80	29.00	114.20	120.90	71.90	117.80	117.70	252.40	80.00	118.30	117.90	116.30	0	116.50	
15	95.90	29.50	114.80	121.00	58.00	118.00	117.40	269.40	96.10	118.60	118.00	117.20	0	117.00	
16	93.80	27.20	114.70	120.90	49.90	118.30	116.10	274.80	100.70	115.90	118.80	117.90	0	117.40	
17	102.90	25.60	116.40	120.90	99.20	118.20	114.70	275.10	100.70	115.50	119.10	118.10	0	117.40	
18	102.90	20.00	116.70	119.30	99.20	118.10	114.60	278.40	103.50	115.40	117.90	117.70	0	117.40	
19	114.10	24.00	116.80	119.10	102.20	118.00	114.60	311.50	134.90	115.30	117.50	119.60	0	117.10	
20	114.10	23.20	116.20	118.30	117.00	117.60	115.10	311.60	134.90	114.70	116.90	120.00	0	116.50	
21	117.90	25.60	114.80	120.10	114.30	117.30	115.30	311.60	134.90	114.30	116.80	120.10	0	115.80	
22	102.90	23.80	113.80	118.60	112.50	117.30	115.40	312.00	135.10	114.50	116.70	120.00	0	115.10	
23	91.60	23.90	113.10	118.20	92.70	117.10	114.40	312.40	135.30	114.40	116.40	119.70	0	114.30	
24	81.40	23.90	112.10	117.70	87.40	117.00	114.10	312.40	135.20	114.30	116.70	119.60	0	113.90	

25 MAY 2003

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

25 MAY 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	LOWER GRANITE	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	LOWER GRANITE	LITTLE GOOSE
1	7.40	0.00	99.00	105.00	103.10	101.40	112.20	20.40	105.10	109.60	94.70	32.90	112.90	114.50	
2	7.50	0.00	99.10	104.80	102.80	101.40	112.10	20.40	105.10	109.50	95.10	33.60	112.80	114.40	
3	7.40	0.00	99.20	104.70	102.70	101.30	111.70	20.40	104.90	109.30	99.80	32.90	112.70	114.50	
4	7.50	0.00	99.10	104.80	102.20	101.20	109.90	20.80	104.70	109.40	103.70	32.90	112.70	114.70	
5	7.40	0.00	98.90	104.60	102.10	101.20	107.10	20.40	104.60	109.30	107.40	32.90	112.50	114.40	
6	7.50	0.00	98.70	104.50	101.70	101.10	107.20	20.40	104.50	109.30	108.70	32.90	112.40	114.30	
7	7.40	0.00	98.90	104.50	101.60	101.10	108.10	20.40	104.60	109.30	101.10	0.30	112.30	112.00	
8	7.50	0.00	99.20	104.50	101.80	101.00	112.50	20.40	104.60	109.20	105.30	0.00	112.20	111.60	
9	7.40	0.00	99.20	104.80	101.90	101.30	116.40	20.80	104.90	110.20	115.10	0.00	112.10	111.60	
10	7.50	0.00	99.50	104.80	102.20	101.30	114.30	20.40	105.30	109.10	117.80	0.00	111.90	111.30	
11	7.40	0.00	99.70	104.80	102.60	101.20	112.40	20.40	105.20	109.20	118.50	0.00	111.70	111.10	
12	7.50	0.00	99.40	104.70	102.80	101.20	125.50	32.90	105.20	114.50	117.40	0.80	111.50	110.90	
13	7.40	0.00	99.40	104.70	103.10	101.20	129.60	34.80	104.90	114.90	129.00	9.30	111.40	110.30	
14	7.50	0.00	99.20	104.90	103.10	101.00	130.40	36.00	104.80	115.30	127.50	9.30	111.30	109.90	
15	7.40	0.00	99.10	105.00	103.40	101.10	129.50	36.70	104.90	115.80	131.20	14.30	111.20	110.60	
16	7.50	0.00	99.50	104.90	103.80	101.40	129.60	36.70	104.80	116.00	134.90	14.70	110.80	110.70	
17	7.40	0.00	99.30	105.10	104.00	101.60	129.40	36.80	104.80	116.00	130.80	14.50	110.70	110.60	
18	7.50	0.00	99.20	105.30	104.00	101.90	129.40	36.80	104.80	116.00	131.20	15.60	110.50	110.60	
19	7.40	0.00	99.10	105.30	104.20	101.90	129.40	36.80	104.60	116.10	134.40	33.00	110.40	113.10	
20	7.50	0.00	99.00	105.40	103.90	101.90	133.40	39.20	104.20	117.60	134.60	33.60	110.40	113.70	
21	7.50	0.00	98.70	105.30	103.90	101.80	134.90	42.40	104.00	118.60	132.80	33.00	110.20	114.00	
22	7.40	0.00	98.60	105.20	103.80	101.80	138.10	45.50	103.90	119.50	143.20	33.00	110.10	114.40	
23	7.50	0.00	98.30	105.30	103.70	101.80	138.70	46.20	103.90	119.80	143.70	33.00	110.00	114.70	
24	3.00	0.00	98.40	105.40	103.60	101.80	141.90	49.40	103.80	120.50	140.40	32.90	109.90	114.60	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	MCNARY	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	PASCO	
1	87.50	23.80	112.10	117.70	84.00	41.90	116.80	113.80	134.50	114.20	116.60	119.80	113.70		
2	88.10	23.80	111.50	117.40	83.90	41.90	116.70	113.00	134.70	114.00	116.50	119.90	113.80		
3	93.00	24.30	110.70	117.60	87.00	42.70	116.40	113.00	135.20	113.70	116.60	119.90	113.70		
4	92.00	23.80	110.80	117.40	91.00	46.00	116.40	113.20	135.20	113.80	116.40	119.80	113.50		
5	102.60	23.80	111.40	117.60	98.80	50.00	116.10	114.10	135.20	114.30	116.30	119.70	113.00		
6	103.60	23.80	111.80	117.60	102.20	51.20	116.00	114.40	135.20	115.10	116.30	119.90	112.70		
7	104.90	23.90	112.00	117.70	108.30	55.00	116.00	114.50	148.70	0.00	115.90	116.10	118.70	112.80	
8	103.60	23.80	112.60	117.80	121.90	61.20	115.90	115.70	173.90	0.00	115.90	116.10	115.60	112.70	
9	105.20	24.30	112.40	117.90	132.90	66.40	115.60	116.40	175.70	0.00	115.70	116.00	115.20	112.70	
10	111.20	23.80	112.30	117.90	131.00	65.00	115.60	116.50	174.90	0.00	116.00	116.10	115.00	112.90	
11	113.30	23.80	112.60	118.20	131.20	64.90	115.50	116.40	175.10	0.00	115.00	116.10	114.80	113.30	
12	122.10	23.80	113.40	118.40	132.60	64.80	115.40	116.60	173.40	0.00	115.00	116.00	114.70	113.30	
13	127.60	23.80	113.90	118.40	132.80	64.70	115.00	116.50	172.40	0.00	115.10	116.10	114.70	113.30	
14	130.30	24.30	113.70	118.20	133.60	65.90	114.90	116.50	171.80	0.00	115.00	116.20	115.10	113.80	
15	132.50	23.90	113.30	118.30	131.20	64.80	115.00	116.70	171.80	0.00	116.20	116.30	115.10	114.10	
16	133.00	23.80	113.00	118.30	131.20	64.80	115.50	116.70	171.90	0.00	117.70	116.40	115.20	114.40	
17	133.00	23.90	112.50	118.70	131.30	64.90	115.50	116.70	171.40	0.00	118.80	116.50	115.10	114.40	
18	133.00	23.80	112.70	118.40	131.30	64.90	115.10	116.50	177.00	9.20	118.50	116.70	115.10	114.60	
19	127.60	17.00	112.70	116.40	132.90	65.00	115.00	116.50	229.40	129.80	118.50	116.60	116.70	114.60	
20	133.60	22.70	112.10	117.50	139.40	67.50	114.70	116.40	227.40	130.10	116.80	116.60	118.50	114.60	
21	134.00	24.10	111.90	117.80	143.70	70.70	114.30	116.80	255.80	130.00	115.50	116.60	118.90	114.50	
22	140.90	23.30	111.70	117.40	145.30	70.70	114.10	117.00	279.20	130.00	115.20	116.70	119.00	114.20	
23	140.10	22.30	111.60	117.00	143.80	70.70	113.90	117.10	302.00	130.00	115.10	116.70	119.40	113.80	
24	141.20	23.90	112.20	117.00	142.30	70.70	113.90	116.90	301.90	130.00	114.90	116.30	119.50	113.40	

26 MAY 2003

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

26 MAY 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	LOWER GRANITE	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	LOWER GRANITE	LITTLE GOOSE
1	1.80	0.00	98.70	105.30	103.60	101.70	145.00	50.80	103.80	120.60	143.10	33.50	109.70	114.50	
2	1.50	0.00	99.40	105.20	103.40	101.60	142.40	50.00	103.70	120.50	140.80	32.90	109.40	114.40	
3	1.60	0.00	100.40	1.60	103.20	101.60	142.20	49.90	103.70	120.30	140.90	32.90	109.20	114.50	
4	1.50	0.00	104.50	105.50	103.00	101.50	142.30	49.90	103.60	120.70	148.70	32.90	109.00	114.70	
5	1.50	0.00	106.10	105.40	102.90	101.50	142.40	50.00	103.50	120.90	151.60	33.40	108.60	114.60	
6	1.50	0.00	106.80	105.50	102.90	101.40	144.70	50.80	103.20	120.70	148.90	32.60	108.50	114.50	
7	1.50	0.00	107.30	105.60	102.90	101.30	141.10	48.60	103.00	120.30	140.30	24.60	108.20	113.00	
8	1.50	0.00	107.60	105.70	103.00	101.40	140.30	48.00	102.80	120.30	136.80	20.60	108.10	111.50	
9	1.50	0.00	107.80	105.60	103.10	101.50	140.40	48.10	102.80	120.30	139.30	21.00	107.80	110.80	
10	1.50	0.00	108.10	106.00	103.40	101.70	140.30	48.10	102.80	120.30	136.80	20.60	107.60	110.60	
11	1.50	0.00	108.30	106.30	103.80	102.00	140.50	48.20	102.70	120.20	135.70	19.60	107.40	110.30	
12	1.50	0.00	108.70	106.80	104.10	102.30	142.70	48.90	102.60	120.30	126.60	10.70	107.30	108.70	
13	1.50	0.00	109.00	107.30	104.50	102.70	145.10	52.90	102.60	121.60	126.50	10.70	107.20	108.30	
14	1.50	0.00	109.10	107.40	104.80	103.10	146.20	53.80	102.60	121.80	130.30	10.90	107.00	108.00	
15	1.50	0.00	109.10	107.40	104.90	103.20	151.10	58.60	104.00	123.70	128.10	10.70	107.00	108.10	
16	1.50	0.00	108.90	107.50	105.30	103.50	152.20	59.40	103.70	123.50	126.70	10.70	107.10	108.00	
17	1.50	0.00	108.80	107.60	105.50	103.50	155.00	60.40	103.20	123.50	136.40	18.90	107.10	109.50	
18	1.50	0.00	108.50	107.70	105.60	103.50	152.30	59.30	103.30	123.90	144.10	26.00	106.90	111.40	
19	1.50	0.00	108.10	107.60	105.50	103.30	152.40	59.20	103.30	123.40	150.70	34.90	106.90	114.50	
20	1.50	0.00	107.80	107.50	105.40	103.20	155.50	59.20	103.10	124.00	150.70	34.80	106.70	114.90	
21	1.50	0.00	107.40	107.40	105.10	103.00	147.90	59.10	102.80	123.40	150.70	34.90	106.70	115.00	
22	1.50	0.00	106.90	107.20	104.90	102.80	154.90	60.10	102.60	123.40	153.00	35.50	106.70	115.20	
23	1.50	0.00	106.80	107.00	104.60	102.80	152.50	59.10	102.30	123.60	151.80	34.80	107.00	115.00	
24	1.50	0.00	106.60	106.80	104.40	102.80	152.00	59.10	102.20	123.50	150.40	34.80	107.10	115.10	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	MCNARY	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	PASCO	
1	140.80	23.90	112.70	117.00	70.70	113.60	117.00	303.90	129.80	114.70	116.00	119.40	112.80		
2	144.40	24.40	112.70	116.80	72.00	113.40	116.90	304.30	129.60	114.60	115.90	119.50	112.50		
3	141.90	23.90	112.20	116.60	70.10	113.10	116.90	303.80	129.00	114.50	115.40	119.40	112.30		
4	134.30	23.90	112.40	116.60	64.90	112.90	116.20	296.80	128.80	114.40	114.90	119.40	112.10		
5	138.50	24.00	113.40	116.40	63.80	112.50	116.20	296.40	128.80	114.20	114.90	119.40	111.80		
6	138.60	23.90	113.10	116.50	55.00	112.30	115.00	249.40	112.70	114.20	114.30	119.10	111.70		
7	138.80	24.00	113.60	116.70	54.90	112.30	115.40	172.90	0.00	114.10	114.30	115.90	111.70		
8	147.90	24.40	113.10	116.80	55.90	112.20	115.40	174.70	0.00	114.10	114.10	113.20	111.60		
9	145.30	23.90	112.70	116.90	54.90	112.20	115.30	173.70	0.00	113.50	113.90	112.50	111.50		
10	148.00	24.00	112.00	116.80	54.90	112.20	115.40	173.00	0.00	113.90	114.30	112.40	111.70		
11	149.00	27.20	111.40	118.40	54.90	112.10	115.50	171.90	0.00	114.70	113.90	112.20	111.80		
12	143.70	27.20	111.30	118.80	55.00	112.20	115.60	170.50	0.00	114.40	114.10	112.20	112.00		
13	127.50	27.20	110.90	119.10	53.30	112.40	115.60	171.20	1.50	114.50	114.40	112.60	112.10		
14	123.60	27.70	110.90	119.60	45.70	112.50	115.00	213.30	40.10	115.00	114.30	112.80	112.30		
15	121.40	27.20	110.80	119.80	44.80	112.50	114.90	214.10	40.40	114.70	114.10	113.80	112.50		
16	121.00	27.20	110.90	119.70	44.80	112.50	115.10	246.30	71.80	115.00	113.10	114.30	112.30		
17	124.40	27.20	110.80	119.60	44.70	112.50	114.80	249.90	75.00	115.50	113.40	114.90	112.20		
18	132.10	20.50	110.90	118.80	47.30	112.30	114.60	255.20	80.70	115.90	113.00	114.80	112.10		
19	139.90	26.70	111.10	119.30	48.70	112.20	118.90	303.40	129.40	115.80	112.80	118.50	112.00		
20	151.40	27.20	111.40	119.20	101.50	112.00	119.40	303.60	129.30	115.60	112.80	119.10	111.90		
21	149.50	26.70	111.60	118.90	99.60	111.70	119.40	304.40	129.20	112.90	113.10	119.00	111.70		
22	150.70	26.70	111.90	118.90	99.90	111.70	119.40	303.00	128.70	112.60	113.00	119.10	111.50		
23	149.00	26.70	111.90	118.70	100.00	111.60	119.40	302.90	128.60	112.40	112.60	119.20	111.60		
24	150.60	26.70	111.90	118.60	100.00	111.30	119.80	300.90	128.50	112.20	112.40	119.00	111.60		

27 MAY 2003

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

27 MAY 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	LOWER GRANITE	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.		
1	1.50	0.00	106.60	106.80	104.20	102.70	151.90	59.00	102.20	123.70	151.50	34.80	107.30	115.00	
2	1.50	0.00	106.70	106.60	103.90	102.60	151.80	59.10	102.20	123.50	153.30	34.80	107.50	115.10	
3	1.50	0.00	106.70	106.60	103.50	102.50	154.90	60.00	102.10	123.50	154.10	35.40	107.70	115.20	
4	1.50	0.00	106.70	106.50	103.30	102.30	152.30	59.00	102.10	123.60	152.00	34.80	107.90	115.20	
5	1.50	0.00	106.70	106.60	103.10	102.30	152.80	59.60	102.10	124.10	150.30	34.70	108.10	115.20	
6	1.50	0.00	106.50	106.50	103.10	102.10	158.70	63.80	102.10	124.70	149.90	34.70	108.60	115.40	
7	1.50	0.00	106.70	106.60	103.00	102.00	156.10	62.40	102.10	121.50	154.10	35.40	109.10	115.50	
8	1.50	0.00	106.80	106.70	103.10	101.90	133.60	40.40	102.20	117.90	140.90	24.80	109.10	113.20	
9	1.50	0.00	107.30	107.00	103.30	102.10	137.90	41.20	102.30	117.60	136.30	20.30	109.40	111.60	
10	1.50	0.00	107.60	107.30	103.70	102.40	133.40	40.60	102.60	117.50	136.30	20.30	109.90	111.30	
11	1.50	0.00	108.20	107.50	104.20	102.80	153.70	61.00	102.90	126.20	137.50	21.90	110.30	111.30	
12	1.50	0.00	108.90	107.90	104.50	103.10	163.40	70.50	103.20	126.80	153.80	35.50	110.60	115.40	
13	1.50	0.00	109.30	108.20	105.00	103.50	163.10	70.60	103.40	126.90	151.70	36.00	111.80	116.00	
14	1.50	0.00	109.70	108.60	105.40	103.90	166.30	71.80	104.40	127.10	162.70	44.70	112.10	117.90	
15	1.50	0.00	109.60	108.80	105.80	104.20	164.10	70.50	105.70	127.00	161.20	44.70	113.60	118.20	
16	1.50	0.00	109.70	109.00	106.20	104.50	165.70	71.00	104.90	125.20	164.00	45.50	113.70	118.30	
17	1.50	0.00	109.60	109.00	106.60	104.60	166.80	71.30	105.50	126.50	161.20	44.60	115.00	118.30	
18	1.50	0.00	109.30	109.10	106.60	104.70	159.50	64.60	106.70	127.30	161.10	44.70	115.80	118.40	
19	1.50	0.00	108.90	108.90	106.60	104.40	157.60	64.50	105.90	127.30	162.70	44.70	115.60	118.30	
20	1.50	0.00	108.50	108.80	106.30	104.40	160.30	65.60	106.10	127.30	164.10	45.40	115.80	118.50	
21	1.50	0.00	108.00	108.70	106.10	104.10	157.50	64.40	105.60	127.50	162.60	44.60	115.20	118.30	
22	1.50	0.00	107.70	108.40	105.80	103.90	157.60	64.50	105.50	127.50	160.20	43.60	115.30	118.50	
23	1.50	0.00	107.60	108.30	105.50	103.80	153.00	60.00	105.40	126.50	153.30	36.80	115.60	117.10	
24	1.50	0.00	107.60	108.10	105.20	103.70	151.70	58.90	105.50	126.50	155.60	37.40	115.90	117.00	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB	WA TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB	GAS %SAT	
1	150.60	26.70	112.00	118.40	147.50	100.10	111.30	119.70	128.50	111.70	112.50	119.00	111.80		
2	151.40	27.20	111.80	118.20	148.90	101.80	111.20	119.50	128.50	111.30	112.30	119.00	112.10		
3	149.10	26.70	111.80	118.30	146.50	99.70	111.30	119.40	128.50	111.30	112.00	119.00	112.10		
4	149.30	26.70	111.70	118.30	146.30	99.60	111.30	119.50	128.50	111.20	111.80	118.90	112.20		
5	149.40	26.70	111.70	118.10	149.90	97.90	111.20	119.70	128.50	111.10	111.80	119.00	112.20		
6	149.00	26.70	111.30	118.00	156.90	85.20	111.30	118.40	124.90	110.30	111.50	118.80	112.10		
7	149.30	26.70	110.80	117.90	159.10	85.00	111.20	118.50	100.10	110.40	111.40	117.70	112.10		
8	150.50	26.70	110.60	117.90	160.30	85.00	111.40	118.60	100.00	110.50	111.40	117.40	112.20		
9	151.50	27.20	110.30	118.40	162.70	86.40	112.10	118.70	100.10	111.20	111.30	117.40	112.30		
10	148.50	26.70	110.60	118.90	157.90	84.90	112.60	118.80	100.10	111.50	111.40	117.40	112.70		
11	139.50	26.70	109.90	119.00	158.00	84.70	112.10	119.00	100.10	112.10	111.60	117.50	113.30		
12	148.70	26.70	108.90	119.60	166.60	84.60	112.30	118.80	100.10	113.90	111.70	117.60	114.00		
13	146.00	26.70	108.60	119.60	160.30	84.60	112.90	119.10	100.10	114.20	112.30	117.80	114.60		
14	151.90	27.20	108.10	119.70	161.00	86.10	113.90	119.20	101.80	113.00	113.40	117.70	115.00		
15	150.50	28.50	107.70	120.50	157.70	84.40	113.30	118.90	119.30	114.40	113.10	118.00	115.00		
16	156.10	33.30	108.70	121.40	158.00	84.40	112.90	118.90	120.10	114.70	114.50	118.20	115.00		
17	158.90	36.20	109.10	122.50	158.20	84.60	113.60	119.10	120.10	114.80	115.90	118.20	115.20		
18	161.10	38.40	110.40	123.40	158.00	84.50	113.20	118.80	120.10	113.20	115.10	118.40	115.20		
19	161.50	38.60	110.90	123.10	164.50	101.10	113.50	120.20	129.00	112.10	115.30	119.20	115.30		
20	174.40	47.90	111.10	122.80	165.60	99.60	113.30	120.10	130.00	112.10	115.00	119.50	115.40		
21	148.40	26.40	111.50	122.00	166.40	99.80	113.30	120.30	130.50	112.30	114.20	119.60	115.20		
22	161.00	38.60	111.90	122.50	167.60	99.40	113.10	120.50	130.40	112.00	113.30	119.50	114.90		
23	162.30	38.30	112.20	122.10	166.00	99.30	113.30	120.20	130.00	112.10	113.10	119.40	114.90		
24	152.30	30.10	112.50	120.30	165.70	99.40	113.40	120.40	130.00	112.10	113.20	119.50	114.80		

28 MAY 2003

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

28 MAY 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	LOWER GRANITE	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	LOWER GRANITE	LITTLE GOOSE
1	1.50	0.00	107.80	108.10	104.90	103.60	158.00	60.00	105.60	126.50	140.50	36.80	116.10	116.70	
2	1.50	0.00	108.00	108.00	104.50	103.50	151.60	58.90	105.70	126.40	137.80	36.90	116.30	116.70	
3	1.50	0.00	108.00	107.90	104.20	103.50	153.10	60.30	106.00	127.20	137.80	36.90	116.50	116.70	
4	1.50	0.00	108.30	107.90	103.80	103.40	157.50	64.40	106.00	127.80	137.50	36.90	116.80	116.70	
5	1.50	0.00	108.10	107.80	103.60	103.40	157.80	64.50	106.00	127.70	140.40	37.70	117.00	116.80	
6	1.50	0.00	108.00	107.90	103.40	103.20	160.60	65.50	105.90	127.70	146.80	37.00	116.90	116.90	
7	1.50	0.00	108.30	108.00	103.50	103.10	147.40	54.10	106.30	120.40	146.40	31.30	117.00	115.90	
8	1.50	0.00	107.70	108.20	103.50	103.20	133.40	40.40	106.40	118.90	145.90	30.40	117.10	115.70	
9	1.50	0.00	106.80	108.20	103.80	103.20	133.50	40.50	106.60	118.50	149.00	30.90	117.70	115.80	
10	1.60	0.00	106.70	108.60	104.20	103.30	133.60	40.50	106.90	118.50	146.50	30.30	117.40	115.70	
11	1.60	0.00	106.80	108.60	104.60	103.50	159.00	63.90	107.50	122.50	146.70	30.30	117.80	115.70	
12	1.60	0.00	106.50	108.60	105.00	103.50	166.30	70.90	106.90	127.10	146.70	30.50	117.90	115.70	
13	1.60	0.00	105.70	108.80	105.20	103.70	164.20	69.20	107.00	128.00	160.70	44.90	118.10	118.80	
14	1.60	0.00	105.20	109.10	105.60	103.90	164.20	69.20	107.20	128.00	166.00	45.60	118.40	119.50	
15	1.60	0.00	105.00	109.40	105.90	104.20	163.20	69.90	107.40	127.40	161.20	44.80	118.50	119.50	
16	1.60	0.00	104.90	109.30	106.10	104.20	163.40	69.90	107.30	127.60	162.90	44.80	118.40	119.50	
17	1.60	0.00	104.60	109.40	106.30	104.10	163.10	69.50	108.20	127.50	160.70	44.80	118.00	119.30	
18	1.50	0.00	104.00	109.30	106.30	104.10	165.00	69.60	107.80	127.50	164.20	45.60	118.00	119.50	
19	1.60	0.00	103.90	109.20	106.30	104.10	163.00	69.50	108.40	127.50	161.20	44.80	117.90	119.30	
20	1.60	0.00	103.80	109.00	106.10	103.90	162.90	69.50	108.30	127.50	161.30	44.70	118.20	119.30	
21	1.50	0.00	103.50	108.60	105.80	103.70	165.80	70.70	108.20	127.60	163.00	44.80	118.70	119.50	
22	1.60	0.00	103.30	108.50	105.40	103.50	162.50	69.10	108.00	127.30	160.80	44.60	119.10	119.30	
23	1.50	0.00	103.10	108.40	105.10	103.40	159.10	65.80	107.70	126.50	155.80	37.50	119.20	117.80	
24	1.60	0.00	103.10	108.30	104.80	103.30	155.60	65.90	107.60	126.60	146.50	36.80	119.50	117.40	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	MCNARY	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	PASCO	
1	150.30	28.50	112.80	120.00	155.70	101.20	113.70	120.10	130.00	112.30	113.10	119.40	114.80		
2	139.90	29.00	112.90	119.90	139.50	99.50	113.80	119.50	130.00	112.20	113.00	119.30	114.90		
3	136.60	28.40	112.90	119.90	137.00	99.40	113.90	119.20	130.00	112.20	113.10	119.40	115.00		
4	136.90	28.50	113.20	120.10	137.00	99.50	114.00	119.00	130.00	112.40	112.80	119.40	114.90		
5	138.80	28.50	113.50	120.00	134.60	96.30	114.00	119.20	130.00	112.30	112.60	119.20	115.00		
6	137.00	28.50	113.50	119.70	138.90	70.90	113.90	116.90	121.60	112.20	112.50	119.20	115.00		
7	139.20	28.80	113.30	119.90	142.00	72.10	114.00	116.80	122.70	100.10	112.20	112.40	117.30		
8	137.10	28.30	113.10	120.00	141.90	71.10	114.00	117.00	124.40	100.20	112.20	112.40	117.00		
9	147.90	28.40	113.00	120.40	156.50	79.70	113.90	118.20	126.20	112.30	112.30	118.70	115.30		
10	146.80	28.30	112.80	120.60	157.30	79.80	113.90	118.50	119.60	112.40	112.50	118.20	115.40		
11	148.40	28.30	112.90	120.60	158.90	79.80	113.60	118.60	119.70	112.30	112.70	118.20	115.70		
12	151.10	28.40	113.50	120.90	160.60	79.80	113.50	118.50	119.60	112.40	113.00	118.30	115.80		
13	152.40	28.30	114.30	121.50	162.00	81.20	113.80	118.80	119.70	112.80	113.80	118.30	115.90		
14	164.80	38.40	115.30	123.10	160.80	79.80	113.80	118.80	119.80	112.40	114.20	118.30	116.00		
15	160.60	38.90	116.50	124.20	159.00	79.70	113.70	118.60	130.10	112.60	114.40	119.00	116.10		
16	162.50	39.50	117.20	124.70	159.30	79.90	113.80	118.60	130.10	112.80	114.30	119.40	115.90		
17	159.70	39.40	117.60	124.70	160.40	79.70	114.00	118.60	130.10	113.10	114.30	119.50	115.80		
18	161.70	39.40	117.80	124.80	162.60	83.20	114.20	118.50	130.10	113.50	114.50	119.40	115.70		
19	164.80	40.10	117.90	124.90	168.80	86.40	114.10	119.00	130.10	113.20	114.40	119.40	115.40		
20	163.60	39.40	117.70	124.30	164.40	84.80	114.00	118.80	130.10	113.50	114.50	119.30	115.20		
21	156.00	33.40	117.30	123.50	163.20	83.60	113.80	118.80	130.50	113.10	114.50	119.20	115.00		
22	162.70	40.30	116.70	123.90	163.90	83.20	113.50	119.00	130.40	113.20	114.50	119.30	114.60		
23	151.80	30.00	116.60	121.40	162.90	83.30	113.50	118.90	130.10	113.10	114.20	119.30	114.20		
24	151.20	29.80	116.60	121.00	160.70	83.20	113.50	118.90	130.10	113.00	114.80	119.30	114.00		

29 MAY 2003

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

29 MAY 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.			
1	1.70	0.00	103.40	108.20	104.40	103.10	159.40	65.80	107.60	126.30	139.20	36.90	119.60	117.20	
2	1.60	0.00	103.30	108.00	104.00	103.00	161.00	65.80	107.50	126.40	152.20	36.90	119.90	117.60	
3	1.60	0.00	102.90	108.10	103.70	103.00	162.20	67.00	107.40	126.30	156.90	38.70	120.10	117.70	
4	1.60	0.00	103.00	108.00	103.40	102.80	159.10	65.70	107.40	126.40	160.90	44.90	120.20	118.80	
5	1.60	0.00	103.80	107.90	103.20	102.50	159.40	65.80	107.10	126.20	161.00	44.90	120.30	119.10	
6	1.60	0.00	103.80	107.70	103.20	102.30	163.30	69.60	107.00	124.30	160.80	44.80	120.20	119.20	
7	1.60	0.00	104.10	107.60	103.20	102.20	139.80	46.40	107.00	118.00	155.20	37.20	120.10	118.70	
8	1.60	0.00	104.20	107.60	103.60	102.20	155.80	60.50	107.00	119.50	139.00	22.70	120.10	116.10	
9	1.60	0.00	104.50	107.80	103.90	102.40	137.50	44.00	107.00	118.20	140.50	22.70	120.20	115.90	
10	1.60	0.00	105.20	108.10	104.30	102.60	160.90	65.30	107.20	122.20	138.40	22.70	120.20	115.90	
11	1.60	0.00	105.70	108.40	104.80	102.90	177.50	83.60	108.40	126.90	153.60	39.50	120.30	118.30	
12	1.60	0.00	105.90	108.80	105.40	103.30	182.70	90.00	107.70	127.30	169.90	54.00	120.50	120.20	
13	1.60	0.00	106.00	107.70	106.00	103.60	182.40	90.00	108.60	127.40	182.50	65.10	121.30	122.40	
14	1.60	0.00	106.00	109.50	106.50	104.00	199.10	102.00	108.10	129.10	183.30	65.10	120.70	122.60	
15	1.60	0.00	105.90	109.70	106.80	104.30	194.50	100.40	108.50	129.40	186.50	70.30	119.90	123.20	
16	1.60	0.00	105.70	110.00	107.10	104.40	194.20	100.10	108.80	129.70	197.10	78.60	119.80	124.00	
17	1.60	0.00	105.50	109.90	107.20	104.60	183.70	89.70	108.60	126.20	193.70	77.20	119.50	124.00	
18	1.60	0.00	103.30	110.10	107.00	104.60	172.60	78.70	108.30	126.00	194.50	77.20	120.80	124.00	
19	1.60	0.00	104.40	109.90	107.00	104.60	172.70	78.80	108.40	125.80	193.40	77.00	119.70	123.80	
20	1.60	0.00	105.20	109.90	106.90	104.50	186.00	90.20	108.00	127.60	196.70	78.20	121.20	123.90	
21	1.60	0.00	104.90	109.60	106.60	104.40	183.60	89.60	107.70	127.70	193.50	76.80	120.80	123.80	
22	1.60	0.00	104.50	109.50	106.20	104.20	183.60	89.60	107.70	127.90	180.90	65.00	120.70	122.20	
23	1.60	0.00	104.00	109.60	105.90	104.10	182.50	88.70	107.50	127.30	170.60	54.80	120.80	120.70	
24	1.60	0.00	103.80	109.50	105.40	104.00	177.70	82.20	107.50	126.40	173.60	55.80	120.90	121.00	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT
1	152.00	29.30	116.50	120.60	167.30	84.80	113.50	119.00	130.10	113.10	114.80	119.30	113.90		
2	152.10	29.40	116.50	120.50	162.80	83.20	113.50	118.80	130.10	113.00	114.80	119.40	113.90		
3	151.70	29.30	116.50	120.20	150.20	75.10	113.40	117.60	130.10	113.80	114.60	119.30	113.70		
4	151.90	29.30	116.40	120.00	150.90	75.00	113.50	117.20	130.10	114.30	114.40	119.40	113.40		
5	153.40	29.30	116.30	119.80	149.40	75.10	113.30	117.20	130.10	112.80	114.50	119.50	113.30		
6	160.90	38.40	116.30	122.30	149.40	75.10	113.30	117.30	130.10	113.40	114.30	119.50	113.20		
7	161.60	39.10	116.30	122.50	162.70	82.60	113.40	118.70	130.10	114.40	114.20	118.70	113.00		
8	161.60	39.20	116.40	122.70	160.80	81.80	113.70	119.30	129.90	114.90	114.30	119.20	113.00		
9	158.10	32.30	116.50	120.40	160.80	81.80	114.30	119.40	129.40	115.90	114.20	120.00	113.20		
10	139.80	29.80	116.80	120.90	161.10	82.30	114.40	119.50	128.90	114.10	116.10	114.30	119.20		113.60
11	127.70	29.70	117.50	121.20	162.10	82.00	114.60	119.90	130.30	116.00	114.30	121.40	114.10		
12	126.90	29.70	118.40	121.40	179.90	89.30	114.90	119.80	130.90	116.10	115.20	121.90	114.60		
13	129.70	32.90	118.40	121.60	160.80	71.10	115.50	118.40	136.40	116.50	115.70	122.00	115.00		
14	182.20	59.90	119.50	125.60	149.10	74.10	116.00	117.80	134.30	116.20	116.30	122.00	115.30		
15	188.70	64.40	119.30	127.60	150.70	75.40	116.00	117.50	136.20	117.40	116.40	116.60	122.90	115.20	
16	195.40	72.50	119.10	128.60	171.10	84.80	116.50	118.90	136.20	117.90	118.00	116.60	122.90	115.30	
17	204.00	82.40	121.20	129.50	181.50	89.60	117.80	119.90	135.70	117.80	117.90	116.70	123.00	115.30	
18	202.30	82.80	119.70	129.50	195.70	105.30	116.90	122.20	135.20	117.80	118.40	116.70	123.10	115.40	
19	203.80	82.90	120.30	129.20	200.10	108.10	116.80	123.00	135.40	117.80	118.00	116.70	122.80	115.40	
20	203.70	82.90	119.90	128.90	198.50	108.10	116.80	123.00	135.60	117.90	115.90	116.30	122.60	115.40	
21	179.00	54.50	119.50	123.70	198.60	108.30	116.60	123.10	135.60	117.90	116.10	115.90	122.80	115.20	
22	167.60	45.00	119.30	123.80	201.60	108.10	116.50	123.10	135.30	117.90	116.00	115.70	123.00	115.10	
23	156.80	36.10	119.20	121.30	191.80	99.70	116.80	121.50	135.50	117.90	115.30	115.50	122.60	115.40	
24	186.90	65.90	119.80	127.00	169.80	85.30	116.80	119.50	135.60	117.90	115.60	115.30	122.80	115.50	

30 MAY 2003

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

30 MAY 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	LOWER GRANITE	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.		
1	1.60	0.00	104.10	109.70	105.10	103.90	179.50	83.80	107.60	125.80	171.10	54.90	120.90	120.60	
2	1.60	0.00	104.00	109.40	104.60	103.80	176.40	82.40	107.40	125.40	170.70	54.90	120.90	120.70	
3	1.60	0.00	104.00	109.50	104.40	103.90	176.30	82.30	107.50	125.90	170.90	54.90	120.80	120.60	
4	1.60	0.00	103.80	109.60	104.20	103.60	176.40	82.80	107.40	126.10	169.80	55.00	120.80	120.50	
5	1.60	0.00	104.00	109.60	103.90	103.40	180.20	86.10	107.40	127.20	175.50	57.40	120.90	120.70	
6	1.60	0.00	103.80	109.70	103.90	103.20	180.20	86.10	107.30	126.70	181.10	63.90	120.90	121.90	
7	1.60	0.00	104.00	109.60	104.00	102.90	184.10	90.00	107.20	129.60	179.60	64.00	121.00	122.00	
8	1.60	0.00	104.40	109.70	104.10	102.80	162.00	67.60	107.30	129.00	179.30	64.00	120.90	122.20	
9	1.50	0.00	105.10	109.70	104.30	102.70	183.30	90.10	107.40	129.50	177.50	59.80	120.90	121.40	
10	1.50	0.00	105.30	109.60	104.50	102.60	183.50	90.10	107.40	130.00	164.70	49.50	120.70	119.80	
11	1.50	0.00	105.20	109.40	104.50	102.30	183.30	90.20	107.40	129.90	167.70	52.60	120.40	120.60	
12	1.50	0.00	105.60	109.50	104.60	102.10	183.60	90.20	107.40	129.90	174.20	59.20	119.90	121.40	
13	1.50	0.00	105.70	109.70	104.80	102.40	188.80	91.90	107.30	129.80	175.60	59.20	119.80	121.50	
14	1.50	0.00	106.20	109.70	104.90	102.40	185.40	90.30	107.20	129.70	179.30	62.00	119.80	121.60	
15	1.50	0.00	106.30	109.90	105.20	102.60	183.50	90.30	107.20	129.90	185.20	69.60	120.10	123.00	
16	1.50	0.00	106.60	109.90	105.50	102.70	185.70	92.60	107.40	131.10	186.80	69.60	120.60	122.90	
17	1.50	0.00	106.60	109.70	105.60	102.70	192.60	99.20	107.50	131.20	187.80	72.30	120.80	123.50	
18	1.50	0.00	106.30	110.10	105.60	102.80	198.50	103.00	107.30	132.00	199.20	81.50	121.10	124.40	
19	1.50	0.00	106.30	110.00	105.60	102.80	198.50	104.50	107.30	132.10	196.30	80.10	121.20	124.60	
20	1.50	0.00	106.10	109.70	105.50	102.90	198.50	104.50	107.30	132.00	196.10	80.10	121.10	124.70	
21	1.50	0.00	105.90	109.70	105.30	102.80	198.40	104.40	107.20	132.20	195.60	80.00	121.10	124.50	
22	1.50	0.00	105.70	109.80	104.90	102.70	199.40	103.70	107.00	131.60	193.10	78.20	120.90	124.20	
23	1.50	0.00	105.70	109.60	104.70	102.80	196.40	100.90	107.00	131.60	187.20	70.80	120.80	123.00	
24	1.50	0.00	105.70	109.70	104.50	102.60	193.20	99.10	107.00	131.60	184.00	69.50	120.70	122.70	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB	MCNARY	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	PASCO	
1	187.70	66.30	119.80	127.30	85.20	117.00	119.20	356.80	179.50	115.20	115.10	122.80	115.50		
2	190.70	67.60	120.00	126.70	85.30	117.10	119.40	355.90	179.50	115.40	115.00	122.90	115.50		
3	187.50	66.30	119.90	126.90	85.50	117.10	119.30	356.60	179.50	115.40	115.10	123.10	115.50		
4	181.20	58.40	119.80	124.50	92.40	117.10	119.30	356.30	179.50	115.00	114.90	123.10	115.50		
5	167.60	46.50	120.10	123.20	100.20	117.30	121.30	356.40	179.50	115.00	114.80	123.20	115.60		
6	167.80	46.60	120.60	123.20	100.00	117.40	121.20	356.40	179.50	115.00	114.90	123.10	115.30		
7	169.00	47.90	121.70	123.10	100.00	117.60	121.60	356.60	179.50	114.90	114.60	123.00	115.10		
8	186.10	62.80	122.10	124.20	101.50	118.10	121.50	356.40	179.60	115.20	114.60	123.10	114.70		
9	182.90	61.80	122.00	124.30	99.40	118.30	121.10	356.30	179.60	114.90	114.30	122.90	114.40		
10	179.30	56.90	123.20	124.00	95.50	118.40	121.20	355.10	179.60	114.80	114.30	122.90	114.10		
11	167.00	45.50	123.20	123.00	80.90	118.40	119.60	356.50	179.60	114.70	114.40	123.00	114.10		
12	162.20	39.60	124.70	123.10	80.90	118.60	119.60	347.50	172.00	114.60	114.60	122.70	114.20		
13	160.40	39.90	124.80	123.10	73.80	119.00	119.30	345.70	170.60	114.80	114.80	122.60	114.30		
14	165.50	42.80	124.20	122.90	69.40	119.00	117.80	346.40	170.60	115.30	115.10	122.60	114.70		
15	175.90	54.80	124.10	125.50	69.50	119.20	117.90	345.90	170.60	115.00	115.40	122.80	115.00		
16	193.40	72.20	124.30	125.80	72.10	119.10	117.80	346.70	170.60	114.70	115.30	122.70	115.20		
17	202.90	80.50	124.40	126.90	83.70	119.00	118.70	346.90	170.50	114.60	115.10	122.50	115.50		
18	171.40	50.40	123.70	125.40	104.20	119.20	121.10	346.80	170.50	114.40	115.10	122.60	115.60		
19	175.10	52.30	122.90	125.10	109.10	119.00	123.20	346.20	170.50	114.40	114.80	122.20	115.30		
20	178.40	57.70	122.40	125.10	109.00	118.90	123.20	346.40	170.60	114.20	114.60	122.40	114.80		
21	197.80	76.70	122.00	126.10	108.60	118.90	123.10	352.60	176.50	114.20	114.40	122.50	114.40		
22	200.20	79.30	121.80	127.10	103.50	118.70	123.20	356.80	181.10	113.90	114.20	122.80	114.00		
23	200.40	79.50	121.20	127.30	101.20	118.60	121.10	356.90	181.30	113.80	114.00	122.70	113.40		
24	190.70	68.60	121.60	126.40	99.60	118.50	121.10	357.10	181.20	113.70	113.90	122.90	112.70		

31 MAY 2003

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

31 MAY 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	LOWER GRANITE	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.		
1	1.50	0.00	105.70	109.50	104.50	102.80	193.20	99.20	107.00	131.60	185.70	69.60	120.50	122.70	
2	1.50	0.00	105.90	109.40	104.30	0.00	196.00	99.10	107.00	131.30	183.80	69.50	120.50	122.70	
3	1.50	0.00	105.90	109.60	103.90	0.00	192.10	99.10	106.80	131.50	187.60	70.80	120.30	122.80	
4	1.50	0.00	106.00	109.70	103.80	0.00	194.10	101.40	106.80	131.70	184.50	69.60	120.00	122.70	
5	1.50	0.00	105.90	109.80	103.80	0.00	212.30	116.90	106.70	132.70	186.20	71.40	119.70	122.70	
6	1.50	0.00	105.70	109.90	103.80	0.00	208.60	114.80	106.50	133.10	200.70	85.60	119.50	124.50	
7	1.50	0.00	105.70	109.70	103.70	0.00	206.70	114.50	106.50	132.70	198.90	85.80	119.40	124.60	
8	1.50	0.00	105.90	109.90	103.80	0.00	193.20	99.50	106.50	126.60	204.50	87.30	119.40	124.80	
9	1.50	0.00	106.00	110.10	104.00	0.00	200.50	106.90	106.40	131.30	201.80	86.60	119.50	124.80	
10	1.50	0.00	106.10	110.10	104.20	0.00	192.20	98.80	106.40	131.10	212.30	95.50	119.70	125.80	
11	1.50	0.00	106.50	110.60	104.70	0.00	192.10	98.90	106.40	131.20	210.30	95.50	120.50	125.70	
12	1.50	0.00	106.90	110.90	105.20	0.00	199.70	105.30	106.40	132.30	211.50	95.30	121.00	125.90	
13	1.50	0.00	107.30	111.10	105.50	0.00	211.70	118.20	106.80	133.30	211.30	93.10	121.20	125.20	
14	1.50	0.00	107.20	111.50	105.60	0.00	223.10	129.00	106.80	135.00	200.40	83.50	121.80	124.80	
15	1.50	0.00	107.50	111.50	105.90	0.00	240.00	145.80	106.80	136.20	198.60	83.60	122.10	124.60	
16	1.50	0.00	107.50	112.10	106.00	0.00	232.40	138.10	106.80	134.50	215.00	102.40	122.30	126.60	
17	1.50	0.00	107.20	112.40	106.00	0.00	219.10	125.80	106.80	133.40	237.30	122.00	122.60	128.00	
18	1.50	0.00	107.40	112.30	106.10	0.00	217.20	121.60	106.90	132.70	234.90	119.80	123.00	128.30	
19	1.50	0.00	106.80	112.00	106.20	0.00	213.50	119.40	107.00	133.80	231.80	116.30	123.20	128.00	
20	1.50	0.00	106.50	113.70	105.90	0.00	212.80	118.80	107.00	133.50	214.20	98.40	123.40	127.10	
21	1.50	0.00	106.10	114.40	105.80	0.00	208.20	114.50	107.00	133.00	213.80	95.80	123.80	126.40	
22	1.50	0.00	105.80	111.60	105.40	0.00	208.20	115.40	107.00	132.90	209.40	93.90	124.00	126.20	
23	1.50	0.00	105.70	111.40	105.10	0.00	212.50	119.80	107.00	132.70	208.60	93.90	124.20	126.10	
24	1.50	0.00	105.60	111.30	104.90	0.00	217.50	122.00	107.00	133.20	210.00	93.90	124.20	125.90	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	MCNARY	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	PASCO	
1	183.10	64.20	121.80	126.00	183.20	99.80	118.50	121.20	181.30	113.70	114.00	123.10	112.30		
2	183.30	64.20	121.80	126.10	183.10	99.70	118.40	121.30	181.30	113.70	113.90	123.00	111.70		
3	183.60	64.20	121.40	126.10	183.20	99.70	118.40	121.30	181.30	113.90	114.10	122.70	111.30		
4	185.20	64.20	121.00	125.90	182.80	99.70	118.40	121.40	181.30	113.70	113.90	122.80	110.90		
5	184.00	64.30	120.60	125.60	184.60	99.80	118.40	121.20	181.30	113.60	113.70	123.00	110.80		
6	196.90	74.90	120.50	125.30	188.00	99.80	118.30	121.20	165.70	114.00	113.70	122.80	110.70		
7	194.90	77.50	120.80	126.20	192.20	101.80	118.20	121.30	166.40	113.90	113.60	122.40	110.30		
8	205.40	85.20	121.10	126.80	202.90	109.30	118.30	123.20	180.90	113.80	113.60	122.90	110.30		
9	205.60	85.20	121.40	126.80	199.80	109.40	118.60	123.20	158.60	113.90	113.60	120.90	110.40		
10	205.60	85.10	122.30	127.10	209.40	118.80	118.80	125.00	181.00	113.90	113.60	122.60	110.60		
11	205.30	85.20	123.00	127.50	210.30	119.30	119.00	125.40	181.00	113.80	113.60	122.90	111.10		
12	211.10	89.00	123.50	127.90	221.20	128.80	119.10	126.20	181.20	113.80	113.80	123.00	112.00		
13	214.70	94.20	124.10	128.80	222.40	130.20	119.30	126.30	181.10	114.40	113.90	123.10	113.10		
14	215.90	94.10	123.70	129.10	221.20	130.30	119.50	126.70	181.10	114.90	114.00	-999.00	113.90		
15	214.20	93.80	124.40	129.60	224.10	132.20	119.70	126.60	181.20	114.70	114.10	-999.00	114.60		
16	213.70	93.60	124.20	130.10	219.80	129.90	119.90	126.60	181.10	114.70	114.00	-999.00	115.30		
17	212.10	90.60	123.90	128.50	219.90	129.90	119.90	126.30	181.10	114.70	114.10	-999.00	115.60		
18	225.00	103.00	124.20	130.80	221.90	129.70	120.00	126.20	181.10	114.10	114.00	122.60	115.70		
19	159.60	42.30	124.00	124.70	215.20	123.00	120.00	126.00	181.00	113.90	113.90	122.60	115.90		
20	165.30	49.20	123.90	124.00	195.10	103.70	119.80	123.10	172.10	113.40	113.70	122.60	115.50		
21	221.00	101.60	124.00	129.50	181.70	90.80	119.70	120.10	170.50	113.20	113.30	122.50	115.00		
22	232.60	109.90	124.20	129.20	179.50	90.60	119.60	119.80	170.40	112.80	112.80	122.10	114.60		
23	234.90	111.40	125.40	129.70	199.80	109.40	119.80	122.60	170.40	113.00	112.50	122.00	114.20		
24	229.70	108.90	125.80	129.40	220.20	130.00	119.80	125.70	170.40	112.50	112.20	122.00	113.80		

01 JUN 2003

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

01 JUN 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	LOWER GRANITE	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.		
1	1.50	0.00	105.60	111.10	104.60	0.00	213.90	119.90	106.80	133.20	209.60	94.10	124.30	125.90	
2	1.50	0.00	-999.00	110.80	104.20	0.00	213.80	119.70	106.80	133.10	213.20	95.60	124.10	126.00	
3	1.50	0.00	-999.00	111.00	103.90	0.00	213.80	119.60	106.80	132.60	209.40	93.90	124.00	125.70	
4	1.50	0.00	-999.00	110.90	103.60	0.00	209.80	115.80	106.70	132.40	209.10	94.00	124.00	125.70	
5	1.50	0.00	-999.00	110.60	103.20	0.00	203.40	109.20	106.80	132.50	208.90	94.00	124.30	125.70	
6	1.50	0.00	-999.00	110.40	103.00	0.00	206.80	111.00	106.80	132.60	210.70	93.70	124.50	125.70	
7	1.50	0.00	-999.00	110.60	102.90	0.00	203.10	109.10	107.00	132.50	199.70	85.40	125.10	124.80	
8	1.50	0.00	-999.00	110.60	103.10	0.00	188.70	94.60	107.30	131.70	199.70	85.50	125.20	125.00	
9	1.50	0.00	-999.00	110.60	103.40	0.00	197.10	102.90	107.40	130.00	198.70	85.30	125.10	124.70	
10	1.50	0.00	-999.00	110.80	103.70	0.00	189.20	95.20	107.30	130.90	186.10	71.60	124.90	123.00	
11	1.50	0.00	-999.00	111.10	104.00	0.00	189.90	95.90	107.40	130.30	182.90	69.60	125.10	123.00	
12	1.50	0.00	-999.00	111.30	104.50	0.00	187.30	91.60	107.70	130.00	182.50	69.60	125.40	123.10	
13	1.50	0.00	-999.00	111.40	104.90	0.00	183.90	90.00	107.90	130.20	184.60	69.60	125.90	123.40	
14	1.50	0.00	-999.00	111.50	105.30	0.00	183.90	90.00	107.90	130.30	183.20	69.60	126.30	123.20	
15	1.50	0.00	-999.00	111.70	105.60	0.00	184.20	90.10	108.20	130.10	186.10	70.90	126.40	123.30	
16	1.50	0.00	-999.00	111.70	106.00	0.00	184.20	90.20	108.30	130.30	184.20	69.60	126.70	123.40	
17	1.50	0.00	-999.00	111.70	106.20	0.00	187.30	91.70	108.70	130.30	177.50	64.90	126.70	122.40	
18	1.50	0.00	-999.00	111.50	106.30	0.00	183.80	90.00	108.60	130.20	167.80	54.90	126.90	121.20	
19	1.50	0.00	-999.00	111.30	106.20	0.00	184.10	90.00	108.70	130.10	170.60	56.00	127.30	121.00	
20	1.50	0.00	-999.00	110.90	106.00	0.00	184.20	90.10	108.70	130.00	167.60	55.00	127.40	121.10	
21	1.50	0.00	-999.00	110.60	105.60	0.00	174.90	80.80	108.60	130.10	167.20	55.10	127.20	121.00	
22	1.50	0.00	-999.00	110.40	105.50	0.00	173.30	79.30	108.60	129.70	167.00	55.20	127.20	121.10	
23	1.50	0.00	-999.00	110.20	105.20	0.00	171.40	77.00	108.60	130.10	166.90	55.30	127.30	121.10	
24	1.50	0.00	-999.00	110.10	105.00	0.00	166.40	71.60	108.40	126.90	171.90	56.30	127.10	121.20	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	MCNARY	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	MCNARY	PASCO
1	229.40	108.80	125.90	129.00	131.50	119.90	126.00	336.60	161.70	112.20	111.90	121.40	113.60		
2	229.40	108.60	126.70	128.90	139.00	120.20	126.90	336.60	161.70	112.10	111.80	121.40	113.30		
3	229.50	108.60	127.00	128.70	139.60	120.60	126.80	337.50	161.00	112.00	111.60	121.40	113.20		
4	228.40	106.00	126.70	128.10	139.60	120.90	126.50	337.40	160.70	111.90	111.50	121.00	113.10		
5	208.40	90.00	126.20	126.30	136.40	121.00	126.80	327.20	151.00	112.00	111.50	120.70	112.80		
6	207.70	90.10	126.10	126.30	121.20	121.10	124.90	326.10	151.00	111.90	111.30	120.80	112.50		
7	207.80	90.20	126.80	126.10	119.10	121.30	125.20	325.80	151.00	111.70	111.30	120.70	112.40		
8	207.40	88.40	127.40	126.40	119.30	121.40	125.20	330.80	151.00	111.70	111.20	120.80	112.40		
9	199.00	80.10	128.10	126.70	119.30	121.60	125.00	327.70	151.10	111.80	111.20	120.70	112.50		
10	200.00	79.10	128.80	126.50	196.00	106.40	121.30	327.60	151.10	112.00	111.20	121.00	112.90		
11	185.60	64.60	129.00	125.30	214.80	115.90	121.40	327.50	151.10	112.20	111.40	121.20	113.30		
12	172.80	55.20	128.60	125.50	194.70	104.20	121.50	327.10	151.00	112.40	111.80	121.10	113.60		
13	175.90	58.30	128.30	125.50	197.10	106.10	121.90	326.70	151.00	113.50	112.20	121.20	114.10		
14	184.10	66.20	128.20	126.10	178.50	89.90	122.10	326.60	151.00	112.70	112.40	121.30	114.30		
15	185.60	67.30	128.40	126.60	179.30	89.50	122.60	326.50	151.00	113.00	112.70	121.20	114.20		
16	181.70	59.40	128.80	127.00	179.50	89.70	123.20	327.10	151.00	113.50	112.80	121.40	114.30		
17	161.60	43.80	128.40	124.90	176.70	88.90	123.30	316.60	141.00	114.50	113.20	121.10	114.20		
18	162.60	44.70	128.80	124.70	168.00	84.50	123.60	304.30	130.20	114.70	113.60	119.90	114.30		
19	162.80	44.90	128.70	124.10	169.10	84.60	123.60	304.30	130.20	115.10	113.70	119.80	114.30		
20	168.10	48.00	128.70	123.70	171.00	86.10	123.80	304.00	130.00	114.20	113.80	119.60	114.30		
21	170.10	48.30	128.70	123.50	170.00	84.80	124.00	303.20	129.50	114.40	113.90	119.60	114.00		
22	160.60	42.80	128.50	123.60	170.00	84.70	123.90	302.30	129.40	114.50	114.30	119.40	113.60		
23	160.20	42.80	128.50	123.50	168.40	84.60	123.80	298.60	125.90	115.10	114.40	119.60	113.30		
24	163.20	42.90	128.70	123.40	168.10	84.60	123.90	276.00	104.80	115.20	114.60	118.40	113.00		

02 JUN 2003

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

02 JUN 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	LOWER GRANITE	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.		
1	1.50	0.00	-999.00	110.00	104.50	0.00	164.00	70.20	108.40	126.60	171.70	61.00	127.20	122.30	
2	1.50	0.00	-999.00	109.70	104.10	0.00	164.20	70.30	108.40	126.50	171.10	60.10	127.10	122.10	
3	1.50	0.00	-999.00	109.70	103.80	0.00	164.00	70.20	108.30	126.30	170.80	59.70	127.10	121.90	
4	1.50	0.00	-999.00	109.50	103.40	0.00	173.00	79.10	108.30	128.30	171.00	59.60	127.20	122.10	
5	1.50	0.00	-999.00	109.30	103.00	0.00	172.90	79.50	108.00	128.10	174.20	60.70	127.10	121.90	
6	1.50	0.00	-999.00	109.20	102.80	0.00	173.00	79.30	108.00	128.70	171.50	59.60	126.90	122.10	
7	1.50	0.00	-999.00	109.00	102.60	0.00	169.10	74.60	108.00	128.00	170.20	59.60	126.90	121.80	
8	1.50	0.00	-999.00	109.00	102.50	0.00	170.60	76.60	108.20	127.50	172.20	59.60	126.90	122.00	
9	1.50	0.00	-999.00	109.00	102.80	0.00	163.80	70.10	108.20	125.20	175.60	60.60	127.00	122.10	
10	1.50	0.00	-999.00	109.30	102.90	0.00	162.40	69.50	108.10	124.80	172.40	59.20	126.80	122.10	
11	1.50	0.00	-999.00	109.40	103.40	0.00	162.70	69.50	108.20	124.80	168.00	54.90	126.90	121.30	
12	1.50	0.00	-999.00	109.70	103.60	0.00	162.20	69.50	108.40	124.80	162.10	49.10	126.90	120.60	
13	1.50	0.00	-999.00	109.80	104.10	102.90	161.20	69.50	108.60	124.60	163.70	49.10	126.80	120.50	
14	1.50	0.00	-999.00	109.80	104.60	103.30	165.20	70.70	108.80	124.60	165.50	50.00	126.70	120.50	
15	1.50	0.00	-999.00	110.00	104.80	103.40	163.10	69.50	109.10	124.80	162.40	49.10	126.60	120.40	
16	1.50	0.00	-999.00	110.20	105.20	103.50	163.20	69.60	109.00	124.70	164.10	48.90	126.50	120.50	
17	1.50	0.00	-999.00	110.10	105.40	103.60	163.30	69.70	109.20	124.70	159.10	45.10	126.40	120.10	
18	1.50	0.00	-999.00	110.00	105.50	103.60	163.10	69.60	109.40	124.80	161.90	45.90	126.40	120.00	
19	1.50	0.00	-999.00	109.70	105.40	103.50	163.00	69.60	109.40	124.60	158.90	45.10	126.20	119.90	
20	1.50	0.00	-999.00	109.60	105.30	103.30	167.90	70.90	109.40	124.60	158.60	45.10	126.00	119.80	
21	1.50	0.00	-999.00	109.30	105.10	103.00	163.00	69.60	109.30	124.40	159.90	45.10	125.90	119.90	
22	1.50	0.00	-999.00	109.30	104.80	102.80	170.20	75.10	108.90	125.30	160.70	45.90	125.70	119.70	
23	1.50	0.00	-999.00	109.20	104.60	102.70	168.90	75.20	108.80	125.50	157.90	45.20	125.70	119.50	
24	1.50	0.00	-999.00	109.10	104.30	102.50	168.00	75.10	108.70	125.40	157.10	45.20	125.50	119.70	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB	WA TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB	GAS %SAT	
1	162.40	42.80	128.30	123.00	84.30	123.80	119.20	277.10	104.70	115.80	114.80	117.90	112.70		
2	161.90	42.90	127.80	123.10	84.20	123.80	119.30	284.20	124.60	116.10	114.60	118.80	112.50		
3	163.70	43.60	127.60	122.80	84.00	123.70	119.20	302.30	129.40	115.90	114.80	119.40	112.20		
4	160.70	42.90	127.30	122.60	84.00	123.60	119.40	304.20	129.30	116.40	114.30	119.50	111.80		
5	161.90	42.90	126.50	122.40	83.70	123.60	119.30	304.50	129.20	115.60	114.50	119.40	111.60		
6	171.90	52.80	125.80	123.90	84.40	123.30	119.40	300.00	126.10	115.70	113.70	119.40	111.30		
7	173.80	55.20	125.30	124.20	89.60	123.30	119.60	267.70	99.50	115.70	113.30	118.10	111.20		
8	182.00	61.00	125.20	124.20	88.10	123.10	119.50	278.80	104.20	115.40	113.60	117.80	111.00		
9	186.00	61.90	125.30	124.40	88.10	123.10	119.70	275.60	100.00	116.30	113.70	118.00	110.90		
10	181.00	60.00	125.00	125.00	88.20	123.00	119.80	280.70	104.30	117.00	113.60	118.00	111.20		
11	169.80	49.00	124.70	123.50	88.20	123.10	119.70	281.30	104.40	118.00	113.60	118.00	111.60		
12	169.50	48.60	124.40	123.60	88.00	122.90	119.60	281.30	104.70	118.70	114.40	118.20	112.10		
13	164.70	42.20	124.10	123.20	85.80	123.00	119.80	281.10	104.80	120.00	115.60	118.30	112.70		
14	164.20	41.20	123.60	124.00	84.70	123.30	119.80	281.50	104.90	120.20	116.00	0.00	113.00		
15	156.60	36.00	123.50	123.80	84.80	123.30	119.50	281.20	104.90	118.40	117.90	118.30	113.10		
16	155.50	34.30	123.30	122.50	84.70	123.60	119.50	277.70	101.10	117.30	117.40	118.40	113.10		
17	159.90	39.00	123.40	123.60	84.60	123.30	119.50	280.70	105.10	116.90	118.00	118.30	113.20		
18	160.00	39.00	123.30	123.80	85.20	123.40	119.40	286.00	110.70	117.00	117.90	118.20	113.20		
19	158.90	35.70	123.40	124.00	81.20	123.50	119.70	305.40	129.40	117.20	117.80	119.60	113.20		
20	155.10	34.00	123.50	123.00	81.70	123.00	119.50	305.80	129.90	117.20	117.70	119.80	113.20		
21	161.50	38.10	123.50	122.70	81.30	123.00	119.50	305.30	129.90	118.30	117.60	119.80	113.20		
22	158.20	37.10	123.50	122.10	80.50	122.80	119.40	304.80	129.60	118.50	117.80	119.80	113.10		
23	156.70	36.30	123.90	122.00	80.50	122.50	119.30	303.20	129.90	118.00	118.10	119.70	112.70		
24	154.80	33.60	123.60	121.80	80.50	122.30	119.40	300.90	130.00	117.10	117.60	119.60	112.50		

03 JUN 2003

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

03 JUN 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	LOWER GRANITE	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.		
1	1.50	0.00	-999.00	109.10	103.80	102.40	168.30	75.10	108.70	125.30	157.00	45.30	125.40	119.60	
2	1.50	0.00	-999.00	109.00	103.50	102.20	169.00	75.10	108.50	125.50	158.10	45.30	125.20	119.60	
3	1.50	0.00	-999.00	108.80	103.10	102.10	171.80	76.30	108.40	125.40	161.30	46.10	125.10	119.60	
4	1.50	0.00	-999.00	108.70	102.90	101.90	161.70	68.40	108.40	124.20	158.90	45.30	124.90	119.70	
5	1.50	0.00	-999.00	108.70	102.60	101.80	159.00	63.80	108.10	123.60	160.80	45.40	124.50	119.70	
6	1.50	0.00	-999.00	108.50	102.40	101.60	151.80	58.20	108.00	122.00	159.40	45.30	124.00	119.60	
7	1.50	0.00	-999.00	108.40	102.20	101.40	149.90	56.40	107.90	121.70	157.90	40.10	123.70	119.00	
8	1.50	0.00	-999.00	108.40	102.30	101.60	149.80	56.30	107.70	121.70	154.90	38.90	123.40	118.90	
9	1.50	0.00	-999.00	108.40	102.50	101.80	152.60	57.40	107.80	121.60	154.80	38.90	123.00	118.70	
10	1.50	0.00	-999.00	108.60	102.70	102.00	149.80	56.40	107.90	121.70	155.00	38.80	123.00	118.90	
11	1.50	0.00	-999.00	108.80	103.20	2.10	149.70	56.30	108.30	122.70	156.90	38.70	123.10	118.80	
12	1.50	0.00	-999.00	109.00	103.50	2.10	142.10	56.30	108.00	129.90	146.00	29.70	123.50	117.40	
13	1.50	0.00	-999.00	109.20	104.10	2.10	142.90	51.50	108.40	120.00	147.40	29.70	123.20	117.20	
14	1.50	0.00	-999.00	109.40	104.60	2.10	144.20	50.80	108.30	119.40	145.70	29.40	123.20	117.00	
15	1.70	0.00	-999.00	109.40	104.90	2.10	144.40	50.90	108.30	119.20	138.60	22.50	123.10	116.70	
16	1.60	0.00	-999.00	109.50	105.20	2.10	146.70	51.80	108.70	119.10	140.50	22.90	123.00	116.70	
17	1.70	0.00	-999.00	109.50	105.40	2.10	145.90	50.90	108.90	118.80	139.00	22.50	122.70	116.60	
18	1.60	0.00	-999.00	109.40	105.40	2.10	145.00	49.80	109.10	118.40	137.70	22.50	122.40	116.40	
19	1.70	0.00	-999.00	109.20	105.30	2.10	138.10	45.30	108.80	117.70	79.10	50.50	122.10	142.70	
20	1.60	0.00	-999.00	108.90	105.00	2.10	138.50	45.30	108.90	117.60	117.70	49.60	121.90	148.00	
21	1.70	0.00	-999.00	108.50	104.70	2.10	138.80	45.40	108.50	117.50	139.30	37.70	121.90	123.30	
22	1.70	0.00	-999.00	108.20	104.50	2.10	140.50	46.10	108.30	117.40	136.80	37.10	121.60	118.90	
23	1.60	0.00	-999.00	108.10	104.10	2.10	138.20	45.30	108.10	117.40	136.50	37.00	121.40	118.00	
24	1.70	0.00	-999.00	107.80	103.80	2.10	138.80	45.30	107.90	117.30	136.60	37.00	121.30	117.70	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	MCNARY	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	PASCO	
1	149.60	30.80	123.40	121.10	82.10	122.30	119.50	299.40	129.90	117.30	117.20	119.80	112.30		
2	151.00	28.80	123.60	120.80	160.00	80.50	122.30	119.50	305.40	129.90	116.90	117.20	119.70	112.20	
3	147.10	28.40	123.60	120.50	160.30	80.50	122.20	119.40	306.30	129.90	116.60	116.90	119.70	112.00	
4	146.20	28.40	123.50	120.40	160.40	80.40	122.10	119.30	307.00	129.90	116.70	116.30	119.70	111.90	
5	145.40	28.40	123.60	120.20	162.00	80.10	122.10	119.40	307.30	129.90	116.80	116.00	119.60	111.80	
6	145.10	28.40	123.60	120.00	153.10	64.70	122.00	118.20	307.10	130.00	116.40	115.60	119.50	111.80	
7	153.50	34.00	123.60	120.70	153.50	64.70	122.00	117.70	306.00	130.00	116.50	115.10	119.70	111.60	
8	157.20	35.60	123.40	120.90	154.80	64.70	122.00	117.60	306.40	130.00	116.30	114.90	119.60	111.60	
9	156.30	34.90	123.50	121.30	156.20	65.90	122.20	117.70	306.70	130.00	116.40	114.60	119.50	111.70	
10	155.40	34.90	123.20	121.80	153.20	64.80	122.00	117.90	306.70	130.10	116.90	114.60	119.80	112.00	
11	155.60	35.40	122.90	121.90	154.90	64.80	120.50	117.90	294.20	123.80	117.90	114.50	119.80	112.60	
12	159.20	36.40	123.80	122.10	153.20	64.90	121.70	0.00	274.10	100.10	119.80	114.70	118.40	113.00	
13	150.90	30.40	123.80	122.00	155.00	64.90	121.70	118.20	273.50	100.10	120.70	114.50	118.10	113.50	
14	148.60	28.20	123.40	0.00	152.70	64.20	121.80	118.20	261.80	100.10	117.40	114.60	118.10	113.70	
15	148.20	28.20	122.70	122.20	142.00	53.90	121.60	117.00	263.40	100.10	117.00	116.30	118.00	113.90	
16	135.40	26.80	122.20	121.90	134.20	45.50	121.90	115.90	272.20	100.10	117.30	117.10	118.00	114.10	
17	134.60	26.50	122.30	120.80	133.20	44.80	122.10	115.80	271.50	100.20	118.50	117.80	118.10	113.10	
18	134.70	28.30	122.20	121.00	132.50	46.50	121.70	115.80	282.60	111.20	120.00	118.10	118.10	114.30	
19	134.80	28.30	122.70	120.90	138.80	88.60	121.50	116.60	302.80	129.90	118.70	117.50	119.70	114.30	
20	104.80	22.40	122.70	119.00	139.10	99.40	121.50	119.70	302.80	129.90	117.90	117.50	119.80	114.30	
21	89.00	24.80	122.60	118.50	133.50	94.50	121.20	119.60	303.50	129.90	118.70	117.70	27.80	114.30	
22	102.20	28.20	122.40	118.80	120.70	97.40	121.20	119.10	303.20	129.90	118.70	117.70	27.80	114.10	
23	135.30	28.70	122.10	119.10	121.90	101.00	120.80	119.00	302.30	129.90	117.50	117.40	119.80	113.90	
24	136.00	28.20	121.90	119.10	125.20	99.50	120.70	118.80	302.10	129.90	116.80	117.10	119.80	113.70	

04 JUN 2003

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

04 JUN 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.			
1	1.60	0.00	-999.00	: 107.60	103.50	2.10	: 138.60	45.30	107.80	117.30	: 140.70	37.70	121.10	117.50	
2	1.70	0.00	-999.00	: 107.40	103.10	2.10	: 138.60	45.30	107.50	117.30	: 137.10	37.10	120.90	117.30	
3	1.70	0.00	-999.00	: 107.20	102.80	2.10	: 141.10	46.10	107.40	117.30	: 136.70	37.10	120.70	117.30	
4	1.60	0.00	-999.00	: 107.00	102.40	2.10	: 139.00	45.30	107.30	117.30	: 136.50	37.10	120.50	117.30	
5	1.70	0.00	-999.00	: 106.80	102.10	2.00	: 138.90	45.30	107.30	117.20	: 136.60	37.10	120.30	117.20	
6	1.60	0.00	-999.00	: 106.80	101.70	2.00	: 138.90	45.20	107.20	117.20	: 138.70	37.70	120.20	117.10	
7	1.70	0.00	-999.00	: 106.70	101.60	2.00	: 136.60	43.50	107.10	116.90	: 135.80	37.10	120.10	117.00	
8	1.60	0.00	-999.00	: 106.80	101.60	2.00	: 131.80	38.50	107.10	116.70	: 141.50	26.40	120.10	116.00	
9	1.70	0.00	-999.00	: 106.90	101.80	2.00	: 134.30	39.30	107.20	116.70	: 136.80	20.70	120.10	115.10	
10	1.60	0.00	1000.00	: 107.10	102.10	4.90	: 131.90	39.40	107.10	116.80	: 139.30	20.90	120.20	115.10	
11	1.70	0.00	1000.00	: 107.40	102.40	5.60	: 131.90	59.10	107.50	122.40	: 136.20	20.60	120.20	115.20	
12	1.60	0.00	1000.00	: 107.70	102.90	7.10	: 130.90	59.20	107.30	122.80	: 136.00	20.50	120.20	115.40	
13	1.70	0.00	1000.00	: 108.00	103.40	6.80	: 130.60	43.20	109.10	117.40	: 136.40	20.60	120.30	115.40	
14	1.60	0.00	1000.00	: 108.50	103.80	2.10	: 131.70	38.60	108.20	117.10	: 139.40	21.00	120.50	115.40	
15	1.70	0.00	1000.00	: 108.60	104.30	2.10	: 131.60	38.60	109.10	117.00	: 136.80	20.70	120.40	115.50	
16	1.60	0.00	106.10	: 108.80	104.60	2.10	: 134.20	39.30	109.70	116.90	: 133.00	16.60	120.30	115.50	
17	1.70	0.00	106.10	: 108.80	104.90	2.10	: 131.90	38.60	108.70	116.90	: 125.10	9.00	120.20	115.20	
18	1.60	0.00	105.70	: 108.60	104.90	2.10	: 132.00	38.40	110.30	116.50	: 127.30	12.50	120.00	115.00	
19	1.70	0.00	105.30	: 108.40	105.00	2.10	: 131.90	41.50	109.60	117.10	: 130.20	37.50	120.00	116.20	
20	1.60	0.00	104.70	: 108.10	104.80	2.10	: 132.10	41.50	109.30	117.10	: 124.40	36.90	120.10	116.30	
21	1.70	0.00	104.20	: 107.80	104.40	2.10	: 132.20	41.50	108.50	117.10	: 129.50	36.90	120.00	116.60	
22	1.60	0.00	103.90	: 107.40	104.10	2.10	: 134.60	42.10	108.30	116.90	: 129.30	36.90	119.60	116.60	
23	1.70	0.00	103.80	: 107.20	104.00	2.10	: 126.90	41.40	107.80	116.90	: 130.80	37.50	119.50	116.50	
24	1.60	0.00	103.80	: 106.90	103.60	2.10	: 109.90	41.50	107.60	116.90	: 109.70	36.90	119.50	116.40	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. OR FB	WA TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB	GAS %SAT	
1	135.00	28.30	121.90	118.80	127.10	99.80	120.60	118.90	281.20	129.90	116.90	116.90	119.60	: 113.60	
2	134.70	28.20	121.50	118.90	127.20	99.80	120.40	119.00	280.20	129.90	116.80	116.30	119.60	: 113.30	
3	135.80	28.20	121.20	118.80	135.40	99.80	120.40	119.30	299.60	129.90	116.80	115.70	27.80	: 113.10	
4	136.60	28.20	121.10	118.70	136.00	99.80	120.20	119.50	305.00	129.90	116.10	115.50	27.90	: 112.90	
5	140.80	28.80	121.30	118.70	147.10	101.30	120.10	119.70	306.00	129.80	116.60	115.40	27.90	: 112.60	
6	136.60	28.20	121.10	118.90	147.00	72.20	120.10	119.00	285.80	124.30	116.50	115.40	27.90	: 112.60	
7	136.20	28.30	120.90	118.70	146.00	69.90	120.10	117.50	268.70	98.80	116.60	115.20	27.60	: 112.30	
8	147.80	28.30	120.80	119.00	147.10	69.80	120.20	117.50	279.70	110.30	116.00	114.90	27.60	: 112.20	
9	143.20	28.30	121.10	119.10	148.70	69.80	120.50	117.70	272.50	110.30	116.30	114.60	27.60	: 112.50	
10	142.50	28.20	121.20	119.40	146.90	69.80	120.80	117.90	301.10	133.60	116.90	114.50	27.90	: 112.60	
11	145.20	28.70	120.80	120.10	147.00	69.70	120.70	117.90	310.00	134.40	117.70	114.30	28.00	: 113.10	
12	139.10	28.40	120.60	120.20	146.90	69.70	120.80	117.80	309.00	134.50	118.40	114.20	28.00	: 113.50	
13	138.70	28.40	120.40	120.30	149.90	71.10	120.80	117.90	308.70	134.50	118.90	115.00	28.00	: 113.90	
14	133.70	28.40	120.30	120.30	148.10	69.70	120.70	117.70	309.00	134.50	117.20	115.60	27.90	: 113.90	
15	134.40	27.60	120.10	120.40	146.50	69.70	120.50	117.90	307.80	134.20	117.60	116.00	27.90	: 114.20	
16	132.80	26.80	119.90	119.80	146.60	69.60	120.70	117.90	299.40	124.90	117.70	116.00	27.80	: 114.60	
17	134.50	27.20	119.80	119.90	146.30	69.50	120.80	117.70	298.80	124.90	117.60	116.20	27.70	: 114.80	
18	132.70	26.80	120.60	119.90	145.30	69.50	120.80	117.60	299.20	124.90	118.00	116.40	119.10	: 115.00	
19	129.00	26.80	124.40	119.90	133.60	95.20	120.40	119.30	299.30	124.90	117.70	116.20	119.00	: 115.10	
20	128.40	26.70	125.60	119.50	128.80	94.10	120.40	119.30	300.40	124.80	117.20	116.60	119.00	: 115.10	
21	128.90	26.70	124.50	119.20	129.20	94.40	120.00	119.30	300.40	124.30	117.30	117.10	119.00	: 115.00	
22	125.70	26.70	123.60	118.60	129.00	94.20	119.70	119.20	300.40	124.30	117.40	117.40	119.00	: 114.80	
23	126.60	27.20	122.80	118.40	129.00	94.30	119.40	119.30	299.40	124.60	116.80	117.50	119.20	: 114.60	
24	110.90	26.70	122.10	117.70	128.40	94.30	119.20	119.10	299.20	124.50	116.90	116.80	119.30	: 114.60	

05 JUN 2003

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

05 JUN 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	LOWER GRANITE	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.		
1	1.70	0.00	103.60	106.80	103.20	2.10	109.30	41.50	107.60	116.70	100.20	36.90	119.20	116.40	
2	1.60	0.00	103.60	106.70	103.00	2.10	118.00	41.60	107.60	116.80	108.90	36.90	119.10	116.40	
3	1.70	0.00	103.80	106.40	102.70	2.10	123.40	41.60	107.50	116.90	120.30	36.90	118.90	116.60	
4	1.60	0.00	103.60	106.30	102.30	2.10	134.20	42.30	107.40	116.70	132.50	37.50	118.30	116.90	
5	1.60	0.00	103.60	106.20	101.90	2.10	128.50	41.50	107.20	116.90	126.30	36.90	117.80	116.70	
6	1.60	0.00	103.80	106.10	101.70	2.10	128.00	41.20	107.00	116.80	124.60	34.60	117.50	116.80	
7	1.60	0.00	4.10	106.10	101.60	2.10	113.30	20.50	106.90	109.60	113.90	0.00	118.10	116.70	
8	1.70	0.00	1000.00	106.20	101.60	2.10	113.50	20.40	106.90	109.10	116.40	0.00	117.60	116.40	
9	1.60	0.00	1000.00	106.30	101.80	2.10	113.70	20.50	107.10	108.90	114.60	0.00	117.20	114.10	
10	1.60	0.00	1000.00	106.70	102.10	2.10	113.40	20.40	107.30	109.00	117.80	0.00	0.00	115.40	
11	1.70	0.00	1000.00	107.00	102.40	2.10	115.40	20.80	107.40	109.00	114.60	0.00	116.40	116.10	
12	1.60	0.00	1000.00	107.20	102.90	2.10	113.40	20.40	108.20	7017.20	113.00	0.00	116.40	116.10	
13	1.70	0.00	1000.00	107.50	103.50	2.10	113.30	20.50	109.00	0.00	116.60	0.00	116.00	116.00	
14	1.60	0.00	1000.00	107.90	103.90	2.10	112.80	19.60	107.70	111.30	114.90	0.00	116.10	116.00	
15	1.70	0.00	1000.00	108.00	104.30	0.00	99.60	7.00	107.60	108.10	116.10	0.00	116.30	115.90	
16	1.60	0.00	1000.00	108.10	104.60	104.50	91.70	0.00	109.60	107.70	104.10	0.00	116.30	115.70	
17	1.70	0.00	1000.00	108.10	105.00	104.30	112.40	18.60	109.90	115.80	107.20	0.00	116.10	115.60	
18	1.60	0.00	108.10	107.90	105.00	103.90	133.40	40.60	109.70	117.30	95.70	3.70	116.40	115.50	
19	1.70	0.00	107.60	107.70	104.90	103.70	133.50	40.50	108.20	117.60	111.90	35.10	116.60	116.10	
20	1.60	0.00	107.00	107.40	104.70	103.20	133.80	40.50	108.40	117.60	109.40	35.10	116.90	115.70	
21	1.70	0.00	106.40	107.20	104.30	102.70	129.50	40.40	108.20	117.40	127.10	34.80	116.60	116.30	
22	1.60	0.00	106.20	106.70	104.00	102.40	126.50	40.40	107.90	117.50	136.20	35.50	115.90	116.60	
23	1.70	0.00	106.20	106.60	103.80	102.10	118.00	41.10	107.80	117.60	126.90	34.80	115.60	116.30	
24	1.60	0.00	106.20	106.60	103.50	101.90	106.80	40.40	107.50	117.90	115.00	34.80	115.90	116.00	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	MCNARY	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	MCNARY	PASCO
1	101.00	26.80	121.90	117.40	94.40	119.40	118.70	298.80	124.40	116.70	116.10	27.70	114.30	114.30	
2	99.50	26.70	121.40	117.20	110.10	95.90	119.20	117.80	300.50	124.40	116.90	115.50	27.70	114.30	114.30
3	99.60	26.70	120.90	116.90	108.20	94.30	119.20	117.60	300.90	124.40	116.80	115.10	27.70	114.00	114.00
4	99.20	26.70	120.20	116.80	108.10	94.20	119.00	117.70	301.10	124.40	116.70	114.80	27.70	113.80	113.80
5	102.10	27.70	119.80	116.90	107.80	93.50	119.00	117.60	301.20	124.30	116.40	114.50	27.70	113.60	113.60
6	131.90	28.40	119.40	118.00	107.70	55.40	118.80	116.00	290.50	113.60	116.00	114.30	27.70	113.30	113.30
7	138.60	28.40	119.20	118.50	136.20	67.20	118.70	116.40	248.10	73.30	115.00	114.10	27.20	113.00	113.00
8	138.90	28.40	119.20	118.50	143.00	70.40	118.90	117.30	248.30	73.20	114.90	113.90	26.90	112.90	112.90
9	123.50	27.70	119.30	118.20	143.20	71.50	119.40	117.70	248.40	73.30	115.40	113.90	26.90	113.10	113.10
10	117.50	27.20	120.30	118.00	141.40	70.10	120.00	117.50	247.80	73.40	116.00	114.00	26.90	113.40	113.40
11	113.30	26.70	121.00	118.10	139.50	69.90	119.40	117.70	247.60	73.30	117.40	114.10	26.90	113.80	113.80
12	114.20	26.50	119.00	118.30	123.60	61.50	119.40	117.10	246.80	73.40	118.10	114.10	26.90	114.20	114.20
13	112.90	25.40	119.00	119.20	122.60	59.10	119.40	116.60	246.60	73.60	118.70	114.30	26.90	114.50	114.50
14	110.20	25.50	118.90	118.80	108.50	54.70	119.50	115.70	247.80	73.60	119.30	118.30	26.90	114.50	114.50
15	110.80	25.50	118.90	119.10	111.10	55.80	119.60	115.30	247.30	73.60	116.80	116.60	115.80	114.70	114.70
16	113.30	25.90	119.10	119.40	109.30	54.80	120.30	115.30	246.50	73.50	117.70	118.30	115.90	114.90	114.90
17	111.40	25.50	118.70	119.60	109.30	54.90	120.40	115.20	247.50	73.40	117.30	117.20	116.10	115.00	115.00
18	111.40	25.40	120.00	119.60	109.00	54.90	120.20	115.10	252.20	77.30	117.00	118.50	115.90	115.30	115.30
19	101.80	24.20	118.90	119.10	110.80	55.10	120.30	115.20	300.30	125.10	117.00	118.30	118.70	115.40	115.40
20	84.90	18.10	118.80	119.80	109.30	55.10	120.30	115.20	300.60	125.30	117.10	118.30	119.70	115.30	115.30
21	106.60	24.30	122.60	120.00	109.30	54.90	120.10	115.10	301.70	125.10	117.10	117.60	119.80	115.30	115.30
22	123.70	25.30	119.30	120.10	111.20	55.90	119.80	114.90	301.10	125.00	117.20	117.40	119.60	115.00	115.00
23	132.80	25.40	119.60	120.00	110.80	56.40	119.50	114.90	300.50	124.90	117.40	117.20	119.60	114.70	114.70
24	123.90	25.30	119.80	119.70	122.20	61.30	119.60	115.70	298.90	124.90	117.20	117.20	119.60	114.70	114.70

06 JUN 2003

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

06 JUN 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	LOWER GRANITE	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.		
1	1.70	0.00	106.10	106.40	103.20	101.70	105.70	40.50	107.60	117.90	101.70	34.80	115.90	115.70	
2	1.70	0.00	106.30	106.20	103.00	101.50	105.90	40.50	107.50	118.10	101.90	35.40	115.90	115.70	
3	1.60	0.00	106.20	106.10	102.60	101.40	120.20	40.60	107.50	117.70	100.60	34.80	116.10	115.70	
4	1.70	0.00	106.20	105.90	102.20	101.20	128.10	40.50	107.30	117.70	110.00	34.80	116.40	116.10	
5	1.60	0.00	106.20	105.90	101.90	101.10	136.30	41.20	107.30	117.80	115.00	34.80	116.10	115.80	
6	1.70	0.00	106.10	105.70	101.60	101.00	134.10	40.30	107.10	117.60	127.00	34.90	116.10	116.20	
7	1.60	0.00	106.40	105.70	101.40	101.00	103.00	9.80	107.10	109.00	121.00	3.70	115.80	115.50	
8	1.70	0.00	106.80	105.90	101.50	101.30	103.00	9.80	107.10	108.20	115.70	0.00	115.70	115.20	
9	1.60	0.00	107.30	106.10	101.70	101.70	103.00	9.80	107.10	108.20	115.10	0.00	115.80	115.00	
10	1.70	0.00	107.60	106.30	102.00	102.30	102.40	9.80	107.50	107.90	113.50	0.00	115.50	115.10	
11	1.60	0.00	108.10	106.60	102.40	102.70	103.90	10.00	108.00	107.90	115.70	0.00	115.20	114.90	
12	1.70	0.00	108.40	106.80	102.70	103.20	102.90	9.80	108.40	107.80	108.00	0.00	115.30	114.80	
13	1.60	0.00	108.60	107.30	103.20	103.70	102.20	9.80	110.50	107.80	106.60	0.00	115.00	114.90	
14	1.70	0.00	108.90	107.40	103.70	104.00	101.70	9.80	107.60	107.70	105.10	0.00	115.00	114.80	
15	1.60	0.00	108.90	107.50	104.10	104.00	101.70	9.90	108.20	107.80	105.50	0.00	115.00	114.70	
16	1.70	0.00	108.60	107.50	104.30	104.10	111.10	19.50	109.60	111.70	100.60	0.00	114.90	114.60	
17	1.60	0.00	108.50	107.50	104.60	104.00	119.90	26.00	107.40	112.50	98.50	0.00	114.90	114.60	
18	1.70	0.00	108.30	107.40	104.70	103.70	120.70	27.50	107.10	112.70	103.00	0.50	115.20	114.60	
19	1.60	0.00	108.00	107.30	104.70	103.40	132.90	40.50	107.10	117.10	122.20	34.70	118.00	115.50	
20	1.70	0.00	107.40	107.00	104.40	103.00	133.20	40.40	107.10	117.50	137.40	35.40	116.40	115.90	
21	1.60	0.00	106.80	106.70	104.00	102.70	129.50	40.40	107.60	117.40	135.70	34.80	116.90	116.30	
22	1.70	0.00	106.50	106.50	103.80	102.20	124.30	41.10	107.20	117.30	147.60	34.70	115.50	116.70	
23	1.60	0.00	106.40	106.30	103.50	101.90	117.20	40.30	107.00	117.40	122.10	34.70	115.20	116.10	
24	1.70	0.00	106.40	106.10	103.30	101.70	110.10	40.40	107.00	117.80	114.30	35.30	114.90	115.70	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	MCNARY	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	MCNARY	PASCO
1	112.10	25.40	119.20	119.10	61.50	119.20	116.10	299.60	124.50	117.10	116.80	119.50	114.60	114.60	
2	101.90	25.40	119.30	118.80	60.90	119.10	116.00	300.10	124.50	117.10	116.50	119.60	114.50	114.50	
3	90.80	25.30	119.00	118.60	51.20	119.00	115.70	300.70	124.30	117.10	116.30	119.60	114.40	114.40	
4	96.50	25.30	118.90	118.60	52.00	118.80	115.00	301.20	124.20	117.20	116.00	119.60	114.10	114.10	
5	97.10	25.40	118.60	118.60	100.30	51.10	118.90	114.80	302.10	124.70	117.00	115.90	119.40	114.00	114.00
6	108.80	25.80	118.20	118.60	53.80	118.90	114.80	284.50	107.70	116.70	115.80	119.50	113.70	113.70	
7	120.60	25.40	118.60	119.00	61.20	118.70	115.80	188.10	15.70	116.40	115.60	116.90	113.60	113.60	
8	126.30	25.30	118.30	119.10	65.00	118.80	116.60	192.20	19.90	116.60	115.40	115.10	113.50	113.50	
9	128.00	25.30	118.60	119.80	65.00	118.90	116.80	192.80	19.90	117.20	115.40	114.70	113.70	113.70	
10	122.50	25.30	119.30	119.70	65.00	118.80	116.90	195.30	23.30	117.70	115.90	114.80	114.00	114.00	
11	122.20	25.30	118.90	119.10	66.20	119.00	116.90	246.50	73.80	120.80	115.80	115.20	114.40	114.40	
12	115.90	25.80	118.50	118.90	64.90	118.90	116.90	247.30	74.90	120.20	115.40	116.00	114.90	114.90	
13	107.60	24.70	118.60	118.90	63.20	119.10	117.10	247.20	75.60	121.90	115.50	116.20	115.40	115.40	
14	99.00	19.70	118.50	117.80	55.20	119.00	116.00	270.60	98.40	122.40	115.50	117.40	115.70	115.70	
15	97.60	19.30	118.60	118.30	53.90	119.20	115.80	272.60	99.70	120.10	117.60	118.10	115.80	115.80	
16	90.60	19.30	121.70	118.40	45.10	120.50	115.10	271.50	99.70	119.00	117.60	118.00	116.10	116.10	
17	91.40	19.70	121.00	118.50	45.10	120.30	114.70	268.20	99.70	117.70	117.10	118.10	116.10	116.10	
18	96.70	19.30	120.00	119.80	42.10	46.70	122.00	263.70	101.30	117.70	117.90	118.10	116.10	116.10	
19	109.50	19.40	118.80	118.60	55.90	120.50	114.70	277.30	114.60	118.00	117.90	118.50	116.30	116.30	
20	126.70	19.40	117.80	118.20	66.20	120.00	116.10	277.40	114.60	119.10	117.60	118.50	116.30	116.30	
21	142.20	19.40	117.40	117.90	149.80	73.60	118.80	277.60	114.60	117.50	117.50	118.50	116.10	116.10	
22	142.20	19.40	116.60	117.50	150.70	73.70	118.60	277.30	114.60	116.90	116.60	118.30	115.90	115.90	
23	143.40	19.70	116.30	117.10	144.90	71.40	118.50	277.40	114.60	116.90	116.70	118.20	115.70	115.70	
24	111.60	19.30	117.20	116.60	143.50	70.70	118.00	277.20	114.60	116.70	117.10	118.20	115.60	115.60	

07 JUN 2003

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

07 JUN 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	LOWER GRANITE	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.		
1	1.60	0.00	106.50	105.90	103.10	101.60	108.30	40.40	107.00	117.70	100.40	34.60	115.00	115.70	
2	1.60	0.00	106.40	105.80	102.80	101.40	108.80	40.40	106.90	4.30	95.50	34.70	114.50	115.70	
3	1.60	0.00	106.50	105.80	102.40	101.30	114.00	40.40	106.70	117.60	95.60	34.70	113.80	115.80	
4	1.70	0.00	106.50	105.60	102.10	101.10	116.60	41.10	106.70	117.50	97.20	35.30	113.10	115.70	
5	1.60	0.00	106.30	105.50	101.80	101.00	114.50	40.40	106.70	117.60	96.90	34.80	112.80	115.50	
6	1.60	0.00	106.40	105.40	101.40	100.80	114.00	39.20	106.50	117.60	98.30	34.80	112.20	115.50	
7	1.60	0.00	106.50	105.30	101.30	100.90	103.50	15.60	106.50	111.10	105.30	0.60	112.30	112.90	
8	1.70	0.00	106.90	105.60	101.40	101.20	108.70	15.60	106.50	110.90	114.40	0.00	112.00	112.00	
9	1.60	0.00	107.40	105.70	101.50	101.60	110.60	15.60	106.70	110.70	116.60	0.00	111.80	111.90	
10	1.70	0.00	107.90	106.00	101.90	102.10	105.30	12.70	106.90	109.30	108.80	0.00	112.00	111.50	
11	1.60	0.00	108.40	106.40	102.30	102.70	104.30	10.00	107.20	109.00	108.30	0.00	112.10	111.50	
12	1.60	0.00	108.80	106.70	102.80	103.10	102.50	9.80	107.00	108.90	108.60	0.00	111.60	111.50	
13	1.60	0.00	109.00	107.00	103.30	103.60	99.90	7.90	107.60	108.80	112.00	0.00	111.60	111.40	
14	1.70	0.00	109.30	107.30	103.80	104.00	91.40	0.00	109.00	107.30	108.30	0.00	111.90	111.40	
15	1.70	0.00	109.20	107.30	104.20	104.20	91.60	0.00	109.00	106.80	97.40	0.00	111.50	111.50	
16	1.80	0.00	108.50	107.70	104.60	104.30	91.50	0.00	110.70	106.90	94.80	0.00	111.90	111.60	
17	1.80	0.00	107.20	107.60	104.80	104.20	93.70	1.80	109.80	106.80	87.80	0.00	112.00	111.70	
18	1.80	0.00	105.80	107.50	104.90	104.00	105.20	12.00	109.00	107.40	96.80	4.90	112.00	111.70	
19	1.80	0.00	105.00	107.30	104.80	103.60	123.10	40.70	108.40	116.70	102.20	28.80	112.70	113.10	
20	1.80	0.00	104.40	107.10	104.50	103.30	125.60	40.80	109.20	117.40	115.50	28.90	113.70	113.40	
21	1.80	0.00	103.60	106.90	104.10	102.70	123.80	40.70	108.90	117.50	117.20	28.90	117.00	113.70	
22	1.80	0.00	103.40	106.60	103.80	102.40	123.60	40.60	108.30	117.70	118.90	29.40	117.00	113.70	
23	1.80	0.00	103.40	106.40	103.60	102.10	116.50	40.60	107.90	117.70	116.70	28.90	116.50	113.70	
24	1.80	0.00	103.40	106.10	103.40	101.90	111.80	41.30	107.30	117.90	111.00	28.90	115.70	113.70	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	MCNARY	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	PASCO	
1	98.00	19.30	117.10	116.50	59.60	117.80	116.80	277.60	114.70	116.80	116.80	118.30	115.40		
2	97.20	19.40	116.50	116.50	52.00	117.80	115.80	278.30	115.40	116.80	116.40	118.30	115.40		
3	97.70	19.40	116.60	116.20	51.10	117.70	114.90	278.80	115.80	116.70	116.10	118.30	115.30		
4	97.80	19.30	116.70	116.10	51.00	117.50	114.90	279.30	115.80	116.50	115.80	118.30	115.10		
5	99.50	19.70	116.50	116.00	51.00	117.60	114.90	279.10	115.80	116.40	115.50	118.40	115.00		
6	97.80	19.30	116.40	115.90	44.60	117.40	114.70	278.80	115.80	116.20	115.40	118.30	114.80		
7	97.80	19.30	116.50	116.20	44.40	117.30	114.40	277.70	115.80	116.40	114.90	118.30	114.60		
8	98.60	19.30	116.60	116.30	44.90	117.30	114.50	278.60	115.80	116.70	114.70	118.30	114.50		
9	98.30	19.30	116.80	116.60	45.70	117.80	114.70	283.80	115.80	117.00	114.70	118.30	114.50		
10	106.90	19.30	117.20	117.00	44.90	118.40	114.90	291.80	115.80	118.20	114.60	118.60	114.70		
11	112.40	19.70	117.00	117.60	44.90	118.10	115.00	291.60	115.70	118.50	114.50	118.60	115.00		
12	109.10	19.40	117.10	117.80	45.00	118.50	115.00	290.10	115.20	118.40	115.70	118.70	115.50		
13	109.10	19.30	117.10	118.20	44.90	118.70	115.20	289.10	114.60	119.30	116.00	118.60	115.80		
14	109.30	19.40	117.20	118.20	45.00	118.30	115.50	289.10	114.60	120.40	116.10	118.70	116.20		
15	105.70	19.30	117.20	118.60	45.80	118.70	115.50	289.30	114.60	120.50	116.70	118.80	116.50		
16	111.30	19.70	121.00	118.80	45.00	119.70	115.10	289.10	114.60	118.80	117.10	118.70	116.70		
17	109.20	19.40	119.10	119.00	45.10	120.60	115.10	290.40	114.40	117.50	117.30	118.90	116.80		
18	93.80	19.40	117.80	119.10	46.80	120.90	114.90	290.20	114.10	118.20	117.40	118.80	117.00		
19	87.40	19.40	118.00	119.10	94.30	119.30	117.20	290.50	114.80	117.90	117.30	118.90	117.00		
20	90.70	19.30	117.80	118.40	94.50	118.50	118.30	290.30	114.90	116.60	118.10	118.80	117.00		
21	104.60	19.40	117.60	117.90	94.40	118.10	118.30	290.00	114.90	116.70	118.70	118.80	116.70		
22	116.80	19.30	117.50	117.40	92.70	96.20	117.90	289.90	114.90	116.10	118.70	118.80	116.30		
23	118.90	19.70	117.50	117.30	94.60	118.20	118.80	289.10	114.90	115.90	118.60	118.90	116.30		
24	109.60	19.30	117.50	117.00	94.90	118.00	118.30	289.30	114.90	116.60	118.20	118.80	116.10		

08 JUN 2003

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

08 JUN 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.			
1	1.80	0.00	103.40	106.00	103.10	101.80	109.30	40.60	107.00	117.90	109.00	28.90	115.00	113.90	
2	1.80	0.00	103.50	106.00	102.70	101.60	109.20	40.70	106.90	117.90	106.00	29.40	114.30	113.70	
3	1.80	0.00	103.40	6815.80	102.40	101.40	109.40	40.70	106.90	118.10	107.50	28.90	113.70	113.70	
4	1.80	0.00	103.50	105.70	102.20	101.30	119.20	40.60	106.80	117.90	116.50	28.90	113.10	113.80	
5	1.80	0.00	103.40	26887.80	101.90	101.10	120.10	40.70	106.80	117.80	116.70	28.90	112.20	113.80	
6	1.80	0.00	103.40	105.60	101.60	101.00	120.00	40.30	106.80	117.70	118.10	28.50	111.50	113.70	
7	1.80	0.00	103.60	6798.20	101.50	101.10	118.70	25.70	106.80	0.00	118.40	9.20	111.30	111.20	
8	1.80	0.00	103.90	0.00	101.50	101.30	111.80	19.60	106.80	111.40	119.10	8.70	111.70	110.40	
9	1.80	0.00	104.40	105.80	101.60	101.70	111.70	19.60	106.90	111.30	108.80	0.00	111.40	111.00	
10	1.80	0.00	104.70	106.00	101.70	102.10	113.30	19.50	107.10	111.20	109.10	0.00	111.50	111.10	
11	1.80	0.00	105.20	106.30	102.10	102.80	112.20	19.60	107.20	111.20	110.10	0.00	111.20	111.00	
12	1.80	0.00	105.60	106.60	102.60	103.30	103.00	11.00	108.00	108.70	108.00	0.00	110.80	110.80	
13	1.80	0.00	106.00	107.00	103.00	103.60	103.60	10.00	107.70	108.10	100.80	0.00	110.70	110.70	
14	1.80	0.00	106.00	107.30	103.40	104.10	101.70	9.80	107.10	108.10	98.60	0.00	110.70	110.60	
15	1.80	0.00	106.10	107.40	103.80	104.20	94.50	2.40	107.00	107.30	100.30	0.00	110.90	110.50	
16	1.80	0.00	106.10	107.40	103.90	104.30	91.80	0.00	107.10	107.00	89.10	0.00	111.20	110.60	
17	1.80	0.00	105.90	107.30	104.10	104.20	91.40	0.00	107.00	107.00	88.60	0.00	111.40	110.80	
18	1.80	0.00	105.60	107.20	104.30	104.00	90.70	0.00	106.90	106.80	88.10	0.60	111.70	111.00	
19	1.80	0.00	105.30	107.00	104.10	103.60	123.80	41.00	106.80	116.60	90.10	26.90	112.10	112.20	
20	1.80	0.00	104.70	106.70	103.90	103.00	122.20	40.70	107.20	117.30	101.70	27.40	112.70	112.50	
21	1.80	0.00	104.30	106.30	103.70	102.50	121.80	40.70	108.00	117.50	117.10	26.90	113.00	113.10	
22	1.80	0.00	104.20	106.20	103.50	102.10	121.90	40.60	107.70	117.60	127.20	26.90	113.20	113.50	
23	1.80	0.00	104.00	106.00	103.20	101.80	121.70	40.50	107.30	117.50	127.30	26.90	113.40	113.80	
24	1.80	0.00	103.90	105.80	103.00	101.50	121.60	40.50	107.00	117.60	129.70	27.30	113.60	113.70	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT
1	105.50	19.40	117.40	116.80	95.00	117.80	118.30	290.00	114.90	116.10	117.70	118.70	116.10	116.00	
2	98.30	19.30	117.10	116.70	105.60	95.00	117.70	118.00	290.20	114.90	115.80	117.30	118.70	115.90	
3	105.10	19.40	117.20	116.70	105.40	94.90	117.60	117.90	290.10	114.90	115.90	116.80	118.70	115.90	
4	105.90	19.40	117.40	116.60	105.80	95.10	117.40	117.90	290.60	114.90	115.90	116.40	118.60	116.00	
5	118.70	19.70	117.20	116.70	115.70	95.00	117.20	118.00	290.00	115.00	115.90	116.30	118.50	115.90	
6	119.30	19.30	116.80	116.30	114.80	46.20	116.70	116.60	291.10	115.10	115.80	116.00	118.50	115.70	
7	117.50	19.30	116.90	116.50	122.10	45.00	116.70	114.80	291.20	115.30	115.60	115.80	118.50	115.50	
8	117.50	19.40	117.10	116.50	122.40	45.00	117.10	115.00	292.10	115.40	115.80	115.80	118.60	115.50	
9	110.20	19.30	117.20	117.00	123.60	45.00	116.90	115.20	292.10	115.50	116.20	115.70	118.80	115.50	
10	109.50	19.40	117.40	117.40	123.60	44.90	116.80	115.10	292.10	115.50	116.50	115.80	118.90	115.60	
11	115.20	22.00	117.60	119.90	122.00	44.90	116.80	115.40	291.90	115.50	116.00	115.80	118.80	115.90	
12	110.70	20.40	117.60	118.80	118.60	45.70	116.70	115.10	291.90	115.30	116.20	115.90	118.90	116.10	
13	106.30	16.70	117.60	118.40	114.40	44.90	116.80	115.40	291.60	115.00	116.70	116.00	118.90	116.40	
14	108.00	14.40	117.20	117.60	114.30	44.80	116.80	115.00	274.90	99.60	117.40	116.20	118.50	116.70	
15	98.50	14.40	117.00	117.10	114.00	44.80	117.10	115.10	275.10	99.60	117.20	116.30	118.40	116.60	
16	99.20	14.40	116.00	117.10	105.50	44.90	117.30	115.10	275.50	99.30	118.50	116.50	118.30	116.70	
17	87.30	14.60	116.10	116.90	103.30	44.80	117.50	114.90	275.50	99.40	118.50	116.60	118.20	117.00	
18	87.20	14.40	115.70	116.80	103.00	45.80	117.60	114.60	275.40	99.20	118.20	116.70	118.20	116.90	
19	85.50	14.40	115.70	116.60	89.40	72.00	117.30	115.60	275.80	99.90	117.50	116.50	118.30	116.40	
20	85.60	14.40	115.10	116.10	74.10	61.40	117.30	115.60	276.00	99.90	116.90	116.70	118.20	116.00	
21	100.10	14.40	114.50	115.70	87.80	74.90	117.20	114.80	276.20	99.90	116.50	116.40	118.00	115.90	
22	119.70	14.40	114.20	115.50	92.50	78.00	116.90	115.10	275.20	99.90	116.10	116.30	118.00	115.50	
23	120.40	14.40	113.50	115.10	118.00	80.00	116.50	116.40	274.20	99.90	115.80	116.20	117.90	115.30	
24	128.80	14.40	113.70	115.00	125.70	79.90	116.30	117.20	274.20	99.90	115.70	116.20	117.90	115.00	

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09 JUN 2003

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

09 JUN 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.			
1	1.80	0.00	103.90	105.70	102.70	101.30	117.80	41.20	106.60	117.70	121.90	26.90	113.40	113.40	
2	1.80	0.00	103.90	-999.00	102.60	101.10	109.90	40.40	106.60	117.80	116.60	26.80	113.30	113.30	
3	1.80	0.00	103.90	27016.40	102.20	100.90	109.50	40.40	106.60	117.90	116.50	26.80	113.10	113.20	
4	1.80	0.00	103.80	105.20	101.80	100.70	109.50	40.40	106.50	117.90	116.60	26.80	112.60	113.10	
5	1.80	0.00	103.60	105.10	101.40	100.50	109.80	40.50	106.40	117.90	118.80	27.30	112.10	113.00	
6	1.80	0.00	103.80	104.90	101.30	100.40	114.70	40.40	106.40	117.70	121.40	26.70	111.60	113.10	
7	1.80	0.00	103.90	104.90	101.20	100.40	116.80	40.00	106.40	117.80	115.00	26.50	110.80	113.00	
8	1.80	0.00	104.30	105.00	101.30	100.80	100.80	9.80	106.60	109.00	100.20	12.70	110.40	110.70	
9	1.80	0.00	104.70	105.30	101.50	101.10	93.70	1.90	107.00	107.10	89.00	0.00	110.20	110.10	
10	1.80	0.00	105.00	105.50	101.70	101.70	91.60	0.00	108.30	106.70	87.10	0.00	109.80	109.80	
11	1.80	0.00	105.60	106.00	102.00	102.30	91.00	0.00	107.90	106.80	87.00	0.00	109.60	109.60	
12	1.80	0.00	104.40	106.30	102.50	102.90	73.60	0.00	107.50	106.80	78.90	0.00	109.50	109.60	
13	1.80	0.00	104.70	106.70	103.00	103.40	106.90	33.70	108.30	115.20	71.30	0.00	109.20	109.50	
14	1.80	0.00	104.80	106.90	103.60	103.90	110.30	35.50	107.20	115.80	88.50	0.70	109.40	110.20	
15	1.80	0.00	105.00	107.10	103.90	104.30	108.10	35.00	106.50	116.10	108.10	20.60	109.60	110.90	
16	1.90	0.00	104.80	107.20	104.40	104.30	108.70	35.00	107.40	116.50	108.30	20.60	109.50	111.60	
17	5.30	0.00	104.40	107.20	104.60	104.40	110.30	35.00	107.30	116.40	108.30	20.50	109.90	111.50	
18	5.40	0.00	100.60	107.10	104.80	103.90	108.50	35.50	106.50	115.90	110.40	21.60	110.30	111.60	
19	5.30	0.00	100.00	106.80	104.40	103.70	131.40	41.50	106.90	117.00	114.10	26.60	110.80	112.50	
20	5.40	0.00	99.60	106.60	104.00	103.10	133.20	41.60	107.00	117.10	114.40	26.70	111.20	112.50	
21	5.30	0.00	99.40	106.20	103.80	102.70	134.90	41.60	106.70	117.60	123.20	34.70	111.60	114.20	
22	5.40	0.00	99.20	105.90	103.50	102.40	115.60	40.30	107.20	117.90	126.90	35.30	112.00	115.20	
23	5.30	0.00	99.20	105.90	103.10	102.00	105.70	40.40	106.70	118.10	121.00	34.70	112.30	115.40	
24	5.10	0.00	99.20	105.60	103.00	101.90	104.50	40.40	106.70	118.00	101.20	34.70	112.40	115.30	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. WA FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.			
1	127.10	14.40	113.60	114.80	125.80	79.90	116.00	117.50	99.90	115.70	116.00	117.70			114.80
2	123.30	14.60	113.50	114.60	128.00	81.30	115.70	117.40	99.90	115.70	115.70	117.70			114.80
3	120.90	14.40	113.40	114.50	125.60	79.90	115.60	117.40	99.90	115.40	115.70	117.70			114.70
4	115.90	14.40	113.60	114.40	121.40	79.90	115.50	117.10	99.90	115.50	115.50	117.80			114.40
5	115.50	14.40	113.60	114.20	122.40	75.90	115.20	117.10	99.90	115.40	115.40	117.90			114.20
6	115.90	14.40	113.70	114.10	120.70	60.00	115.00	116.30	99.90	115.50	115.10	118.00			114.10
7	120.30	14.40	113.80	114.00	122.30	60.00	114.80	116.20	100.00	115.20	114.90	117.90			114.10
8	121.80	15.40	113.80	115.20	120.90	60.00	114.60	116.10	100.00	115.20	114.90	118.00			113.70
9	105.80	15.20	113.60	114.70	124.40	61.10	114.50	116.40	100.10	115.20	114.70	118.00			113.80
10	88.40	13.80	113.60	114.40	108.70	54.70	114.50	116.20	100.10	115.20	114.70	118.00			113.70
11	82.50	13.70	113.70	114.30	106.30	52.80	114.50	115.10	99.90	115.10	114.70	118.10			113.60
12	78.00	13.80	113.70	114.40	89.10	44.30	114.60	114.90	99.90	115.00	114.70	118.30			113.70
13	75.40	12.10	113.40	113.90	87.70	44.10	114.70	114.50	99.90	115.40	114.80	118.40			114.10
14	75.70	12.40	113.40	113.70	85.00	44.20	114.80	114.30	99.90	116.40	114.90	118.40			114.60
15	80.50	14.00	113.30	114.00	83.90	43.30	114.80	114.30	99.90	116.50	114.80	117.60			115.00
16	106.40	14.10	113.20	114.10	85.00	44.20	115.30	113.90	213.90	40.40	116.70	115.20	116.20		115.60
17	113.90	14.20	113.30	114.40	98.90	50.00	115.30	114.60	213.60	40.30	116.80	115.30	115.50		115.60
18	115.90	14.10	113.50	114.60	101.80	51.60	115.60	114.70	213.60	40.90	117.00	115.30	115.20		115.90
19	123.80	14.10	113.20	114.60	114.70	58.10	115.40	115.80	272.30	97.70	116.80	115.30	116.80		116.00
20	125.00	14.20	112.90	114.10	115.60	58.20	115.20	115.90	275.80	99.90	115.60	115.30	118.40		116.00
21	127.30	14.40	112.80	113.50	133.30	67.30	115.00	116.30	276.80	100.40	115.20	115.20	117.90		115.60
22	126.70	14.20	112.40	113.50	137.20	68.10	114.50	117.10	276.40	100.30	114.70	114.80	117.80		114.80
23	123.80	14.10	111.60	112.90	135.40	67.60	114.30	117.10	276.00	100.30	114.80	114.90	117.70		113.90
24	100.90	14.20	111.30	112.30	116.20	58.00	114.10	116.40	275.80	100.10	114.60	114.80	117.70		113.30

10 JUN 2003

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

10 JUN 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	LOWER GRANITE	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.		
1	3.50	0.00	101.00	105.60	102.70	101.70	94.80	40.50	106.60	118.30	100.80	34.70	112.50	115.40	
2	3.60	0.00	109.20	105.40	102.60	101.50	102.90	40.50	106.20	0.00	101.20	35.30	112.10	115.40	
3	3.70	0.00	110.30	105.30	103.10	101.20	114.40	41.30	106.10	118.00	99.40	34.60	112.00	115.20	
4	3.80	0.00	110.40	105.20	103.00	100.80	112.80	40.60	105.90	118.00	101.40	34.70	111.80	115.30	
5	3.90	0.00	109.60	105.00	102.80	100.60	113.80	40.60	105.70	118.60	111.10	34.70	111.40	115.00	
6	4.00	0.00	109.30	105.10	102.40	100.60	119.00	40.50	105.60	117.80	116.00	29.20	110.70	114.20	
7	5.30	0.00	105.80	105.10	102.20	100.60	114.60	26.70	105.50	112.20	116.30	27.20	110.40	113.30	
8	5.40	0.00	100.00	105.20	102.00	100.80	112.70	19.60	105.80	111.50	115.00	26.70	110.10	113.10	
9	5.30	0.00	99.70	105.40	101.50	101.20	115.00	19.90	105.70	111.40	115.30	26.70	110.10	113.00	
10	5.40	0.00	99.90	105.70	101.50	101.90	106.50	12.80	105.70	108.70	114.00	26.70	109.90	113.00	
11	5.30	0.00	99.90	105.90	101.90	102.60	102.70	9.80	105.60	107.90	115.60	27.10	109.60	112.90	
12	5.40	0.00	99.90	106.10	102.20	103.20	85.90	9.80	105.40	107.80	109.10	26.60	109.40	112.80	
13	5.30	0.00	100.10	106.50	102.70	103.70	84.50	9.90	105.50	107.70	109.30	26.60	109.00	112.90	
14	5.40	0.00	100.10	106.60	103.20	104.00	98.20	26.30	105.60	112.30	93.10	10.30	108.80	110.30	
15	5.30	0.00	99.90	106.60	103.30	104.20	106.80	35.50	105.40	116.50	94.60	11.90	109.00	109.10	
16	7.20	0.00	100.00	106.80	103.50	104.00	114.10	41.00	105.40	117.50	105.30	21.00	109.30	110.50	
17	7.40	0.00	100.00	106.70	103.80	103.60	112.40	19.70	105.40	112.40	103.00	20.70	109.50	110.50	
18	7.50	0.00	99.90	106.70	103.80	103.40	112.40	20.00	105.30	110.10	105.50	23.00	109.80	110.70	
19	7.40	0.00	99.70	106.50	103.50	103.00	134.30	41.70	105.30	116.20	117.40	34.90	109.90	113.70	
20	7.50	0.00	99.50	106.10	103.20	102.30	134.20	41.60	105.30	116.60	119.60	35.60	109.90	114.40	
21	7.40	0.00	99.30	105.70	102.90	101.90	132.90	41.50	105.30	116.60	119.00	35.00	110.20	114.50	
22	7.50	0.00	99.30	105.50	102.70	101.70	126.30	42.20	105.30	116.80	117.30	35.10	110.30	114.60	
23	7.40	0.00	99.30	105.40	102.60	101.20	101.20	41.50	105.00	116.70	117.20	35.10	110.40	114.50	
24	3.50	0.00	99.60	105.20	102.40	101.00	100.10	41.50	104.70	116.60	119.50	35.70	110.60	114.70	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	MCNARY	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	PASCO	
1	99.40	14.20	111.00	112.00	52.20	113.70	115.30	248.20	99.90	114.40	114.60	117.60	112.70		
2	101.50	14.20	111.20	112.20	98.90	49.40	113.40	114.60	99.90	114.30	114.60	117.60	111.90		
3	99.70	14.20	111.00	111.80	99.00	49.60	113.10	114.40	99.90	114.50	114.30	117.60	111.50		
4	99.80	14.20	111.20	111.90	98.90	49.50	112.80	114.40	99.90	114.30	113.90	117.60	111.30		
5	101.90	14.40	111.30	111.70	100.40	50.80	112.60	114.40	100.50	113.80	113.60	117.60	111.30		
6	114.00	14.10	111.70	111.60	114.80	56.60	112.40	115.00	100.00	113.10	112.90	117.60	111.40		
7	114.40	14.10	111.80	111.70	113.80	56.60	112.10	115.10	93.10	113.40	112.70	117.70	111.40		
8	114.90	14.10	111.90	111.90	116.00	57.70	112.10	115.20	100.70	113.10	112.40	117.70	111.40		
9	115.40	14.20	111.80	112.20	114.00	56.70	112.00	115.20	96.60	112.90	112.10	117.80	111.70		
10	115.70	14.10	112.10	112.40	114.60	56.70	112.00	115.40	100.90	112.50	111.90	117.70	111.80		
11	115.70	14.20	112.20	112.60	114.90	56.70	112.20	115.50	101.00	112.40	111.80	117.80	112.30		
12	115.70	14.40	112.20	113.00	112.60	56.70	112.10	115.50	101.00	112.30	111.70	117.70	112.90		
13	115.60	14.20	112.40	113.20	116.00	56.70	112.10	115.50	100.90	112.00	111.80	117.90	113.40		
14	117.70	15.00	112.30	113.30	116.10	56.60	112.20	115.70	100.90	112.00	111.90	117.90	114.10		
15	113.40	19.90	112.10	116.30	112.30	56.70	112.10	115.50	100.90	112.20	111.80	117.90	114.60		
16	105.20	19.90	111.50	116.60	119.00	57.80	112.40	115.60	101.00	112.20	111.80	117.80	115.00		
17	99.70	19.90	111.50	116.60	113.80	56.70	112.60	115.50	101.00	112.10	112.00	117.80	115.50		
18	101.60	20.10	111.50	118.00	104.40	52.30	112.40	115.10	290.20	115.70	112.10	112.10	118.00	115.30	
19	102.90	19.40	111.10	118.50	102.20	51.60	112.30	115.00	306.00	130.00	111.70	112.20	119.40	114.90	
20	117.60	20.10	110.90	116.30	103.30	51.60	112.10	114.70	306.20	130.20	111.60	111.90	119.50	114.70	
21	122.20	19.70	110.40	115.60	116.30	56.80	111.80	114.80	305.80	130.20	111.20	112.10	119.50	114.30	
22	121.20	20.00	110.30	115.20	122.80	61.00	111.60	115.80	305.80	130.20	110.80	111.80	119.50	113.90	
23	85.00	58.10	110.10	128.70	118.60	58.80	111.40	115.90	305.00	130.20	110.60	111.50	119.50	113.70	
24	114.40	29.70	110.10	7543.90	100.20	49.80	111.20	115.30	304.60	130.20	110.50	111.40	119.40	113.30	

11 JUN 2003

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

11 JUN 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	LOWER GRANITE	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.		
1	3.40	0.00	101.80	105.00	102.30	100.80	100.00	41.60	104.50	116.40	101.80	35.00	111.00	114.60	
2	3.30	0.00	102.30	105.00	102.20	100.60	100.20	41.70	104.40	116.50	101.10	35.00	111.20	114.70	
3	3.40	0.00	103.30	104.90	102.00	100.40	108.50	41.70	104.40	116.60	109.00	34.90	111.10	114.80	
4	3.30	0.00	104.00	104.70	101.60	100.30	119.40	42.40	104.50	116.70	117.20	34.90	110.70	114.40	
5	3.40	0.00	104.80	104.70	101.40	100.00	118.30	41.70	104.40	116.60	119.90	35.60	109.90	114.70	
6	4.10	0.00	105.90	104.60	101.20	100.00	115.00	37.60	104.50	116.50	118.60	34.60	109.50	114.70	
7	7.50	0.00	104.10	104.60	101.30	100.10	107.10	15.60	104.40	111.00	107.20	24.60	109.00	113.30	
8	7.40	0.00	103.30	104.70	101.30	100.30	108.10	15.60	104.50	110.30	106.80	24.30	109.00	112.70	
9	7.50	0.00	103.30	105.00	101.30	100.80	102.30	9.80	104.50	107.70	99.00	15.10	108.90	110.40	
10	7.40	0.00	103.30	105.30	101.50	101.40	104.00	10.00	104.50	107.40	97.20	14.80	109.10	109.50	
11	7.50	0.00	103.30	105.60	101.90	102.00	102.30	9.80	104.40	107.10	97.20	14.80	109.00	109.40	
12	7.30	0.00	103.50	106.00	102.30	102.40	102.10	9.80	104.40	107.00	97.00	14.80	109.20	109.50	
13	7.50	0.00	103.50	106.30	102.70	102.90	101.60	9.80	104.40	107.10	98.40	14.80	109.30	109.60	
14	7.40	0.00	103.60	106.50	103.20	103.30	101.50	9.80	104.50	106.90	98.90	15.10	109.40	109.60	
15	7.50	0.00	103.60	106.80	103.70	103.70	103.30	10.00	104.70	106.90	97.30	14.90	109.60	109.70	
16	7.50	0.00	103.40	107.00	104.00	103.70	102.40	9.90	104.60	106.70	97.40	14.90	109.70	109.80	
17	7.40	0.00	103.40	106.90	104.20	103.60	102.20	9.90	104.90	106.80	114.90	32.50	109.90	113.10	
18	7.50	0.00	103.40	106.90	104.30	103.40	101.80	9.90	104.90	106.70	120.20	35.70	110.20	114.90	
19	7.40	0.00	103.30	106.70	104.30	103.20	122.20	40.00	105.30	116.30	118.00	35.00	110.50	115.00	
20	7.50	0.00	103.10	106.20	104.00	102.70	122.50	40.60	104.90	117.00	118.20	35.00	110.80	115.30	
21	7.40	0.00	103.10	106.10	103.80	102.30	124.70	41.30	105.10	117.30	117.80	35.00	111.00	115.20	
22	7.50	0.00	103.10	105.90	103.40	102.00	122.90	40.50	105.50	117.40	118.40	35.70	111.50	115.10	
23	7.20	0.00	103.00	105.50	103.30	101.70	122.90	40.50	105.80	117.50	118.40	69.00	111.10	145.40	
24	3.40	0.00	103.00	105.40	102.90	101.60	116.90	40.50	104.80	117.50	113.20	35.10	110.90	124.10	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	MCNARY	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	PASCO	
1	121.20	19.50	110.20	115.40	49.80	111.00	114.40	306.40	130.20	110.40	111.20	119.30	113.20		
2	100.60	19.50	110.60	115.20	51.30	110.70	114.40	306.60	130.20	110.30	110.80	119.50	112.80		
3	102.00	19.80	111.00	115.20	55.10	110.50	114.50	306.50	130.20	110.30	110.50	119.40	112.50		
4	100.90	19.50	110.80	115.20	55.00	110.50	114.40	306.60	130.20	110.20	110.30	119.40	112.30		
5	110.00	19.50	110.90	114.80	55.00	110.20	114.50	306.50	130.20	110.20	110.00	119.30	112.10		
6	110.10	19.50	111.60	999.00	45.00	110.00	114.20	306.60	130.20	110.00	110.00	119.40	111.70		
7	110.30	19.50	112.00	117.10	45.00	109.90	114.10	306.70	130.20	109.80	109.80	119.40	111.70		
8	117.50	19.50	112.40	115.10	45.00	109.70	114.20	306.70	130.20	110.10	109.70	119.50	111.70		
9	118.30	19.90	112.90	115.00	45.10	109.70	114.40	306.00	130.20	109.70	109.50	119.70	111.70		
10	105.20	19.50	112.70	115.60	45.20	109.70	114.50	306.10	130.20	110.30	109.60	119.70	111.90		
11	98.80	19.50	112.90	116.20	45.10	109.70	114.50	306.20	130.20	110.40	109.70	119.80	112.10		
12	97.40	19.50	112.70	116.40	45.90	109.90	114.50	305.00	130.20	110.90	109.80	119.60	112.50		
13	88.00	19.50	112.80	116.70	45.00	110.00	114.70	304.60	130.10	111.50	110.00	119.80	113.00		
14	87.40	19.50	112.30	116.70	45.00	110.10	114.50	304.20	130.10	112.00	110.20	119.80	113.50		
15	89.00	19.80	112.50	117.10	45.00	110.30	114.50	304.80	130.20	112.50	110.40	119.70	114.00		
16	86.50	25.30	112.30	118.40	45.00	110.60	114.50	305.40	130.20	112.30	110.70	119.90	114.40		
17	87.10	24.50	111.70	118.50	45.00	111.20	114.10	305.40	130.20	109.90	111.20	119.90	114.80		
18	104.20	24.80	112.60	118.70	46.30	112.10	114.20	303.60	130.20	110.40	112.00	119.70	115.00		
19	115.60	22.10	112.90	118.00	49.40	111.30	116.20	303.30	130.10	110.80	111.80	119.70	115.10		
20	126.40	23.30	112.70	118.00	49.90	111.70	117.40	303.60	130.10	109.60	112.10	119.80	115.00		
21	133.20	23.30	111.90	117.80	134.10	89.90	111.70	304.30	129.90	110.20	112.60	119.70	114.90		
22	133.90	23.70	112.00	117.20	134.10	89.90	111.40	304.30	129.90	110.00	112.70	119.70	114.70		
23	129.50	23.30	111.80	116.80	132.70	90.00	111.80	303.20	129.90	109.70	112.50	119.80	114.60		
24	121.00	23.30	111.50	116.60	132.20	89.90	111.30	301.10	129.70	109.70	111.90	119.80	114.40		

12 JUN 2003

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

12 JUN 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	LOWER GRANITE	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.		
1	3.30	0.00	104.50	105.40	102.80	101.40	110.20	40.50	105.10	117.70	117.80	35.00	110.90	117.20	
2	3.40	0.00	105.90	105.30	102.50	101.30	113.00	40.50	104.70	117.70	118.10	35.00	110.80	115.60	
3	3.30	0.00	106.30	105.10	102.30	101.00	115.00	41.20	104.70	117.70	120.30	35.60	109.60	115.10	
4	3.40	0.00	106.30	105.00	102.20	100.80	112.60	40.50	104.50	117.70	118.10	35.00	109.50	115.00	
5	3.30	0.00	106.00	104.90	101.90	100.70	112.90	40.40	104.50	117.80	118.00	34.90	109.20	114.80	
6	3.40	0.00	105.70	104.90	101.60	100.50	108.80	36.00	104.50	117.70	117.20	34.00	109.10	114.90	
7	7.30	0.00	104.40	104.90	101.50	100.60	100.20	9.80	104.40	107.90	103.70	19.00	109.00	112.00	
8	7.50	0.00	103.00	105.10	101.70	100.90	94.80	3.00	104.60	105.80	103.40	18.70	108.90	110.80	
9	7.30	0.00	103.30	105.40	101.60	101.40	91.80	0.00	105.00	105.30	95.80	12.70	109.00	109.80	
10	7.50	0.00	103.60	105.60	101.90	102.10	91.30	0.00	105.30	104.90	92.10	9.00	109.10	108.90	
11	7.50	0.00	103.70	105.90	102.30	102.70	94.10	0.00	105.40	104.80	93.80	9.20	109.30	108.80	
12	7.40	0.00	104.10	106.30	102.70	103.20	90.30	0.00	106.10	104.90	92.00	9.00	109.80	108.80	
13	7.50	0.00	104.20	103.00	103.10	103.60	90.10	0.00	105.50	104.90	92.20	9.10	109.30	108.90	
14	7.40	0.00	104.30	106.80	103.50	104.00	91.80	0.00	106.00	105.00	92.30	9.10	109.30	108.90	
15	7.50	0.00	104.30	107.30	104.00	104.40	89.80	0.00	106.70	104.90	92.10	9.10	109.40	108.80	
16	7.30	0.00	104.40	107.30	104.10	0.00	91.40	0.00	105.90	104.90	93.80	9.20	109.70	108.80	
17	7.50	0.00	104.30	107.30	104.30	103.70	89.80	0.00	105.50	104.90	92.00	9.00	109.90	108.90	
18	7.30	0.00	104.30	107.10	0.00	0.00	91.50	2.40	105.10	104.90	93.20	9.10	110.20	108.80	
19	7.50	0.00	103.90	106.90	104.30	0.00	112.50	40.60	105.30	116.60	87.80	22.00	110.30	110.30	
20	7.40	0.00	103.80	106.50	103.90	0.00	109.60	40.60	105.00	117.40	101.20	35.60	110.40	114.20	
21	7.50	0.00	103.80	106.10	103.50	0.00	109.60	40.60	105.00	117.40	106.20	35.00	110.30	114.80	
22	7.30	0.00	103.70	105.80	103.30	0.00	111.60	41.20	105.20	117.60	111.70	34.90	110.40	114.80	
23	7.10	0.00	103.80	105.60	103.00	0.00	109.70	40.50	105.30	117.50	110.20	35.00	110.70	114.50	
24	3.30	0.00	103.80	105.50	102.80	0.00	109.70	40.50	105.30	117.70	112.10	35.60	110.90	114.40	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	MCNARY	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	PASCO	
1	113.80	23.30	111.60	116.10	124.70	89.90	111.00	117.90	129.90	109.80	112.00	119.70	114.20		
2	114.80	23.30	111.60	116.00	126.40	91.50	110.90	117.70	129.90	109.70	112.30	119.60	113.90		
3	111.60	23.30	111.80	115.80	117.30	89.90	111.30	117.50	129.90	110.00	112.00	119.70	113.80		
4	112.20	23.30	112.20	115.80	112.80	89.90	111.50	117.30	129.90	109.70	111.70	119.80	113.80		
5	110.70	23.30	112.20	115.70	107.10	84.70	111.80	117.00	130.00	109.90	111.60	119.80	113.40		
6	113.30	23.70	113.10	115.80	103.50	45.00	111.60	115.00	130.00	109.80	111.30	119.70	113.10		
7	113.30	23.30	113.30	116.00	111.50	45.00	111.40	114.20	134.50	109.90	111.20	119.20	112.90		
8	112.40	23.10	113.40	116.00	116.10	45.00	111.40	114.30	130.10	110.80	111.30	119.70	112.80		
9	102.40	23.40	113.40	116.10	119.80	45.80	111.40	114.50	127.50	110.90	111.30	119.80	112.80		
10	101.60	23.40	114.30	116.30	109.10	44.90	111.50	114.70	130.20	110.70	111.50	119.80	113.00		
11	95.20	23.50	114.40	116.80	123.10	54.30	111.50	114.70	130.20	110.90	111.50	119.90	113.10		
12	89.10	23.90	114.50	117.10	96.40	44.90	111.60	114.60	130.20	112.00	111.60	120.00	113.50		
13	90.10	23.40	114.40	117.50	94.70	45.70	111.80	114.60	130.20	112.70	111.80	120.00	113.80		
14	90.80	23.40	114.50	117.60	91.30	44.90	112.00	114.50	125.60	113.10	112.20	120.00	114.10		
15	90.20	23.80	114.30	117.80	90.40	44.90	112.40	114.40	130.10	111.70	112.60	119.90	114.50		
16	90.80	30.30	114.20	118.90	92.10	44.90	112.80	114.20	130.20	112.20	112.60	120.10	114.90		
17	90.30	29.60	113.90	119.00	91.10	44.90	113.20	114.30	130.20	111.60	112.70	119.90	115.20		
18	90.00	28.60	113.40	118.90	93.30	47.30	113.10	114.20	130.20	111.30	112.90	119.80	115.40		
19	97.20	29.10	113.30	118.90	102.20	90.50	112.90	115.80	130.20	111.10	112.90	119.70	115.40		
20	107.50	28.60	113.10	118.60	111.30	101.30	112.90	117.20	130.20	111.00	112.80	119.80	115.20		
21	108.20	28.60	112.50	118.40	109.40	99.60	112.90	117.40	130.20	111.00	112.70	119.70	114.80		
22	107.70	28.60	112.10	99.99	109.40	99.50	112.80	117.50	130.20	110.40	112.40	119.70	114.40		
23	110.30	28.60	111.10	-999.00	109.30	99.50	112.70	117.50	130.20	110.40	112.40	119.70	114.10		
24	112.20	28.60	111.60	-999.00	113.20	99.60	112.50	117.50	130.20	110.50	112.00	119.70	113.80		

13 JUN 2003

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

13 JUN 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.			
1	3.40	0.00	106.00	105.40	102.60	0.00	110.00	40.50	105.50	117.70	110.30	34.90	111.10	114.70	
2	3.30	0.00	106.70	105.20	102.60	0.00	109.70	40.40	104.90	117.60	110.50	34.90	111.30	114.80	
3	3.40	0.00	106.40	105.00	102.40	0.00	113.40	41.10	104.70	117.70	110.00	34.90	111.40	114.70	
4	3.30	0.00	106.30	104.70	102.00	0.00	109.90	40.40	104.60	117.60	110.10	34.90	111.50	114.70	
5	3.40	0.00	106.40	104.70	101.60	0.00	109.30	40.40	104.70	117.70	111.60	35.50	111.50	114.80	
6	3.30	0.00	106.40	104.60	101.50	0.00	99.90	39.60	104.80	118.20	101.50	33.60	110.90	114.90	
7	7.20	0.00	105.90	104.60	101.40	0.00	91.20	0.00	104.60	106.80	91.30	10.70	110.60	111.90	
8	7.40	0.00	103.40	104.50	101.50	0.00	92.10	0.00	104.60	105.30	92.70	10.70	110.40	110.10	
9	7.50	0.00	103.30	104.50	101.00	0.00	77.90	0.00	104.50	105.20	83.70	0.00	110.10	109.70	
10	7.50	0.00	103.10	104.70	101.00	0.00	80.00	0.00	104.70	105.20	81.20	0.00	110.20	109.70	
11	7.40	0.00	103.40	105.10	101.00	0.00	76.60	0.00	104.80	104.90	80.70	0.00	109.20	109.30	
12	7.50	0.00	103.50	105.50	101.30	0.00	76.50	0.00	105.00	104.90	75.50	0.00	109.00	108.80	
13	7.40	0.00	103.70	105.90	101.90	0.00	89.40	0.00	105.00	105.20	76.30	0.00	108.70	108.60	
14	7.50	0.00	103.80	106.20	102.50	0.00	91.80	0.00	105.60	105.10	82.10	0.00	107.80	108.50	
15	7.30	0.00	103.80	106.40	102.90	0.00	91.00	0.00	106.10	105.00	79.30	0.00	107.60	108.00	
16	7.50	0.00	104.00	106.60	103.20	0.00	94.70	0.00	106.10	105.30	79.20	0.00	107.40	107.70	
17	7.30	0.00	104.10	106.40	103.40	0.00	91.80	0.00	106.20	105.00	82.00	0.00	107.20	107.30	
18	7.50	0.00	103.80	106.20	103.30	0.00	90.70	0.00	105.00	104.90	87.30	5.40	107.20	107.40	
19	7.40	0.00	103.70	106.00	103.30	0.00	116.40	38.40	105.00	116.20	115.00	34.20	107.00	111.90	
20	7.50	0.00	103.60	105.70	103.00	0.00	117.70	40.50	104.80	116.90	114.80	35.10	107.20	113.70	
21	7.40	0.00	103.50	105.50	102.70	0.00	104.70	40.40	104.70	117.50	115.70	35.80	107.60	114.00	
22	7.50	0.00	103.30	105.10	102.50	0.00	105.80	41.10	104.40	117.60	113.40	35.00	108.10	114.00	
23	7.20	0.00	103.10	105.00	102.40	0.00	99.30	40.30	104.40	117.80	113.40	35.00	108.80	114.00	
24	3.50	0.00	104.50	104.80	102.20	0.00	94.90	40.40	104.10	117.90	112.90	35.00	109.40	114.20	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. WA FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB	TOTAL DISCH. KCFS	GAS %SAT	
1	114.90	29.10	111.90	117.70	115.10	99.70	112.40	117.70	130.10	110.40	111.90	119.50	113.40		
2	112.80	28.60	112.80	117.60	115.60	101.40	112.30	117.80	129.90	110.00	111.60	119.50	113.10		
3	112.30	28.60	113.20	117.50	115.20	99.70	112.10	117.70	129.90	110.10	111.60	119.50	113.20		
4	112.40	28.60	113.80	117.50	113.80	99.80	112.10	117.80	129.90	110.60	111.30	119.60	113.30		
5	112.10	28.60	114.70	117.50	109.50	93.30	111.90	117.60	129.90	111.10	111.20	119.50	113.30		
6	101.40	28.60	117.70	117.30	116.80	59.90	111.50	115.70	280.80	105.00	111.10	111.20	119.40	113.10	
7	98.80	28.60	117.00	117.20	119.60	59.90	111.40	115.80	222.50	49.60	111.10	111.10	117.70	112.80	
8	100.20	29.10	117.80	117.40	119.10	59.10	111.20	115.90	221.80	49.60	111.30	111.10	116.50	112.50	
9	87.00	28.60	116.40	117.30	100.10	50.00	111.40	115.30	221.50	49.80	111.20	111.40	116.40	112.30	
10	86.60	28.60	115.60	117.70	101.10	49.60	111.30	114.60	222.00	50.00	110.90	111.10	116.20	112.30	
11	86.30	28.60	115.40	117.80	91.10	44.50	111.20	114.10	221.50	50.00	111.10	111.50	116.30	112.60	
12	78.80	28.60	115.20	117.90	86.90	42.70	111.40	114.00	221.70	50.00	111.10	111.70	116.30	113.00	
13	74.90	28.60	115.30	118.00	79.70	38.60	111.40	113.50	221.40	50.10	112.60	111.70	116.30	113.30	
14	76.70	29.70	114.90	118.20	78.80	38.30	111.60	115.30	224.10	50.20	113.60	112.00	116.40	113.30	
15	72.20	32.20	114.80	118.20	61.50	30.30	111.80	115.10	223.80	50.30	113.90	112.20	116.40	113.20	
16	72.40	32.20	114.70	118.30	63.40	30.80	111.80	113.40	223.90	50.30	113.70	112.20	116.40	112.90	
17	75.10	32.20	114.30	118.40	60.80	30.20	111.70	112.10	223.90	50.30	113.70	112.30	116.40	113.00	
18	80.20	28.40	113.80	119.00	62.20	31.70	111.70	111.00	223.10	50.30	113.20	112.10	116.10	112.80	
19	83.90	32.30	113.00	118.60	82.80	43.50	111.60	111.00	257.90	101.60	112.60	112.10	116.20	112.60	
20	96.70	25.10	112.90	117.60	89.00	46.50	111.40	113.30	303.00	130.70	111.80	112.00	118.40	112.40	
21	126.10	31.50	111.30	118.70	104.90	54.00	111.50	114.00	304.60	130.50	111.40	118.90	112.10		
22	125.20	30.80	110.80	118.50	125.90	63.40	111.30	115.20	304.70	130.20	111.10	118.90	111.90		
23	125.20	30.80	110.30	118.20	130.00	65.00	111.30	116.10	304.90	130.20	110.90	118.90	111.90		
24	125.40	30.80	109.60	118.00	130.30	65.00	111.30	116.00	304.60	130.30	110.60	119.00	111.70		

14 JUN 2003

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

14 JUN 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	LITTLE GOOSE	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.		
1	2.20	0.00	113.70	104.60	101.90	0.00	94.60	40.30	103.90	118.00	105.10	34.90	109.50	114.40	
2	2.20	0.00	110.50	104.40	102.30	0.00	96.40	40.30	103.80	118.00	97.00	35.50	109.50	114.60	
3	2.20	0.00	104.90	104.40	102.00	0.00	96.30	41.10	103.70	118.10	96.00	34.90	109.40	114.60	
4	2.20	0.00	103.50	104.40	101.40	0.00	94.70	40.40	103.60	118.10	94.20	34.80	109.50	114.50	
5	2.20	0.00	103.10	104.10	101.10	0.00	98.30	40.40	103.60	118.00	94.40	34.80	109.70	114.80	
6	2.20	0.00	103.10	104.10	101.00	0.00	99.90	39.50	103.50	117.90	92.80	32.30	109.40	114.80	
7	2.20	0.00	103.10	104.10	100.80	0.00	85.20	0.00	103.60	106.60	80.50	0.00	108.70	110.50	
8	2.20	0.00	103.30	104.20	100.90	0.00	90.40	0.00	103.50	105.00	84.10	0.00	108.50	108.90	
9	2.20	0.00	103.40	104.30	100.90	0.00	86.70	0.00	103.60	104.60	83.70	0.00	108.30	108.50	
10	2.20	0.00	103.50	104.60	101.00	0.00	85.80	0.00	103.80	104.30	83.70	0.00	108.20	108.10	
11	2.20	0.00	103.90	104.90	101.40	0.00	78.60	0.00	103.90	104.20	83.60	0.00	108.20	108.00	
12	2.20	0.00	104.20	105.30	101.70	0.00	77.20	0.00	103.90	104.20	82.30	0.00	108.10	108.00	
13	2.20	0.00	104.20	105.70	102.00	0.00	77.00	0.00	104.10	104.10	82.20	0.00	107.60	107.70	
14	2.20	0.00	104.30	106.10	102.40	0.00	74.90	0.00	104.20	104.10	78.30	0.00	107.10	107.20	
15	2.20	0.00	104.50	106.30	102.80	0.00	74.70	0.00	104.10	104.20	76.80	0.00	106.60	107.00	
16	2.20	0.00	104.80	106.30	103.40	0.00	75.80	0.00	104.20	104.10	75.00	0.00	106.70	106.80	
17	2.20	0.00	104.80	106.40	103.60	0.00	65.50	0.00	104.40	104.20	66.70	0.00	106.40	106.50	
18	2.20	0.00	104.60	106.20	103.70	0.00	66.00	1.70	104.30	104.10	67.40	1.30	106.30	106.30	
19	2.20	0.00	104.20	105.90	103.70	0.00	84.30	40.50	104.30	116.50	87.10	39.90	106.50	113.30	
20	2.20	0.00	103.70	105.70	103.30	0.00	89.40	40.60	104.70	117.70	84.00	39.20	106.50	115.40	
21	2.20	0.00	103.40	105.40	103.00	0.00	95.30	40.60	104.50	117.90	88.20	39.20	106.00	115.40	
22	2.20	0.00	103.10	105.20	102.60	0.00	101.50	40.40	103.80	117.60	88.90	39.20	106.00	115.40	
23	2.20	0.00	102.80	105.30	102.30	0.00	93.70	41.10	103.90	118.20	88.50	39.20	106.10	115.50	
24	2.20	0.00	102.70	105.00	102.20	0.00	81.70	40.40	103.70	118.80	85.80	40.00	106.20	115.60	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	PASCO	GAS %SAT				
1	125.50	30.80	109.10	117.80	64.90	111.30	116.20	305.50	130.40	110.50	111.00	119.10	:	111.70	
2	125.00	30.80	108.80	117.60	64.90	111.10	116.30	305.90	130.50	110.60	110.70	119.00	:	111.50	
3	100.80	30.80	108.60	116.90	64.90	110.90	116.20	306.50	130.70	110.30	110.20	119.10	:	111.40	
4	94.40	31.40	108.70	116.70	56.30	110.80	116.00	306.90	131.00	110.20	109.90	119.10	:	111.40	
5	87.90	30.80	109.40	116.70	55.80	110.80	114.40	306.80	130.70	110.00	109.60	119.00	:	111.40	
6	87.50	30.80	109.60	-999.00	52.20	110.60	114.40	290.40	114.70	110.00	109.40	119.00	:	111.30	
7	87.20	30.80	109.70	-999.00	44.60	110.70	113.90	246.70	75.80	109.70	109.20	117.00	:	111.20	
8	88.60	30.80	109.90	1.70	44.50	110.50	113.70	261.40	89.10	109.60	109.00	116.30	:	111.10	
9	84.70	30.80	110.00	0.00	41.90	110.60	113.70	257.90	86.00	109.60	109.00	116.30	:	111.10	
10	82.10	30.80	110.50	-999.00	40.10	110.60	112.90	265.10	92.60	109.60	109.00	116.70	:	111.30	
11	83.20	31.40	111.00	-999.00	39.40	110.60	112.80	267.00	92.60	109.60	109.00	116.90	:	111.70	
12	83.10	30.80	110.60	-999.00	39.50	110.70	112.70	267.50	92.60	109.60	109.10	117.00	:	112.00	
13	81.50	30.80	110.60	-999.00	39.50	110.80	112.90	267.20	92.60	109.80	109.20	117.20	:	112.60	
14	73.10	30.80	111.60	117.60	39.60	111.10	112.80	267.10	92.60	110.10	109.50	117.30	:	113.00	
15	72.60	30.80	112.00	117.80	39.60	111.10	112.90	267.30	92.60	111.10	109.70	117.30	:	113.50	
16	74.20	31.40	112.10	117.90	39.50	111.20	112.80	267.50	92.60	111.60	109.90	117.40	:	113.80	
17	72.80	30.80	112.40	118.00	40.20	111.20	112.90	268.00	92.60	111.70	110.20	117.40	:	114.30	
18	69.90	30.80	112.50	118.00	39.50	111.70	112.80	268.30	93.10	113.10	110.20	117.40	:	114.40	
19	83.40	37.10	112.20	119.20	42.40	111.90	112.60	305.00	128.80	112.60	110.30	118.40	:	114.60	
20	84.50	37.60	111.80	119.00	42.50	111.80	113.10	304.50	128.40	112.70	110.80	118.80	:	114.40	
21	89.20	38.30	111.20	118.70	42.50	111.80	113.10	305.10	128.90	110.80	111.70	119.00	:	114.30	
22	88.30	37.50	111.20	1.80	42.80	111.60	113.10	305.80	129.30	110.80	111.40	119.00	:	114.00	
23	88.50	37.60	110.60	118.30	42.90	111.60	113.10	305.50	129.20	110.70	111.40	119.10	:	113.90	
24	83.70	37.60	109.90	118.10	42.80	111.90	113.20	305.60	129.20	110.70	111.00	119.10	:	113.70	

15 JUN 2003

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

15 JUN 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	LOWER GRANITE	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.		
1	2.20	0.00	102.60	104.80	102.00	0.00	76.50	40.40	103.50	119.00	74.60	39.30	106.30	115.80	
2	2.20	0.00	102.60	104.60	101.70	0.00	76.10	40.40	103.60	118.80	72.20	39.30	106.40	116.10	
3	2.20	0.00	102.40	104.40	101.50	0.00	76.20	40.50	103.60	119.20	72.10	39.20	106.70	116.10	
4	2.20	0.00	102.40	104.30	101.20	0.00	76.40	40.50	103.50	119.20	73.40	39.90	107.00	116.10	
5	2.20	0.00	102.20	104.20	100.90	0.00	86.00	41.30	103.30	118.80	72.60	39.30	107.00	116.10	
6	2.20	0.00	102.20	104.10	100.80	0.00	90.80	40.60	102.90	118.50	85.80	38.70	107.30	115.80	
7	2.20	0.00	102.40	104.10	100.60	0.00	89.90	0.00	102.70	106.20	81.00	0.00	108.00	110.50	
8	2.20	0.00	102.60	104.20	100.80	0.00	86.30	0.00	102.90	104.40	82.20	0.00	108.30	108.90	
9	2.20	0.00	103.00	104.50	101.00	0.00	83.60	0.00	102.80	104.00	83.70	0.00	108.20	108.70	
10	2.20	0.00	103.50	105.00	101.30	0.00	84.10	0.00	102.90	103.90	82.30	0.00	108.30	108.60	
11	2.20	0.00	103.80	105.20	101.70	0.00	80.80	0.00	103.10	103.50	82.30	0.00	108.40	108.60	
12	2.20	0.00	104.20	105.60	102.20	0.00	80.60	0.00	103.00	103.60	82.40	0.00	108.30	108.60	
13	2.20	0.00	104.50	105.90	102.60	0.00	82.10	0.00	103.50	103.40	85.60	0.00	108.30	108.60	
14	2.20	0.00	104.70	106.10	103.10	0.00	80.50	0.00	103.60	103.50	82.60	0.00	108.30	108.40	
15	2.20	0.00	104.70	106.30	103.40	0.00	77.90	0.00	103.90	103.60	81.10	0.00	108.10	108.20	
16	2.20	0.00	104.60	106.50	103.70	0.00	78.80	0.00	103.50	103.70	78.00	0.00	108.20	108.20	
17	2.20	0.00	104.60	106.50	103.90	0.00	77.00	0.00	103.30	103.60	77.90	0.00	108.00	108.00	
18	2.20	0.00	104.30	106.40	103.70	0.00	78.20	1.40	103.30	103.40	76.10	0.80	108.00	107.90	
19	2.20	0.00	103.90	106.00	103.80	0.00	82.30	42.10	103.60	117.20	81.00	39.00	107.30	113.70	
20	2.20	0.00	103.30	105.60	103.40	0.00	79.60	42.30	103.80	119.50	79.70	39.00	107.50	115.50	
21	2.20	0.00	102.70	105.20	103.00	0.00	79.60	42.30	103.20	120.00	79.60	39.00	106.80	115.80	
22	2.20	0.00	102.70	105.00	102.50	0.00	79.50	42.30	103.00	120.10	80.40	39.60	106.40	115.70	
23	2.20	0.00	102.40	104.80	102.30	0.00	80.70	43.10	102.90	120.30	79.00	38.90	106.00	115.60	
24	2.20	0.00	102.30	104.80	102.00	0.00	79.10	42.30	102.80	120.40	80.50	38.90	106.30	115.70	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	MCNARY	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	PASCO	
1	71.60	35.80	110.00	117.60	37.60	111.80	112.90	306.00	129.10	110.60	110.90	27.70	0.00	113.50	
2	69.30	34.00	109.30	117.50	37.60	111.90	112.20	305.60	128.90	110.30	110.80	27.70	0.00	113.30	
3	71.00	34.70	109.00	117.10	37.50	111.80	112.00	305.80	129.00	110.20	110.60	27.70	0.00	113.10	
4	69.60	34.00	108.50	117.10	37.30	111.40	112.10	305.70	128.70	110.10	110.50	27.70	0.00	113.00	
5	76.20	34.80	108.60	117.00	37.50	111.30	111.80	305.60	128.70	109.90	110.10	27.70	0.00	112.60	
6	79.00	36.20	108.20	-999.00	83.20	44.40	111.30	295.40	119.20	109.60	110.00	27.70	0.00	112.40	
7	88.60	37.70	107.90	-999.00	88.90	44.60	111.40	156.10	0.00	109.40	109.80	27.50	0.00	112.20	
8	84.80	37.60	108.10	0.00	87.30	45.40	111.50	173.80	0.00	109.50	109.70	26.10	0.00	112.00	
9	83.60	38.30	108.70	117.80	83.40	44.60	111.80	175.30	0.00	109.90	109.40	25.70	0.00	112.20	
10	82.00	37.60	109.00	118.20	84.30	44.60	112.00	174.50	0.00	110.50	109.30	25.60	0.00	112.50	
11	82.10	37.60	109.20	118.30	82.00	44.60	113.10	173.80	0.00	111.70	109.50	25.50	0.00	112.90	
12	82.00	37.60	110.00	118.60	82.10	44.60	112.70	172.40	0.00	112.10	109.70	25.50	0.00	113.20	
13	82.00	37.60	110.50	118.90	82.10	44.60	112.40	171.00	0.00	112.80	109.70	25.50	0.00	113.70	
14	83.60	38.30	111.10	119.00	85.00	45.40	112.00	169.60	0.00	113.50	109.60	25.50	0.00	113.90	
15	82.20	37.60	111.60	0.00	82.00	44.60	112.90	172.40	0.00	115.50	109.90	25.50	0.00	113.80	
16	80.70	36.20	111.90	119.70	83.50	44.70	113.40	172.50	0.00	116.00	110.00	25.50	0.00	114.00	
17	70.50	26.70	111.60	119.80	77.80	44.80	113.30	172.10	0.00	114.50	110.40	25.50	0.00	113.80	
18	75.60	33.60	112.10	-999.00	77.40	45.10	112.80	197.20	25.40	114.70	111.40	110.10	0.00	113.90	
19	77.30	34.70	112.30	118.40	78.50	64.30	112.00	305.80	129.70	115.70	111.30	116.80	0.00	113.90	
20	89.10	35.30	112.80	118.20	76.10	64.60	112.00	306.50	129.70	115.80	111.90	118.60	0.00	114.00	
21	92.60	37.00	112.90	118.90	79.70	66.50	111.80	306.80	129.50	114.40	111.60	119.00	0.00	113.90	
22	92.10	37.90	112.80	118.80	96.30	85.60	111.90	305.90	129.10	111.30	112.30	119.00	0.00	113.60	
23	91.70	37.90	112.70	118.40	104.80	104.20	112.00	305.30	128.40	110.50	112.30	118.90	0.00	113.30	
24	80.00	37.10	112.60	117.70	103.40	102.80	112.30	304.30	128.30	110.30	112.70	119.10	0.00	113.20	

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**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

16 JUN 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	LOWER GRANITE	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.		
1	2.20	0.00	102.20	104.60	101.90	0.00	70.10	42.40	102.80	120.80	79.00	38.90	106.10	115.70	
2	2.20	0.00	1000.00	104.50	101.50	0.00	69.70	42.40	102.70	120.90	80.30	39.60	106.40	115.90	
3	2.20	0.00	1000.00	104.40	101.30	0.00	71.20	43.20	102.70	120.80	75.30	38.80	106.90	115.80	
4	2.20	0.00	1000.00	104.20	101.10	0.00	78.90	42.50	102.70	120.70	70.70	38.80	107.00	116.00	
5	3.00	0.00	1000.00	103.90	100.80	0.00	84.10	42.50	102.70	120.50	70.90	38.80	107.20	116.00	
6	5.60	0.00	1000.00	103.90	100.70	0.00	84.50	40.80	103.40	120.30	73.80	39.50	107.30	116.00	
7	7.50	0.00	104.30	103.90	101.90	0.00	83.70	0.00	103.50	106.40	70.00	0.30	107.90	111.30	
8	7.40	0.00	102.00	104.10	101.40	0.00	82.50	0.00	103.30	104.40	77.70	0.00	107.90	108.70	
9	7.40	0.00	102.30	104.50	101.20	0.00	73.70	0.00	103.70	103.80	76.70	0.00	108.00	108.10	
10	7.50	0.00	102.50	104.80	101.40	0.00	80.50	0.00	103.90	103.60	83.70	0.00	108.30	108.30	
11	7.30	0.00	102.70	105.20	101.80	0.00	81.20	0.00	104.10	103.60	82.30	0.00	109.80	108.50	
12	7.50	0.00	103.00	105.60	102.20	0.00	81.20	0.00	104.40	103.50	82.40	0.00	109.60	108.80	
13	7.30	0.00	103.00	105.90	102.60	0.00	94.50	0.00	105.00	104.10	82.80	0.00	110.50	109.00	
14	7.50	0.00	103.10	106.10	103.00	0.00	82.90	0.00	105.20	103.90	82.20	0.00	111.40	109.40	
15	7.30	0.00	103.10	106.50	103.50	0.00	72.90	0.00	105.10	104.10	79.30	0.00	112.10	109.70	
16	7.50	0.00	103.30	106.60	103.70	104.40	73.80	0.00	104.90	104.30	83.40	0.00	110.20	109.90	
17	7.30	0.00	103.30	106.60	103.80	104.20	63.40	0.00	104.90	104.40	74.10	0.00	110.20	109.90	
18	7.50	0.00	103.10	106.50	103.80	103.90	66.20	1.50	105.00	104.50	74.70	0.70	112.70	110.00	
19	7.30	0.00	102.90	106.10	103.60	103.50	88.00	40.60	104.20	115.80	80.10	39.80	110.60	114.00	
20	7.50	0.00	102.70	105.70	103.30	102.90	97.10	40.60	104.50	117.70	71.80	39.30	109.40	115.90	
21	7.30	0.00	102.60	105.40	102.90	102.40	96.20	40.60	106.00	118.10	90.40	39.30	109.90	116.00	
22	7.50	0.00	102.40	104.90	102.60	101.80	96.60	40.50	105.50	117.90	94.90	39.30	108.80	115.60	
23	6.40	0.00	102.30	104.70	102.40	101.50	100.40	41.20	105.20	118.20	102.60	40.00	109.50	115.40	
24	2.20	0.00	102.20	104.60	102.10	101.00	99.80	40.50	104.10	118.10	100.90	39.30	108.30	115.20	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	MCNARY	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	PASCO	
1	64.40	31.50	112.40	116.70	86.70	84.50	112.70	116.00	284.40	128.30	110.30	112.70	119.00	112.90	
2	75.20	33.00	112.50	-999.00	83.70	83.00	112.50	114.50	225.30	128.30	110.00	112.60	119.00	112.60	
3	79.90	36.20	111.00	-999.00	71.60	71.00	112.40	114.10	232.20	129.90	109.90	112.60	118.90	112.40	
4	69.40	34.40	110.60	-999.00	70.60	69.90	112.10	113.40	233.40	130.00	110.00	112.40	118.90	112.30	
5	70.30	34.40	110.40	-999.00	70.00	68.50	112.10	113.40	233.50	130.00	109.70	112.40	118.80	112.10	
6	68.90	34.40	110.90	-999.00	68.00	44.40	112.40	113.30	219.40	112.50	109.70	112.20	118.90	111.80	
7	68.90	34.40	109.70	-999.00	70.90	44.50	112.20	112.70	170.90	0.00	109.70	111.90	116.30	111.70	
8	69.80	34.40	108.60	-999.00	69.30	44.40	112.00	112.80	176.60	0.00	110.50	112.00	112.10	111.70	
9	69.40	34.60	109.00	-999.00	71.10	44.50	112.80	113.00	180.60	3.80	111.20	112.00	110.00	111.90	
10	81.00	36.50	110.20	1.70	74.60	43.80	112.50	113.30	236.10	59.10	112.00	112.10	112.30	112.20	
11	80.40	34.30	110.80	118.60	81.90	45.30	112.50	113.50	235.60	58.50	112.60	112.10	113.70	112.50	
12	86.50	37.00	110.40	118.70	88.40	44.50	112.80	113.60	237.20	60.40	112.40	112.20	113.40	112.50	
13	97.60	38.90	110.80	119.20	89.60	44.60	113.70	113.80	235.70	58.80	117.40	112.20	113.50	112.20	
14	82.60	38.10	110.80	-999.00	87.50	44.60	113.60	113.90	234.00	57.20	115.30	112.10	113.70	113.00	
15	83.80	38.10	111.30	-999.00	88.60	44.60	113.40	113.90	234.30	57.80	114.70	112.70	113.40	113.30	
16	84.30	38.10	112.30	-999.00	87.90	44.60	113.50	113.90	237.60	60.90	112.30	116.60	113.30	113.70	
17	87.30	37.70	112.80	-999.00	92.10	44.60	114.00	113.80	237.60	60.90	112.50	114.40	113.20	114.10	
18	78.30	35.10	113.80	-999.00	96.90	48.30	115.00	113.90	251.30	75.00	111.80	115.80	113.30	114.60	
19	78.10	34.50	114.30	-999.00	86.70	74.70	114.30	114.60	305.70	129.60	111.60	116.30	117.90	114.80	
20	78.80	34.70	115.30	-999.00	85.60	75.70	114.30	114.70	306.00	129.60	111.60	116.10	118.50	114.90	
21	91.50	37.60	115.00	-999.00	91.60	81.90	114.60	115.00	306.10	129.60	111.70	115.80	118.60	114.80	
22	89.40	37.90	114.50	-999.00	94.70	85.40	114.60	115.40	305.90	129.60	111.80	115.50	118.60	114.60	
23	96.20	38.60	115.30	-999.00	95.00	94.40	114.80	116.00	304.70	129.60	111.70	115.40	118.50	114.40	
24	94.80	37.90	115.00	-999.00	95.00	94.40	114.70	116.10	303.50	129.60	111.60	115.10	118.70	114.30	

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**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

17 JUN 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	LOWER GRANITE	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.		
1	2.20	0.00	102.70	104.40	101.70	100.80	90.40	40.50	104.10	118.10	93.20	39.30	109.30	115.50	
2	2.20	0.00	102.80	104.30	101.60	100.50	84.10	40.50	103.70	118.50	92.70	39.30	109.30	115.60	
3	2.20	0.00	102.70	104.10	101.30	100.40	78.80	40.50	104.00	119.10	79.80	39.30	109.50	115.90	
4	2.20	0.00	102.60	104.00	101.20	100.10	80.10	41.30	104.00	119.20	81.00	40.00	109.80	116.00	
5	2.30	0.00	102.40	103.90	100.90	99.90	80.80	40.60	104.00	119.00	80.00	39.20	110.00	115.90	
6	5.70	0.00	108.00	103.90	100.80	99.80	87.20	40.60	104.60	118.70	80.20	38.50	110.30	115.80	
7	7.40	0.00	104.10	103.90	101.90	99.80	83.70	0.70	104.40	106.70	77.20	0.00	110.80	112.30	
8	7.50	0.00	102.70	104.20	101.50	100.20	81.20	0.00	104.40	106.00	83.70	0.00	111.30	109.90	
9	7.30	0.00	102.80	104.40	101.50	100.70	86.30	0.00	104.60	8145.80	82.10	0.00	111.20	110.00	
10	7.50	0.00	103.10	104.80	101.80	101.30	82.20	0.00	105.00	105.00	81.30	0.00	111.10	109.90	
11	7.40	0.00	103.40	105.20	102.10	102.10	75.50	0.00	105.20	105.00	80.60	0.00	111.30	110.10	
12	7.50	0.00	103.70	105.60	102.60	102.60	82.00	0.00	106.00	105.10	75.10	0.00	111.40	113.10	
13	6.70	0.00	103.80	106.00	103.00	103.10	84.50	0.00	107.00	105.30	79.60	0.00	112.50	111.10	
14	7.30	0.00	103.80	106.30	103.30	103.60	90.50	0.00	107.20	105.40	78.80	0.00	112.40	111.20	
15	7.50	0.00	103.80	106.50	103.70	104.10	83.30	0.00	108.80	105.50	82.70	0.00	112.10	111.00	
16	7.40	0.00	104.00	106.80	104.00	104.60	82.70	0.00	108.90	105.60	82.10	0.00	111.70	111.20	
17	7.50	0.00	104.00	106.80	104.10	104.70	83.00	0.00	108.40	105.60	83.80	0.00	111.40	111.40	
18	7.30	0.00	103.80	106.60	104.10	104.30	86.40	1.50	109.00	105.70	83.30	0.70	111.50	111.50	
19	7.40	0.00	103.60	106.20	104.00	104.00	83.20	40.40	111.00	116.90	89.50	39.00	110.60	115.00	
20	7.50	0.00	103.40	106.00	103.60	103.50	81.30	40.30	108.90	118.40	88.40	39.00	109.90	115.90	
21	7.30	0.00	103.30	105.80	103.30	102.90	80.50	40.40	107.70	118.90	89.90	39.60	110.60	116.00	
22	7.30	0.00	103.30	105.50	102.90	102.40	85.30	40.40	107.90	118.70	91.30	38.90	109.80	116.20	
23	5.30	0.00	103.40	105.20	102.80	101.80	80.00	41.10	107.30	119.30	81.90	38.90	110.20	116.20	
24	2.20	0.00	103.30	104.90	102.50	101.60	78.50	40.40	107.10	119.40	81.10	38.80	110.30	116.40	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	MCNARY	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	PASCO	
1	87.50	37.90	114.00 -999.00	96.70	96.10	114.90 116.00	307.00	129.70	111.60	114.80	118.60	0	0	114.30	
2	83.70	37.90	113.20 7626.10	95.10	94.40	115.20 116.20	306.70	129.70	111.60	114.40	118.60	0	0	114.30	
3	83.10	37.90	113.10 118.20	95.10	94.50	115.10 116.20	307.00	130.00	111.80	114.10	118.60	0	0	114.20	
4	84.90	38.60	112.40 118.00	85.90	85.30	115.30 116.20	307.10	130.00	111.90	113.90	118.60	0	0	113.90	
5	83.30	37.90	111.90 117.90	81.30	80.50	115.10 114.80	306.90	130.00	112.00	113.60	118.60	0	0	113.70	
6	84.40	37.60	111.20 -999.00	75.70	39.40	114.90 114.10	290.60	114.20	111.70	113.40	118.60	0	0	113.60	
7	79.10	36.40	111.60 -999.00	79.90	40.50	115.10 112.20	202.90	30.30	112.20	113.10	115.90	0	0	113.50	
8	77.40	35.00	111.10 -999.00	90.70	45.40	115.50 112.90	205.00	30.30	112.60	113.10	115.50	0	0	113.50	
9	72.20	35.50	111.60 -999.00	80.70	39.90	115.50 113.90	205.40	30.30	113.70	113.30	113.10	0	0	113.60	
10	70.20	34.80	111.00 -999.00	78.60	39.90	115.70 113.10	204.10	30.30	115.00	113.10	113.00	0	0	114.00	
11	70.50	34.80	111.80 -999.00	78.70	39.90	115.80 112.90	196.20	30.30	115.80	113.20	113.20	0	0	114.50	
12	76.60	34.90	112.50 -999.00	78.50	39.80	115.90 112.90	201.40	30.30	116.90	113.20	113.30	0	0	115.00	
13	76.70	34.30	111.70 -999.00	85.70	44.40	116.10 113.40	203.90	30.30	116.90	113.70	113.40	0	0	115.60	
14	92.20	36.30	112.60 -999.00	90.60	44.90	116.20 119.80	203.20	30.30	115.00	113.90	113.50	0	0	116.00	
15	96.90	38.80	116.10 -999.00	91.30	45.20	116.80 120.00	204.00	30.30	114.00	115.30	113.80	0	0	116.40	
16	86.80	36.70	115.10 4.40	91.70	45.40	117.30 116.00	203.70	30.30	113.70	115.00	113.80	0	0	116.80	
17	79.40	36.60	114.70 120.10	88.40	45.30	117.00 114.60	203.00	30.30	114.50	115.40	113.80	0	0	117.00	
18	74.20	30.70	114.80 123.50	88.20	45.30	116.90 114.40	227.10	54.50	114.40	115.70	113.90	0	0	117.20	
19	74.10	32.10	115.00 119.70	88.20	45.20	117.10 114.40	306.60	130.00	114.40	116.10	118.50	0	0	117.30	
20	89.70	37.30	115.90 119.90	89.90	45.90	117.60 114.20	306.60	130.00	113.50	115.80	119.10	0	0	117.00	
21	90.60	36.80	119.00 119.60	89.90	45.20	118.30 114.10	306.60	130.00	113.40	115.40	119.10	0	0	116.80	
22	97.90	36.70	117.10 -999.00	91.60	45.20	118.70 114.10	306.70	130.00	113.40	115.10	118.90	0	0	116.40	
23	93.90	36.80	116.10 -999.00	90.10	45.30	118.50 114.00	305.00	130.00	113.10	115.00	119.00	0	0	116.00	
24	89.20	36.70	114.50 -999.00	89.90	45.30	118.30 114.00	303.50	130.00	113.00	114.70	118.80	0	0	115.60	

18 JUN 2003

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

18 JUN 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	LOWER GRANITE	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.		
1	2.20	0.00	104.40	104.80	102.10	101.30	78.40	40.40	107.00	119.50	72.90	38.90	110.20	116.20	
2	2.20	0.00	104.00	104.50	102.00	101.10	80.20	40.50	106.30	119.60	73.10	39.50	110.60	116.50	
3	2.20	0.00	103.60	104.40	101.80	100.80	78.70	40.50	105.90	119.50	71.80	38.80	111.20	116.50	
4	2.20	0.00	103.40	104.20	101.50	100.50	80.30	41.30	105.60	119.40	71.80	38.90	111.30	116.40	
5	2.20	0.00	103.30	104.10	101.20	100.20	78.80	40.60	105.60	119.50	67.40	38.90	111.30	116.60	
6	5.20	0.00	105.60	104.10	101.10	100.10	80.40	39.50	105.50	119.40	71.20	39.60	111.70	116.80	
7	7.30	0.00	105.10	104.00	101.70	100.10	79.10	0.00	105.40	107.60	84.10	1.40	111.40	112.70	
8	7.50	0.00	103.70	104.20	101.90	100.50	84.80	0.00	105.50	106.50	82.60	0.00	111.00	111.00	
9	7.30	0.00	103.80	104.60	102.00	101.00	84.70	0.00	105.60	105.70	81.90	0.00	112.00	110.70	
10	7.50	0.00	104.10	105.00	102.30	101.60	83.50	0.00	105.60	105.50	82.40	0.00	112.30	110.90	
11	7.30	0.00	104.40	105.40	102.50	102.20	83.70	0.00	105.80	105.70	83.40	0.00	112.30	111.10	
12	7.40	0.00	104.70	105.70	102.90	102.90	83.50	0.00	105.80	105.70	81.90	0.00	112.20	110.90	
13	7.50	0.00	105.20	105.90	103.40	103.30	85.10	0.00	105.90	105.60	81.80	0.00	112.20	111.30	
14	7.40	0.00	105.20	106.10	103.70	103.60	76.00	0.00	105.80	105.60	78.70	0.00	112.40	111.30	
15	7.50	0.00	105.10	106.30	104.10	104.00	75.40	0.00	105.80	105.70	79.00	0.00	112.70	111.50	
16	7.30	0.00	105.00	106.40	104.20	0.00	75.60	0.00	106.00	105.80	77.80	0.00	112.80	111.70	
17	7.50	0.00	104.80	106.40	104.40	0.00	75.60	0.00	105.90	105.80	80.00	0.00	112.50	111.90	
18	7.30	0.00	104.40	106.10	104.00	0.00	75.70	0.30	105.60	105.70	78.60	1.40	112.20	111.80	
19	7.50	0.00	104.30	105.60	103.70	0.00	79.20	40.40	105.60	116.20	81.30	38.90	112.20	115.40	
20	7.30	0.00	104.00	105.30	103.30	0.00	80.90	40.40	105.80	118.50	88.40	39.60	111.80	116.10	
21	7.40	0.00	103.70	105.00	103.00	0.00	81.20	40.40	105.80	118.80	87.40	38.90	110.50	116.20	
22	7.50	0.00	104.00	104.70	102.80	0.00	81.20	40.40	105.30	118.90	86.00	37.50	110.30	116.10	
23	5.50	0.00	103.80	104.40	102.60	0.00	82.70	41.10	105.00	119.10	83.40	35.00	110.20	115.60	
24	2.40	0.00	104.10	104.20	102.20	0.00	80.80	40.40	104.80	119.10	78.80	35.60	109.90	115.50	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB	WA TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB	GAS %SAT	
1	75.00	36.70	113.80 -999.00	79.50	41.00	118.00 114.30	304.30	130.00	113.10	114.40	119.00				115.50
2	75.30	37.40	114.00 -999.00	79.50	41.00	118.10 112.80	304.00	130.00	113.00	114.30	118.70				115.40
3	75.70	36.70	113.30 -999.00	74.20	37.50	117.60 112.30	305.00	129.90	113.10	114.30	119.10				115.20
4	74.10	36.70	112.70 -999.00	74.20	37.50	117.30 112.50	305.70	129.80	113.30	113.90	119.00				115.30
5	64.00	32.40	112.40 -999.00	74.20	37.50	116.90 112.30	306.30	129.80	113.30	113.60	118.90				115.00
6	62.90	31.50	112.50 -999.00	74.10	37.60	-999.00 112.40	296.70	120.20	113.10	113.60	118.70				115.00
7	64.40	32.10	112.40 -999.00	74.80	38.10	-999.00 112.50	198.10	26.00	113.10	113.40	116.40				115.00
8	77.90	36.50	112.60 -999.00	82.20	40.90	-999.00 112.80	201.60	39.90	113.20	113.30	113.90				115.00
9	81.50	36.70	112.60 -999.00	84.10	41.70	-999.00 113.20	199.70	37.60	113.00	113.40	113.50				114.80
10	83.40	36.70	113.60 -999.00	84.30	40.90	117.50 0.00	202.90	40.70	113.10	113.40	113.40				115.20
11	81.50	36.70	111.20 -999.00	85.40	41.90	117.70 113.90	202.60	40.70	113.20	113.20	113.70				115.40
12	88.40	36.70	114.10 0.00	89.20	45.10	117.60 114.00	203.40	40.70	113.40	113.20	113.70				115.50
13	90.90	37.40	114.90 1.80	89.50	45.10	117.40 114.30	204.00	40.70	113.60	113.00	113.70				115.50
14	88.30	36.10	114.70 -999.00	88.60	44.30	117.40 114.60	211.00	47.90	113.80	113.10	113.80				115.60
15	76.90	35.10	114.60 -999.00	82.90	40.70	117.30 114.00	223.30	59.90	114.60	113.50	113.50				115.60
16	75.70	35.00	115.40 -999.00	78.80	39.40	117.40 113.20	268.10	103.50	115.50	113.90	114.90				115.50
17	75.90	35.00	115.80 -999.00	74.60	38.10	117.60 113.30	306.20	130.10	116.60	114.10	118.50				115.60
18	77.10	35.70	116.50 -999.00	74.20	38.10	117.60 112.80	307.00	130.10	113.80	114.60	118.40				115.60
19	75.60	35.00	117.20 -999.00	74.90	38.70	117.30 112.50	307.30	130.20	113.50	114.50	118.50				115.40
20	82.30	35.00	117.40 -999.00	87.50	44.40	117.00 112.60	306.90	129.90	113.40	114.70	118.80				114.40
21	85.40	35.10	117.20 -999.00	87.90	44.50	116.50 113.30	306.70	129.70	112.90	114.40	118.80				113.80
22	85.50	35.00	117.00 -999.00	88.90	45.20	116.20 113.40	305.90	129.50	113.00	114.60	118.90				112.80
23	86.90	35.70	116.00 394.40	87.50	44.40	116.00 113.50	304.90	129.50	112.90	114.30	118.80				112.10
24	84.10	35.10	115.30 118.60	84.50	42.90	115.80 113.70	302.10	129.50	113.20	114.20	118.60				111.70

19 JUN 2003

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

19 JUN 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	LOWER GRANITE	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.		
1	2.20	0.00	105.10	104.10	101.70	0.00	73.60	40.50	104.80	119.40	73.30	35.00	110.00	115.60	
2	2.20	0.00	104.40	104.10	101.60	0.00	73.00	40.50	104.90	119.70	67.40	35.00	110.00	115.70	
3	2.20	0.00	103.70	104.00	101.30	0.00	74.60	41.30	104.60	119.50	67.30	35.00	109.60	115.60	
4	2.20	0.00	103.80	103.80	101.00	0.00	77.80	40.60	104.50	119.40	68.60	35.60	109.40	115.60	
5	2.20	0.00	103.70	103.70	100.90	0.00	78.50	40.60	104.60	119.40	67.50	35.00	109.10	115.70	
6	4.70	0.00	107.50	103.60	100.60	0.00	80.50	40.60	104.20	119.50	72.00	34.40	108.90	115.60	
7	6.80	0.00	110.30	103.60	101.40	0.00	74.80	0.70	104.00	108.40	72.10	0.00	109.30	111.90	
8	7.30	0.00	104.50	103.70	102.90	0.00	83.90	0.00	104.20	106.10	83.60	0.00	109.60	109.90	
9	7.30	0.00	104.30	104.00	101.90	0.00	82.60	0.00	104.20	105.40	82.10	0.00	109.70	109.90	
10	7.50	0.00	104.50	104.30	102.00	0.00	82.80	0.00	104.10	105.30	82.00	0.00	110.40	108.80	
11	7.30	0.00	104.50	104.50	102.30	0.00	71.80	0.00	104.30	105.10	61.50	0.00	0.00	110.20	
12	7.50	0.00	104.70	104.90	102.70	0.00	83.80	0.00	104.60	105.10	69.40	5.80	111.00	110.30	
13	7.40	0.00	104.80	105.30	103.00	0.00	83.10	0.00	104.90	105.00	75.40	7.50	111.20	110.20	
14	7.50	0.00	104.80	105.40	103.20	0.00	69.20	0.00	105.20	104.90	82.40	14.40	111.30	110.60	
15	7.30	0.00	104.80	105.70	103.20	0.00	68.60	0.00	105.30	105.10	83.20	2.00	110.90	111.10	
16	7.40	0.00	104.40	105.30	103.30	0.00	68.60	0.00	105.60	105.10	81.90	0.00	111.20	111.10	
17	7.50	0.00	104.00	104.70	103.00	0.00	69.50	0.00	105.40	105.10	83.10	0.00	111.40	111.00	
18	7.30	0.00	103.90	104.60	102.70	0.00	67.10	0.00	105.70	105.00	70.70	0.00	111.40	111.00	
19	7.50	0.00	104.00	104.30	102.40	0.00	68.90	40.00	105.50	115.90	69.60	34.90	111.10	115.00	
20	7.30	0.00	104.00	104.20	102.30	0.00	68.70	41.50	105.30	116.30	67.80	34.90	110.60	115.70	
21	7.30	0.00	103.70	0.00	102.20	0.00	68.70	41.50	105.10	117.10	69.00	35.50	110.30	115.70	
22	7.30	0.00	103.40	103.70	102.00	0.00	68.60	41.20	104.70	118.80	67.00	34.80	110.20	115.80	
23	5.00	0.00	103.60	103.60	101.90	0.00	60.50	40.50	104.60	119.50	82.70	67.00	110.10	145.80	
24	2.20	0.00	103.60	103.40	101.60	0.00	59.00	40.60	104.40	119.30	52.20	34.80	109.40	124.10	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB	WA TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT.		
	KCFS	KCFS		KCFS	KCFS		KCFS	KCFS	FB		KCFS	KCFS	SAT		
1	70.80	34.10	115.00	118.00	68.40	34.70	116.40	113.40	245.30	130.00	113.40	114.00	118.60	: 111.70	
2	67.40	33.20	114.60	-999.00	67.80	34.70	116.20	112.00	234.70	130.10	113.20	113.90	118.30	: 111.70	
3	67.50	33.20	114.20	-999.00	69.10	35.30	116.00	111.90	297.40	129.20	113.10	113.60	118.30	: 111.80	
4	67.60	33.10	113.60	-999.00	67.90	34.70	115.80	111.80	304.20	129.20	112.90	113.30	118.50	: 111.90	
5	75.30	33.80	113.00	-999.00	69.60	34.70	115.50	111.70	306.00	129.10	112.80	113.10	118.60	: 111.70	
6	76.00	33.20	112.20	-999.00	73.50	38.40	115.40	111.90	290.20	114.30	112.50	112.80	118.60	: 111.70	
7	76.30	34.40	112.10	5.10	84.50	45.50	115.70	113.10	171.50	0.00	112.10	112.50	116.00	: 111.70	
8	77.20	35.00	111.60	1000.00	86.60	45.50	115.50	113.90	175.90	1.00	111.90	112.50	112.70	: 111.90	
9	77.10	35.00	111.60	1000.00	88.10	46.30	115.60	114.00	209.70	34.10	112.90	112.60	112.20	: 111.90	
10	81.70	35.70	111.80	1000.00	88.30	45.40	115.60	114.20	208.70	34.20	112.90	112.60	113.80	: 112.20	
11	80.20	35.00	112.00	1000.00	85.00	45.40	115.70	114.40	209.90	34.20	113.00	112.90	114.20	: 112.50	
12	68.60	32.70	112.40	-999.00	74.40	45.40	115.80	114.50	208.90	34.20	112.90	112.70	114.20	: 112.80	
13	60.10	29.20	112.40	0.00	74.10	45.40	115.80	114.30	208.60	34.10	113.20	112.70	114.20	: 113.40	
14	60.50	29.20	113.20	-999.00	66.30	45.40	115.40	114.40	208.00	34.10	113.30	112.60	114.00	: 113.70	
15	73.10	33.90	114.00	-999.00	63.90	46.20	115.10	114.10	208.80	34.10	113.10	112.70	113.80	: 113.90	
16	79.80	35.40	114.20	-999.00	64.60	45.40	115.10	113.60	208.80	34.10	112.60	112.40	113.60	: 114.00	
17	80.60	35.40	114.30	-999.00	78.30	45.50	115.20	113.50	209.20	34.10	112.40	112.00	113.60	: 114.20	
18	91.80	35.40	114.40	-999.00	82.10	48.50	115.40	113.90	221.60	49.50	112.50	111.90	113.60	: 114.10	
19	82.00	34.00	115.00	-999.00	80.20	70.40	115.70	114.10	251.20	126.40	112.20	112.00	116.20	: 113.50	
20	76.00	32.10	115.30	-999.00	89.40	80.00	115.60	114.80	254.80	129.90	112.00	112.00	118.40	: 112.30	
21	70.60	34.60	115.00	-999.00	91.10	81.30	115.30	114.90	256.30	129.80	111.70	111.70	118.40	: 111.20	
22	67.50	34.00	115.20	-999.00	83.20	75.20	115.10	114.90	256.10	129.90	111.80	111.60	118.00	: 110.50	
23	61.90	33.00	114.70	-999.00	76.20	74.70	115.10	114.10	253.70	130.10	111.30	111.30	118.00	: 109.90	
24	47.70	25.50	114.30	-999.00	62.00	60.50	114.60	113.40	251.60	130.10	111.10	110.80	117.90	: 109.40	

20 JUN 2003

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

20 JUN 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	LOWER GRANITE	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.		
1	2.20	0.00	104.40	103.30	101.20	0.00	59.40	40.70	104.20	119.60	50.60	34.80	109.40	116.70	
2	2.20	0.00	103.90	103.20	101.10	0.00	78.10	40.70	104.00	119.30	53.00	35.50	109.20	115.90	
3	2.20	0.00	103.80	103.10	100.90	0.00	85.60	41.50	104.10	119.10	51.00	34.90	108.70	115.90	
4	2.20	0.00	103.60	103.00	100.50	0.00	88.70	40.70	103.80	119.40	67.20	35.00	108.20	115.90	
5	2.50	0.00	103.80	103.00	100.50	0.00	87.40	40.60	103.70	119.00	83.00	35.00	107.80	115.60	
6	5.50	0.00	109.40	102.90	100.30	0.00	86.00	38.00	103.50	118.80	91.20	35.40	107.50	115.40	
7	7.50	0.00	105.40	102.90	101.60	0.00	79.30	0.00	103.40	105.90	84.60	0.00	107.10	108.80	
8	7.30	0.00	103.40	102.90	101.40	0.00	84.40	0.00	103.20	104.70	86.10	0.00	107.30	107.70	
9	7.50	0.00	103.20	103.00	100.90	0.00	79.30	0.00	103.20	104.20	78.80	0.00	107.40	107.60	
10	7.30	0.00	103.30	0.00	101.00	0.00	79.20	0.00	103.30	103.80	79.90	0.00	107.40	107.70	
11	7.30	0.00	103.20	103.30	101.10	0.00	69.60	0.00	103.30	104.00	81.60	0.00	107.60	107.60	
12	7.50	0.00	103.20	103.60	101.10	0.00	61.20	0.00	103.20	103.50	78.00	0.00	107.50	107.50	
13	7.30	0.00	103.40	103.90	101.30	0.00	62.60	0.00	103.20	103.60	71.30	0.00	107.70	107.50	
14	7.50	0.00	103.70	104.10	101.50	0.00	55.00	0.00	103.10	103.50	66.10	0.00	107.70	107.50	
15	7.30	0.00	103.70	104.40	102.10	0.00	56.80	0.00	103.10	103.40	62.40	0.00	107.90	107.60	
16	7.50	0.00	103.50	104.60	102.10	0.00	57.80	0.00	102.90	103.30	57.10	0.00	108.00	107.70	
17	7.30	0.00	103.50	104.50	102.10	0.00	59.20	0.00	102.90	103.40	57.10	0.00	108.20	107.70	
18	7.30	0.00	103.40	104.40	102.00	0.00	68.10	0.00	102.80	103.00	60.20	0.00	108.10	107.60	
19	7.50	0.00	103.40	103.90	101.90	0.00	80.50	0.00	102.80	103.00	62.00	0.00	108.00	107.60	
20	7.30	0.00	103.20	103.80	101.80	0.00	89.60	0.00	102.80	103.00	79.40	0.00	107.90	107.70	
21	7.50	0.00	103.10	103.50	101.70	0.00	92.40	0.00	102.80	103.10	88.60	0.00	107.90	107.40	
22	7.30	0.00	103.10	103.50	101.50	0.00	79.10	0.00	102.80	102.90	88.60	0.00	107.60	107.30	
23	5.20	0.00	103.20	103.50	101.40	0.00	69.20	0.00	102.80	103.10	87.70	0.00	107.50	107.00	
24	2.20	0.00	103.30	103.50	101.20	0.00	73.30	0.00	102.60	102.60	70.70	0.00	106.90	106.90	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB	WA TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB	GAS %SAT	
1	44.70	23.20	114.00 -999.00	59.30	59.30	114.70 113.10	252.40	130.10	110.80	110.40	118.10				109.10
2	45.50	23.60	113.60 -999.00	45.60	45.60	114.40 113.00	252.80	130.10	110.50	110.00	117.90				108.90
3	44.60	23.20	113.00 -999.00	47.00	46.40	114.60 112.20	254.10	130.10	110.30	109.60	118.10				108.60
4	44.70	23.20	112.90 15.60	46.10	45.60	114.40 111.80	244.50	129.90	110.00	109.40	117.90				108.40
5	64.10	29.80	112.60 1000.00	46.30	45.60	114.20 111.60	209.00	129.70	109.80	109.00	118.00				108.50
6	80.20	31.50	111.60 1000.00	56.60	45.70	113.70 111.80	186.90	118.20	109.60	108.90	117.20				108.30
7	88.30	0.00	111.50 1000.00	74.90	45.80	113.60 112.60	133.10	0.00	109.30	108.80	116.40				108.40
8	94.50	0.00	111.10 1000.00	92.70	45.40	113.20 113.50	122.90	0.00	109.10	108.60	109.70				108.30
9	89.20	0.00	110.90 110.70	95.20	45.70	113.00 113.80	122.40	0.00	109.10	108.70	107.80				108.70
10	90.70	0.00	110.90 111.00	93.60	44.80	113.10 113.80	131.20	0.00	109.00	108.50	107.00				109.00
11	89.10	0.00	110.40 110.30	96.90	44.70	112.70 113.90	170.10	0.00	108.90	108.20	107.20				109.30
12	88.80	0.00	110.20 110.30	97.40	44.80	112.50 114.10	160.30	0.00	108.80	108.20	106.90				109.60
13	88.70	0.00	110.30 110.10	97.20	44.70	112.30 114.00	160.40	0.00	108.70	108.10	106.80				109.80
14	75.40	0.00	110.20 -999.00	96.90	44.70	112.50 113.70	155.70	0.00	108.40	108.00	106.60				109.90
15	60.20	0.00	110.00 -999.00	79.70	44.60	112.60 113.90	159.30	0.00	108.40	107.90	106.60				110.10
16	56.10	0.00	110.90 -999.00	67.50	45.30	112.50 113.60	157.80	0.00	108.10	107.80	106.20				110.10
17	55.80	0.00	111.40 -999.00	64.00	44.50	112.10 113.30	161.00	0.00	107.90	107.60	106.10				109.80
18	59.10	0.00	111.70 -999.00	62.20	45.10	112.10 112.70	159.70	0.00	107.80	107.70	106.00				109.40
19	61.00	0.00	112.00 -999.00	59.40	49.20	111.90 112.60	156.30	0.00	107.70	107.50	105.80				109.10
20	74.10	0.00	111.90 -999.00	59.20	49.20	111.80 112.80	166.90	0.00	107.50	107.20	105.60				108.80
21	90.80	0.00	110.60 -999.00	61.40	51.30	112.10 112.60	168.60	0.00	107.30	106.90	105.30				108.60
22	96.50	0.00	110.20 110.80	81.10	72.30	112.00 112.90	163.90	0.00	107.10	106.80	105.20				108.30
23	97.50	0.00	110.10 110.30	95.30	94.80	112.00 114.80	162.10	0.00	106.90	106.70	105.20				108.10
24	90.80	0.00	110.80 1.60	95.20	94.70	111.90 116.10	166.70	0.00	106.90	106.50	105.00				107.80

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**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

21 JUN 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	LITTLE GOOSE	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.		
1	2.20	0.00	104.00	103.30	101.00	0.00	74.30	0.00	102.40	102.60	61.90	0.00	106.90	106.70	
2	2.20	0.00	103.40	103.30	100.80	0.00	71.20	0.00	102.40	102.60	71.80	0.00	106.70	106.50	
3	2.20	0.00	103.20	103.10	100.60	0.00	69.10	0.00	102.20	102.30	74.10	0.00	105.70	105.90	
4	2.20	0.00	103.10	103.00	100.50	0.00	69.80	0.00	102.20	102.20	74.10	0.00	105.30	105.50	
5	2.20	0.00	103.00	103.00	100.40	0.00	70.00	0.00	102.00	102.00	69.40	0.00	105.00	105.10	
6	2.20	0.00	103.00	103.00	100.20	0.00	85.80	0.00	101.90	102.00	69.80	0.00	104.80	104.90	
7	2.20	0.00	103.30	102.90	100.40	0.00	88.50	0.00	101.90	101.90	84.80	0.00	104.60	104.70	
8	2.20	0.00	103.40	102.90	100.30	0.00	84.10	0.00	101.80	101.80	85.90	0.00	104.50	104.40	
9	2.20	0.00	103.60	103.20	100.60	0.00	77.00	0.00	101.70	101.60	87.00	0.00	104.50	104.40	
10	2.20	0.00	104.10	103.50	100.90	0.00	69.30	0.00	101.70	101.60	75.80	0.00	104.50	104.40	
11	2.20	0.00	104.40	103.90	101.30	0.00	68.40	0.00	101.70	101.50	71.50	0.00	104.60	104.40	
12	2.20	0.00	104.50	104.00	101.40	0.00	64.40	0.00	101.60	101.60	67.40	0.00	104.80	104.50	
13	2.20	0.00	104.60	104.40	101.60	0.00	63.30	0.00	101.60	101.50	66.30	0.00	105.10	104.90	
14	2.20	0.00	104.50	104.50	102.00	0.00	60.40	0.00	101.50	101.50	61.20	0.00	105.50	105.20	
15	2.20	0.00	104.80	104.80	102.30	0.00	61.20	0.00	101.60	101.50	59.50	0.00	105.80	105.40	
16	2.20	0.00	104.90	104.90	102.80	0.00	62.80	0.00	101.40	101.90	59.40	0.00	106.20	105.50	
17	2.20	0.00	104.70	104.80	102.80	0.00	61.90	0.00	101.50	101.40	60.50	0.00	106.40	105.70	
18	2.20	0.00	104.30	104.50	102.70	0.00	61.40	0.00	101.50	101.30	59.80	0.00	106.50	105.80	
19	2.20	0.00	104.00	104.40	102.50	0.00	60.00	0.00	101.30	101.20	60.50	0.00	106.60	105.90	
20	2.20	0.00	103.60	104.20	102.20	0.00	80.80	0.00	101.40	101.10	80.20	0.00	106.30	105.80	
21	2.20	0.00	103.20	104.10	101.70	0.00	80.80	0.00	101.20	101.00	81.50	0.00	106.10	105.60	
22	2.20	0.00	102.90	103.80	101.50	0.00	79.80	0.00	101.20	101.00	81.50	0.00	106.00	105.40	
23	2.20	0.00	102.90	103.60	101.40	0.00	62.00	0.00	101.00	101.00	60.50	0.00	105.90	105.60	
24	2.20	0.00	102.90	103.50	101.20	0.00	55.80	0.00	100.90	100.80	59.90	0.00	105.50	105.10	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. WA FB	PASCO	GAS %SAT				
1	62.10	0.00	110.80	110.60	93.90	93.40	111.80	116.20	201.50	25.90	106.70	106.30	104.90	:	107.70
2	65.50	0.00	110.80	110.20	83.00	82.50	111.80	115.60	210.90	35.10	106.50	106.30	109.30	:	107.40
3	64.90	0.00	111.10	110.20	65.80	65.30	111.60	114.50	210.40	35.10	106.50	105.90	110.20	:	107.10
4	74.40	0.00	110.90	110.30	67.00	66.50	111.50	113.70	210.70	35.10	106.40	105.80	110.40	:	106.80
5	72.30	0.00	110.90	110.90	65.70	65.20	111.30	113.30	211.10	35.10	106.20	105.60	110.30	:	106.60
6	70.70	0.00	110.80	109.80	68.50	37.10	110.90	113.30	207.70	31.90	106.10	105.50	110.30	:	106.50
7	71.20	0.00	110.50	109.50	70.20	35.60	110.80	111.70	174.60	0.00	105.90	105.50	108.60	:	106.60
8	87.20	0.00	110.20	109.50	81.10	39.70	110.60	111.90	175.20	0.00	105.70	105.40	106.30	:	106.80
9	85.10	0.00	109.80	109.50	85.00	42.90	110.50	112.40	175.10	0.00	105.80	105.60	105.00	:	107.30
10	84.90	0.00	109.60	-999.00	84.00	43.00	110.50	113.40	174.80	0.00	105.80	105.50	104.60	:	107.90
11	85.00	0.00	109.20	-999.00	86.60	43.70	110.60	113.40	174.40	0.00	105.80	105.60	104.60	:	108.50
12	84.70	0.00	108.90	-999.00	85.50	42.90	110.60	113.60	173.50	0.00	105.80	105.60	104.60	:	109.00
13	76.20	0.00	108.60	-999.00	86.80	42.90	110.60	113.50	172.90	0.00	105.80	105.50	104.60	:	109.40
14	67.40	0.00	108.30	-999.00	74.60	38.30	110.50	113.60	217.10	43.70	105.80	105.50	105.80	:	109.80
15	59.80	0.00	108.60	-999.00	72.60	37.00	110.50	112.60	219.70	45.20	105.90	105.60	110.70	:	109.60
16	59.80	0.00	108.40	-999.00	61.00	29.60	110.50	112.20	219.00	45.20	105.90	105.60	111.40	:	109.10
17	59.70	0.00	108.80	-999.00	60.20	30.30	110.30	111.20	219.30	45.00	105.80	105.60	111.60	:	108.70
18	61.20	0.00	109.30	-999.00	60.60	29.70	110.20	110.50	219.30	45.00	105.70	105.40	111.40	:	108.50
19	61.50	0.00	110.70	-999.00	61.70	32.00	110.20	110.70	218.90	44.90	105.60	105.10	111.40	:	108.40
20	80.20	0.00	109.90	-999.00	81.00	40.00	109.90	110.90	174.50	0.70	105.30	104.90	109.50	:	108.30
21	80.40	0.00	108.70	-999.00	80.10	40.00	109.60	111.90	174.20	0.00	105.30	104.90	105.50	:	108.30
22	81.90	0.00	108.90	-999.00	79.40	39.00	109.40	112.30	173.50	0.00	105.10	104.60	104.40	:	108.20
23	60.20	0.00	108.80	-999.00	62.10	30.10	109.20	112.00	174.60	0.00	105.00	104.60	103.80	:	108.10
24	62.40	0.00	110.10	-999.00	60.10	30.10	108.90	110.80	174.70	0.00	104.90	104.60	103.40	:	108.00

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**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

22 JUN 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	LOWER GRANITE	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.		
1	2.20	0.00	102.70	103.40	101.10	0.00	56.20	0.00	100.90	100.80	56.60	0.00	105.30	104.90	
2	2.20	0.00	102.70	103.40	100.90	0.00	55.10	0.00	100.70	100.60	53.20	0.00	105.20	104.80	
3	2.20	0.00	102.80	103.20	100.80	0.00	51.70	0.00	100.70	100.60	53.20	0.00	105.00	104.60	
4	2.20	0.00	102.80	103.20	100.60	0.00	51.60	0.00	100.60	100.40	53.20	0.00	104.60	104.30	
5	2.20	0.00	102.80	103.20	100.40	0.00	51.70	0.00	100.50	100.20	53.20	0.00	104.40	104.10	
6	2.20	0.00	102.80	103.10	100.30	0.00	52.80	0.00	100.40	100.20	53.20	0.00	104.40	103.90	
7	2.20	0.00	102.80	1.50	100.30	0.00	55.70	0.00	100.40	100.30	55.60	0.00	104.40	103.90	
8	2.20	0.00	103.20	103.30	100.50	0.00	55.90	0.00	100.30	100.10	55.60	0.00	104.20	103.70	
9	2.20	0.00	103.70	103.40	100.90	0.00	55.90	0.00	100.30	100.20	54.90	0.00	103.90	103.80	
10	2.20	0.00	104.10	103.70	101.10	0.00	56.90	0.00	100.30	100.20	55.10	0.00	103.80	103.80	
11	2.20	0.00	104.20	104.10	101.60	0.00	56.00	0.00	100.30	100.20	55.10	0.00	103.40	103.50	
12	2.20	0.00	104.50	104.40	101.90	0.00	55.90	0.00	100.50	100.40	55.10	0.00	103.10	103.40	
13	2.20	0.00	104.50	104.70	102.00	0.00	56.00	0.00	100.50	100.30	50.40	0.00	103.10	103.30	
14	2.20	0.00	104.80	105.00	102.50	0.00	56.00	0.00	100.50	100.30	50.40	0.00	103.20	103.30	
15	2.20	0.00	105.10	105.20	102.80	0.00	57.00	0.00	100.60	100.30	50.40	0.00	103.20	103.40	
16	2.20	0.00	104.80	105.30	102.90	0.00	56.10	0.00	100.40	100.40	56.30	0.00	103.40	103.30	
17	2.20	0.00	104.70	105.30	103.00	0.00	55.90	0.00	100.50	100.20	56.30	0.00	103.70	103.50	
18	2.20	0.00	104.50	105.20	102.80	0.00	57.50	0.00	100.50	100.40	56.30	0.00	103.70	103.70	
19	2.20	0.00	104.00	104.80	102.50	0.00	57.10	0.00	100.50	100.40	57.80	0.00	103.70	103.70	
20	2.20	0.00	103.50	-999.00	102.20	0.00	59.90	0.00	100.60	100.40	62.50	0.00	104.00	103.80	
21	2.20	0.00	103.10	104.30	101.70	0.00	60.10	0.00	100.50	100.20	62.40	0.00	104.30	103.70	
22	2.20	0.00	102.80	-999.00	101.40	0.00	59.80	0.00	100.50	100.10	62.50	0.00	104.30	103.80	
23	2.20	0.00	102.80	-999.00	101.30	0.00	55.70	0.00	100.50	100.10	64.00	0.00	104.50	103.90	
24	2.20	0.00	102.80	-999.00	101.10	0.00	50.10	0.00	100.50	100.20	60.00	0.00	104.80	104.00	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB	WA TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB	GAS %SAT	
1	56.50	0.00	111.90 -999.00	60.00	30.00	109.00 110.50	175.30	0.00	104.60	104.60	103.30	0.00	107.70		
2	54.70	0.00	111.20 109.80	61.60	30.10	109.10 110.40	175.30	0.00	104.60	104.40	103.20	0.00	107.60		
3	54.80	0.00	111.30 109.60	59.70	29.80	109.00 110.60	175.40	0.00	104.40	104.50	103.00	0.00	107.50		
4	54.70	0.00	109.40 109.50	57.30	28.50	108.60 110.40	175.40	0.00	104.20	104.30	103.00	0.00	107.40		
5	54.90	0.00	110.20 109.30	56.20	28.00	108.50 110.10	175.50	0.00	104.20	104.20	102.90	0.00	107.30		
6	56.30	0.00	110.10 109.20	56.20	28.00	108.40 110.10	175.50	0.00	104.00	104.00	102.90	0.00	107.30		
7	56.80	0.00	110.00 108.80	56.20	28.00	108.20 110.20	175.80	0.00	104.00	104.00	102.80	0.00	107.40		
8	61.10	0.00	109.70 108.70	57.80	29.50	108.20 110.40	175.80	0.00	104.00	103.80	102.80	0.00	107.40		
9	69.10	0.00	109.30 108.50	64.20	32.70	108.10 111.10	175.70	0.00	104.00	104.10	102.90	0.00	107.70		
10	69.60	0.00	108.90 108.50	72.80	36.70	107.80 111.90	175.80	0.00	103.90	103.80	103.00	0.00	108.00		
11	69.80	0.00	108.40 108.30	71.90	36.20	107.80 112.10	175.70	0.00	104.20	103.70	103.00	0.00	108.50		
12	69.70	0.00	107.90 108.10	72.20	36.20	107.80 112.20	175.50	0.00	104.20	103.80	103.30	0.00	109.00		
13	70.40	0.00	107.40 107.70	73.50	36.20	107.70 112.30	175.50	0.00	104.10	104.00	103.30	0.00	109.60		
14	55.50	0.00	107.20 -999.00	71.50	36.10	107.70 112.50	175.80	0.00	104.40	104.20	103.60	0.00	110.20		
15	55.00	0.00	107.30 -999.00	56.80	27.80	107.60 112.30	175.80	0.00	104.80	104.20	103.60	0.00	110.90		
16	54.90	0.00	107.80 -999.00	57.80	27.80	107.60 111.20	175.90	0.00	106.20	104.60	103.70	0.00	111.10		
17	53.20	0.00	107.70 -999.00	57.30	28.30	107.50 111.20	176.00	0.00	106.20	104.50	103.70	0.00	111.20		
18	52.60	0.00	108.10 -999.00	56.00	27.80	107.70 110.70	179.20	3.20	105.90	104.40	103.70	0.00	111.10		
19	53.50	0.00	107.40 -999.00	56.30	27.80	108.00 110.60	208.40	31.90	105.80	104.30	105.60	0.00	111.00		
20	57.70	0.00	107.00 -999.00	56.30	27.80	108.00 110.30	208.50	31.90	105.60	104.20	109.00	0.00	110.90		
21	61.90	0.00	107.10 -999.00	61.60	30.30	107.80 110.20	208.40	31.90	105.40	104.20	109.50	0.00	110.30		
22	64.30	0.00	107.10 -999.00	62.50	32.10	107.70 110.80	196.80	20.70	105.30	104.20	109.40	0.00	109.40		
23	64.30	0.00	105.90 -999.00	63.50	32.60	107.60 110.90	174.90	0.00	105.10	104.10	106.30	0.00	108.80		
24	64.80	0.00	105.40 4.30	62.30	32.10	107.50 111.10	174.70	0.00	104.90	135.10	104.70	0.00	108.20		

23 JUN 2003

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

23 JUN 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	LOWER GRANITE	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.		
1	2.20	0.00	102.80	103.20	101.00	0.00	49.10	0.00	100.50	100.10	48.40	0.00	104.80	104.20	
2	2.20	0.00	102.70	103.10	100.80	0.00	49.00	0.00	100.50	100.00	48.70	0.00	104.80	104.10	
3	2.20	0.00	102.70	103.00	100.70	0.00	48.50	0.00	100.50	99.90	48.70	0.00	104.80	104.20	
4	2.20	0.00	102.70	142.60	100.50	0.00	49.70	0.00	100.50	99.90	46.00	0.00	104.70	104.20	
5	2.50	0.00	102.50	102.70	100.30	0.00	60.40	0.00	100.40	100.30	47.50	0.00	104.60	104.10	
6	5.50	0.00	107.90	102.70	100.10	0.00	60.10	0.00	100.30	99.90	60.00	0.00	104.60	104.40	
7	7.30	0.00	104.80	102.60	101.20	0.00	65.40	0.00	100.30	99.90	60.00	0.00	104.50	104.00	
8	7.50	0.00	102.60	102.90	101.90	0.00	74.50	0.00	100.20	100.30	66.00	0.00	104.30	104.10	
9	7.30	0.00	102.70	103.20	101.30	0.00	76.50	0.00	100.30	100.20	68.50	0.00	104.40	105.10	
10	7.40	0.00	102.90	103.60	101.60	0.00	74.50	0.00	100.30	100.20	68.50	0.00	104.20	104.30	
11	7.30	0.00	103.10	103.60	102.00	0.00	66.50	0.00	100.30	100.20	65.00	0.00	104.10	104.20	
12	7.50	0.00	103.30	104.00	102.60	0.00	65.70	0.00	100.90	100.40	65.10	0.00	104.10	104.20	
13	7.30	0.00	103.30	104.40	102.80	0.00	56.50	0.00	100.60	100.40	65.50	0.00	104.00	104.30	
14	7.30	0.00	103.30	104.40	103.10	102.80	55.00	0.00	100.60	100.50	53.80	0.00	103.60	104.60	
15	7.50	0.00	103.40	104.70	103.10	103.00	54.70	0.00	100.60	100.60	53.90	0.00	103.20	104.20	
16	7.30	0.00	103.70	104.90	103.60	103.10	54.80	0.00	100.50	100.40	55.30	0.00	103.10	103.90	
17	7.40	0.00	103.50	105.00	103.70	103.40	62.20	0.00	100.60	100.40	55.80	0.00	103.10	103.60	
18	7.30	0.00	103.30	105.00	103.60	103.90	61.90	0.00	100.70	100.70	55.70	0.00	102.90	103.40	
19	7.50	0.00	103.10	104.60	103.40	103.60	61.70	0.00	100.60	101.30	55.70	0.00	102.70	103.10	
20	7.30	0.00	103.00	104.30	103.10	103.00	61.60	0.00	100.40	100.70	55.70	0.00	102.60	102.80	
21	7.40	0.00	102.90	103.80	102.50	102.30	61.60	0.00	100.20	100.50	55.50	0.00	102.40	102.60	
22	7.30	0.00	102.80	103.50	102.10	101.60	62.30	0.00	100.20	100.30	55.50	0.00	102.50	102.40	
23	5.30	0.00	102.80	103.20	101.80	101.20	49.70	0.00	100.10	100.20	48.50	0.00	102.10	102.50	
24	4.60	0.00	102.70	103.10	101.60	100.80	48.80	0.00	100.10	100.00	48.10	0.00	101.80	102.10	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB	WA TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB	GAS %SAT	
1	59.00	0.00	105.80	105.00	62.50	32.10	107.50	111.10	0.00	104.60	135.60	104.20	0.00	107.90	
2	58.80	0.00	105.80	105.00	62.50	32.10	107.50	111.20	0.00	104.60	136.30	103.60	0.00	107.50	
3	58.60	0.00	106.10	105.00	62.40	32.10	107.50	111.20	0.00	104.40	136.30	103.30	0.00	107.20	
4	58.60	0.00	106.30	104.90	62.30	32.10	107.30	111.10	0.00	104.50	136.30	103.20	0.00	107.10	
5	58.70	0.00	106.40	104.70	63.50	32.80	107.20	111.10	0.00	104.40	136.20	103.20	0.00	106.80	
6	57.00	0.00	105.80	104.30	60.50	44.60	107.10	111.00	0.00	104.20	136.10	103.20	0.00	106.60	
7	58.20	0.00	105.50	104.20	58.00	44.90	107.10	112.40	0.00	104.50	136.10	103.00	0.00	106.30	
8	62.60	0.00	105.20	104.40	57.80	44.90	106.90	112.30	0.00	104.40	135.80	103.00	0.00	106.30	
9	63.40	0.00	105.10	104.60	58.10	44.90	106.90	112.60	0.00	104.40	135.70	103.00	0.00	106.40	
10	73.90	0.00	105.20	104.60	59.20	45.00	106.80	113.00	0.00	104.60	135.60	103.20	0.00	106.80	
11	74.80	0.00	104.60	104.90	76.20	45.00	107.10	113.00	0.00	104.80	135.30	103.80	0.00	107.20	
12	75.80	0.00	104.30	104.80	78.40	45.80	107.00	113.60	0.00	105.70	135.50	103.70	0.00	107.90	
13	68.80	0.00	104.30	105.00	81.20	44.90	107.10	113.60	0.10	107.10	135.60	104.20	0.00	108.70	
14	66.80	0.00	104.20	105.00	81.20	44.90	106.80	115.10	0.00	107.10	135.90	104.20	0.00	109.60	
15	66.90	0.00	105.60	106.90	80.00	44.70	106.80	115.70	0.00	107.70	106.40	104.40	0.00	110.10	
16	61.80	0.00	105.60	107.00	67.30	44.90	106.60	113.80	0.00	108.10	105.70	104.40	0.00	110.40	
17	60.90	0.00	104.40	105.30	64.70	44.80	106.70	113.30	0.00	108.80	105.40	104.40	0.00	110.60	
18	59.70	0.00	104.20	104.90	65.50	45.60	106.80	112.90	0.00	108.70	105.60	104.20	0.00	110.90	
19	62.20	0.00	104.00	105.10	59.50	49.60	106.70	113.00	0.00	109.10	105.60	104.20	0.00	111.00	
20	61.30	0.00	104.50	104.60	54.20	44.80	106.60	112.60	0.00	109.10	105.40	104.10	0.00	110.90	
21	60.00	0.00	104.90	104.30	54.20	44.80	106.60	112.00	0.00	109.50	106.00	104.10	0.00	110.80	
22	58.20	0.00	104.50	104.10	55.80	44.90	106.40	112.00	0.00	105.90	105.80	104.00	0.00	110.40	
23	50.20	0.00	104.50	104.20	54.30	44.90	106.40	112.20	0.00	105.40	105.60	103.80	0.00	109.90	
24	50.10	0.00	104.40	103.60	55.30	45.70	106.20	112.10	0.00	107.00	105.70	103.70	0.00	109.40	

24 JUN 2003

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

24 JUN 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.			
1	4.10	0.00	109.40	103.00	101.20	100.40	48.50	0.00	99.80	100.00	44.70	0.00	102.00	101.80	
2	4.30	0.00	1000.00	102.90	101.90	100.10	49.40	0.00	99.80	99.90	43.30	0.00	101.20	101.80	
3	4.30	0.00	1000.00	102.70	102.50	100.00	66.60	0.00	99.80	100.00	43.30	0.00	100.90	101.40	
4	4.30	0.00	1000.00	102.80	102.40	99.70	68.60	0.00	99.80	100.00	44.20	0.00	100.90	101.30	
5	4.40	0.00	1000.00	102.60	102.20	99.40	70.50	0.00	100.00	100.00	68.40	0.00	100.80	101.60	
6	4.30	0.00	1000.00	102.50	102.00	99.20	69.00	0.00	100.10	100.30	68.40	0.00	100.80	101.00	
7	4.40	0.00	1000.00	102.50	102.10	99.30	70.00	0.00	100.00	99.90	68.90	0.00	100.60	101.00	
8	4.30	0.00	1000.00	102.60	102.30	99.50	61.00	0.00	100.20	99.90	70.00	0.00	100.80	101.10	
9	4.30	0.00	111.40	102.90	102.70	100.10	65.10	0.00	100.30	100.00	68.40	0.00	100.50	100.90	
10	4.20	0.00	105.20	103.30	103.10	100.80	59.10	0.00	100.30	100.10	68.50	0.00	100.60	100.90	
11	4.20	0.00	103.70	103.70	102.90	101.60	58.40	0.00	100.60	100.50	69.70	0.00	100.40	101.00	
12	4.30	0.00	103.60	103.90	102.60	102.40	60.80	0.00	100.30	100.30	67.80	0.00	100.20	100.90	
13	4.20	0.00	103.80	104.20	102.90	103.40	60.30	0.00	100.10	100.40	67.80	0.00	100.10	100.90	
14	4.30	0.00	104.10	104.60	103.30	104.10	58.50	0.00	100.40	100.40	67.90	0.00	100.00	100.80	
15	4.30	0.00	103.60	104.80	103.70	104.80	60.40	0.00	100.80	101.00	67.80	0.00	100.00	100.80	
16	4.20	0.00	103.20	104.90	103.30	105.10	60.20	0.00	100.50	100.70	69.80	0.00	99.90	100.70	
17	4.20	0.00	103.00	104.90	103.00	105.20	62.70	0.00	100.60	100.70	71.40	0.00	100.00	100.60	
18	4.30	0.00	102.70	104.60	102.80	105.20	60.00	0.00	100.80	100.60	70.00	0.00	99.80	100.60	
19	2.20	0.00	102.40	104.50	102.50	104.70	61.70	0.00	100.70	100.80	63.10	0.00	99.90	100.40	
20	2.20	0.00	102.30	104.10	102.20	2.30	56.90	0.00	100.80	100.50	64.70	0.00	100.00	100.20	
21	2.20	0.00	102.20	103.90	101.90	2.30	48.70	0.00	101.80	100.70	60.90	0.00	100.20	100.20	
22	2.20	0.00	102.00	103.50	101.60	2.30	47.80	0.00	101.10	100.40	55.40	0.00	101.20	100.30	
23	2.20	0.00	101.90	103.30	101.20	2.30	43.70	0.00	101.10	100.40	44.90	0.00	101.50	100.30	
24	2.20	0.00	102.00	103.10	101.00	2.30	46.20	0.00	101.20	100.40	39.70	0.00	101.40	99.90	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	
1	44.40	0.00	104.10	103.30	55.90	45.00	106.20	112.00	0.00	171.40	106.80	105.50	103.70	0.00	109.10
2	44.10	0.00	104.50	103.10	54.40	44.90	106.50	111.90	0.00	174.30	106.40	105.30	103.40	0.00	108.80
3	44.60	0.00	103.80	103.00	54.30	44.80	106.50	111.90	0.00	174.20	106.20	105.10	103.40	0.00	108.70
4	45.30	0.00	103.60	102.90	54.30	44.90	106.50	112.00	0.00	173.90	106.00	104.80	103.30	0.00	108.40
5	55.70	0.00	104.00	102.80	56.60	46.70	106.60	112.10	0.00	174.50	105.70	104.60	103.40	0.00	108.20
6	57.00	0.00	103.40	102.50	54.30	44.80	106.70	112.00	0.00	174.50	105.50	105.60	103.30	0.00	108.10
7	56.30	0.00	103.70	102.60	54.50	44.80	106.60	115.60	0.00	174.70	104.60	105.60	103.40	0.00	108.40
8	73.70	0.00	103.90	103.30	57.40	44.80	106.50	116.10	0.00	174.90	104.40	105.70	103.70	0.00	108.60
9	75.20	0.00	103.90	103.60	74.50	44.90	106.80	116.30	0.00	174.70	104.30	105.50	103.80	0.00	108.90
10	73.30	0.00	103.60	105.10	77.40	45.70	106.90	117.00	0.00	172.10	104.50	105.50	104.20	0.00	109.50
11	73.50	0.00	103.90	104.20	75.20	44.90	106.90	117.50	0.00	164.60	107.20	105.80	104.30	0.00	110.20
12	81.60	0.00	103.90	104.10	75.10	44.90	107.10	117.30	0.00	169.10	108.00	106.10	104.60	0.00	110.90
13	81.10	0.00	103.70	104.10	76.60	44.80	107.00	117.50	0.80	173.70	108.90	106.10	104.70	0.00	111.30
14	82.80	0.00	103.60	104.30	75.00	44.90	107.20	117.60	0.90	172.60	109.90	106.30	104.90	0.00	111.70
15	82.70	0.00	103.40	104.60	75.00	44.90	107.50	117.50	1.30	171.70	111.20	106.10	105.00	0.00	112.20
16	81.10	0.00	103.90	104.50	78.00	45.80	107.80	117.50	213.70	41.30	112.80	106.50	106.80	0.00	112.50
17	73.80	0.00	103.40	105.30	75.10	44.90	108.00	117.80	214.30	41.60	109.50	106.40	110.50	0.00	112.80
18	70.60	0.00	103.40	104.60	76.30	46.10	107.60	117.60	214.30	41.80	106.50	107.00	111.40	0.00	113.20
19	72.20	0.00	104.10	106.20	82.90	50.90	107.30	117.30	214.90	41.70	112.60	106.80	111.70	0.00	113.30
20	70.50	0.00	103.80	104.20	82.70	50.80	107.00	117.40	215.10	41.30	113.00	107.80	111.60	0.00	113.50
21	70.70	0.00	103.50	103.60	75.30	50.70	107.00	117.70	215.40	41.30	112.10	107.80	111.70	0.00	113.40
22	79.00	0.00	103.40	103.30	74.70	51.60	107.10	116.70	213.80	41.10	111.40	107.50	111.40	0.00	113.20
23	71.50	0.00	103.50	103.10	60.30	50.90	106.60	116.80	211.90	41.10	110.60	107.30	111.30	0.00	112.90
24	41.90	0.00	103.50	103.30	47.90	47.40	106.30	116.50	213.90	41.00	107.40	107.30	111.40	0.00	112.70

25 JUN 2003

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

25 JUN 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	LOWER GRANITE	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.		
1	2.20	0.00	101.80	103.00	100.70	2.30	49.90	0.00	101.10	100.30	40.30	0.00	101.60	99.90	
2	2.20	0.00	101.80	102.90	100.50	2.30	50.90	0.00	101.00	100.30	40.30	0.00	101.30	99.90	
3	2.20	0.00	101.60	102.70	100.30	2.30	49.90	0.00	101.00	100.30	40.30	0.00	101.10	99.60	
4	2.20	0.00	101.50	102.50	100.00	2.30	49.90	0.00	101.20	100.20	40.30	0.00	101.10	99.50	
5	2.20	0.00	101.30	102.50	99.80	2.30	50.00	0.00	101.20	100.20	40.30	0.00	100.80	99.40	
6	2.20	0.00	101.40	102.30	99.70	2.30	50.30	0.00	101.30	100.10	40.30	0.00	100.70	99.30	
7	4.20	0.00	102.00	102.40	99.90	2.30	51.20	0.00	101.10	100.20	40.30	0.00	100.90	99.40	
8	4.30	0.00	102.00	102.50	100.10	2.30	50.40	0.00	101.00	100.30	45.10	0.00	101.00	99.40	
9	4.20	0.00	102.30	102.80	100.60	2.30	50.40	0.00	100.70	100.30	45.20	0.00	101.30	100.70	
10	4.30	0.00	102.40	103.20	101.20	2.30	52.20	0.00	102.20	101.20	44.20	0.00	101.40	100.20	
11	4.20	0.00	102.60	103.60	101.70	2.30	50.10	0.00	102.10	100.70	49.60	0.00	101.30	99.90	
12	4.20	0.00	102.90	104.10	102.10	0.00	41.30	0.00	101.60	101.50	49.50	0.00	100.10	99.80	
13	4.30	0.00	103.10	104.50	102.70	103.60	40.20	0.00	101.40	101.40	49.60	0.00	100.50	100.10	
14	4.20	0.00	103.20	104.80	103.20	104.40	39.90	0.00	101.40	101.50	39.80	0.00	100.70	100.10	
15	4.30	0.00	103.20	104.80	103.60	104.70	38.90	0.00	101.40	101.20	39.80	0.00	100.70	100.20	
16	4.20	0.00	103.00	104.60	103.80	104.40	40.60	0.00	101.60	101.20	39.60	0.00	100.70	100.20	
17	4.30	0.00	103.00	104.50	103.80	104.50	40.00	0.00	101.60	101.00	41.00	0.00	100.40	100.10	
18	3.90	0.00	102.70	104.50	103.80	104.50	53.70	0.00	101.00	101.00	39.80	0.00	100.20	100.20	
19	2.20	0.00	102.60	104.40	103.30	104.10	54.80	0.00	100.80	100.90	55.40	0.00	99.10	99.80	
20	2.20	0.00	102.30	104.10	102.90	103.50	67.00	0.00	101.40	100.90	64.90	0.00	99.00	99.90	
21	2.20	0.00	102.10	103.80	102.50	102.70	68.50	0.00	102.20	100.90	67.50	0.00	99.10	99.60	
22	2.20	0.00	102.10	103.60	102.00	102.00	66.50	0.00	102.30	100.80	66.10	0.00	99.10	99.40	
23	2.20	0.00	102.00	103.30	101.60	101.50	63.70	0.00	101.70	100.80	66.10	0.00	99.50	99.30	
24	2.20	0.00	101.90	103.30	101.40	101.10	48.20	0.00	101.80	101.10	51.40	0.00	100.20	99.50	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB	WA TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB	GAS %SAT	
1	32.30	0.00	103.40	102.80	37.60	37.10	106.30	116.30	40.90	105.50	109.20	111.50	112.30		
2	31.70	0.00	103.00	103.00	30.80	30.30	107.10	115.90	40.70	105.20	108.80	111.50	112.10		
3	32.60	0.00	103.80	102.40	27.20	25.20	107.50	114.80	40.70	104.90	108.90	111.30	111.80		
4	32.90	0.00	103.50	102.30	26.10	25.60	107.20	113.20	40.70	105.80	108.40	111.10	111.60		
5	33.60	0.00	103.10	102.00	26.00	25.30	106.90	112.70	40.70	106.20	108.20	111.10	111.30		
6	34.20	0.00	102.90	101.90	34.40	25.20	106.50	112.60	40.70	106.20	108.20	111.10	111.10		
7	39.40	0.00	102.90	101.80	34.50	25.20	106.40	112.80	40.70	106.20	107.70	111.20	111.10		
8	39.50	0.00	102.60	102.20	34.50	25.30	106.40	112.90	40.70	105.90	107.70	111.40	111.00		
9	42.90	0.00	102.40	102.60	41.10	30.40	105.90	113.10	40.50	106.20	107.80	111.40	111.10		
10	48.00	0.00	103.20	102.90	42.00	31.10	105.70	114.10	50.10	106.70	107.60	112.10	111.40		
11	49.60	0.00	103.90	103.20	51.80	42.60	105.40	114.60	50.30	107.30	107.60	113.30	111.50		
12	61.10	0.00	103.50	103.40	54.50	45.00	105.40	116.30	50.30	108.60	107.40	113.60	112.30		
13	62.40	0.00	103.90	104.20	60.20	45.00	105.40	117.00	50.30	106.70	107.60	113.50	112.50		
14	60.60	0.00	103.50	103.80	59.00	45.00	105.40	116.90	50.30	111.70	107.70	113.70	112.80		
15	60.10	0.00	103.30	103.90	60.10	45.80	105.40	116.50	50.40	112.00	107.50	113.60	113.20		
16	40.40	0.00	103.20	104.30	59.50	44.20	105.30	116.40	50.70	113.00	107.60	113.60	113.70		
17	39.90	0.00	104.30	104.50	49.70	40.20	105.60	116.30	50.70	115.10	107.70	113.60	114.10		
18	40.90	0.00	104.20	105.50	42.10	32.80	105.60	116.50	44.10	114.80	108.40	113.80	114.50		
19	40.20	0.00	104.90	104.50	40.90	30.00	105.40	115.50	40.20	108.20	110.10	112.30	114.60		
20	63.30	0.00	103.30	104.40	53.10	42.20	105.50	114.30	40.20	106.00	110.80	111.90	114.70		
21	64.40	0.00	103.00	103.80	65.70	56.10	105.40	115.90	40.10	106.50	109.50	111.70	114.50		
22	65.50	0.00	104.40	103.60	64.70	55.30	105.30	116.40	40.10	109.10	109.50	111.70	114.30		
23	65.20	0.00	104.00	103.40	64.50	55.10	105.70	116.60	40.10	106.50	110.20	111.70	114.10		
24	64.20	0.00	104.30	103.20	67.40	58.10	105.10	116.90	40.10	106.10	110.70	111.70	114.00		

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**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

26 JUN 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	LOWER GRANITE	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.		
1	2.20	0.00	101.80	103.10	101.10	100.80	38.80	0.00	101.90	100.90	43.60	0.00	100.60	99.40	
2	2.20	0.00	101.70	103.00	100.80	100.50	39.10	0.00	102.20	100.90	38.40	0.00	100.30	99.50	
3	2.20	0.00	101.80	102.70	100.60	100.10	28.20	0.00	102.30	100.80	28.60	0.00	101.50	99.30	
4	2.20	0.00	101.80	102.70	100.40	99.80	27.30	0.00	102.50	100.80	27.20	0.00	101.20	99.40	
5	2.20	0.00	101.90	102.50	100.20	99.70	28.60	0.00	102.20	100.80	27.20	0.00	100.20	99.20	
6	3.20	0.00	101.80	102.50	100.00	99.50	58.30	0.00	103.00	101.20	27.40	0.00	100.10	99.20	
7	4.20	0.00	102.10	102.50	100.10	99.70	58.30	0.00	102.90	101.00	58.00	0.00	100.30	99.90	
8	4.20	0.00	101.80	102.50	100.50	100.30	60.20	0.00	103.00	101.00	57.60	0.00	100.10	99.50	
9	4.20	0.00	102.00	102.90	100.90	100.90	52.20	0.00	103.30	101.10	49.40	0.00	102.90	100.00	
10	4.30	0.00	102.50	103.20	101.40	101.70	51.50	0.00	104.40	101.20	48.60	0.00	103.50	100.00	
11	4.30	0.00	102.80	103.80	101.90	102.70	48.80	0.00	105.50	101.70	48.60	0.00	103.80	100.20	
12	4.20	0.00	103.20	104.40	102.60	103.40	48.40	0.00	106.30	102.60	48.30	0.00	104.00	100.30	
13	4.30	0.00	103.30	104.70	103.10	104.20	47.00	0.00	106.00	102.30	48.40	0.00	104.50	100.40	
14	4.20	0.00	103.30	105.10	103.50	104.70	46.70	0.00	106.20	101.90	49.30	0.00	101.90	100.90	
15	4.30	0.00	103.40	105.30	103.80	0.00	42.80	0.00	104.90	102.20	49.30	0.00	99.50	100.60	
16	4.20	0.00	103.30	105.40	104.00	105.30	41.00	0.00	105.30	102.20	33.80	0.00	101.40	100.70	
17	4.30	0.00	103.20	105.50	0.00	105.20	41.90	0.00	106.60	102.20	33.90	0.00	99.60	100.80	
18	3.90	0.00	102.60	105.10	104.20	105.10	61.00	0.00	107.50	102.30	44.40	0.00	99.30	100.70	
19	2.20	0.00	102.70	104.90	104.00	104.70	62.40	0.00	107.80	102.30	56.50	0.00	99.70	100.50	
20	2.20	0.00	102.60	104.50	103.40	104.00	64.40	0.00	105.30	102.30	66.70	0.00	99.20	100.20	
21	2.20	0.00	102.40	104.00	103.00	103.20	61.10	0.00	105.80	102.50	70.70	0.00	99.30	100.00	
22	2.20	0.00	102.30	103.70	102.50	102.50	46.20	0.00	105.50	102.60	71.00	0.00	99.20	99.70	
23	2.20	0.00	102.30	103.40	102.10	102.00	42.40	0.00	105.10	102.20	70.90	0.00	99.20	99.40	
24	2.20	0.00	102.20	103.20	101.80	101.40	41.70	0.00	104.60	102.20	36.40	0.00	99.00	99.30	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB	MCNARY	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	PASCO	
1	66.00	0.00	104.30	103.20	70.80	59.80	105.10	117.20	40.10	106.30	110.80	111.50	113.80		
2	69.90	0.00	103.70	102.70	69.30	59.90	106.40	117.20	40.10	107.40	110.70	111.60	113.60		
3	69.30	0.00	103.50	102.50	62.70	60.90	105.10	117.20	40.10	106.80	110.10	111.60	113.40		
4	30.00	0.00	103.20	102.20	53.30	52.70	106.10	117.40	40.10	106.50	109.90	111.60	113.10		
5	27.20	0.00	103.50	102.70	42.30	40.30	106.30	117.10	40.10	106.50	109.50	111.60	112.90		
6	20.20	0.00	102.90	102.20	31.70	20.30	106.00	116.20	40.10	106.70	109.40	111.80	112.80		
7	19.90	0.00	103.90	102.00	24.90	0.00	105.80	116.00	40.10	107.20	109.40	111.90	112.50		
8	27.70	0.00	103.00	102.20	17.10	0.00	105.30	114.40	13.50	108.20	109.00	112.00	112.30		
9	54.70	0.00	106.20	102.80	11.20	0.00	105.40	111.10	0.00	108.20	109.70	109.50	112.50		
10	50.70	0.00	107.00	103.20	27.30	0.00	105.70	107.20	0.00	108.30	109.90	108.90	112.70		
11	59.50	0.00	103.10	103.40	41.40	0.00	108.20	107.40	0.00	108.50	110.00	108.90	113.20		
12	58.60	0.00	103.40	105.00	47.60	0.00	107.90	106.10	17.70	109.60	110.30	109.00	113.70		
13	46.10	0.00	103.80	104.00	47.90	0.00	107.00	105.90	223.00	55.20	112.40	110.80	111.00	114.10	
14	46.00	0.00	104.40	104.30	49.60	0.00	109.10	105.80	257.20	94.30	117.00	110.80	115.20	114.30	
15	42.70	0.00	104.50	104.70	46.20	0.00	108.70	106.10	270.40	98.90	112.30	111.10	116.40	114.70	
16	48.60	0.00	103.90	104.80	46.30	0.00	109.80	105.70	275.60	98.80	115.20	112.80	116.60	114.90	
17	53.70	0.00	102.80	104.60	46.40	0.00	111.10	106.20	275.20	98.70	113.20	113.00	116.60	115.20	
18	56.70	0.00	106.90	104.40	50.30	0.00	113.10	105.70	275.40	98.60	109.70	113.10	116.40	115.30	
19	66.10	0.00	105.90	104.60	58.60	0.00	115.30	105.50	275.20	98.60	109.40	113.10	116.50	115.40	
20	71.50	0.00	105.50	104.20	63.00	0.00	109.70	105.70	268.00	92.00	109.70	115.10	116.30	115.30	
21	76.40	0.00	105.30	103.80	76.60	0.00	107.10	105.70	172.70	0.00	111.00	113.50	113.70	115.20	
22	78.60	0.00	104.60	103.90	78.80	0.00	106.00	105.00	171.10	0.00	116.10	113.50	111.60	115.10	
23	83.60	0.00	103.20	103.60	76.80	0.00	107.60	104.70	171.20	0.00	115.40	111.80	110.80	114.90	
24	63.00	0.00	102.90	103.00	61.30	0.00	107.40	104.70	169.20	0.00	115.40	112.00	110.70	114.50	

27 JUN 2003

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

27 JUN 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.			
1	2.20	0.00	102.20	103.10	101.60	101.10	42.40	0.00	105.50	102.40	27.20	0.00	98.90	99.70	
2	2.20	0.00	-999.00	102.90	101.40	100.80	40.80	0.00	105.50	102.30	31.00	0.00	98.90	99.60	
3	2.20	0.00	-999.00	102.70	101.10	100.30	40.80	0.00	105.50	102.10	36.70	0.00	98.90	99.40	
4	2.20	0.00	-999.00	102.60	101.00	100.10	39.10	0.00	105.40	102.10	31.50	0.00	98.80	99.30	
5	2.20	0.00	-999.00	102.60	100.60	99.90	29.40	0.00	105.60	102.20	25.10	0.00	99.20	99.30	
6	2.40	0.00	-999.00	102.30	100.50	99.70	30.30	0.00	106.10	102.00	26.60	0.00	98.90	99.10	
7	4.20	0.00	1000.00	102.30	100.60	99.90	28.60	0.00	105.90	102.20	25.10	0.00	99.80	99.30	
8	4.30	0.00	1000.00	102.40	101.00	100.40	29.50	0.00	106.40	102.10	25.00	0.00	100.10	99.50	
9	4.20	0.00	1000.00	102.80	101.50	101.20	45.00	0.00	107.30	102.40	29.40	0.00	99.80	99.60	
10	4.30	0.00	1000.00	103.20	102.00	102.00	45.20	0.00	106.30	102.20	30.40	0.00	99.50	99.70	
11	4.20	0.00	1000.00	103.70	102.50	102.90	52.00	0.00	104.60	103.00	43.90	0.00	99.10	100.40	
12	4.30	0.00	1000.00	104.20	103.00	103.60	55.10	0.00	103.90	102.50	52.90	0.00	99.00	99.80	
13	4.30	0.00	1000.00	104.70	103.40	104.30	50.30	0.00	104.20	102.60	54.00	0.00	99.30	99.90	
14	4.30	0.00	104.90	104.90	103.80	104.80	49.10	0.00	104.20	102.40	55.00	0.00	99.50	100.00	
15	4.30	0.00	104.50	104.90	104.40	105.10	41.40	0.00	104.70	102.40	44.20	0.00	99.60	100.30	
16	4.20	0.00	104.30	105.00	104.90	105.30	40.00	0.00	104.10	102.20	35.00	0.00	99.80	100.30	
17	4.30	0.00	103.50	105.00	104.80	105.30	40.00	0.00	103.70	102.30	35.00	0.00	100.00	100.30	
18	3.90	0.00	103.20	104.80	104.60	104.90	40.80	0.00	103.50	102.60	35.10	0.00	100.50	100.40	
19	2.20	0.00	102.70	104.60	104.30	104.60	43.80	0.00	104.80	102.40	52.00	0.00	100.00	100.30	
20	2.20	0.00	102.50	104.20	103.60	104.00	52.10	0.00	104.60	103.20	55.10	0.00	99.70	100.70	
21	2.20	0.00	102.30	103.70	103.00	103.10	54.70	0.00	105.50	102.50	54.80	0.00	99.70	100.00	
22	2.20	0.00	102.30	103.40	102.40	102.40	55.00	0.00	104.30	102.40	54.60	0.00	99.50	100.00	
23	2.20	0.00	102.20	103.10	102.00	101.80	28.00	0.00	104.10	102.40	26.60	0.00	99.70	99.80	
24	2.20	0.00	102.20	102.80	101.70	101.40	24.90	0.00	104.30	102.00	28.00	0.00	99.50	100.00	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO				
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. WA TAILW. FB	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB				
1	34.30	0.00	103.00	102.80	0.00	106.50	104.60	0.00	114.60	111.90	110.40	0.00	114.60			
2	26.40	0.00	102.60	102.70	26.50	0.00	105.30	104.60	0.00	113.90	112.50	-999.00	0.00	114.40		
3	26.40	0.00	102.40	102.40	24.90	0.00	104.80	104.30	0.00	111.40	113.00	-999.00	0.00	114.40		
4	26.30	0.00	102.30	102.10	25.10	0.00	104.00	104.40	0.00	110.90	113.30	-999.00	0.00	114.10		
5	26.70	0.00	102.30	101.90	20.50	0.00	103.80	104.40	57.80	110.60	113.40	-999.00	0.00	113.90		
6	26.40	0.00	103.60	101.80	20.30	0.00	105.30	104.50	60.20	110.40	113.20	-999.00	0.00	113.60		
7	26.40	0.00	103.60	101.80	20.30	0.00	104.90	104.60	60.20	110.40	113.10	-999.00	0.00	113.60		
8	26.50	0.00	102.40	101.90	20.30	0.00	104.10	104.80	60.10	110.10	113.30	-999.00	0.00	-999.00		
9	30.90	0.00	102.70	102.30	23.80	0.00	104.10	105.10	59.90	111.20	113.00	-999.00	0.00	-999.00		
10	32.80	0.00	101.40	103.60	24.80	0.00	104.30	105.30	59.90	111.90	113.10	1000.00	0.00	-999.00		
11	35.50	0.00	104.00	104.70	31.30	0.00	106.90	105.50	54.40	111.60	112.60	1000.00	0.00	114.50		
12	34.90	0.00	104.40	103.20	28.90	0.00	106.80	105.80	199.10	23.90	111.80	112.80	1000.00	0.00	114.90	
13	40.20	0.00	104.00	103.20	36.70	0.00	108.60	106.40	198.70	23.70	111.90	112.60	1000.00	0.00	115.20	
14	52.60	0.00	-999.00	103.30	54.40	0.00	107.70	106.20	198.70	24.00	116.20	112.70	0.00	115.50		
15	54.60	0.00	-999.00	103.30	52.00	0.00	113.40	106.00	249.10	73.20	114.60	113.30	0.00	115.60		
16	55.80	0.00	-999.00	103.60	59.50	0.00	116.20	106.00	250.60	74.50	117.50	113.70	0.00	116.10		
17	42.30	0.00	-999.00	104.00	58.50	0.00	113.90	106.00	249.90	74.50	118.40	114.10	0.00	116.30		
18	43.40	0.00	-999.00	104.20	44.50	0.00	112.60	105.80	249.80	74.40	118.20	114.60	0.00	116.20		
19	49.10	0.00	-999.00	103.90	51.50	0.00	114.70	105.60	249.40	74.50	119.50	114.50	0.00	116.20		
20	56.10	0.00	-999.00	103.40	56.00	0.00	114.10	105.80	250.50	74.40	118.80	114.50	0.00	116.10		
21	62.90	0.00	-999.00	103.00	54.70	0.00	113.00	105.20	226.00	50.70	118.10	114.70	0.00	115.80		
22	63.40	0.00	-999.00	102.60	55.70	0.00	108.50	105.10	224.30	49.90	116.00	115.00	0.00	115.50		
23	30.10	0.00	-999.00	102.30	50.60	0.00	111.00	105.10	222.80	48.50	112.50	116.90	0.00	115.10		
24	34.60	0.00	-999.00	102.40	35.90	0.00	110.60	105.00	171.20	0.10	112.20	116.10	0.00	114.80		

28 JUN 2003

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

28 JUN 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	LITTLE GOOSE	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.		
1	2.20	0.00	102.20	102.60	101.40	101.00	24.90	0.00	104.30	102.00	27.60	0.00	99.60	99.80	
2	2.20	0.00	102.20	102.40	101.20	100.60	24.90	0.00	104.10	101.80	29.00	0.00	99.80	99.80	
3	2.20	0.00	102.30	102.40	100.90	100.40	30.80	0.00	104.50	101.80	29.40	0.00	99.70	99.70	
4	2.20	0.00	102.30	102.30	100.80	100.10	30.90	0.00	105.20	101.70	28.00	0.00	100.00	100.00	
5	2.20	0.00	102.30	102.00	100.60	99.80	37.30	0.00	106.30	102.80	28.00	0.00	100.30	100.00	
6	2.40	0.00	103.00	101.90	100.40	99.60	44.00	0.00	106.30	102.10	28.00	0.00	100.30	99.90	
7	4.20	0.00	102.70	101.80	100.50	99.80	48.30	0.00	105.90	102.00	41.60	0.00	100.60	100.00	
8	4.30	0.00	102.90	101.90	101.00	100.30	48.10	0.00	106.60	101.80	41.00	0.00	101.30	100.10	
9	4.20	0.00	103.20	102.40	101.50	101.10	47.70	0.00	105.70	102.40	41.30	0.00	101.70	100.20	
10	4.30	0.00	103.20	102.90	102.00	101.80	47.80	0.00	105.10	102.30	41.30	0.00	102.30	100.50	
11	4.20	0.00	103.40	103.30	102.50	102.70	48.70	0.00	105.60	102.20	41.30	0.00	102.70	100.70	
12	4.30	0.00	103.60	103.90	102.90	103.50	47.00	0.00	106.20	102.30	41.10	0.00	103.70	100.80	
13	4.20	0.00	103.60	104.30	103.40	104.10	44.50	0.00	107.50	102.50	41.10	0.00	105.10	101.00	
14	4.30	0.00	103.50	104.60	103.90	104.80	43.60	0.00	106.40	102.70	60.40	0.00	104.70	101.60	
15	4.20	0.00	103.90	104.80	104.20	105.00	38.60	0.00	105.70	102.90	60.40	0.00	106.20	101.70	
16	4.30	0.00	104.50	104.90	104.40	105.20	39.40	0.00	106.00	102.70	60.10	0.00	103.50	101.70	
17	4.20	0.00	104.40	104.90	104.50	105.10	38.90	0.00	107.00	102.70	44.80	0.00	107.50	101.80	
18	4.00	0.00	104.00	104.60	104.50	104.90	44.80	0.00	109.20	102.70	41.60	0.00	109.50	101.70	
19	2.20	0.00	103.70	104.40	104.30	104.50	51.60	0.00	111.30	103.00	52.90	0.00	109.90	101.40	
20	2.20	0.00	103.00	103.90	103.80	103.90	54.80	0.00	112.90	103.20	53.10	0.00	109.90	101.50	
21	2.20	0.00	102.60	103.40	103.20	103.00	51.90	0.00	113.50	103.00	53.90	0.00	108.40	101.40	
22	2.20	0.00	102.50	103.10	102.60	102.20	51.00	0.00	109.90	103.00	56.50	0.00	110.20	101.90	
23	2.20	0.00	102.30	102.70	102.00	101.60	35.90	0.00	107.20	103.10	38.20	0.00	111.90	101.50	
24	2.20	0.00	102.50	102.50	101.70	101.30	35.10	0.00	105.70	103.00	35.10	0.00	113.40	101.40	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB	PASCO	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	GAS %SAT	
1	35.00	0.00	-999.00	102.10	29.10	0.00	110.00	104.90	0.00	112.10	116.30	0.00			114.50
2	31.40	0.00	-999.00	101.80	28.10	0.00	109.70	104.60	0.00	112.10	116.00	0.00			114.20
3	28.70	0.00	-999.00	101.50	28.10	0.00	109.20	104.50	0.00	112.30	115.90	0.00			114.00
4	27.30	0.00	-999.00	101.50	15.90	0.00	105.80	104.30	0.00	112.30	115.90	0.00			113.70
5	26.60	0.00	-999.00	101.30	14.80	1.10	104.60	104.20	0.00	112.00	115.20	0.00			113.50
6	26.70	0.00	-999.00	101.10	34.80	23.60	104.40	104.20	0.00	110.90	115.00	0.00			113.40
7	30.90	0.00	-999.00	101.30	29.40	20.30	104.40	106.30	0.00	111.30	115.00	0.00			113.20
8	33.50	0.00	-999.00	102.10	31.00	20.20	104.40	112.40	0.00	111.50	115.00	0.00			113.10
9	45.70	0.00	-999.00	102.10	29.80	20.20	104.10	113.00	0.00	112.30	115.00	0.00			113.40
10	44.80	0.00	-999.00	102.20	33.00	20.30	104.70	113.30	0.00	114.90	114.70	0.00			113.60
11	48.00	0.00	-999.00	102.40	30.60	20.60	105.70	113.70	0.00	112.90	114.60	0.00			114.10
12	48.60	0.00	-999.00	102.60	50.50	38.70	106.00	113.90	0.00	114.30	114.30	0.00			114.20
13	50.80	0.00	-999.00	102.80	65.70	44.90	107.30	116.10	0.00	118.60	114.10	0.00			114.40
14	56.70	0.00	-999.00	103.00	66.50	44.90	105.70	116.90	0.00	119.70	114.40	0.00			114.60
15	58.00	0.00	-999.00	103.60	65.50	44.80	105.60	116.90	0.00	120.50	114.30	0.00			115.00
16	61.10	0.00	-999.00	103.80	72.00	45.60	106.10	116.80	0.00	122.20	114.50	0.00			115.20
17	62.80	0.00	-999.00	103.80	70.40	44.70	106.10	117.30	0.00	121.90	114.40	0.00			115.40
18	54.30	0.00	-999.00	104.00	69.80	44.70	105.50	116.90	0.00	120.60	114.30	0.00			115.50
19	54.90	0.00	-999.00	104.00	56.90	44.60	105.60	116.80	0.00	118.30	117.50	0.00			115.70
20	54.00	0.00	-999.00	103.80	55.70	44.60	107.40	116.70	0.00	116.00	117.80	0.00			115.50
21	54.50	0.00	-999.00	103.40	54.10	44.60	105.80	116.50	0.00	113.80	118.60	0.00			115.20
22	57.80	0.00	-999.00	103.20	54.00	45.40	105.40	116.60	0.00	180.00	7.90	114.30	118.10	0.00	115.00
23	58.20	0.00	-999.00	103.20	45.20	44.70	105.60	116.20	0.00	203.30	30.40	114.90	117.50	0.00	114.60
24	45.70	0.00	-999.00	102.80	45.30	44.70	105.60	116.40	0.00	204.00	30.50	114.40	118.60	0.00	114.20

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**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

29 JUN 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	LOWER GRANITE	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.		
1	2.20	0.00	102.50	102.40	101.40	100.90	25.20	0.00	106.70	102.70	24.40	0.00	113.50	101.80	
2	2.20	0.00	102.40	102.20	101.30	100.50	24.70	0.00	107.00	1.50	24.30	0.00	113.20	101.40	
3	2.20	0.00	102.40	102.10	101.00	100.20	25.00	0.00	106.60	102.20	25.80	0.00	112.50	101.40	
4	2.20	0.00	102.20	102.00	100.90	99.90	33.70	0.00	108.20	102.50	25.80	0.00	112.50	101.30	
5	2.20	0.00	102.40	101.80	100.60	99.70	34.70	0.00	112.80	102.50	25.70	0.00	112.50	101.30	
6	2.20	0.00	102.70	101.90	100.50	99.60	34.10	0.00	113.60	102.90	25.80	0.00	111.70	101.30	
7	1.60	0.00	104.00	101.90	100.70	100.00	34.80	0.00	113.20	103.10	25.70	0.00	111.50	101.70	
8	1.90	0.00	106.30	102.20	100.90	100.60	40.70	0.00	111.80	103.80	30.40	0.00	111.90	102.10	
9	4.20	0.00	104.10	102.50	101.30	101.40	41.70	0.00	111.60	103.70	41.50	0.00	111.60	102.60	
10	4.30	0.00	104.10	103.00	102.70	102.20	44.90	0.00	111.50	104.10	45.40	0.00	111.70	103.00	
11	4.20	0.00	104.30	103.70	103.30	103.00	44.90	0.00	111.60	104.30	45.70	0.00	111.90	103.60	
12	4.30	0.00	104.60	104.20	103.70	103.70	43.70	0.00	112.30	104.60	45.40	0.00	111.70	104.00	
13	4.20	0.00	104.60	104.60	104.00	104.50	43.80	0.00	113.90	105.20	46.50	0.00	111.40	104.80	
14	4.30	0.00	104.80	105.00	104.60	105.20	43.70	0.00	114.20	105.20	45.70	0.00	110.70	104.70	
15	4.20	0.00	104.80	105.30	104.90	105.50	30.70	0.00	114.80	105.80	30.80	0.00	110.20	104.90	
16	4.10	0.00	105.30	105.40	104.90	105.40	41.40	0.00	115.70	105.90	43.00	0.00	109.90	105.10	
17	3.30	0.00	4.40	105.20	104.90	105.40	41.00	0.00	114.30	105.40	42.30	0.00	110.90	104.50	
18	3.40	0.00	107.00	104.80	104.70	104.20	41.50	0.00	113.00	105.00	44.00	0.00	108.40	104.60	
19	3.40	0.00	106.90	104.10	104.60	103.70	41.10	0.00	112.60	104.80	42.50	0.00	107.70	104.20	
20	3.30	0.00	-999.00	103.60	104.00	102.90	46.00	0.00	110.70	104.70	44.10	0.00	108.50	104.10	
21	3.40	0.00	-999.00	103.30	103.90	102.30	47.80	0.00	110.40	104.60	42.60	0.00	109.00	103.80	
22	3.30	0.00	-999.00	103.00	103.40	101.90	48.50	0.00	110.20	104.50	44.00	0.00	109.60	103.70	
23	3.30	0.00	-999.00	102.70	103.10	101.40	32.10	0.00	109.50	104.40	42.60	0.00	108.30	103.20	
24	3.30	0.00	-999.00	102.30	102.70	100.90	30.00	0.00	109.30	104.20	29.10	0.00	106.90	103.00	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	MCNARY	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	MCNARY	PASCO
1	31.10	0.00	-999.00	102.80	42.40	41.90	107.00	116.70	30.50	113.80	118.20	0.00	113.70		
2	26.40	0.00	-999.00	102.70	29.20	28.70	108.50	116.40	30.50	113.90	118.00	0.00	113.30		
3	26.20	0.00	-999.00	102.50	20.70	20.10	107.90	116.40	30.50	113.60	117.70	0.00	-999.00		
4	26.30	0.00	-999.00	102.40	20.70	20.10	107.60	115.10	30.30	113.50	116.50	0.00	-999.00		
5	26.80	0.00	-999.00	102.30	22.50	20.50	106.90	113.90	0.10	115.50	116.30	0.00	-999.00		
6	26.40	0.00	-999.00	102.10	24.40	15.30	106.50	113.10	0.00	115.40	116.20	0.00	113.00		
7	26.50	0.00	-999.00	102.30	24.30	15.00	106.40	113.30	0.00	116.40	115.90	0.00	113.20		
8	26.80	0.00	-999.00	102.60	24.30	15.00	106.60	113.30	0.00	115.70	115.70	0.00	113.30		
9	34.70	0.00	-999.00	102.80	28.00	15.50	106.40	112.90	0.00	116.20	115.40	0.00	113.50		
10	40.10	0.00	-999.00	103.30	37.90	25.40	106.60	113.00	0.00	116.70	115.30	0.00	113.90		
11	46.80	0.00	-999.00	104.10	45.30	34.10	108.10	114.40	0.00	117.30	115.10	0.00	114.40		
12	46.30	0.00	-999.00	104.50	49.00	35.00	107.40	102.30	0.00	117.20	115.00	0.00	114.80		
13	46.10	0.00	-999.00	104.80	49.10	35.10	107.80	115.80	0.00	117.70	115.00	0.00	114.90		
14	46.00	0.00	110.10	104.80	47.60	35.10	107.50	115.60	0.00	114.80	114.70	0.00	115.20		
15	47.40	0.00	110.50	104.80	49.00	35.00	106.60	115.40	0.00	113.70	114.50	0.00	115.30		
16	46.90	0.00	110.60	104.30	49.80	35.60	106.30	115.50	0.00	114.60	115.40	0.00	115.10		
17	47.90	0.00	110.20	104.20	46.10	35.00	107.00	115.60	0.00	115.40	115.90	0.00	115.30		
18	46.20	0.00	112.70	104.60	46.10	35.00	106.40	115.60	0.00	117.90	115.30	0.00	115.40		
19	48.20	0.00	108.60	105.10	47.30	35.00	106.70	115.50	0.00	117.80	115.00	0.00	115.40		
20	56.60	0.00	106.10	104.50	47.50	35.00	106.90	115.50	0.00	117.10	114.70	0.00	115.50		
21	56.30	0.00	103.70	103.90	46.10	35.10	106.60	115.00	0.00	116.30	114.30	0.00	115.30		
22	55.80	0.00	103.30	103.30	46.40	35.70	106.10	115.00	0.00	115.00	113.90	0.00	115.10		
23	44.90	0.00	102.30	103.00	45.30	44.70	108.40	114.80	0.00	114.30	113.60	0.00	114.60		
24	34.90	0.00	102.10	102.70	45.30	44.70	106.60	116.00	0.00	112.70	113.20	0.00	114.20		

30 JUN 2003

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

30 JUN 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.			
1	3.40	0.00	-999.00	102.10	102.50	100.60	25.70	0.00	109.30	103.90	25.50	0.00	108.30	102.80	
2	3.30	0.00	1000.00	101.90	102.30	100.20	17.70	0.00	108.30	103.80	19.10	0.00	107.00	102.50	
3	3.40	0.00	1000.00	101.70	101.80	99.90	37.80	0.00	108.40	104.00	19.20	0.00	106.30	102.30	
4	3.30	0.00	1000.00	101.50	101.70	99.60	40.50	0.00	107.50	103.70	35.20	0.00	105.40	102.80	
5	3.40	0.00	1000.00	101.40	101.50	99.30	41.80	0.00	107.10	103.50	40.90	0.00	105.40	102.60	
6	3.30	0.00	1000.00	101.30	101.40	99.10	43.40	0.00	106.60	103.40	41.20	0.00	105.60	101.90	
7	4.30	0.00	1000.00	101.40	101.30	99.30	42.40	0.00	106.10	103.10	40.90	0.00	104.70	101.80	
8	4.20	0.00	1000.00	101.40	101.60	99.90	41.00	0.00	105.70	102.90	40.90	0.00	102.90	101.90	
9	4.30	0.00	1000.00	101.80	101.80	100.70	40.20	0.00	105.40	102.70	44.50	0.00	101.90	101.70	
10	4.20	0.00	-999.00	102.20	102.00	101.40	40.10	0.00	105.40	102.60	44.50	0.00	102.10	101.80	
11	4.30	0.00	-999.00	102.80	102.40	102.20	39.90	0.00	106.20	102.70	44.50	0.00	102.40	102.00	
12	4.20	0.00	-999.00	103.30	102.80	102.80	38.20	0.00	105.60	102.60	44.50	0.00	101.90	101.80	
13	4.30	0.00	-999.00	103.70	103.30	103.40	39.20	0.00	104.40	102.70	36.60	0.00	101.60	102.10	
14	4.20	0.00	104.30	103.90	103.60	103.90	40.10	0.00	104.20	102.90	36.80	0.00	101.40	102.00	
15	4.30	0.00	1000.00	104.00	104.00	104.30	38.40	0.00	104.50	102.80	36.80	0.00	101.60	102.10	
16	4.30	0.00	104.30	104.10	104.10	104.50	38.40	0.00	104.40	102.60	36.80	0.00	101.50	102.00	
17	4.20	0.00	104.20	103.90	104.10	104.50	39.00	0.00	105.10	102.60	39.90	0.00	101.60	101.90	
18	4.00	0.00	103.90	103.70	103.90	104.40	38.20	0.00	105.60	102.50	36.30	0.00	101.70	102.00	
19	2.20	0.00	103.50	103.30	103.70	103.90	38.40	0.00	105.90	102.30	35.60	0.00	101.30	101.70	
20	2.20	0.00	103.30	103.00	103.20	103.20	47.30	0.00	106.30	102.40	53.20	0.00	101.50	101.80	
21	2.20	0.00	103.00	102.60	102.30	102.30	55.10	0.00	105.20	103.10	55.20	0.00	102.00	101.70	
22	2.20	0.00	103.00	102.10	101.70	101.60	53.90	0.00	104.90	102.60	57.30	0.00	102.70	101.60	
23	2.20	0.00	102.90	101.90	101.40	101.00	35.30	0.00	104.50	102.50	34.50	0.00	102.80	101.50	
24	2.20	0.00	102.80	101.90	101.10	100.50	30.70	0.00	104.40	102.20	17.70	0.00	102.80	101.60	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	
1	25.80	0.00	102.90	102.20	44.60	44.10	105.80	116.40	0.00	172.00	0.00	113.10	113.20	0.00	113.60
2	17.00	0.00	103.70	101.90	30.60	30.00	105.50	116.40	0.00	174.60	0.00	112.20	112.90	0.00	112.60
3	18.60	0.00	101.60	101.60	27.50	26.90	105.60	115.50	0.00	175.00	0.00	111.20	112.60	0.00	111.70
4	20.50	0.00	101.50	101.10	20.10	18.10	105.20	114.30	0.00	175.20	0.00	111.50	112.40	0.00	110.70
5	20.70	0.00	101.00	100.80	19.30	18.00	105.80	113.70	0.00	175.50	0.00	111.20	112.10	0.00	109.70
6	39.30	0.00	100.20	100.80	18.70	1.10	104.60	112.10	0.00	175.40	0.00	110.60	112.00	0.00	109.10
7	50.80	0.00	101.30	100.50	18.30	0.00	103.60	111.50	0.00	175.40	0.00	110.60	111.50	0.00	108.80
8	51.70	0.00	101.10	100.90	32.00	0.00	104.20	109.10	0.00	175.60	0.00	110.50	111.30	0.00	108.80
9	45.30	0.00	100.90	100.60	44.80	0.00	104.40	106.30	0.00	175.90	0.00	110.30	111.40	0.00	108.80
10	44.90	0.00	100.80	100.70	46.30	0.00	104.20	104.70	0.00	175.50	0.00	110.60	111.30	0.00	109.40
11	45.00	0.00	100.80	100.90	44.70	0.00	104.50	104.50	0.00	175.40	0.00	110.50	111.10	0.00	109.60
12	44.90	0.00	100.90	101.00	44.80	0.00	105.00	104.50	0.00	168.80	0.00	110.50	111.20	110.60	110.00
13	45.60	0.00	101.10	101.10	46.60	0.00	105.60	104.70	0.00	167.40	0.00	111.10	110.90	110.80	110.40
14	44.80	0.00	101.10	101.20	45.30	0.00	105.70	105.30	0.00	167.20	0.00	112.00	111.70	110.80	110.90
15	44.80	0.00	101.30	101.50	45.90	0.00	105.60	105.10	0.00	167.20	0.00	112.10	111.70	110.80	111.10
16	44.70	0.00	101.30	101.70	46.30	0.00	105.20	104.90	0.00	168.30	0.00	112.00	111.60	110.90	112.50
17	41.10	0.00	102.20	101.90	44.90	0.00	105.60	104.90	0.00	172.10	0.00	111.90	111.70	110.80	111.10
18	41.60	0.00	102.50	101.90	44.60	0.00	106.00	105.20	0.00	175.00	0.00	112.00	111.60	110.80	111.30
19	40.40	0.00	102.70	101.80	46.00	0.00	105.80	104.80	0.00	173.70	0.00	112.10	111.60	110.80	111.40
20	46.90	0.00	102.70	101.70	46.00	0.00	105.90	105.10	0.00	173.50	0.00	111.90	111.60	110.70	111.60
21	58.20	0.00	102.40	101.30	48.60	0.00	105.80	105.10	0.00	174.00	0.00	111.60	111.20	110.70	111.70
22	60.10	0.00	102.40	101.10	60.60	0.00	105.90	104.50	0.00	173.10	0.00	111.40	111.10	110.50	111.80
23	45.00	0.00	102.70	101.20	45.90	0.00	105.70	104.40	0.00	172.60	0.00	111.10	111.10	110.30	111.90
24	31.80	0.00	102.60	100.90	29.60	0.00	105.20	104.40	0.00	171.60	0.00	111.00	111.20	110.30	111.80

01 JUL 2003

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

01 JUL 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	LOWER GRANITE	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.		
1	2.20	0.00	102.80	101.80	100.80	100.10	21.50	0.00	104.30	102.00	17.50	0.00	102.90	101.50	
2	2.20	0.00	102.70	101.70	100.50	99.70	21.70	0.00	103.60	101.90	19.20	0.00	103.00	101.50	
3	2.20	0.00	102.70	101.60	100.40	99.30	21.10	0.00	103.70	101.70	19.20	0.00	103.20	101.50	
4	2.20	0.00	102.60	101.40	100.20	99.00	27.10	0.00	103.90	101.60	17.60	0.00	103.20	101.50	
5	2.20	0.00	102.50	101.40	100.00	98.80	33.50	0.00	103.40	101.50	20.80	0.00	103.00	101.80	
6	2.30	0.00	102.50	101.20	99.90	98.60	34.90	0.00	103.00	101.30	26.10	0.00	103.10	103.50	
7	4.30	0.00	103.20	101.40	100.10	98.90	44.80	0.00	103.70	101.20	40.10	0.00	103.20	102.50	
8	4.20	0.00	103.00	101.60	100.50	99.60	57.00	0.00	103.50	101.70	44.20	0.00	103.20	102.40	
9	4.30	0.00	103.20	101.90	101.20	100.20	55.00	0.00	103.50	101.60	44.80	0.00	104.00	102.40	
10	4.20	0.00	103.40	102.40	101.70	101.20	38.40	0.00	103.70	101.60	44.50	0.00	103.70	102.50	
11	4.30	0.00	103.50	102.90	102.30	102.10	38.80	0.00	104.00	101.80	43.90	0.00	103.40	102.50	
12	4.20	0.00	103.90	103.30	102.80	102.80	38.10	0.00	104.20	102.00	49.30	0.00	103.20	102.70	
13	4.30	0.00	104.10	103.80	103.30	103.50	48.50	0.00	104.80	102.30	50.70	0.00	103.70	102.90	
14	4.20	0.00	104.10	104.10	103.70	104.00	51.60	0.00	105.30	102.20	49.30	0.00	103.70	102.60	
15	4.30	0.00	103.80	104.30	104.00	104.00	41.10	0.00	105.20	102.50	49.30	0.00	103.00	102.80	
16	4.20	0.00	103.70	104.30	104.10	104.10	39.60	0.00	104.20	102.20	48.30	0.00	103.70	102.60	
17	4.30	0.00	103.60	104.20	104.00	104.00	41.60	0.00	104.00	102.10	49.10	0.00	103.30	102.80	
18	3.90	0.00	103.30	103.90	103.90	103.70	38.30	0.00	103.60	102.10	38.20	0.00	104.00	102.80	
19	2.20	0.00	103.00	103.30	103.30	103.10	39.20	0.00	104.10	102.10	37.50	0.00	104.00	102.50	
20	2.20	0.00	102.80	102.80	102.80	102.40	45.00	0.00	105.30	102.10	52.80	0.00	104.00	102.50	
21	2.20	0.00	102.60	102.40	102.20	101.80	45.20	0.00	104.60	101.90	57.30	0.00	102.80	102.30	
22	2.20	0.00	102.40	101.80	101.50	101.20	45.00	0.00	104.40	101.70	56.00	0.00	102.70	102.20	
23	3.00	0.00	102.40	101.50	101.20	100.70	40.90	0.00	104.20	101.70	50.70	0.00	102.30	102.00	
24	5.30	0.00	104.10	101.40	101.10	100.30	30.90	0.00	103.30	101.90	38.30	0.00	102.20	101.70	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB	WA TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB	GAS %SAT	
1	19.80	0.00	102.30	101.00	0.00	104.40	104.20	172.50	0.00	110.80	111.00	110.20	0.00	111.60	
2	18.00	0.00	102.30	100.90	0.00	103.40	104.00	173.00	0.00	110.50	110.90	110.10	0.00	111.40	
3	17.20	0.00	102.40	100.60	0.00	102.70	104.00	173.70	0.00	110.30	110.70	110.00	0.00	111.10	
4	15.70	0.00	102.40	101.00	0.00	101.50	103.90	175.10	0.00	110.30	110.70	110.00	0.00	110.90	
5	15.60	0.00	102.30	100.30	0.00	102.00	103.70	175.50	0.00	110.20	110.50	110.00	0.00	110.90	
6	16.10	0.00	102.20	100.10	0.00	102.90	104.10	175.50	0.00	110.00	110.50	109.90	0.00	110.80	
7	31.00	0.00	102.10	100.10	0.00	103.00	104.20	175.60	0.00	109.90	110.00	109.90	0.00	110.70	
8	39.40	0.00	101.80	100.50	0.00	103.10	104.50	176.00	0.00	110.10	110.30	109.90	0.00	110.70	
9	48.80	0.00	102.10	100.70	0.00	103.60	105.00	175.10	0.00	110.20	110.70	110.10	0.00	111.00	
10	49.90	0.00	101.80	100.90	0.00	104.50	105.20	137.80	0.00	111.10	110.60	110.10	0.00	111.70	
11	49.80	0.00	102.70	101.50	0.00	105.90	104.60	135.80	0.00	111.90	110.60	110.40	0.00	112.20	
12	49.90	0.00	102.80	101.80	0.00	105.20	103.70	140.20	0.00	112.40	110.40	110.40	0.00	112.90	
13	55.00	0.00	102.70	101.70	0.00	104.40	103.60	174.70	0.00	112.60	110.70	110.60	0.00	113.70	
14	54.10	0.00	102.60	101.50	0.00	105.20	103.90	176.00	0.00	113.10	111.00	110.80	0.00	114.70	
15	54.10	0.00	102.70	101.90	0.00	104.90	103.30	175.70	0.00	113.80	111.20	110.70	0.00	115.20	
16	54.30	0.00	103.90	102.00	0.00	104.80	103.40	174.80	0.50	114.10	111.00	110.70	0.00	115.40	
17	55.30	0.00	104.40	102.30	0.00	105.30	103.40	175.10	0.70	113.40	111.30	110.50	0.00	115.40	
18	53.30	0.00	104.00	102.00	0.00	105.00	103.20	174.50	0.60	111.20	111.00	110.30	0.00	115.30	
19	41.10	0.00	102.40	101.80	0.00	104.40	103.00	174.10	0.00	111.10	110.70	110.00	0.00	114.80	
20	43.80	0.00	102.40	101.90	0.00	104.90	103.50	175.70	0.00	111.00	110.60	110.00	0.00	113.40	
21	62.00	0.00	102.10	102.50	0.00	103.80	103.10	175.40	0.00	111.80	110.30	109.80	0.00	112.10	
22	63.80	0.00	102.20	101.50	0.00	103.80	102.40	175.50	0.00	111.90	110.20	109.40	0.00	110.90	
23	62.00	0.00	102.90	101.30	0.00	103.50	102.40	175.50	0.00	111.50	109.80	109.10	0.00	110.20	
24	50.30	0.00	102.60	102.90	0.00	104.40	101.90	174.00	0.00	110.90	109.90	108.80	0.00	109.70	

02 JUL 2003

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

02 JUL 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	LOWER GRANITE	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.		
1	5.20	0.00	102.80	101.30	101.40	100.00	27.50	0.00	103.00	101.60	26.10	0.00	101.90	101.70	
2	5.30	0.00	102.60	101.30	101.40	99.60	33.90	0.00	103.70	101.30	26.00	0.00	102.10	101.70	
3	5.20	0.00	102.70	101.10	101.20	99.30	34.20	0.00	104.10	101.20	26.00	0.00	102.30	101.60	
4	5.30	0.00	102.70	101.10	101.00	99.00	34.40	0.00	104.10	101.30	17.80	0.00	102.00	101.50	
5	5.20	0.00	102.60	100.90	100.80	98.80	27.80	0.00	103.90	101.20	17.80	0.00	102.00	101.40	
6	5.30	0.00	102.30	100.80	100.60	98.70	33.70	0.00	103.30	101.20	17.70	0.00	101.70	101.30	
7	5.20	0.00	102.50	100.90	100.70	99.00	34.30	0.00	102.90	101.20	18.40	0.00	101.50	101.50	
8	5.30	0.00	102.70	101.20	101.00	99.40	34.30	0.00	102.70	101.10	29.60	0.00	102.00	101.60	
9	5.20	0.00	103.00	101.40	101.30	100.10	35.10	0.00	102.50	101.20	29.60	0.00	102.10	101.70	
10	5.30	0.00	103.10	101.90	101.70	100.60	40.40	0.00	102.80	101.40	42.10	0.00	102.50	102.10	
11	5.20	0.00	103.30	102.50	102.20	101.40	40.50	0.00	103.10	101.40	42.10	0.00	102.30	102.10	
12	5.30	0.00	103.50	103.10	102.60	102.40	40.30	0.00	103.60	101.50	46.00	0.00	0.00	102.10	
13	5.20	0.00	103.40	103.60	103.20	103.20	41.10	0.00	103.80	101.70	45.40	0.00	102.60	102.10	
14	5.30	0.00	103.30	103.90	103.50	103.90	40.10	0.00	106.00	101.90	45.70	0.00	102.30	102.30	
15	5.20	0.00	102.80	104.20	103.70	104.30	40.00	0.00	105.00	0.00	45.40	0.00	102.60	102.20	
16	5.30	0.00	102.60	104.40	103.70	104.50	38.60	0.00	104.60	102.00	45.70	0.00	102.90	102.20	
17	5.20	0.00	102.80	104.20	103.90	104.50	39.00	0.00	103.70	101.90	47.50	0.00	103.00	102.30	
18	5.30	0.00	102.60	103.90	103.90	104.30	38.40	0.00	104.50	101.80	40.90	0.00	103.00	102.50	
19	5.20	0.00	101.60	103.40	103.60	103.70	38.40	0.00	104.80	101.90	42.40	0.00	102.70	102.50	
20	5.30	0.00	101.40	103.00	103.00	102.90	38.30	0.00	104.10	102.00	41.10	0.00	102.60	102.20	
21	5.20	0.00	101.40	102.50	102.60	102.10	38.30	0.00	103.80	101.90	41.30	0.00	102.80	102.10	
22	5.30	0.00	101.50	102.10	102.10	101.40	38.90	0.00	103.70	101.80	41.20	0.00	102.70	101.90	
23	5.30	0.00	101.50	101.80	101.80	100.80	30.90	0.00	103.70	102.20	40.90	0.00	102.90	101.80	
24	5.20	0.00	101.60	101.60	101.50	100.40	29.90	0.00	103.30	101.90	32.60	0.00	102.70	101.80	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB	MCNARY	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	PASCO	
1	34.70	0.00	102.20	101.20	0.00	102.80	101.90	173.50	0.00	110.40	109.60	108.80	0.00	109.40	
2	21.50	0.00	102.10	101.00	20.40	0.00	102.00	101.80	173.60	0.00	110.00	109.40	108.60	0.00	109.50
3	20.70	0.00	101.90	100.80	20.00	0.00	101.70	101.70	173.90	0.00	109.70	109.10	108.50	0.00	109.50
4	13.90	0.00	101.80	100.60	16.70	0.00	101.00	101.60	174.20	0.00	109.40	109.10	108.30	0.00	109.90
5	13.80	0.00	101.80	100.30	13.50	0.00	101.60	101.60	174.60	0.00	109.10	108.60	108.10	0.00	110.00
6	13.90	0.00	101.80	100.20	18.00	8.00	101.70	101.80	174.60	0.00	108.80	108.50	107.90	0.00	110.10
7	15.40	0.00	101.80	100.30	13.60	3.90	101.90	102.30	174.70	0.00	108.70	108.60	107.90	0.00	110.20
8	16.00	0.00	101.90	100.50	13.60	3.90	101.40	101.90	175.10	0.00	108.80	108.50	107.80	0.00	110.40
9	21.80	0.00	101.70	100.90	13.80	3.90	101.50	105.50	175.10	0.00	108.70	108.40	107.90	0.00	110.70
10	40.80	0.00	102.00	101.40	15.10	3.90	101.80	107.10	175.00	0.00	109.00	108.60	108.20	0.00	111.00
11	42.00	0.00	102.20	101.50	27.20	17.50	102.20	105.70	175.40	0.00	110.10	108.50	108.30	0.00	111.70
12	54.20	0.00	102.10	101.80	31.50	20.30	102.30	106.40	174.60	0.00	110.40	108.40	108.30	0.00	112.40
13	57.80	0.00	102.00	102.60	44.90	33.60	102.50	112.20	174.60	0.00	111.80	108.50	108.10	0.00	113.00
14	55.70	0.00	103.60	102.70	58.50	44.90	102.70	114.20	174.00	0.00	111.80	107.80	108.10	0.00	113.60
15	54.70	0.00	102.90	102.50	61.40	45.70	102.90	115.40	173.90	0.00	112.20	107.90	108.00	0.00	113.90
16	51.00	0.00	102.90	103.60	58.80	44.90	102.80	115.70	172.60	0.00	112.50	108.20	107.90	0.00	114.10
17	48.90	0.00	102.40	102.70	46.50	32.60	103.00	115.70	172.20	0.00	113.10	108.10	108.00	0.00	114.20
18	40.20	0.00	102.20	102.80	58.60	44.70	104.30	114.00	171.50	0.00	113.50	108.40	107.90	0.00	114.30
19	40.30	0.00	102.20	102.70	52.00	40.30	103.50	115.00	172.90	0.00	113.50	108.70	108.10	0.00	114.20
20	39.60	0.00	102.30	102.40	51.60	40.10	103.00	115.20	172.80	0.00	111.10	109.00	107.90	0.00	114.00
21	44.90	0.00	102.20	102.90	49.60	40.00	104.30	115.10	173.50	0.00	109.60	109.00	107.80	0.00	113.60
22	44.20	0.00	102.40	101.90	45.60	36.00	103.20	114.80	172.60	0.00	112.60	108.10	107.60	0.00	113.30
23	44.20	0.00	102.20	101.50	38.00	35.10	103.00	114.10	148.00	0.00	110.90	109.20	107.50	0.00	113.00
24	37.40	0.00	102.00	101.50	35.70	35.10	102.90	113.70	111.50	0.00	111.10	109.90	107.40	0.00	112.90

03 JUL 2003

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

03 JUL 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.			
1	5.30	0.00	101.60	101.50	101.40	100.00	30.00	0.00	103.60	101.70	29.00	0.00	102.70	102.30	
2	5.20	0.00	101.60	101.40	101.20	99.60	30.30	0.00	103.70	101.50	29.30	0.00	102.30	102.00	
3	5.30	0.00	101.50	101.30	101.10	99.30	25.30	0.00	103.00	101.40	25.90	0.00	102.30	101.90	
4	5.20	0.00	101.40	101.30	100.90	99.20	36.40	0.00	104.00	101.20	24.50	0.00	102.40	101.70	
5	5.30	0.00	101.40	101.10	100.70	99.00	38.80	0.00	103.10	101.50	25.90	0.00	102.20	101.80	
6	5.20	0.00	101.30	101.10	100.70	98.90	37.80	0.00	104.80	101.20	29.40	0.00	102.40	101.70	
7	5.30	0.00	101.60	101.10	100.80	99.00	43.90	0.00	104.00	101.50	33.90	0.00	102.40	101.80	
8	5.20	0.00	101.60	101.30	101.10	99.50	41.10	0.00	103.80	101.50	33.80	0.00	102.20	101.90	
9	5.30	0.00	101.70	101.70	101.40	100.10	40.70	0.00	103.00	101.60	40.80	0.00	102.80	102.60	
10	5.30	0.00	101.80	102.00	101.90	100.80	41.00	0.00	103.10	101.30	41.10	0.00	102.30	102.50	
11	5.20	0.00	102.00	102.60	102.30	101.60	41.50	0.00	102.70	101.30	41.30	0.00	102.20	102.50	
12	5.30	0.00	102.10	103.20	102.70	102.40	38.30	0.00	103.20	101.20	41.20	0.00	102.30	102.50	
13	5.20	0.00	102.20	103.80	103.20	103.30	38.30	0.00	103.10	101.30	37.00	0.00	102.30	102.70	
14	5.30	0.00	102.40	104.10	103.70	104.10	38.20	0.00	103.70	101.40	34.60	0.00	102.40	102.80	
15	5.20	0.00	102.40	104.40	104.10	104.50	35.40	0.00	105.10	101.70	35.40	0.00	102.30	102.70	
16	5.30	0.00	102.20	104.40	104.30	104.80	34.90	0.00	104.90	101.70	35.00	0.00	102.50	102.60	
17	5.20	0.00	102.10	104.30	104.30	104.80	34.30	0.00	103.40	101.60	35.20	0.00	102.20	102.40	
18	5.30	0.00	102.20	104.00	104.20	104.60	34.30	0.00	103.50	101.40	35.10	0.00	102.40	102.30	
19	5.20	0.00	101.90	103.60	103.80	104.20	36.20	0.00	102.80	101.70	35.00	0.00	102.30	102.20	
20	5.30	0.00	101.60	103.10	103.20	103.50	41.80	0.00	102.90	101.40	55.10	0.00	102.10	102.50	
21	5.30	0.00	101.40	102.70	102.60	102.60	41.60	0.00	102.30	101.00	55.60	0.00	101.90	101.80	
22	4.70	0.00	101.10	102.20	102.00	101.70	41.10	0.00	102.40	100.80	40.60	0.00	102.00	101.70	
23	2.20	0.00	101.30	101.80	101.60	101.20	27.90	0.00	102.10	101.50	40.60	0.00	102.30	101.70	
24	2.10	0.00	101.60	101.70	101.20	100.60	25.90	0.00	102.40	100.80	27.70	0.00	101.90	101.50	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT
1	30.50	0.00	102.20	101.30	30.60	29.90	103.90	113.90	0.00	101.20	0.00	110.20	110.50	107.40	112.70
2	29.70	0.00	102.20	101.10	30.50	29.90	104.30	114.10	0.00	97.70	0.00	108.00	110.40	107.30	112.40
3	23.10	0.00	102.90	100.90	29.10	28.50	104.20	113.70	0.00	94.80	0.00	108.00	110.10	107.20	112.30
4	21.40	0.00	102.80	100.80	25.70	25.10	104.30	113.50	0.00	98.00	0.00	110.10	109.30	107.10	112.10
5	21.60	0.00	102.40	100.70	26.10	25.00	103.40	113.10	0.00	108.70	0.00	109.30	109.50	107.00	112.00
6	31.00	0.00	102.40	101.10	26.00	15.20	102.60	112.30	0.00	105.00	0.00	108.80	108.80	106.90	111.90
7	35.10	0.00	102.40	100.70	25.30	16.00	102.20	112.30	0.00	100.20	0.00	108.70	108.40	106.70	111.50
8	34.90	0.00	102.50	100.80	34.40	25.00	102.30	111.50	0.00	83.60	0.00	107.90	108.70	106.70	111.40
9	35.00	0.00	102.40	101.20	34.40	25.00	102.30	111.70	0.00	82.90	0.00	107.90	107.80	106.80	111.30
10	35.00	0.00	102.20	101.40	34.30	25.00	102.40	112.60	0.00	83.10	0.00	109.50	108.10	107.10	111.60
11	39.90	0.00	102.30	101.50	35.90	25.00	102.00	112.70	0.00	83.20	0.00	110.60	108.10	107.40	111.90
12	40.70	0.00	101.60	101.70	35.80	25.00	102.00	112.90	0.00	82.10	0.00	111.00	108.70	107.60	112.40
13	40.00	0.00	101.70	101.80	35.90	25.00	101.80	113.40	0.00	82.30	0.00	112.00	108.80	108.00	113.00
14	35.00	0.00	101.60	102.00	35.00	25.50	102.20	113.50	0.00	81.80	0.00	112.60	109.00	107.90	113.40
15	34.80	0.00	101.40	102.20	34.40	25.00	102.40	113.50	0.00	81.50	0.00	112.70	108.40	108.00	113.90
16	36.60	0.00	101.30	102.30	34.40	25.00	102.60	113.10	0.00	82.60	0.00	112.80	107.90	108.00	114.40
17	35.50	0.00	101.80	102.70	34.40	25.00	102.80	113.00	0.00	115.60	0.00	113.90	107.70	108.00	114.40
18	36.50	0.00	101.80	102.40	34.50	25.00	102.30	113.20	0.00	149.70	0.00	114.00	108.00	107.80	114.50
19	35.60	0.00	102.00	102.50	35.90	25.00	102.20	113.30	0.00	161.60	0.00	113.00	108.40	107.80	114.50
20	54.90	0.00	103.60	102.20	36.50	25.50	102.20	113.10	0.00	171.50	0.00	111.60	108.60	107.70	114.60
21	56.30	0.00	102.60	101.70	40.60	31.30	102.00	112.90	0.00	172.50	0.00	111.60	108.80	107.90	114.20
22	56.00	0.00	101.60	101.50	55.10	45.10	102.40	113.00	0.00	172.20	0.00	109.50	108.30	107.80	113.70
23	57.80	0.00	101.90	101.50	55.60	55.00	102.10	114.80	0.00	172.70	0.00	113.10	108.20	107.80	112.90
24	56.20	0.00	102.30	101.40	55.80	55.20	101.40	115.40	0.00	154.60	0.00	113.30	108.20	107.60	112.20

04 JUL 2003

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

04 JUL 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.			
1	2.20	0.00	101.30	101.50	100.80	100.10	25.50	0.00	102.40	100.70	26.00	0.00	101.90	101.70	
2	2.20	0.00	101.20	101.30	100.40	99.70	27.20	0.00	102.20	101.10	26.10	0.00	102.00	101.60	
3	2.20	0.00	101.40	101.10	100.00	99.30	25.40	0.00	102.30	100.40	27.40	0.00	102.00	101.40	
4	2.20	0.00	101.30	101.00	99.70	99.00	25.40	0.00	102.00	100.50	27.50	0.00	101.90	101.30	
5	2.20	0.00	101.30	100.90	99.60	98.70	25.90	0.00	102.40	100.30	27.50	0.00	101.70	101.30	
6	2.70	0.00	101.40	100.90	99.50	98.50	26.50	0.00	102.60	100.30	26.00	0.00	101.60	101.20	
7	5.20	0.00	103.10	101.00	99.80	98.60	40.40	0.00	102.80	100.60	27.40	0.00	101.70	101.40	
8	5.30	0.00	101.50	101.10	100.50	98.90	40.70	0.00	102.90	100.40	26.40	0.00	101.70	101.60	
9	5.20	0.00	101.50	101.50	101.60	99.80	41.30	0.00	103.40	100.30	34.30	0.00	101.40	101.70	
10	5.30	0.00	101.80	102.10	101.90	100.70	38.10	0.00	104.10	100.20	35.00	0.00	101.60	101.70	
11	5.20	0.00	102.00	102.80	102.40	101.70	37.80	0.00	103.70	100.10	35.00	0.00	101.30	101.70	
12	5.30	0.00	102.10	103.40	103.00	102.70	37.70	0.00	102.30	100.20	39.00	0.00	101.50	103.60	
13	5.30	0.00	102.20	103.90	103.60	103.80	34.40	0.00	102.00	100.10	36.30	0.00	101.30	102.50	
14	5.20	0.00	102.40	104.40	104.10	104.20	34.70	0.00	101.70	100.00	35.00	0.00	101.90	102.20	
15	5.30	0.00	102.40	104.50	104.20	104.60	34.10	0.00	101.70	100.10	34.80	0.00	101.80	102.10	
16	5.20	0.00	102.40	104.60	104.50	104.60	35.90	0.00	100.90	100.60	35.00	0.00	102.10	101.90	
17	5.30	0.00	102.20	104.50	104.60	104.50	34.50	0.00	102.00	100.20	35.40	0.00	101.30	102.00	
18	5.20	0.00	-999.00	104.10	104.40	104.20	41.30	0.00	101.40	100.20	45.70	0.00	101.30	102.50	
19	5.30	0.00	-999.00	103.70	104.00	103.80	40.90	0.00	100.90	100.20	47.10	0.00	101.30	101.80	
20	5.20	0.00	-999.00	103.30	103.40	103.20	40.70	0.00	101.00	100.00	45.80	0.00	101.30	101.70	
21	5.30	0.00	-999.00	102.80	102.80	102.70	40.80	0.00	101.70	99.80	45.80	0.00	101.40	101.40	
22	5.00	0.00	-999.00	102.30	102.40	101.90	41.60	0.00	102.40	99.90	45.80	0.00	101.50	101.40	
23	2.20	0.00	-999.00	102.00	101.70	101.30	40.50	0.00	103.10	100.10	45.50	0.00	101.70	101.20	
24	2.20	0.00	-999.00	101.70	101.40	100.90	30.60	0.00	102.50	100.20	33.70	0.00	101.80	101.30	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. OR FB	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. WA FB	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB
1	39.60	0.00	102.30	101.30	55.70	55.10	101.20	115.60	0.00	130.30	0.00	112.80	108.10	107.60	: 111.10
2	27.20	0.00	102.30	101.00	55.10	54.50	101.10	115.70	0.00	120.40	0.00	111.90	108.70	107.40	: 110.10
3	26.70	0.00	102.30	100.90	35.40	34.80	100.90	115.60	0.00	107.40	0.00	111.20	108.40	107.40	: 109.70
4	27.00	0.00	102.30	101.00	25.70	25.10	100.90	115.00	0.00	106.30	0.00	111.50	107.80	107.40	: 109.30
5	26.30	0.00	102.30	100.90	23.70	22.20	100.80	114.00	0.00	108.20	0.00	110.80	107.60	107.40	: 109.00
6	26.30	0.00	102.50	100.80	13.00	0.00	100.20	113.20	0.00	107.10	0.00	109.80	107.20	107.30	: 108.60
7	27.80	0.00	102.50	100.70	15.20	0.00	99.30	112.60	0.00	115.80	0.00	109.60	107.60	107.30	: 108.20
8	26.30	0.00	102.50	101.10	13.80	0.00	98.60	112.40	0.00	136.00	0.00	109.70	108.20	107.30	: 107.90
9	26.30	0.00	102.50	101.20	13.70	0.00	99.70	112.00	0.00	137.10	0.00	109.70	108.90	107.30	- 999.00
10	26.80	0.00	102.20	101.60	24.90	0.00	100.20	104.60	0.00	133.90	0.00	108.40	109.50	107.60	- 999.00
11	27.90	0.00	102.20	102.20	25.60	0.00	100.10	102.70	0.00	134.40	0.00	108.00	109.30	107.80	- 999.00
12	30.30	0.00	102.20	102.00	28.20	0.00	100.40	103.10	0.00	134.30	0.00	109.10	109.00	107.90	: 108.50
13	35.00	0.00	101.80	102.20	34.90	0.00	102.80	102.50	0.00	134.60	0.00	112.40	109.30	108.30	: 109.00
14	36.80	0.00	101.60	103.20	33.60	0.00	103.50	102.30	0.00	163.30	0.00	113.70	109.30	108.30	: 109.50
15	39.30	0.00	101.70	102.50	38.30	0.00	105.70	101.80	0.00	165.10	0.00	114.00	109.10	108.10	: 109.70
16	36.90	0.00	102.00	102.40	38.50	0.00	105.90	101.60	0.00	165.70	0.00	114.20	109.50	108.10	: 109.90
17	35.50	0.00	102.80	102.80	37.20	0.00	105.80	101.60	0.00	174.60	0.00	114.50	109.20	108.20	: 109.80
18	45.00	0.00	102.20	102.80	44.10	0.00	105.10	101.60	0.00	174.80	0.00	111.00	109.30	108.10	: 109.70
19	49.80	0.00	103.20	102.70	55.60	0.00	103.80	101.60	0.00	174.60	0.00	111.40	108.60	108.10	: 109.80
20	49.70	0.00	102.40	102.50	55.90	0.00	104.70	101.80	0.00	171.30	0.00	111.50	109.30	108.20	: 109.90
21	49.00	0.00	102.30	102.10	54.90	0.00	104.30	101.10	0.00	169.90	0.00	114.10	109.00	107.70	: 109.60
22	49.00	0.00	102.80	102.00	55.00	0.00	103.20	100.90	0.00	170.50	0.00	113.00	108.90	107.80	: 109.30
23	48.80	0.00	103.30	101.80	55.00	0.00	103.60	100.90	0.00	171.10	0.00	108.40	108.90	107.70	: 108.90
24	48.40	0.00	102.40	101.70	54.60	0.00	103.50	100.80	0.00	170.50	0.00	113.40	108.50	107.70	: 108.60

05 JUL 2003

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

05 JUL 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	LOWER GRANITE	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.		
1	2.20	0.00	-999.00	101.60	101.20	100.50	29.60	0.00	102.50	100.20	33.70	0.00	101.90	101.40	
2	2.20	0.00	-999.00	101.40	100.80	100.10	18.80	0.00	103.00	100.10	27.70	0.00	101.70	101.20	
3	2.10	0.00	-999.00	101.30	100.30	99.70	18.50	0.00	102.50	100.10	19.80	0.00	101.60	101.10	
4	2.20	0.00	-999.00	101.30	99.90	99.40	13.00	0.00	102.10	99.80	13.40	0.00	101.50	101.00	
5	2.20	0.00	-999.00	101.20	99.90	99.10	13.90	0.00	101.30	99.40	13.10	0.00	101.60	100.80	
6	2.50	0.00	-999.00	101.00	99.50	98.80	33.40	0.00	100.60	99.20	13.20	0.00	101.30	100.80	
7	5.20	0.00	-999.00	101.20	100.00	98.80	39.90	0.00	100.50	99.40	32.50	0.00	101.70	101.00	
8	5.30	0.00	-999.00	101.50	100.50	99.20	39.40	0.00	100.50	99.20	35.30	0.00	102.00	101.30	
9	5.30	0.00	-999.00	101.80	102.00	100.00	40.70	0.00	101.20	99.40	42.50	0.00	102.10	101.90	
10	5.20	0.00	-999.00	102.20	102.30	100.80	40.90	0.00	101.20	99.50	42.40	0.00	101.90	101.70	
11	5.30	0.00	-999.00	102.80	102.90	101.80	41.20	0.00	101.10	99.40	43.00	0.00	101.90	101.70	
12	5.20	0.00	-999.00	103.40	103.40	102.80	40.20	0.00	101.20	99.40	43.00	0.00	102.10	101.80	
13	5.30	0.00	-999.00	104.00	103.90	103.50	34.60	0.00	101.70	99.90	39.20	0.00	101.80	102.10	
14	5.20	0.00	-999.00	104.30	104.20	104.10	34.00	0.00	102.00	99.60	35.90	0.00	101.70	102.20	
15	5.30	0.00	-999.00	104.60	104.50	104.40	34.00	0.00	101.80	99.70	35.60	0.00	102.10	102.20	
16	5.20	0.00	-999.00	104.70	104.70	104.60	33.60	0.00	101.20	99.80	31.80	0.00	102.30	102.30	
17	5.30	0.00	-999.00	104.70	104.70	104.50	33.10	0.00	102.10	99.80	31.80	0.00	101.90	102.20	
18	5.20	0.00	-999.00	104.10	104.60	104.20	38.30	0.00	102.40	99.40	33.00	0.00	102.10	102.10	
19	5.30	0.00	-999.00	103.70	104.20	103.70	43.90	0.00	101.40	99.60	35.60	0.00	102.40	102.10	
20	5.20	0.00	-999.00	103.30	103.60	103.10	45.00	0.00	101.80	99.40	50.30	0.00	102.40	103.80	
21	5.30	0.00	-999.00	102.80	103.00	102.50	44.40	0.00	102.00	99.40	53.30	0.00	102.80	102.10	
22	4.90	0.00	-999.00	102.30	102.50	101.90	44.30	0.00	102.10	99.40	53.40	0.00	102.80	101.80	
23	2.20	0.00	-999.00	102.00	102.00	101.50	43.90	0.00	102.10	99.40	53.00	0.00	102.60	101.50	
24	2.20	0.00	-999.00	101.80	101.60	101.10	36.20	0.00	101.60	99.80	39.40	0.00	102.60	101.50	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB	MCNARY	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	PASCO	
1	39.60	0.00	103.30	101.70	40.40	0.00	103.80	100.70	0.00	112.60	107.90	107.60	0.00	108.50	
2	32.00	0.00	103.60	101.60	37.30	0.00	102.70	100.70	0.00	112.20	107.70	107.60	0.00	108.30	
3	21.00	0.00	103.10	101.40	19.20	0.00	101.90	100.50	0.00	111.80	107.60	107.70	0.00	108.30	
4	18.50	0.00	103.10	101.30	11.30	0.00	102.00	100.60	0.00	110.90	108.40	107.70	0.00	108.20	
5	13.80	0.00	103.10	101.10	9.50	0.00	101.30	100.50	0.00	110.70	108.20	107.70	0.00	108.30	
6	13.70	0.00	102.80	101.00	9.10	0.00	99.60	100.30	0.00	110.50	109.70	107.80	0.00	108.10	
7	14.90	0.00	102.90	101.00	9.10	0.00	100.60	100.30	0.00	111.40	110.70	108.00	0.00	108.30	
8	27.50	0.00	103.20	101.20	9.40	0.00	100.10	100.60	0.00	110.40	111.20	108.40	0.00	108.60	
9	40.90	0.00	103.20	101.80	21.30	12.10	101.30	100.90	0.00	109.50	111.60	108.70	0.00	108.80	
10	42.60	0.00	102.90	102.10	29.00	20.00	101.30	102.30	0.00	110.40	111.30	108.90	0.00	109.60	
11	41.00	0.00	102.20	102.30	40.30	31.30	101.50	111.10	0.00	110.80	111.60	109.20	0.00	110.50	
12	41.20	0.00	102.00	102.40	40.90	31.90	101.80	113.60	0.00	113.10	111.60	109.30	0.00	111.30	
13	42.10	0.00	102.50	102.70	42.40	31.90	103.20	114.20	0.00	112.50	111.80	109.50	0.00	111.90	
14	41.50	0.00	102.90	103.10	41.70	32.50	102.40	114.20	0.00	114.60	111.50	109.90	0.00	112.10	
15	41.30	0.00	103.60	102.90	41.00	31.90	102.10	114.40	0.00	114.70	111.50	110.00	0.00	112.00	
16	38.50	0.00	103.60	103.40	42.50	31.90	102.60	114.20	0.00	116.60	111.80	109.90	0.00	111.90	
17	34.60	0.00	103.10	103.50	41.00	31.90	102.40	114.10	0.00	116.40	112.10	110.20	0.00	111.90	
18	36.70	0.00	102.60	103.20	41.10	31.90	103.30	114.20	0.00	115.70	112.00	110.20	0.00	111.80	
19	35.30	0.00	104.10	103.00	43.20	32.50	104.50	113.90	0.00	115.60	111.70	110.10	0.00	111.60	
20	54.00	0.00	102.80	103.00	40.90	31.90	104.00	113.40	0.00	116.70	111.90	110.30	0.00	111.40	
21	54.90	0.00	107.00	102.80	42.40	31.90	103.50	113.20	0.00	119.20	0.00	117.20	110.90	110.30	
22	55.10	0.00	103.70	102.60	41.70	33.50	104.20	112.80	0.00	116.80	0.00	116.20	111.10	109.90	
23	55.10	0.00	106.40	102.40	50.90	50.30	105.10	112.90	0.00	116.30	0.00	115.00	110.70	109.80	
24	54.20	0.00	106.00	102.40	51.00	50.40	103.20	114.80	0.00	115.80	0.00	115.50	109.60	109.90	

06 JUL 2003

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

06 JUL 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.			
1	2.20	0.00	-999.00	101.60	101.50	100.50	30.90	0.00	102.00	39.00	0.00	102.50	101.40		
2	2.20	0.00	-999.00	101.60	101.00	100.10	30.00	0.00	102.50	32.80	0.00	102.40	101.30		
3	2.20	0.00	-999.00	101.50	100.70	99.80	30.00	0.00	101.90	22.80	0.00	102.30	101.60		
4	2.20	0.00	-999.00	101.30	100.40	99.60	30.20	0.00	102.20	17.80	0.00	101.90	101.50		
5	2.20	0.00	-999.00	101.20	100.10	99.10	31.00	0.00	101.90	17.50	0.00	101.80	101.40		
6	2.50	0.00	-999.00	101.00	99.90	99.00	30.40	0.00	101.50	17.60	0.00	102.00	101.30		
7	5.20	0.00	-999.00	101.10	100.30	98.90	30.30	0.00	101.70	18.20	0.00	102.10	101.30		
8	5.30	0.00	-999.00	101.40	100.90	99.40	25.00	0.00	102.40	27.20	0.00	102.10	102.40		
9	5.20	0.00	-999.00	101.90	102.20	100.20	25.10	0.00	102.70	26.50	0.00	102.00	102.40		
10	5.30	0.00	-999.00	102.30	102.70	101.00	24.70	0.00	102.60	26.10	0.00	102.20	102.20		
11	5.20	0.00	-999.00	103.00	103.30	102.00	26.40	0.00	102.50	28.70	0.00	102.60	102.40		
12	5.30	0.00	-999.00	103.60	103.80	103.10	26.60	0.00	102.70	28.60	0.00	102.50	102.90		
13	5.20	0.00	-999.00	104.20	104.50	103.80	28.80	0.00	103.10	28.80	0.00	103.00	102.90		
14	5.30	0.00	-999.00	104.70	104.80	104.50	27.40	0.00	102.70	30.30	0.00	103.20	103.00		
15	5.20	0.00	-999.00	104.90	105.10	104.90	27.40	0.00	102.40	30.30	0.00	103.10	103.20		
16	5.30	0.00	-999.00	104.90	105.20	105.10	30.90	0.00	102.20	33.40	0.00	103.80	103.20		
17	5.20	0.00	-999.00	104.90	105.40	104.80	29.30	0.00	102.50	35.10	0.00	104.10	103.20		
18	5.20	0.00	-999.00	104.50	105.10	104.40	29.60	0.00	102.40	34.00	0.00	103.80	103.10		
19	5.30	0.00	-999.00	104.10	104.70	103.90	30.90	0.00	102.20	33.80	0.00	103.70	103.00		
20	5.20	0.00	-999.00	103.50	104.00	103.40	29.20	0.00	102.30	31.20	0.00	104.00	102.90		
21	5.30	0.00	-999.00	102.90	103.40	102.70	29.10	0.00	102.50	30.90	0.00	103.40	102.80		
22	4.90	0.00	-999.00	102.60	102.90	102.20	29.50	0.00	104.80	30.90	0.00	103.40	102.60		
23	2.20	0.00	-999.00	102.40	102.30	101.60	28.70	0.00	106.60	30.30	0.00	103.80	102.40		
24	2.20	0.00	-999.00	102.00	101.90	101.10	28.50	0.00	107.20	30.40	0.00	104.30	102.40		

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT
1	38.20	0.00	104.50	102.60	54.90	51.30	102.20	115.10	0.00	114.70	109.90	109.60	109.20	114.70	109.60
2	37.60	0.00	103.90	102.10	50.50	49.90	103.70	115.40	0.00	115.40	111.40	109.50	109.30	115.40	109.50
3	18.90	0.00	103.60	101.90	32.50	32.00	102.80	115.30	0.00	114.00	112.40	109.40	109.10	114.00	109.40
4	14.00	0.00	103.70	101.70	30.50	30.00	101.90	115.00	0.00	113.20	111.50	109.50	109.00	113.20	109.50
5	18.50	0.00	103.80	101.70	18.40	17.10	102.10	113.80	0.00	113.20	111.70	109.50	108.70	113.20	109.50
6	19.00	0.00	103.60	101.80	20.80	11.60	101.80	113.30	0.00	110.70	111.80	109.70	108.40	110.70	109.70
7	17.60	0.00	103.70	102.20	21.10	11.80	101.40	112.20	0.00	111.20	111.30	109.80	108.30	111.20	109.80
8	26.30	0.00	104.00	101.90	20.80	11.60	102.10	110.70	0.00	110.80	112.90	109.80	108.20	110.80	109.80
9	26.40	0.00	104.30	102.40	21.40	12.20	101.40	110.20	0.00	111.30	113.80	110.10	108.40	111.30	110.10
10	27.80	0.00	104.20	102.80	29.20	20.10	101.70	110.20	0.00	111.50	113.20	110.30	108.50	111.50	110.30
11	30.00	0.00	103.70	103.50	29.30	20.10	102.30	110.80	0.00	111.50	113.00	110.50	108.80	111.50	110.50
12	30.60	0.00	103.40	103.30	29.40	20.10	102.10	111.80	0.00	111.30	114.70	110.70	109.30	111.30	110.70
13	35.60	0.00	103.60	103.60	32.10	21.20	102.70	112.00	0.00	111.20	114.90	110.80	109.90	111.20	110.80
14	34.30	0.00	103.60	103.80	35.10	25.90	102.80	111.80	0.00	113.00	115.50	111.00	110.20	113.00	111.00
15	34.60	0.00	103.50	103.90	35.10	25.90	103.10	112.80	0.00	113.00	113.50	111.20	110.60	113.00	111.20
16	39.60	0.00	105.00	103.90	36.70	25.90	103.10	112.90	0.00	112.20	114.90	111.20	110.80	112.20	111.20
17	37.30	0.00	105.60	104.20	35.20	25.90	103.10	113.00	0.00	115.00	114.70	111.50	111.00	115.00	111.50
18	37.30	0.00	105.10	104.20	35.90	26.40	103.70	112.90	0.00	114.90	113.80	111.40	111.10	114.90	111.40
19	37.30	0.00	104.20	104.20	35.20	25.90	103.50	112.70	0.00	115.20	112.90	111.30	111.00	115.20	111.30
20	35.40	0.00	104.30	103.80	35.20	25.90	104.00	112.30	0.00	115.60	112.80	111.30	110.70	115.60	111.30
21	35.20	0.00	104.40	103.40	35.20	25.90	103.80	112.20	0.00	116.60	112.80	111.20	110.50	116.60	111.20
22	31.40	0.00	104.30	103.00	35.20	25.90	103.70	111.90	0.00	117.30	112.20	111.20	110.40	117.30	111.20
23	30.30	0.00	104.10	102.90	31.10	29.10	104.40	111.90	0.00	117.30	115.10	111.10	110.20	117.30	111.10
24	30.20	0.00	103.90	102.70	30.90	30.30	103.90	112.00	0.00	116.70	114.90	111.00	109.90	116.70	111.00

07 JUL 2003

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

07 JUL 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.			
1	2.20	0.00	-999.00	101.80	101.70	100.80	20.30	0.00	102.80	21.70	0.00	105.00	102.40		
2	2.20	0.00	-999.00	101.60	101.00	100.30	18.10	0.00	101.90	13.90	0.00	103.90	102.40		
3	2.20	0.00	-999.00	101.40	100.60	100.00	20.10	0.00	101.90	19.30	0.00	103.90	102.20		
4	2.20	0.00	-999.00	101.20	100.30	99.60	20.50	0.00	102.20	14.40	0.00	103.30	102.00		
5	2.20	0.00	-999.00	101.00	100.00	99.30	23.60	0.00	101.70	14.00	0.00	103.10	101.90		
6	2.50	0.00	-999.00	101.00	100.00	98.90	43.70	0.00	102.20	27.60	0.00	103.50	103.60		
7	4.60	0.00	-999.00	101.20	100.10	98.80	44.50	0.00	103.30	39.70	0.00	104.80	104.50		
8	7.80	0.00	-999.00	101.30	101.00	99.20	37.60	0.00	106.10	40.00	0.00	107.00	103.90		
9	9.40	0.00	-999.00	101.80	102.60	100.00	34.60	0.00	102.80	35.00	0.00	107.80	103.70		
10	9.40	0.00	-999.00	102.50	103.20	101.00	34.10	0.00	102.60	32.30	0.00	106.50	104.00		
11	9.60	0.00	-999.00	103.10	103.70	101.90	32.80	0.00	103.20	32.10	0.00	108.10	104.20		
12	9.40	0.00	-999.00	103.70	104.20	102.90	32.40	0.00	102.70	33.60	0.00	109.80	104.30		
13	9.60	0.00	-999.00	104.50	104.50	103.70	32.30	0.00	102.60	32.10	0.00	110.40	104.70		
14	9.40	0.00	102.90	104.90	104.80	104.60	32.20	0.00	102.50	32.00	0.00	110.50	104.90		
15	9.60	0.00	103.00	105.30	105.00	105.00	32.90	0.00	103.40	32.20	0.00	111.30	105.00		
16	9.40	0.00	103.00	105.50	105.30	104.90	32.30	0.00	103.00	32.20	0.00	111.00	105.00		
17	9.40	0.00	103.00	105.40	105.40	104.70	35.50	0.00	104.00	35.60	0.00	112.00	104.60		
18	9.60	0.00	103.00	104.90	105.10	104.30	39.20	0.00	107.00	40.70	0.00	110.90	104.70		
19	9.40	0.00	102.90	104.40	104.80	104.20	41.10	0.00	106.60	41.90	0.00	111.50	104.70		
20	9.60	0.00	102.80	103.90	104.30	103.70	45.30	0.00	107.60	49.40	0.00	110.70	104.20		
21	9.40	0.00	102.80	103.50	103.90	103.60	45.00	0.00	109.00	55.90	0.00	111.50	104.10		
22	9.40	0.00	102.70	102.80	103.60	103.00	44.40	0.00	107.90	54.80	0.00	111.60	104.20		
23	9.60	0.00	102.60	102.30	103.30	102.50	31.10	0.00	105.80	40.50	0.00	110.40	104.10		
24	9.40	0.00	102.50	101.80	103.00	102.00	20.20	0.00	105.30	28.90	0.00	106.40	103.60		

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. OR FB	WA FB	TAILW.	GAS % SAT			
1	21.30	0.00	103.70	102.40	29.10	28.50	103.60	112.70	0.00	115.90	115.20	111.10		109.80	
2	17.40	0.00	103.70	102.30	20.80	20.20	103.50	113.20	0.00	116.50	115.20	111.00		109.50	
3	20.70	0.00	104.00	102.20	20.70	20.20	103.10	113.40	0.00	116.50	114.20	110.70		109.10	
4	14.70	0.00	104.30	102.00	20.80	20.20	102.80	111.80	0.00	116.50	113.50	110.50		108.80	
5	15.20	0.00	104.40	101.90	20.20	18.30	103.00	111.10	0.00	114.60	113.60	110.30		108.40	
6	30.20	0.00	104.20	102.00	28.20	0.00	106.50	111.10	0.00	113.20	114.80	110.30		107.90	
7	40.20	0.00	105.90	102.20	34.50	0.00	107.20	108.90	0.00	112.90	114.80	110.30		107.60	
8	33.10	0.00	106.30	102.40	31.30	0.00	106.20	105.10	0.00	111.80	115.30	110.30		107.30	
9	35.10	0.00	104.90	102.80	33.30	0.00	106.50	103.20	0.00	114.10	115.40	110.30		107.40	
10	35.00	0.00	104.40	103.00	30.60	0.00	105.90	103.00	0.00	116.00	115.00	110.30	-	999.00	
11	31.70	0.00	104.40	103.20	30.30	0.00	105.80	103.20	0.00	117.10	115.40	110.50	-	999.00	
12	31.50	0.00	104.20	103.40	30.80	0.00	106.10	103.30	0.00	117.20	115.30	110.50	-	999.00	
13	31.60	0.00	103.60	103.70	31.80	0.00	103.70	103.50	0.00	118.00	116.50	110.80		108.60	
14	32.30	0.00	105.00	104.00	30.30	0.00	103.30	103.70	0.00	118.40	116.50	111.00		109.00	
15	31.10	0.00	104.50	104.30	30.30	0.00	102.80	104.40	0.00	118.00	114.50	110.80		109.40	
16	31.50	0.00	103.40	104.60	30.10	0.00	103.20	104.00	0.00	118.00	111.60	110.80		109.70	
17	33.10	0.00	103.30	104.80	30.10	0.00	103.70	104.00	0.00	118.60	111.90	110.30		110.10	
18	36.20	0.00	104.60	104.40	32.30	0.00	105.30	103.90	0.00	118.30	113.00	110.30		110.30	
19	40.50	0.00	104.80	104.20	36.20	0.00	108.30	103.80	0.00	118.10	113.20	110.00		110.40	
20	55.00	0.00	104.50	104.20	40.70	0.00	109.20	103.90	0.00	116.40	113.70	110.00		110.20	
21	63.80	0.00	104.70	103.90	51.20	0.00	109.50	102.90	0.00	114.10	114.30	109.60		110.00	
22	64.10	0.00	103.90	103.30	59.00	0.00	108.70	102.90	0.00	114.10	111.40	109.10		109.30	
23	53.20	0.00	103.70	103.20	46.80	0.00	107.40	102.80	0.00	113.40	110.70	108.50		108.50	
24	37.10	0.00	103.60	102.70	32.30	0.00	105.60	102.60	0.00	111.30	110.00	108.00		108.00	

08 JUL 2003

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

08 JUL 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.			
1	9.60	0.00	102.60	: 101.60	102.80	101.40	: 20.20	0.00	104.80	100.60	: 18.10	0.00	104.80	103.00	
2	9.40	0.00	102.40	: 101.10	102.50	100.90	: 20.00	0.00	104.10	100.20	: 14.30	0.00	103.20	102.50	
3	9.60	0.00	102.20	: 101.10	102.20	100.40	: 26.30	0.00	102.00	100.30	: 14.30	0.00	102.60	102.50	
4	9.40	0.00	102.10	: 100.90	102.20	100.40	: 37.20	0.00	102.30	100.90	: 14.30	0.00	102.10	102.00	
5	9.60	0.00	102.00	: 100.90	102.00	100.00	: 35.90	0.00	102.60	100.40	: 13.60	0.00	101.80	101.40	
6	9.60	0.20	101.80	: 100.80	102.00	99.80	: 36.20	0.00	103.30	100.10	: 25.10	0.00	101.80	101.40	
7	13.00	3.60	104.40	: 100.70	101.90	99.70	: 41.10	0.00	103.10	100.60	: 39.60	0.00	101.60	101.40	
8	13.20	3.60	104.60	: 100.90	102.70	99.90	: 37.90	0.00	103.20	100.00	: 39.50	0.00	101.40	101.10	
9	13.00	3.60	104.70	: 101.10	104.10	100.50	: 38.30	0.00	103.40	99.80	: 39.40	0.00	101.30	100.90	
10	13.30	3.60	104.80	: 101.60	104.60	101.10	: 37.80	0.00	103.50	99.70	: 39.40	0.00	101.10	101.10	
11	13.00	3.60	104.80	: 102.30	105.00	101.70	: 37.80	0.00	102.70	99.90	: 40.30	0.00	101.20	101.10	
12	13.00	3.60	105.00	: 103.00	105.50	102.20	: 37.80	0.00	103.10	100.00	: 41.00	0.00	101.10	101.10	
13	13.20	3.60	105.10	: 103.60	105.90	103.10	: 37.90	0.00	104.20	100.40	: 41.00	0.00	101.00	101.00	
14	13.00	3.60	105.10	: 104.00	106.10	103.80	: 38.00	0.00	105.40	100.50	: 40.20	0.00	100.70	101.10	
15	13.70	4.10	106.30	: 104.30	106.10	104.40	: 37.00	0.00	105.90	100.90	: 38.80	0.00	100.70	101.30	
16	13.50	4.10	106.40	: 104.50	106.60	104.70	: 37.10	0.00	105.10	100.70	: 38.90	0.00	101.10	101.10	
17	13.70	4.10	106.30	: 104.40	107.00	104.70	: 42.20	0.00	105.30	100.70	: 38.10	0.00	101.10	101.00	
18	13.50	4.10	106.40	: 104.00	106.80	104.70	: 38.10	0.00	105.00	100.60	: 41.20	0.00	100.60	100.70	
19	13.50	4.10	106.00	: 103.40	106.50	104.50	: 43.80	0.00	104.80	100.50	: 48.40	0.00	101.40	101.10	
20	13.70	4.10	106.20	: 102.80	105.90	104.10	: 44.10	0.00	104.60	100.30	: 49.80	0.00	101.80	100.60	
21	13.50	4.00	106.10	: 102.30	105.40	103.60	: 44.10	0.00	104.50	100.10	: 58.10	0.00	101.60	101.20	
22	13.70	4.10	105.90	: 101.80	105.10	103.00	: 44.70	0.00	104.70	100.00	: 55.70	0.00	101.80	100.40	
23	13.50	4.00	105.80	: 101.50	104.70	102.50	: 32.10	0.00	104.50	100.00	: 46.00	0.00	101.70	100.30	
24	13.70	4.10	105.80	: 101.30	104.60	102.10	: 31.60	0.00	104.30	99.80	: 34.40	0.00	101.50	100.30	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL OR KCFS	GAS %SAT. WA FB TAILW.	TOTAL DISCH KCFS	GAS %SAT. FB TAILW.	
1	26.70	0.00	103.50	102.50	20.40	0.00	102.60	102.40	0.00	107.70	0.00	110.30	109.10	107.50	107.60
2	15.00	0.00	102.80	101.90	11.20	0.00	101.90	102.10	0.00	108.10	0.00	109.70	108.10	107.30	107.10
3	14.20	0.00	102.40	101.70	10.90	0.00	101.50	101.80	0.00	127.40	0.00	109.40	107.50	106.90	106.80
4	13.90	0.00	102.00	101.70	10.80	0.00	101.40	101.60	0.00	161.10	0.00	109.00	107.10	106.50	106.30
5	14.00	0.00	101.90	101.20	10.80	0.00	101.10	101.30	0.00	149.20	0.00	108.40	106.90	106.40	105.90
6	16.10	0.00	102.10	100.90	11.10	0.00	101.10	101.40	0.00	174.70	0.00	108.70	106.70	106.00	105.30
7	27.90	0.00	101.90	101.00	26.40	0.00	101.60	102.00	0.00	135.00	0.00	108.00	106.40	105.70	105.10
8	37.80	0.00	101.80	101.10	34.50	0.00	102.10	102.60	0.00	115.10	0.00	107.30	107.00	105.70	105.20
9	39.00	0.00	101.60	101.00	36.00	0.00	102.00	102.40	0.00	110.30	0.00	107.10	106.80	105.60	105.40
10	37.80	0.00	101.60	101.20	38.10	0.00	101.80	102.00	0.00	100.00	0.00	107.00	106.50	105.70	105.90
11	38.50	0.00	101.70	101.30	36.20	0.00	101.90	102.00	0.00	97.90	0.00	106.70	106.50	105.70	106.70
12	37.80	0.00	101.70	101.50	37.50	0.00	102.10	102.20	0.00	99.20	0.00	106.40	106.80	105.90	107.20
13	38.30	0.00	101.80	101.70	36.10	0.00	101.90	102.20	0.00	126.40	0.00	106.50	107.20	105.80	108.10
14	38.30	0.00	101.80	101.90	36.20	0.00	102.20	102.80	0.00	129.60	0.00	106.50	106.80	106.10	109.10
15	38.50	0.00	102.40	102.00	37.70	0.00	102.20	102.40	0.00	149.00	0.00	107.00	106.80	106.10	110.10
16	40.00	0.00	102.10	102.20	36.90	0.00	102.60	102.20	0.00	150.30	0.00	107.40	106.50	106.20	110.60
17	38.50	0.00	102.00	102.30	37.50	0.00	102.70	102.60	0.00	148.70	0.00	107.10	107.10	106.20	110.80
18	42.40	0.00	102.40	102.20	38.10	0.00	102.70	102.20	0.00	147.20	0.00	107.00	106.90	106.40	110.80
19	52.10	0.00	102.50	102.20	51.80	0.00	103.20	102.00	0.00	146.60	0.00	107.10	106.20	106.30	110.90
20	54.00	0.00	103.00	101.90	54.90	0.00	103.30	101.90	0.00	149.30	0.00	107.10	106.40	106.10	110.60
21	64.10	0.00	103.10	102.70	64.50	0.00	103.30	101.60	0.00	172.90	0.00	106.90	106.70	106.20	110.30
22	64.30	0.00	103.20	101.60	66.70	0.00	103.60	101.50	0.00	172.70	0.00	106.60	106.30	106.00	109.90
23	64.60	0.00	103.10	101.40	65.50	0.00	103.70	101.60	0.00	171.40	0.00	106.70	106.60	106.00	109.40
24	54.50	0.00	102.60	102.10	65.20	0.00	104.00	101.70	0.00	172.20	0.00	106.50	106.60	105.90	108.90

09 JUL 2003

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

09 JUL 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	LITTLE GOOSE	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.		
1	13.50	4.00	105.80	101.10	104.40	101.80	30.70	0.00	104.00	99.70	35.20	0.00	101.40	100.30	
2	13.70	4.10	105.70	100.90	104.20	101.50	19.10	0.00	102.90	99.80	34.40	0.00	101.10	100.40	
3	13.50	4.00	105.50	100.80	104.20	101.20	19.30	0.00	101.10	99.60	15.10	0.00	100.60	100.20	
4	13.50	4.00	105.50	100.70	104.00	101.00	31.30	0.00	102.00	99.60	19.00	0.00	100.50	100.10	
5	13.70	4.10	105.30	100.60	103.80	100.70	34.20	0.00	102.00	99.40	25.70	0.00	100.80	100.20	
6	13.50	4.00	105.30	100.40	103.80	100.50	38.20	0.00	102.20	99.30	27.30	0.00	100.70	100.10	
7	13.70	4.10	105.20	100.50	103.80	100.60	43.80	0.00	102.30	99.40	26.30	0.00	100.70	100.00	
8	13.50	4.00	105.50	100.90	104.10	101.00	45.00	0.00	103.30	99.10	43.00	0.00	100.90	100.40	
9	13.70	4.10	105.70	101.30	104.50	101.50	44.30	0.00	103.40	99.10	46.20	0.00	101.30	100.30	
10	14.00	4.50	106.50	102.00	105.00	102.20	44.50	0.00	104.30	99.30	45.80	0.00	101.80	100.50	
11	14.20	4.60	106.70	102.60	105.70	103.00	38.60	0.00	104.90	99.60	43.70	0.00	101.00	100.70	
12	14.00	4.50	106.90	103.30	106.40	103.90	39.10	0.00	105.90	101.90	43.70	0.00	101.60	100.80	
13	14.00	4.50	107.00	104.10	106.70	104.80	40.00	0.00	106.00	100.30	45.70	0.00	101.30	100.70	
14	14.20	4.60	107.00	104.50	107.00	105.40	38.40	0.00	106.00	101.10	43.70	0.00	102.50	101.30	
15	14.00	4.50	107.10	104.90	107.20	105.80	38.40	0.00	105.90	101.20	43.70	0.00	102.50	101.10	
16	14.20	4.60	107.00	105.10	107.30	106.20	40.90	0.00	106.70	101.10	42.20	0.00	101.90	101.30	
17	14.00	4.50	106.90	105.00	107.40	106.40	39.00	0.00	107.60	100.60	41.40	0.00	101.30	101.20	
18	14.00	4.50	106.90	104.60	107.10	106.30	38.40	0.00	106.90	100.80	41.30	0.00	102.10	101.20	
19	14.20	4.60	106.90	104.00	106.80	105.90	38.30	0.00	106.20	100.70	41.50	0.00	101.70	101.20	
20	14.00	4.50	106.70	103.60	106.30	105.40	38.20	0.00	104.90	100.70	41.50	0.00	101.70	101.10	
21	14.20	4.60	106.50	103.00	105.90	104.70	38.90	0.00	104.10	100.70	41.60	0.00	101.20	100.90	
22	14.00	4.50	106.50	102.50	105.50	104.10	33.60	0.00	104.30	100.60	39.70	0.00	101.70	100.70	
23	14.00	4.50	106.30	102.20	105.20	103.50	20.00	0.00	104.20	100.60	22.90	0.00	101.50	100.60	
24	14.20	4.60	106.20	101.90	105.00	102.90	19.50	0.00	104.30	100.30	15.90	0.00	101.40	101.00	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	PASCO	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	GAS %SAT	
1	35.10	0.00	102.90	101.30	52.40	0.00	104.10	101.90	173.60	0.00	106.40	106.50	106.00	: 108.60	
2	33.40	0.00	103.10	101.30	35.70	0.00	103.80	101.90	174.30	0.00	106.10	106.30	105.90	: 108.50	
3	26.60	0.00	103.00	101.00	14.00	0.00	102.80	101.90	171.70	0.00	105.90	106.20	105.90	: 108.30	
4	25.70	0.00	103.00	101.10	20.10	0.00	102.80	102.00	172.50	0.00	105.90	106.20	105.90	: 108.40	
5	17.10	0.00	102.90	100.90	20.40	0.70	102.30	102.00	151.10	0.00	105.90	105.60	105.80	: 108.40	
6	21.70	0.00	102.90	101.00	20.20	10.80	102.60	103.30	174.30	0.00	105.90	106.00	105.80	: 108.40	
7	21.80	0.00	102.80	100.90	19.70	10.70	101.50	102.30	173.40	0.00	105.70	105.80	105.80	: 108.30	
8	33.10	0.00	103.10	101.30	19.80	10.80	101.80	104.90	175.50	0.00	106.30	105.60	105.90	: 108.20	
9	42.00	0.00	103.50	101.80	20.10	11.00	102.70	109.50	175.90	0.00	107.10	106.30	105.90	: 108.60	
10	49.40	0.00	103.90	102.20	38.20	29.20	103.30	110.70	175.80	0.00	107.50	106.70	106.10	: 109.20	
11	46.50	0.00	103.10	102.50	41.90	31.40	104.20	112.70	176.10	0.00	108.60	106.20	106.20	: 109.90	
12	46.30	0.00	103.10	102.90	45.30	34.90	104.20	114.30	175.50	0.00	109.80	106.80	106.40	: 110.70	
13	46.40	0.00	102.90	103.00	49.40	40.40	104.70	115.00	175.90	0.00	109.40	107.30	106.50	: 111.50	
14	45.00	0.00	102.90	103.20	49.10	40.10	105.50	116.20	175.10	0.00	108.70	107.30	106.80	: 111.80	
15	45.00	0.00	103.10	103.40	50.20	40.90	105.00	116.10	151.50	0.00	107.20	107.00	106.90	- 999.00	
16	45.10	0.00	103.30	103.40	50.60	40.10	103.60	116.10	148.10	0.00	107.40	107.30	107.00	- 999.00	
17	45.70	0.00	103.10	103.50	50.60	40.10	103.20	116.10	148.70	0.00	112.40	107.20	106.80	- 999.00	
18	46.30	0.00	103.20	103.80	49.40	40.40	103.60	116.10	147.90	0.00	114.50	107.50	106.90	: 112.50	
19	44.90	0.00	103.20	103.60	49.50	40.50	103.70	115.90	148.50	0.00	114.40	109.30	106.90	: 112.20	
20	44.70	0.00	103.10	103.20	50.30	41.20	103.40	115.60	170.70	0.00	113.80	112.20	106.60	: 111.90	
21	46.10	0.00	103.20	103.60	51.00	40.50	104.40	115.30	173.10	0.00	107.80	112.60	106.80	: 111.70	
22	42.10	0.00	104.80	102.60	49.40	40.50	104.20	115.30	172.30	0.00	106.60	112.40	106.60	: 111.30	
23	37.90	0.00	104.10	102.60	49.70	49.00	104.90	115.40	172.50	0.00	107.30	111.20	106.50	: 111.00	
24	22.20	0.00	103.30	102.40	36.10	35.60	104.20	115.60	171.50	0.00	106.40	110.50	106.50	: 110.90	

10 JUL 2003

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

10 JUL 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	LOWER GRANITE	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.		
1	14.00	4.50	106.20	101.70	104.80	102.60	18.10	0.00	104.40	100.20	14.10	0.00	101.70	100.70	
2	14.20	4.60	106.40	101.60	104.80	102.10	21.70	0.00	104.10	100.20	14.40	0.00	101.30	100.60	
3	14.00	4.50	106.20	101.30	104.70	101.70	33.60	0.00	103.50	100.20	14.50	0.00	101.10	100.40	
4	14.00	4.50	106.20	101.20	104.60	101.40	39.80	0.00	104.20	101.40	20.00	0.00	101.10	100.40	
5	14.20	4.60	106.10	101.00	104.50	101.20	39.00	0.00	105.40	100.50	21.90	0.00	101.00	100.50	
6	14.00	4.50	106.00	100.90	104.40	101.00	41.50	0.00	105.80	100.30	41.10	0.00	101.60	100.70	
7	14.20	4.60	106.20	100.90	104.60	101.10	40.90	0.00	105.90	100.30	40.90	0.00	101.70	100.70	
8	13.90	4.50	106.30	101.20	104.80	101.40	40.90	0.00	106.00	100.40	40.90	0.00	101.50	100.70	
9	14.20	4.60	106.40	101.80	105.10	102.00	41.00	0.00	106.10	102.50	40.70	0.00	101.70	100.80	
10	14.00	4.50	106.40	102.40	105.60	102.70	41.00	0.00	106.50	101.40	40.80	0.00	101.50	101.00	
11	14.20	4.60	106.60	103.10	106.10	103.60	41.40	0.00	106.70	101.30	41.80	0.00	102.20	101.10	
12	13.90	4.50	106.70	103.20	106.50	104.70	37.00	0.00	107.70	101.20	42.00	0.00	101.60	101.30	
13	14.20	4.60	106.80	104.60	107.10	105.40	36.10	0.00	107.70	101.80	42.10	0.00	103.50	101.50	
14	14.00	4.50	106.60	105.20	107.40	106.20	30.80	0.00	107.50	101.70	36.00	0.00	102.00	101.70	
15	14.00	4.50	106.90	105.50	107.60	0.00	30.00	0.00	108.00	101.20	35.00	0.00	100.90	101.80	
16	14.20	4.60	106.90	105.60	107.80	107.30	31.90	0.00	107.60	101.30	30.80	0.00	101.00	101.70	
17	14.00	4.50	106.80	105.50	0.00	107.40	30.50	0.00	107.80	101.30	25.60	0.00	105.20	101.80	
18	14.20	4.60	106.70	105.00	107.40	107.20	26.90	0.00	108.50	101.20	24.70	0.00	101.70	102.00	
19	14.00	4.50	106.60	104.60	106.90	106.70	37.50	0.00	108.70	101.60	25.10	0.00	100.80	102.00	
20	14.20	4.60	106.40	103.90	106.40	106.00	44.50	0.00	109.50	101.40	38.80	0.00	101.70	101.40	
21	14.00	4.50	106.30	103.30	105.90	105.20	43.50	0.00	106.60	101.10	43.80	0.00	100.70	101.10	
22	14.00	4.50	106.20	102.80	105.50	104.50	49.30	0.00	108.80	100.90	50.60	0.00	100.60	100.70	
23	14.20	4.60	106.10	102.40	105.20	103.80	30.70	0.00	107.80	100.70	51.70	0.00	99.90	100.50	
24	14.00	4.50	106.00	102.00	104.90	103.20	30.40	0.00	107.20	100.40	34.30	0.00	101.70	100.50	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	MCNARY	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	PASCO	
1	14.40	0.00	103.80	102.20	19.80	19.20	102.80	115.30	0.00	105.60	111.10	106.20	0.00	110.70	
2	14.00	0.00	104.20	102.10	10.70	10.20	102.30	114.90	0.00	109.20	110.20	106.00	0.00	110.70	
3	13.90	0.00	104.50	101.80	10.50	10.00	101.50	114.60	0.00	110.10	109.70	105.90	0.00	110.70	
4	13.90	0.00	104.50	101.60	10.50	10.00	102.50	113.80	0.00	109.40	108.90	105.70	0.00	110.70	
5	14.10	0.00	103.40	101.60	10.50	10.00	102.90	112.60	0.00	109.00	108.30	105.50	0.00	110.70	
6	21.20	0.00	103.20	101.40	8.90	0.80	101.00	111.20	0.00	108.00	107.70	105.20	0.00	110.40	
7	28.40	0.00	103.70	101.90	9.30	0.00	100.90	110.60	0.00	107.20	106.90	105.30	0.00	110.30	
8	41.40	0.00	105.10	101.90	22.70	0.00	102.30	111.00	0.00	105.30	106.30	105.50	0.00	110.40	
9	41.70	0.00	106.30	102.30	39.50	0.00	106.40	107.90	0.00	104.40	106.40	105.70	0.00	110.50	
10	41.70	0.00	106.50	102.90	41.90	0.00	107.10	104.40	0.00	104.00	106.30	106.10	0.00	110.90	
11	42.50	0.00	106.10	103.20	40.40	0.00	107.20	104.00	0.00	108.20	105.40	105.90	0.00	111.30	
12	41.50	0.00	105.90	103.80	40.30	0.00	106.90	103.80	0.00	109.80	105.80	105.90	0.00	112.20	
13	41.80	0.00	105.90	104.10	41.10	0.00	107.10	103.90	0.00	110.10	105.70	105.90	0.00	112.90	
14	41.90	0.00	106.40	104.30	40.40	0.00	107.20	103.80	0.00	109.30	105.40	105.60	0.00	113.50	
15	41.70	0.00	108.20	104.50	40.40	0.00	107.40	103.80	0.00	108.30	108.90	105.70	0.00	113.90	
16	36.30	0.00	107.50	104.70	41.70	0.00	106.60	103.90	0.00	107.80	109.70	105.90	0.00	114.10	
17	35.40	0.00	107.00	104.70	39.30	0.00	107.10	103.90	0.00	105.20	107.30	105.80	0.00	114.00	
18	28.30	0.00	104.80	104.60	36.00	0.00	106.40	104.20	0.00	111.20	107.80	105.40	0.00	114.00	
19	28.30	0.00	103.70	104.30	33.10	0.00	105.70	103.40	0.00	113.50	108.70	105.30	0.00	113.90	
20	31.20	0.00	103.60	103.80	31.20	0.00	104.90	103.40	0.00	112.90	107.50	105.30	0.00	113.60	
21	41.60	0.00	103.60	103.30	31.40	0.00	105.20	103.10	0.00	112.60	106.20	105.10	0.00	113.10	
22	49.90	0.00	103.50	103.00	31.10	0.00	105.10	102.60	0.00	112.20	107.40	105.20	0.00	112.60	
23	49.60	0.00	102.70	102.50	31.10	0.00	104.90	102.60	0.00	111.50	107.10	105.10	0.00	112.20	
24	48.70	0.00	102.80	102.30	31.10	0.00	105.10	102.50	0.00	110.90	107.00	105.20	0.00	111.70	

11 JUL 2003

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

11 JUL 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT FB TAILW.			
1	14.20	4.60	106.00	101.70	104.90	102.80	27.70	0.00	106.50	100.40	34.90	0.00	101.90	100.30	
2	13.90	4.50	106.00	101.60	104.70	102.40	27.90	0.00	104.60	100.10	33.70	0.00	101.90	100.40	
3	14.20	4.60	105.90	101.40	104.60	102.00	30.40	0.00	104.90	100.10	34.00	0.00	101.40	100.40	
4	14.00	4.50	106.10	101.40	104.50	101.70	27.60	0.00	104.90	100.10	33.20	0.00	101.10	100.10	
5	14.20	4.60	106.00	101.20	104.50	101.30	28.10	0.00	105.50	99.90	28.90	0.00	101.60	100.20	
6	14.00	4.50	105.80	101.00	104.40	101.00	27.60	0.00	105.20	99.70	28.40	0.00	101.00	99.80	
7	14.00	4.50	105.90	101.10	104.50	101.20	32.50	0.00	104.80	100.40	28.70	0.00	102.10	99.80	
8	14.20	4.60	105.90	101.40	104.80	101.70	33.00	0.00	104.70	100.10	33.40	0.00	102.30	99.90	
9	14.00	4.50	0.00	101.90	105.30	102.40	36.50	0.00	105.60	100.50	36.00	0.00	101.60	100.20	
10	14.20	4.60	103.90	102.40	105.80	103.00	37.90	0.00	106.10	100.50	36.40	0.00	100.30	100.30	
11	14.00	4.50	105.80	103.20	106.20	103.90	35.60	0.00	105.80	100.30	36.20	0.00	99.20	100.50	
12	14.20	4.60	106.10	104.00	106.70	104.90	35.60	0.00	106.50	100.10	36.20	0.00	98.80	100.50	
13	14.00	4.50	106.30	104.70	107.20	105.70	37.90	0.00	106.60	100.00	37.70	0.00	99.60	100.70	
14	14.00	4.50	106.40	105.20	107.40	106.40	38.40	0.00	107.00	100.00	36.20	0.00	99.10	100.90	
15	14.20	4.60	106.50	105.50	107.70	107.00	37.60	0.00	107.00	100.00	36.20	0.00	99.10	100.70	
16	13.60	4.20	108.70	105.80	107.90	107.30	40.20	0.00	107.50	100.50	39.20	0.00	99.70	102.10	
17	13.90	4.30	108.60	105.70	108.50	107.40	38.30	0.00	107.80	99.90	38.90	0.00	106.40	101.40	
18	13.70	4.20	108.60	105.20	108.60	107.30	38.20	0.00	107.50	99.90	38.90	0.00	108.30	100.60	
19	13.70	4.20	108.30	104.60	108.20	106.80	44.70	0.00	108.10	100.40	38.30	0.00	109.00	100.60	
20	14.00	4.30	108.20	104.10	107.70	106.10	45.80	0.00	108.10	100.10	44.10	0.00	109.60	100.60	
21	13.70	4.20	108.10	103.50	107.30	105.30	44.10	0.00	107.10	99.70	46.60	0.00	107.60	100.40	
22	13.90	4.30	107.90	102.90	106.90	104.60	44.90	0.00	108.60	99.80	48.20	0.00	106.20	100.00	
23	13.70	4.20	108.00	102.60	106.60	104.00	38.40	0.00	106.10	100.10	49.50	0.00	104.80	100.10	
24	13.90	4.30	107.90	102.30	106.50	103.50	33.90	0.00	105.60	99.60	42.80	0.00	105.50	100.00	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO				
HOUR:	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT FB TAILW.				
1	35.30	0.00	102.60	102.20	0.00	106.00	102.40	172.20	0.00	104.00	107.80	105.30	0.00	111.30		
2	34.50	0.00	102.50	102.00	0.00	106.60	102.40	139.40	0.00	102.90	107.90	105.30	0.00	111.00		
3	34.50	0.00	102.50	101.80	0.00	106.00	102.50	154.80	0.00	102.30	107.90	105.40	0.00	110.80		
4	34.50	0.00	102.60	101.60	0.00	106.30	102.60	156.30	0.00	104.80	106.50	105.40	0.00	110.80		
5	35.10	0.00	102.90	101.40	0.60	106.00	102.40	156.30	0.00	103.80	106.90	105.10	0.00	110.80		
6	36.00	0.00	103.80	101.30	0.80	29.10	102.60	102.50	173.30	0.00	102.80	107.80	105.20	0.00	110.90	
7	34.20	0.00	103.00	101.40	0.80	29.90	102.70	109.90	175.10	0.00	107.40	108.10	106.00	0.00	110.80	
8	34.10	0.00	102.60	101.40	0.80	30.40	102.10	113.00	175.00	0.00	107.40	107.60	106.20	0.00	111.10	
9	36.20	0.00	103.40	101.80	0.80	29.90	102.70	113.60	175.20	0.00	105.70	107.50	106.40	0.00	111.50	
10	36.30	0.00	104.30	102.00	0.80	27.60	103.20	113.70	175.40	0.00	105.30	107.10	106.50	0.00	112.10	
11	36.10	0.00	103.00	102.40	0.80	25.10	103.30	114.00	174.80	0.00	105.90	107.70	106.80	0.00	112.60	
12	36.80	0.00	105.00	102.60	0.80	25.00	103.10	113.60	175.00	0.00	111.00	107.00	107.00	0.00	113.40	
13	36.00	0.00	104.60	102.80	0.80	25.10	103.00	113.80	174.70	0.00	112.90	107.50	107.20	0.00	113.70	
14	36.10	0.00	104.90	103.00	0.80	25.50	103.40	113.70	174.60	0.00	113.70	107.60	107.50	0.00	113.60	
15	36.20	0.00	104.60	103.20	0.80	25.00	103.70	113.50	175.00	0.00	115.10	108.20	107.80	0.00	113.70	
16	40.60	0.00	104.50	104.30	0.80	25.10	102.80	113.70	174.90	0.00	116.30	107.90	108.00	0.00	113.90	
17	40.70	0.00	104.50	103.70	0.80	25.10	102.90	113.70	174.10	0.00	117.40	108.70	108.60	0.00	114.10	
18	39.80	0.00	106.30	103.60	0.80	25.10	102.60	113.50	173.00	0.00	117.40	108.70	108.70	0.00	114.40	
19	41.00	0.00	105.60	103.80	0.80	25.10	103.00	113.00	172.20	0.00	116.80	108.60	108.70	0.00	114.40	
20	44.50	0.00	104.70	103.40	0.80	25.70	102.90	112.90	172.20	0.00	118.00	108.60	108.90	0.00	114.60	
21	44.90	0.00	104.90	103.10	0.80	35.20	103.10	113.30	173.20	0.00	116.20	109.80	108.70	0.00	114.50	
22	49.70	0.00	104.90	102.90	0.80	36.80	102.90	114.00	172.40	0.00	114.00	110.00	108.70	0.00	114.30	
23	50.30	0.00	105.70	102.70	0.80	44.60	36.80	102.90	172.60	0.00	112.90	110.10	108.30	0.00	114.10	
24	50.30	0.00	105.70	102.50	0.80	45.60	45.60	103.90	115.20	0.00	112.50	110.10	108.30	0.00	113.90	

12 JUL 2003

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

12 JUL 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.			
1	13.70	4.20	107.80	102.00	106.30	102.90	27.70	0.00	105.80	99.40	32.20	0.00	102.90	99.80	
2	13.70	4.20	107.70	101.80	106.20	102.60	27.30	0.00	107.00	99.30	33.10	0.00	100.60	99.90	
3	13.90	4.30	107.80	101.70	106.00	102.40	27.30	0.00	105.40	99.20	30.20	0.00	101.00	99.40	
4	13.70	4.20	107.70	101.50	106.00	102.20	27.80	0.00	105.10	99.10	29.00	0.00	100.80	98.70	
5	13.90	4.30	107.50	101.30	105.80	101.90	28.20	0.00	104.30	99.20	28.90	0.00	101.50	99.00	
6	13.70	4.20	107.70	101.20	105.70	101.70	26.80	0.00	103.50	99.40	26.50	0.00	100.30	98.80	
7	13.70	4.20	107.80	101.20	106.00	101.90	27.30	0.00	102.80	99.00	26.30	0.00	100.20	98.90	
8	13.90	4.30	107.80	101.60	106.30	102.20	37.70	0.00	102.90	99.10	26.40	0.00	99.40	98.90	
9	13.30	4.20	107.80	102.10	106.60	103.00	39.00	0.00	103.20	99.40	31.30	0.00	99.20	99.20	
10	11.80	4.20	109.40	102.70	107.10	103.70	39.90	0.00	104.50	99.80	34.40	0.00	99.10	99.10	
11	12.40	4.20	108.90	103.40	108.00	104.60	44.00	0.00	105.70	100.80	34.30	0.00	98.80	99.10	
12	13.70	4.20	107.80	104.00	108.90	105.40	44.70	0.00	103.70	100.20	33.90	0.00	98.70	99.30	
13	13.70	4.20	107.70	104.70	108.70	106.30	45.50	0.00	103.70	100.20	38.30	0.00	98.70	99.50	
14	11.10	4.20	109.80	105.20	108.80	107.10	44.80	0.00	103.60	100.50	38.90	0.00	98.80	99.80	
15	9.00	4.20	111.70	105.40	109.40	107.70	44.80	0.00	103.70	100.40	38.90	0.00	98.60	99.30	
16	11.70	4.20	108.20	105.70	110.20	108.00	44.20	0.00	104.10	100.60	38.90	0.00	99.10	99.30	
17	13.90	4.20	106.40	105.40	110.30	108.20	43.20	0.00	103.40	100.70	38.90	0.00	98.80	99.30	
18	13.70	4.20	106.30	105.00	108.80	107.90	42.50	0.00	103.30	100.90	38.90	0.00	98.90	99.20	
19	13.70	4.10	106.10	104.40	107.70	107.50	44.40	0.00	102.30	100.90	39.00	0.00	98.70	98.90	
20	13.90	4.20	105.80	103.70	106.90	106.70	46.20	0.00	101.70	100.90	48.50	0.00	98.70	98.70	
21	13.70	4.10	105.90	103.10	106.40	105.70	46.40	0.00	101.40	100.80	49.70	0.00	98.40	98.50	
22	13.90	4.20	105.60	102.50	105.90	105.00	48.40	0.00	101.00	100.80	54.50	0.00	98.40	98.60	
23	13.60	4.10	105.50	102.00	105.60	104.50	28.90	0.00	101.50	100.70	46.30	0.00	98.60	98.50	
24	13.90	4.20	105.60	101.70	105.50	103.90	27.90	0.00	101.00	100.50	30.10	0.00	98.80	98.60	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT
1	50.90	0.00	106.20	102.50	45.40	44.80	103.80	115.40	0.00	171.10	0.00	112.10	109.40	108.20	113.50
2	40.20	0.00	104.50	102.40	45.50	44.90	104.20	115.50	0.00	171.30	0.00	111.60	109.50	108.20	113.50
3	35.80	0.00	102.60	102.10	45.50	44.90	104.30	115.50	0.00	171.50	0.00	111.80	109.40	108.50	113.20
4	29.70	0.00	103.90	101.90	44.40	43.80	105.00	115.60	0.00	171.30	0.00	111.20	109.20	108.40	113.00
5	30.80	0.00	104.10	102.10	36.80	35.50	104.40	115.60	0.00	158.40	0.00	110.50	108.80	108.70	113.20
6	28.30	0.00	103.30	101.50	30.30	1.20	102.80	114.90	0.00	147.90	0.00	107.30	111.90	108.90	112.90
7	28.60	0.00	103.50	101.50	30.50	0.00	102.10	113.70	0.00	137.20	0.00	107.00	112.70	109.20	112.70
8	35.20	0.00	103.10	101.60	32.10	0.00	103.20	106.10	0.00	146.90	0.00	106.80	112.30	109.40	112.50
9	34.00	0.00	102.70	101.60	30.60	0.00	103.00	103.70	0.00	149.30	0.00	106.60	111.40	109.60	112.70
10	34.10	0.00	102.20	101.90	32.90	0.00	103.70	103.70	0.00	152.30	0.00	106.30	111.20	109.90	112.80
11	35.70	0.00	102.50	102.50	30.90	0.00	103.00	103.70	0.00	168.50	0.00	110.20	111.10	109.90	113.10
12	34.10	0.00	102.50	102.40	30.80	0.00	102.60	103.50	0.00	169.30	0.00	112.30	110.90	109.90	113.50
13	34.90	0.00	102.20	102.50	32.20	0.00	102.30	104.10	0.00	168.40	0.00	112.50	111.00	110.10	114.10
14	34.50	0.00	102.40	102.70	30.80	0.00	103.00	103.90	0.00	168.10	0.00	112.80	111.60	110.40	114.30
15	37.90	0.00	103.30	103.00	39.90	0.00	104.70	104.30	0.00	168.80	0.00	113.40	111.90	110.40	114.10
16	39.80	0.00	104.20	103.00	42.70	0.00	104.50	103.80	0.00	169.00	0.00	114.40	111.70	110.70	113.70
17	38.10	0.00	102.60	103.10	40.40	0.00	104.40	104.00	0.00	168.30	0.00	114.20	111.80	110.80	113.30
18	38.60	0.00	102.40	103.00	40.70	1.20	104.40	103.50	0.00	168.10	0.00	113.10	111.70	110.80	112.60
19	40.10	0.00	105.20	103.50	41.40	29.00	103.80	103.20	0.00	171.10	0.00	111.20	111.20	110.40	112.20
20	50.30	0.00	102.50	102.30	40.70	29.70	103.30	109.40	0.00	171.90	0.00	111.90	111.10	110.40	111.80
21	51.00	0.00	104.10	101.80	41.50	30.30	103.10	112.10	0.00	171.70	0.00	111.30	110.80	110.10	111.10
22	51.30	0.00	102.60	101.30	39.40	29.80	102.90	112.70	0.00	171.20	0.00	110.90	110.10	109.90	110.50
23	51.40	0.00	102.00	100.90	39.70	29.00	102.30	113.20	0.00	170.30	0.00	110.40	110.60	109.70	109.60
24	40.80	0.00	102.00	100.70	37.30	1.20	102.60	113.00	0.00	139.80	0.00	109.90	110.60	109.70	109.00

13 JUL 2003

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

13 JUL 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.			
1	13.60	4.10	105.50	101.50	105.30	103.30	28.10	0.00	101.10	100.60	29.30	0.00	98.30	98.50	
2	13.60	4.10	105.60	101.30	105.20	103.00	28.00	0.00	101.20	100.70	29.10	0.00	98.50	98.40	
3	13.90	4.20	105.40	101.10	105.00	102.80	27.50	0.00	101.10	100.70	25.90	0.00	98.40	98.20	
4	13.60	4.10	105.40	100.90	104.90	102.40	27.70	0.00	101.10	100.50	25.60	0.00	98.30	98.10	
5	13.90	4.20	105.20	100.90	104.90	102.00	27.60	0.00	101.10	101.00	25.30	0.00	98.30	98.00	
6	13.60	4.10	105.30	100.70	104.80	101.70	35.50	0.00	100.40	100.50	25.20	0.00	98.10	97.80	
7	13.60	4.10	105.40	100.80	104.90	101.50	35.80	0.00	100.40	100.20	17.00	0.00	98.10	97.80	
8	13.90	4.20	105.20	101.10	105.10	101.90	43.30	0.00	101.20	100.50	21.60	0.00	97.80	98.10	
9	13.60	4.10	105.50	101.50	105.50	102.10	43.60	0.00	101.70	100.30	30.80	0.00	98.30	99.20	
10	13.90	4.20	105.30	101.80	105.80	102.40	43.60	0.00	101.80	100.30	31.40	0.00	98.60	98.60	
11	13.60	4.10	105.40	102.40	106.10	103.00	44.50	0.00	101.00	100.30	31.10	0.00	98.70	98.40	
12	13.90	4.20	105.30	102.70	106.20	103.40	45.40	0.00	101.40	100.20	31.10	0.00	98.60	98.40	
13	13.60	4.10	105.50	103.10	106.40	104.10	41.30	0.00	101.60	100.40	30.10	0.00	98.50	98.60	
14	13.60	4.10	105.70	103.80	106.80	104.80	39.90	0.00	101.70	100.60	26.40	0.00	98.40	98.90	
15	13.90	4.20	105.50	104.50	107.20	105.70	30.00	0.00	101.70	101.00	24.60	0.00	98.50	99.10	
16	13.60	4.10	105.50	104.90	107.10	106.40	27.30	0.00	101.70	101.10	24.60	0.00	98.90	99.00	
17	13.80	4.10	105.50	104.70	107.30	106.70	27.20	0.00	101.40	101.00	29.20	0.00	99.10	98.70	
18	13.60	4.10	105.60	104.40	107.20	106.80	29.70	0.00	101.80	101.20	30.90	0.00	99.00	98.70	
19	13.80	4.10	105.50	103.90	106.60	106.50	29.40	0.00	102.30	102.80	30.40	0.00	98.70	98.70	
20	13.60	4.10	105.40	103.40	106.00	105.90	38.40	0.00	102.80	102.10	35.10	0.00	98.70	98.50	
21	13.80	4.10	105.10	102.70	105.50	105.10	40.80	0.00	102.60	101.70	35.40	0.00	98.80	98.20	
22	13.60	4.10	105.10	102.10	105.10	104.50	39.90	0.00	102.00	101.50	28.30	0.00	99.30	98.30	
23	13.80	4.10	105.00	101.60	104.90	103.90	39.70	0.00	102.10	101.40	34.70	0.00	99.30	98.40	
24	13.60	4.10	104.90	101.20	104.80	103.30	27.80	0.00	103.00	101.10	35.30	0.00	99.10	98.30	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.			
1	31.80	0.00	102.10	100.70	0.00	102.60	108.00	0.00	109.50	109.80	109.40	0.00	108.60		
2	27.40	0.00	102.00	100.50	0.00	102.10	103.10	0.00	109.30	109.70	109.30	0.00	108.20		
3	27.30	0.00	102.00	100.40	0.00	102.50	102.30	0.00	109.30	109.40	109.20	0.00	107.90		
4	27.20	0.00	102.00	100.30	0.00	103.00	102.20	0.00	109.10	109.40	109.10	0.00	107.90		
5	26.40	0.00	101.80	100.20	0.00	102.30	102.10	0.00	109.10	109.00	108.80	0.00	107.60		
6	26.90	0.00	101.90	100.20	0.00	101.90	102.00	0.00	108.50	108.60	108.60	0.00	107.20		
7	26.40	0.00	101.80	100.10	0.00	101.00	101.90	0.00	108.60	108.50	108.60	0.00	107.30		
8	26.60	0.00	101.60	100.20	0.00	101.50	100.20	0.00	108.40	108.40	108.70	0.00	107.50		
9	22.80	0.00	101.50	100.40	0.00	101.20	110.50	0.00	108.40	108.40	108.60	0.00	107.70		
10	21.60	0.00	101.60	100.70	0.00	100.50	112.60	0.00	108.20	108.60	108.30	0.00	107.80		
11	23.00	0.00	101.40	100.80	0.00	100.60	112.60	0.00	108.00	108.80	108.00	0.00	107.90		
12	33.40	0.00	101.50	101.00	0.00	100.10	112.50	0.00	107.70	109.00	108.10	0.00	107.90		
13	34.20	0.00	101.40	101.10	0.00	100.70	112.00	0.00	107.90	108.50	108.10	0.00	108.40		
14	30.10	0.00	101.60	101.10	0.00	101.00	111.00	0.00	108.00	108.70	108.20	0.00	108.70		
15	30.10	0.00	101.70	101.40	0.00	100.50	110.80	0.00	108.20	108.00	107.90	0.00	109.00		
16	27.10	0.00	101.90	101.50	0.00	99.70	111.30	0.00	108.30	107.70	108.00	0.00	109.20		
17	27.00	0.00	101.60	101.60	0.00	100.70	111.30	0.00	108.20	107.80	107.90	0.00	109.20		
18	32.00	0.00	101.60	101.50	0.00	101.50	111.10	0.00	108.30	107.80	107.80	0.00	109.00		
19	29.90	0.00	101.80	101.60	0.00	101.50	113.40	0.00	108.30	107.60	107.70	0.00	108.80		
20	40.90	0.00	101.90	100.90	0.00	101.80	116.00	0.00	108.40	107.70	107.70	0.00	108.70		
21	40.60	0.00	102.10	100.70	0.00	101.70	116.60	0.00	108.10	107.50	107.60	0.00	108.70		
22	27.20	0.00	101.90	100.30	0.00	102.00	116.50	0.00	107.90	107.90	107.50	0.00	108.50		
23	26.90	0.00	101.40	100.30	0.00	102.50	116.80	0.00	107.70	107.60	107.60	0.00	108.40		
24	27.30	0.00	101.30	100.10	0.00	101.80	115.50	0.00	107.40	107.50	107.60	0.00	108.20		

14 JUL 2003

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

14 JUL 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	LOWER GRANITE	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	LOWER GRANITE	LITTLE GOOSE
1	13.80	4.40	105.00	101.00	104.50	102.90	28.20	0.00	102.00	101.00	27.90	0.00	99.10	98.20	
2	14.00	4.40	104.90	100.80	104.50	102.40	27.90	0.00	102.10	1.50	27.20	0.00	99.00	98.00	
3	14.00	4.40	105.00	100.60	104.30	101.90	14.10	0.00	102.20	100.90	14.50	0.00	98.80	97.90	
4	14.00	4.40	104.90	100.50	104.20	101.50	14.50	0.00	102.00	100.70	13.90	0.00	98.80	98.00	
5	14.00	4.40	104.90	100.30	104.20	101.20	28.70	0.00	101.70	100.90	15.00	0.00	98.70	98.00	
6	14.00	4.40	104.90	100.20	104.10	100.90	40.60	0.00	101.90	101.30	14.00	0.00	98.60	97.90	
7	14.00	4.40	104.80	100.30	104.40	101.00	39.90	0.00	102.00	101.00	35.40	0.00	99.00	98.40	
8	14.10	4.40	105.00	100.70	104.70	101.50	40.30	0.00	102.30	101.00	35.80	0.00	99.10	98.70	
9	13.80	4.30	105.10	101.40	105.10	102.20	39.80	0.00	103.20	101.00	36.60	0.00	99.40	98.90	
10	14.10	4.40	105.10	102.00	105.60	103.00	40.90	0.00	102.80	101.30	36.80	0.00	99.90	99.20	
11	13.80	4.30	105.40	102.80	106.10	104.00	40.70	0.00	102.80	101.40	34.00	0.00	100.40	99.60	
12	14.10	4.40	105.40	103.60	106.70	105.00	41.30	0.00	103.20	101.40	33.58	0.00	100.60	99.80	
13	13.80	4.30	105.50	104.30	107.10	106.00	40.40	0.00	103.70	101.70	33.60	0.00	100.30	100.20	
14	14.10	4.40	105.40	105.10	107.40	106.90	38.50	0.00	105.30	102.00	33.60	0.00	100.30	100.40	
15	13.80	4.30	105.50	105.60	107.50	107.50	25.30	0.00	105.60	102.20	34.40	0.00	100.10	100.30	
16	14.10	4.40	105.40	105.70	107.60	107.90	26.20	0.00	107.20	102.60	35.80	0.00	101.10	101.00	
17	13.80	4.30	105.50	105.70	107.50	108.10	25.70	0.00	107.50	102.40	27.30	0.00	100.40	101.00	
18	14.10	4.40	105.60	105.20	107.30	108.00	27.00	0.00	107.70	102.20	26.90	0.00	100.80	100.90	
19	13.80	4.30	105.30	104.50	106.80	107.70	27.80	0.00	107.20	102.70	27.10	0.00	100.90	100.50	
20	14.00	4.40	105.30	104.00	106.20	106.90	41.20	0.00	107.70	102.80	33.70	0.00	101.10	100.40	
21	13.80	4.30	105.20	103.30	105.70	106.00	41.90	0.00	106.60	102.70	37.40	0.00	101.00	100.20	
22	14.00	4.40	105.10	102.80	105.40	105.20	41.70	0.00	106.20	102.50	37.30	0.00	101.10	100.00	
23	13.80	4.30	105.10	102.30	105.10	104.50	42.90	0.00	106.10	102.40	28.30	0.00	101.10	99.90	
24	14.00	4.30	105.10	102.00	104.90	103.80	29.10	0.00	104.60	102.10	16.70	0.00	100.60	99.90	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB	WA TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB	WA TAILW.	
1	26.60	0.00	101.30	100.00	24.00	23.40	100.90	114.80	0.00	107.80	107.40	107.40	0.00	108.10	
2	26.20	0.00	101.20	99.90	24.00	23.40	100.90	114.00	0.00	107.70	107.40	107.20	0.00	107.90	
3	14.10	0.00	101.20	99.60	24.10	23.50	100.90	112.90	0.00	107.60	107.40	107.00	0.00	107.80	
4	15.50	0.00	101.20	99.80	24.00	23.40	101.40	112.70	0.00	107.40	107.10	107.00	0.00	107.90	
5	15.70	0.00	101.00	100.20	15.90	15.30	101.20	112.70	0.00	107.00	106.80	106.80	0.00	108.10	
6	14.90	0.00	101.00	99.60	22.10	13.30	101.10	112.70	0.00	107.00	106.70	106.80	0.00	108.00	
7	39.40	0.00	101.00	99.90	22.40	13.30	100.90	112.60	0.00	107.00	106.50	106.70	0.00	108.10	
8	40.30	0.00	101.10	100.20	24.10	13.30	101.20	112.50	0.00	106.90	106.60	106.70	0.00	108.10	
9	45.60	0.00	101.10	100.70	39.10	29.70	102.70	112.80	0.00	107.00	107.30	106.90	0.00	108.40	
10	44.30	0.00	101.10	100.60	43.10	32.20	102.50	112.70	0.00	107.10	107.20	107.00	0.00	108.80	
11	44.50	0.00	101.10	101.10	42.40	32.90	102.30	111.30	0.00	108.20	107.00	107.20	0.00	109.20	
12	45.00	0.00	101.40	101.30	41.30	31.90	102.10	111.30	0.00	109.30	107.20	107.30	0.00	109.90	
13	45.30	0.00	101.40	101.70	23.50	14.20	102.90	111.40	0.00	109.70	107.00	107.50	0.00	110.60	
14	42.60	0.00	101.30	102.70	51.50	42.20	102.80	110.20	0.00	110.10	107.30	107.60	0.00	110.90	
15	29.40	0.00	101.70	102.10	31.80	22.50	103.30	111.50	0.00	111.00	107.60	107.70	0.00	111.00	
16	28.30	0.00	102.30	102.20	48.10	37.10	102.60	111.10	0.00	111.10	107.90	107.80	0.00	111.20	
17	29.40	0.00	101.70	0.00	40.00	30.50	102.60	112.20	0.00	110.20	108.00	108.00	0.00	111.60	
18	29.30	0.00	101.50	102.10	44.30	33.30	102.60	110.30	0.00	110.30	108.50	108.00	0.00	111.90	
19	29.00	0.00	102.20	102.10	24.60	13.70	102.10	111.00	0.00	109.10	108.70	108.00	0.00	112.10	
20	35.50	0.00	102.90	101.50	40.90	30.10	101.50	110.60	0.00	111.70	108.80	108.00	0.00	112.10	
21	38.60	0.00	102.40	101.30	39.40	30.10	101.40	114.70	0.00	111.70	109.10	107.90	0.00	112.10	
22	39.60	0.00	101.50	101.20	39.10	30.70	101.10	115.60	0.00	112.50	110.30	107.90	0.00	112.00	
23	28.30	0.00	101.40	100.70	30.80	30.20	101.00	115.10	0.00	109.90	109.60	107.90	0.00	111.70	
24	14.60	0.00	101.40	100.30	32.20	30.20	102.00	114.80	0.00	110.20	111.10	108.20	0.00	111.50	

15 JUL 2003

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

15 JUL 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	LOWER GRANITE	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.		
1	13.80	4.30	105.20	101.70	104.80	103.30	28.00	0.00	105.30	102.00	21.50	0.00	100.70	100.10	
2	14.00	4.30	105.20	101.40	104.70	102.70	28.60	0.00	104.80	101.90	20.60	0.00	100.80	100.10	
3	13.80	4.30	105.30	101.40	104.70	102.20	28.30	0.00	104.30	101.90	23.10	0.00	100.40	100.00	
4	14.00	4.30	105.30	101.20	104.70	101.90	43.00	1.70	104.80	102.60	33.70	0.00	100.80	100.60	
5	13.80	4.30	105.30	101.10	104.50	101.60	42.20	0.00	104.20	102.40	34.50	0.00	102.10	100.30	
6	14.00	4.30	105.40	100.90	104.50	101.30	38.30	0.00	104.80	102.30	41.00	0.00	102.90	100.10	
7	13.80	4.20	105.30	100.90	104.80	101.40	12.90	7.60	104.70	101.40	41.10	0.00	102.10	100.50	
8	14.00	4.30	105.40	101.30	105.20	101.80	12.90	7.60	104.40	103.00	41.30	0.00	102.40	100.50	
9	13.80	4.20	105.70	101.90	105.70	102.50	12.90	7.60	105.70	108.60	41.30	0.00	102.80	100.80	
10	14.00	4.30	105.80	102.60	106.20	103.40	12.90	7.60	107.00	112.00	41.30	0.00	103.80	101.00	
11	14.00	4.30	105.90	103.40	106.80	104.50	12.90	7.60	106.80	114.20	41.70	0.00	104.40	101.40	
12	13.80	4.20	106.20	104.20	107.20	105.50	12.90	7.60	106.80	114.80	44.10	0.00	105.20	101.60	
13	14.00	4.30	106.30	105.00	107.60	106.60	14.70	7.60	106.90	115.00	45.40	0.00	105.20	101.70	
14	13.70	4.20	106.20	105.70	108.10	107.40	12.90	7.60	105.80	119.30	44.70	0.00	106.10	101.70	
15	14.00	4.30	106.40	106.40	108.30	108.20	12.90	7.60	106.50	119.50	41.60	0.00	104.50	101.60	
16	13.70	4.20	106.30	106.60	108.30	108.60	12.90	7.60	106.90	117.00	32.30	0.00	102.00	101.50	
17	14.00	4.30	106.40	106.50	108.30	108.60	12.90	7.60	106.90	115.90	29.90	0.00	101.60	101.30	
18	13.70	4.20	106.20	106.00	108.20	108.60	12.90	7.60	106.90	117.00	14.10	0.00	100.80	101.10	
19	14.00	4.30	106.00	105.20	107.60	108.00	13.00	8.20	107.60	117.50	13.50	0.00	100.00	101.00	
20	13.70	4.20	105.90	104.40	107.00	107.10	19.70	6.30	107.30	118.70	16.80	0.00	100.10	100.30	
21	14.00	4.30	105.90	103.60	106.30	106.30	46.00	0.00	106.90	110.00	19.90	0.00	100.30	100.00	
22	13.70	4.20	105.70	103.00	105.90	105.50	47.50	0.00	106.20	106.40	38.00	0.00	100.30	99.90	
23	14.00	4.30	105.70	102.30	105.60	104.70	45.90	0.00	105.50	103.70	39.30	0.00	100.50	99.90	
24	13.70	4.20	105.60	101.90	105.50	104.10	46.40	0.00	104.20	103.40	44.00	0.00	100.20	100.40	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB	WA TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB	GAS %SAT	
1	14.80	0.00	101.30	100.20	19.60	19.00	103.00	113.40	0.00	108.30	112.10	108.40	0.00	111.10	
2	14.50	0.00	101.20	100.20	11.80	11.30	101.50	112.90	0.00	108.10	111.80	108.50	0.00	110.80	
3	14.60	0.00	101.20	100.10	12.00	11.40	100.40	112.80	0.00	107.90	111.30	108.60	0.00	110.70	
4	14.70	0.00	101.50	99.90	11.80	11.30	100.70	113.20	0.00	108.40	111.00	108.50	0.00	110.60	
5	30.90	0.00	101.40	99.90	12.10	11.30	98.90	112.40	0.00	107.60	110.60	108.50	0.00	110.70	
6	46.20	0.00	102.10	99.90	23.00	13.60	99.40	112.00	0.00	109.10	110.00	108.40	0.00	110.80	
7	48.30	0.00	102.90	100.00	39.40	30.20	101.70	111.90	0.00	108.80	110.40	108.30	0.00	110.80	
8	53.60	0.00	102.80	100.20	40.90	30.20	101.80	114.50	0.00	108.80	110.30	108.60	0.00	110.60	
9	52.30	0.00	103.00	100.30	44.10	34.70	101.60	115.70	0.00	109.00	110.50	0.00	0.00	110.90	
10	49.70	0.00	103.10	100.90	43.60	32.70	102.60	116.00	0.00	109.30	111.30	109.20	0.00	111.20	
11	40.40	0.00	102.60	101.20	40.70	31.30	102.30	116.30	0.00	113.10	108.30	109.40	0.00	111.80	
12	40.80	0.00	102.70	101.50	28.40	19.00	102.20	114.70	0.00	114.30	108.00	109.60	0.00	112.40	
13	43.90	0.00	103.20	101.70	35.80	25.00	101.80	116.10	0.00	115.50	110.50	109.60	0.00	113.10	
14	47.60	0.00	103.60	102.50	42.50	31.60	101.90	115.50	0.00	115.40	109.00	109.30	0.00	112.20	
15	46.50	0.00	103.50	101.90	47.10	37.80	102.30	115.70	0.00	115.60	110.30	109.20	0.00	114.20	
16	45.20	0.00	103.30	101.90	54.40	45.10	102.00	115.70	0.00	116.40	110.10	109.00	0.00	114.80	
17	44.80	0.00	102.40	101.90	32.10	22.70	102.10	113.70	0.00	116.80	110.10	109.00	0.00	115.00	
18	30.70	0.00	101.20	102.30	53.60	44.40	102.50	112.60	0.00	116.70	109.50	108.80	0.00	115.10	
19	21.20	0.00	101.20	102.10	56.10	45.00	102.80	112.60	0.00	116.10	109.50	108.30	0.00	115.10	
20	13.70	0.00	100.90	101.40	33.70	22.80	101.60	112.80	0.00	116.20	0.00	115.70	108.90	108.30	
21	19.10	0.00	100.40	100.80	31.00	20.10	101.30	112.40	0.00	116.20	0.00	115.10	108.70	108.10	
22	19.40	0.00	100.50	100.30	29.00	20.10	100.90	112.70	0.00	116.60	0.00	107.30	108.00	108.00	
23	20.90	0.00	100.30	100.20	22.20	20.20	101.60	113.40	0.00	116.10	0.00	113.10	108.30	107.50	
24	42.40	0.00	99.90	100.00	23.20	21.20	101.30	113.60	0.00	112.30	107.70	107.10	0.00	112.30	

16 JUL 2003

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

16 JUL 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT FB TAILW.			
1	14.00	4.30	105.60	101.50	105.30	103.40	30.80	0.00	103.70	103.20	33.10	0.00	100.10	99.80	
2	13.70	4.20	105.50	101.20	105.20	102.80	28.80	0.00	103.00	102.60	32.60	0.00	100.00	99.80	
3	14.00	4.30	105.50	101.00	105.00	102.40	44.00	0.00	104.30	103.80	43.80	0.00	99.70	100.10	
4	13.70	4.20	105.40	100.80	104.90	101.90	46.80	0.00	105.00	102.80	40.60	0.00	98.90	99.10	
5	14.00	4.30	105.30	100.60	104.80	101.40	46.70	0.00	104.80	102.30	40.50	0.00	98.60	98.60	
6	13.70	4.20	105.30	100.60	104.70	101.20	46.60	0.00	105.20	102.20	40.40	0.00	98.70	98.30	
7	13.90	4.20	105.50	100.50	105.00	101.30	48.90	0.00	104.70	101.90	41.10	0.00	98.80	98.40	
8	13.70	4.20	105.40	101.00	105.40	101.80	46.60	0.00	105.50	101.90	46.30	0.00	98.40	98.50	
9	14.00	4.20	105.60	101.60	105.90	102.40	47.10	0.00	105.00	101.90	48.10	0.00	98.30	98.50	
10	13.70	4.20	105.80	102.10	106.30	103.40	48.90	0.00	104.60	101.80	46.90	0.00	98.50	98.50	
11	14.00	4.20	105.80	102.80	106.90	104.40	35.00	0.00	102.60	101.90	46.10	0.00	98.40	98.60	
12	13.70	4.20	106.00	103.60	107.40	105.40	32.00	0.00	102.70	101.60	45.50	0.00	98.20	98.80	
13	14.00	4.20	105.90	104.40	107.70	106.50	31.50	0.00	102.00	101.40	35.30	0.00	98.50	98.80	
14	13.70	4.10	105.90	105.00	108.10	107.30	31.50	0.00	102.20	101.40	32.00	0.00	99.10	98.80	
15	14.00	4.20	105.90	105.40	108.10	108.00	31.50	0.00	102.70	101.30	31.70	0.00	99.00	98.80	
16	13.70	4.10	105.90	105.70	108.20	108.40	31.40	0.00	103.40	101.40	31.70	0.00	99.50	98.60	
17	13.90	4.20	105.80	105.60	108.00	108.60	31.70	0.00	103.20	101.40	33.00	0.00	99.40	98.80	
18	13.70	4.10	105.70	105.10	107.90	108.50	45.70	0.00	103.10	101.80	31.50	0.00	99.30	98.70	
19	13.90	4.20	105.40	104.40	107.40	108.10	49.30	0.00	103.30	101.60	32.70	0.00	99.00	98.50	
20	13.70	4.10	105.40	103.70	106.50	107.30	47.40	0.00	103.90	101.60	48.60	0.00	99.20	98.70	
21	13.90	4.20	105.40	103.00	105.90	106.40	48.30	0.00	104.40	101.40	55.70	0.00	99.10	98.70	
22	13.70	4.10	105.30	102.30	105.50	105.50	47.50	0.00	103.20	101.20	55.80	0.00	98.90	98.60	
23	13.90	4.20	105.20	101.90	105.30	104.80	38.70	0.00	102.60	100.90	56.10	0.00	98.90	98.40	
24	13.70	4.10	105.00	101.40	105.10	104.10	27.70	0.00	102.30	101.20	45.80	0.00	99.00	98.40	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT FB TAILW.	TOTAL DISCH KCFS	SPILL OR KCFS	GAS %SAT WA FB	TAILW.	GAS % SAT	
1	41.50	0.00	100.10	99.70	35.70	35.10	101.20	112.80	0.00	100.70	0.00	110.80	107.30	107.00	111.60
2	39.80	0.00	100.20	99.50	44.00	43.40	102.10	113.70	0.00	125.40	0.00	110.30	107.50	106.90	111.30
3	40.10	0.00	100.30	99.20	45.90	45.30	101.60	114.70	0.00	156.80	0.00	110.40	106.70	107.20	111.00
4	39.60	0.00	99.80	99.00	47.40	45.30	101.20	115.00	0.00	150.80	0.00	109.80	106.90	106.70	110.60
5	39.90	0.00	99.70	98.90	45.60	44.40	101.00	115.20	0.00	157.00	0.00	109.30	106.90	106.50	110.30
6	40.50	0.00	99.70	98.60	32.90	1.30	101.10	115.20	0.00	151.30	0.00	108.20	106.70	106.60	110.00
7	40.20	0.00	99.50	98.60	39.00	0.00	100.60	109.40	0.00	161.70	0.00	107.30	107.40	106.60	109.80
8	40.40	0.00	99.30	98.50	39.60	0.00	100.70	102.30	0.00	161.70	0.00	106.90	108.40	106.70	110.00
9	45.40	0.00	99.30	98.70	44.20	0.00	101.20	101.60	0.00	162.80	0.00	107.40	107.30	106.90	109.90
10	47.70	0.00	99.30	99.10	45.10	0.00	101.20	101.60	0.00	163.70	0.00	108.60	107.60	106.90	110.10
11	46.90	0.00	99.30	99.20	45.90	0.00	101.40	101.70	0.00	164.40	0.00	109.10	107.50	106.90	110.70
12	46.90	0.00	99.60	99.30	44.50	0.00	101.20	102.20	0.00	163.40	0.00	109.10	107.30	107.00	111.20
13	43.10	0.00	99.00	99.60	45.90	0.00	100.80	102.40	0.00	162.00	0.00	109.80	107.60	107.30	111.90
14	41.90	0.00	99.20	99.70	42.10	0.00	100.70	102.20	0.00	162.80	0.00	110.10	107.60	107.50	112.80
15	35.40	0.00	100.50	99.90	31.60	0.00	101.50	102.70	0.00	163.40	0.00	110.20	107.60	107.50	113.40
16	32.00	0.00	100.00	100.80	31.50	0.00	102.30	103.10	0.00	163.70	0.00	109.60	107.80	107.60	113.70
17	32.00	0.00	100.50	100.20	31.10	0.00	101.70	102.40	0.00	163.40	0.00	110.60	107.80	107.80	114.00
18	32.00	0.00	101.00	100.30	32.60	0.00	101.40	102.30	0.00	162.50	0.00	110.50	108.30	107.80	114.20
19	32.70	0.00	100.20	100.30	32.90	0.00	101.10	102.00	0.00	161.70	0.00	109.90	108.60	107.80	114.00
20	49.50	0.00	101.20	100.00	42.60	0.00	101.60	101.90	0.00	161.40	0.00	109.80	108.60	107.70	113.60
21	56.00	0.00	101.30	99.60	47.70	0.00	102.80	101.60	0.00	161.20	0.00	110.20	108.40	107.80	113.10
22	62.50	0.00	101.00	99.70	63.20	0.00	102.00	101.60	0.00	161.40	0.00	109.70	108.20	107.70	112.40
23	62.90	0.00	100.00	99.30	61.70	0.00	103.00	101.40	0.00	161.30	0.00	109.40	108.30	107.50	111.80
24	55.50	0.00	99.70	99.10	61.30	0.00	102.90	101.40	0.00	160.70	0.00	108.30	108.00	107.60	111.00

17 JUL 2003

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

17 JUL 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT FB TAILW.			
1	13.90	4.20	105.00	101.20	104.90	103.40	24.10	0.00	101.60	100.60	29.50	0.00	99.00	98.30	
2	13.70	4.20	105.00	100.80	104.70	102.80	18.30	0.00	101.50	100.50	28.40	0.00	98.90	98.20	
3	14.20	4.40	105.10	100.70	104.60	102.20	16.60	0.00	100.70	100.40	14.60	0.00	98.40	98.00	
4	13.90	4.40	105.10	100.60	104.50	101.70	16.60	0.00	101.20	100.20	12.70	0.00	98.10	98.00	
5	14.20	4.50	105.10	100.50	104.50	101.20	16.90	0.00	100.40	100.10	12.70	0.00	98.20	97.80	
6	13.90	4.40	105.00	100.30	104.40	100.80	32.30	0.00	101.30	100.10	12.80	0.00	98.10	97.70	
7	14.20	4.40	105.10	100.40	104.60	100.90	46.60	0.00	101.70	100.40	20.50	0.00	98.30	98.00	
8	13.90	4.40	105.10	100.60	105.00	101.40	47.20	0.00	101.60	100.50	37.90	0.00	98.80	98.40	
9	14.20	4.40	105.40	101.10	105.50	102.10	47.10	0.00	102.30	100.60	48.90	0.00	99.10	98.50	
10	13.90	4.40	105.40	101.80	106.10	103.10	47.10	0.00	102.60	100.70	50.60	0.00	99.40	98.60	
11	14.20	4.40	105.60	102.60	106.60	104.10	37.20	0.00	102.20	100.80	41.50	0.00	99.60	98.90	
12	13.90	4.40	105.40	103.40	107.10	105.10	31.30	0.00	102.10	101.00	40.50	0.00	99.50	99.20	
13	14.20	4.40	105.50	104.10	107.50	106.10	31.30	0.00	102.80	101.20	36.20	0.00	99.70	99.40	
14	13.90	4.30	105.70	104.90	107.70	106.80	31.50	0.00	103.30	101.40	30.80	0.00	99.70	99.80	
15	14.20	4.40	105.70	105.40	107.80	107.50	33.70	0.00	104.60	102.00	30.40	0.00	100.60	100.00	
16	13.90	4.30	105.60	105.70	108.00	108.00	31.50	0.00	105.30	101.80	32.00	0.00	101.60	99.90	
17	14.20	4.40	105.50	105.60	107.90	108.30	31.60	0.00	105.90	101.90	30.60	0.00	101.10	100.10	
18	13.90	4.30	105.40	105.10	107.60	108.20	31.80	0.00	105.50	102.10	30.60	0.00	101.10	100.20	
19	14.20	4.40	105.30	104.40	107.10	107.80	38.10	0.00	106.20	102.50	35.20	0.00	103.30	100.10	
20	13.90	4.30	105.30	103.70	106.50	107.10	38.50	0.00	106.80	102.10	34.50	0.00	103.50	100.20	
21	14.10	4.40	105.00	103.00	105.70	106.30	38.30	0.00	106.80	102.00	34.40	0.00	102.20	100.10	
22	14.10	4.40	105.10	102.30	105.30	105.40	30.50	0.00	106.70	102.20	30.10	0.00	102.40	99.90	
23	14.10	4.40	105.00	101.90	105.10	104.50	25.00	0.00	106.20	102.00	19.00	0.00	103.30	99.70	
24	13.90	4.30	105.00	101.40	104.90	103.80	17.20	0.00	104.70	101.70	18.80	0.00	102.40	99.50	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT FB TAILW.			
1	54.80	0.00	100.00	98.90	0.00	102.80	101.10	160.40	0.00	108.70	107.80	107.70	0.00	110.50	
2	29.10	0.00	100.40	98.70	0.00	101.20	101.00	160.20	0.00	108.10	108.40	107.60	0.00	110.20	
3	28.00	0.00	100.30	99.20	0.00	100.60	100.90	160.40	0.00	108.50	108.30	107.70	0.00	110.00	
4	26.30	0.00	100.00	98.50	0.00	100.20	100.80	162.10	0.00	108.30	108.40	107.60	0.00	109.90	
5	14.20	0.00	100.00	98.40	0.00	99.80	100.80	162.20	0.00	107.90	108.50	107.70	0.00	109.90	
6	13.80	0.00	100.00	98.10	0.00	99.80	100.60	161.50	0.00	107.70	108.30	107.50	0.00	109.70	
7	13.60	0.00	99.90	98.30	0.00	100.00	100.50	162.10	0.00	107.60	108.40	107.60	0.00	109.60	
8	14.20	0.00	100.00	98.40	0.00	100.20	100.60	143.20	0.00	107.00	108.50	107.70	0.00	109.80	
9	29.70	0.00	100.10	98.80	0.00	100.50	101.90	110.90	0.00	107.10	108.30	107.80	0.00	109.90	
10	44.00	0.00	100.40	99.30	0.00	100.50	101.70	111.50	0.00	107.90	109.30	108.20	0.00	110.40	
11	49.70	0.00	100.80	99.50	0.00	101.80	102.60	121.50	0.00	110.10	108.80	108.40	0.00	111.00	
12	46.80	0.00	100.90	99.80	0.00	102.80	103.30	109.80	0.00	109.40	108.60	108.60	0.00	111.70	
13	46.20	0.00	100.90	100.50	0.00	102.10	102.20	137.90	0.00	111.70	108.60	109.00	0.00	112.20	
14	37.20	0.00	101.80	100.70	0.00	102.80	102.00	145.70	0.00	109.80	108.70	108.90	0.00	112.70	
15	32.10	0.00	102.50	102.00	0.00	104.60	101.90	156.20	0.00	109.20	109.30	108.90	0.00	113.00	
16	32.30	0.00	102.30	101.60	0.00	104.80	102.10	160.30	0.00	109.00	110.60	109.20	0.00	113.30	
17	30.00	0.00	101.90	101.20	0.00	104.40	102.30	160.30	0.00	110.00	111.90	109.20	0.00	113.30	
18	31.50	0.00	102.00	101.80	0.00	103.50	102.50	160.80	0.00	109.10	113.30	109.20	0.00	113.40	
19	34.70	0.00	101.50	101.00	0.00	103.60	102.10	161.00	0.00	108.90	114.30	109.40	0.00	113.40	
20	34.90	0.00	102.50	100.60	0.00	103.40	2.70	161.60	0.00	108.80	113.80	109.50	0.00	113.40	
21	34.60	0.00	103.20	100.40	0.00	103.70	32.00	161.80	0.00	114.70	113.20	109.40	0.00	113.10	
22	28.10	0.00	102.70	100.10	0.00	104.10	32.00	161.90	0.00	114.90	112.30	109.00	0.00	112.80	
23	16.60	0.00	102.50	99.90	0.00	102.20	24.10	163.00	0.00	114.10	112.10	109.20	0.00	112.50	
24	16.20	0.00	101.90	99.80	0.00	101.10	113.60	161.80	0.00	113.20	112.20	109.40	0.00	112.00	

18 JUL 2003

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

18 JUL 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	LOWER GRANITE	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.		
1	14.10	4.40	105.10	101.10	104.70	103.10	16.50	0.00	104.60	101.50	18.70	0.00	102.00	99.30	
2	13.90	4.30	104.90	100.80	104.50	102.60	16.20	0.00	104.00	101.50	18.00	0.00	101.70	99.20	
3	14.10	4.40	104.90	100.60	104.50	102.00	16.10	0.00	103.90	101.40	18.40	0.00	101.30	99.50	
4	13.90	4.30	104.90	100.50	104.30	101.60	23.90	0.00	104.10	101.80	18.10	0.00	100.80	99.20	
5	14.10	4.40	104.80	100.30	104.40	101.20	28.70	0.00	104.60	101.60	20.30	0.00	100.60	99.00	
6	13.90	4.30	104.80	100.40	104.30	100.80	29.30	0.00	105.20	101.70	26.10	0.00	100.70	99.80	
7	14.10	4.40	104.90	100.30	104.60	100.90	38.20	0.00	105.50	103.40	40.00	0.00	100.80	99.50	
8	13.90	4.30	104.90	100.70	105.00	101.30	42.70	0.00	105.60	102.10	42.20	0.00	101.80	100.00	
9	14.10	4.40	105.10	101.40	105.50	102.00	42.60	0.00	105.80	102.20	44.10	0.00	101.30	99.90	
10	13.90	4.30	105.30	102.10	106.20	103.00	42.60	0.00	106.30	102.50	44.30	0.00	101.80	100.10	
11	14.10	4.40	105.60	102.90	106.70	104.00	44.20	0.00	106.60	102.60	44.30	0.00	101.50	100.30	
12	13.90	4.30	105.50	103.70	107.30	105.10	42.40	0.00	106.80	103.00	44.30	0.00	101.70	100.50	
13	14.10	4.30	105.60	104.60	107.60	106.10	41.40	0.00	107.50	103.10	44.00	0.00	102.00	100.70	
14	13.80	4.30	105.60	105.20	107.90	107.20	31.70	0.00	107.60	103.20	43.70	0.00	102.50	100.90	
15	14.10	4.30	105.70	105.90	108.10	107.80	31.80	0.00	106.80	103.20	45.30	0.00	102.20	101.20	
16	13.80	4.30	105.60	106.10	108.30	108.30	33.30	0.00	106.50	103.30	34.20	0.00	102.70	101.30	
17	14.10	4.30	105.70	106.00	108.20	108.60	32.20	0.00	106.50	103.40	31.00	0.00	103.40	101.40	
18	13.80	4.30	105.60	105.50	108.00	108.50	31.50	0.00	105.60	103.30	30.70	0.00	104.60	101.30	
19	14.10	4.30	105.40	104.80	107.40	108.10	33.20	0.00	106.70	103.40	30.60	0.00	105.20	101.30	
20	13.80	4.20	105.40	103.90	106.60	107.40	31.50	0.00	106.80	103.20	33.00	0.00	105.30	101.10	
21	14.10	4.30	105.20	103.30	106.00	106.50	31.60	0.00	107.00	103.00	40.40	0.00	105.80	101.20	
22	13.80	4.20	105.20	102.60	105.60	105.60	39.00	0.00	107.20	103.30	49.20	0.00	105.70	100.90	
23	14.10	4.30	105.00	102.10	105.20	104.80	39.20	0.00	107.80	103.30	36.80	0.00	105.60	100.80	
24	13.80	4.20	105.10	101.70	105.10	104.00	32.70	0.00	107.70	103.40	25.40	0.00	104.60	100.80	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB	WA TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB	GAS % SAT	
1	18.10	0.00	102.80	99.70	14.20	13.60	100.70	113.50	0.00	112.30	112.00	109.40	0.00	111.40	
2	17.50	0.00	102.30	99.50	14.00	13.40	99.90	112.70	0.00	112.40	111.70	109.20	0.00	110.90	
3	18.00	0.00	102.00	99.30	14.00	13.40	100.10	111.50	0.00	112.00	110.90	109.10	0.00	110.70	
4	19.50	0.00	101.70	99.90	14.00	13.40	100.20	110.90	0.00	109.00	110.40	109.20	0.00	110.40	
5	18.00	0.00	101.00	101.00	15.10	13.20	100.10	110.70	0.00	107.90	109.80	109.10	0.00	109.90	
6	18.00	0.00	100.90	99.20	20.90	11.70	100.70	110.90	0.00	107.70	109.80	108.70	0.00	109.60	
7	38.70	0.00	101.50	99.40	38.00	28.80	102.00	111.10	0.00	107.20	109.20	108.50	0.00	109.40	
8	43.50	0.00	101.20	100.30	38.90	28.20	101.40	112.40	0.00	108.20	108.90	108.50	0.00	109.10	
9	49.70	0.00	100.80	100.20	42.00	0.80	103.60	113.70	0.00	110.40	109.00	108.60	0.00	109.40	
10	52.70	0.00	101.70	100.80	50.40	0.00	103.60	103.80	0.00	110.80	108.80	108.70	0.00	109.80	
11	50.10	0.00	101.30	101.20	50.10	0.00	104.20	103.10	0.00	111.10	108.70	108.90	0.00	110.30	
12	50.30	0.00	102.20	101.60	51.60	0.00	103.90	101.90	0.00	112.70	108.50	109.00	0.00	110.80	
13	52.00	0.00	102.60	102.20	52.30	0.00	102.50	102.00	0.00	112.30	108.50	109.20	0.00	111.40	
14	50.50	0.00	105.00	102.10	45.70	0.00	102.80	102.60	0.00	113.10	108.40	109.10	0.00	112.00	
15	50.20	0.00	105.40	102.30	45.20	0.00	103.10	102.10	0.00	114.30	108.80	109.00	0.00	112.40	
16	49.90	0.00	106.40	102.50	41.80	0.00	103.30	102.20	0.00	113.40	108.80	109.20	0.00	112.70	
17	43.20	0.00	105.80	103.40	39.60	0.00	103.60	102.60	0.00	113.80	114.70	109.40	0.00	112.80	
18	31.30	0.00	103.40	102.30	39.90	0.00	103.00	102.10	0.00	109.90	114.00	109.20	0.00	112.90	
19	29.50	0.00	101.50	102.00	32.00	0.00	103.20	102.00	0.00	108.90	114.00	109.30	0.00	112.80	
20	29.80	0.00	101.40	101.40	29.40	0.90	102.60	101.70	0.00	116.30	0.00	111.40	113.50	109.00	
21	41.90	0.00	101.50	101.00	30.10	29.30	101.30	101.80	0.00	116.00	0.00	115.50	114.00	108.90	
22	53.30	0.00	102.50	101.00	30.60	30.00	101.80	104.00	0.00	114.50	0.00	114.40	113.40	108.60	
23	42.40	0.00	102.50	100.70	30.70	30.10	102.00	112.80	0.00	113.20	112.60	108.30	0.00	112.10	
24	32.50	0.00	101.10	100.40	31.30	30.60	101.60	114.00	0.00	113.20	111.70	108.30	0.00	111.80	

19 JUL 2003

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

19 JUL 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.			
1	14.10	4.30	104.90	101.30	104.90	103.40	19.70	0.00	107.40	103.00	16.10	0.00	103.20	100.50	
2	13.80	4.20	105.00	101.10	104.60	102.80	16.50	0.00	106.70	102.90	15.60	0.00	102.20	100.20	
3	14.10	4.30	104.80	101.00	104.60	102.20	16.30	0.00	106.10	102.70	15.30	0.00	101.80	99.90	
4	13.80	4.20	104.90	100.80	104.40	101.80	16.30	0.00	105.70	102.60	16.50	0.00	101.50	99.70	
5	14.10	4.30	104.90	100.70	0.00	101.30	16.40	0.00	105.40	102.40	16.50	0.00	101.60	99.70	
6	13.80	4.20	104.80	100.50	104.40	101.00	16.30	0.00	104.90	102.40	15.60	0.00	101.80	99.80	
7	14.10	4.30	104.90	100.40	104.60	101.00	27.60	0.00	105.10	102.50	28.20	0.00	102.00	101.30	
8	13.80	4.20	105.00	100.90	105.00	101.50	32.40	0.00	105.30	102.70	31.60	0.00	102.30	101.40	
9	14.00	4.30	105.10	101.50	105.70	102.20	42.30	0.00	106.40	103.20	32.10	0.00	102.80	101.00	
10	13.80	4.20	105.40	102.20	106.20	103.20	42.90	0.00	106.80	103.10	39.90	0.00	103.10	101.20	
11	14.00	4.30	105.40	103.00	106.80	104.20	45.30	0.00	107.00	103.30	38.30	0.00	102.20	101.50	
12	13.80	4.20	105.70	103.90	107.40	105.30	42.60	0.00	106.80	103.40	41.10	0.00	103.90	101.40	
13	14.00	4.30	105.60	104.70	107.90	106.30	34.20	0.00	106.70	103.50	40.30	0.00	103.80	101.50	
14	13.80	4.20	105.70	105.40	108.20	107.20	31.10	0.00	106.20	103.50	38.40	0.00	103.20	101.60	
15	14.00	4.30	105.80	105.90	108.40	107.90	32.70	0.00	107.70	103.40	33.00	0.00	102.80	101.60	
16	13.80	4.20	105.80	106.10	108.40	108.30	32.80	0.00	107.60	103.50	34.50	0.00	102.80	102.00	
17	14.00	4.30	105.80	106.00	108.30	108.60	27.90	0.00	108.40	103.50	30.50	0.00	103.10	101.90	
18	13.80	4.20	105.60	105.40	108.10	108.50	30.20	0.00	108.70	103.60	33.30	0.00	104.70	102.00	
19	14.00	4.20	105.40	104.70	107.40	108.10	30.50	0.00	108.20	103.50	33.20	0.00	104.70	102.30	
20	13.80	4.20	105.40	104.00	106.70	107.30	40.50	0.00	108.90	104.00	43.30	0.00	104.40	102.00	
21	14.00	4.20	105.20	103.20	106.10	106.40	42.20	0.00	108.10	103.50	43.60	0.00	105.30	101.70	
22	13.80	4.20	105.20	102.60	105.70	105.60	44.10	0.00	107.60	103.40	45.90	0.00	105.80	101.80	
23	14.00	4.20	105.10	101.90	105.30	104.70	42.10	0.00	106.70	103.40	46.80	0.00	106.10	101.80	
24	13.80	4.20	105.00	101.60	105.10	104.00	32.10	0.00	106.30	103.40	37.30	0.00	106.30	102.00	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL OR KCFS	GAS %SAT. WA FB TAILW.	TOTAL DISCH KCFS	GAS %SAT. SAT	
1	21.50	0.00	100.90	100.20	30.70	30.10	102.60	113.80	0.00	93.20	0.00	112.90	112.20	108.40	111.50
2	14.20	0.00	101.00	99.80	30.70	30.10	101.40	113.80	0.00	94.40	0.00	112.30	112.60	108.50	111.20
3	14.10	0.00	100.70	99.50	30.60	30.00	101.60	114.00	0.00	97.80	0.00	111.90	112.70	108.60	110.90
4	13.80	0.00	100.50	99.20	27.30	26.70	101.20	114.20	0.00	116.30	0.00	111.50	111.80	108.30	110.60
5	13.80	0.00	100.20	99.00	16.30	14.90	100.40	114.00	0.00	116.00	0.00	111.80	111.80	108.00	110.30
6	14.30	0.00	100.30	98.90	19.10	9.80	99.40	114.00	0.00	113.80	0.00	110.70	111.40	107.80	110.10
7	21.10	0.00	100.50	98.80	9.30	0.10	99.90	113.90	0.00	123.70	0.00	109.90	110.70	107.80	109.80
8	33.10	0.00	100.60	99.10	20.30	10.60	100.70	113.00	0.00	121.30	0.00	109.20	110.00	107.90	109.80
9	35.00	0.00	101.50	99.40	20.60	0.00	102.30	112.00	0.00	121.00	0.00	110.60	110.60	108.10	110.20
10	35.10	0.00	101.20	99.70	25.50	0.00	102.20	108.90	0.00	120.30	0.00	112.80	109.80	108.10	110.60
11	35.20	0.00	102.20	100.00	24.40	0.00	101.70	106.10	0.00	120.10	0.00	113.60	109.30	108.30	111.20
12	39.10	0.00	102.90	100.20	29.60	0.00	102.30	103.70	0.00	119.50	0.00	114.20	109.80	108.40	111.70
13	36.00	0.00	102.30	100.40	32.90	0.00	103.30	102.30	0.00	119.60	0.00	114.90	109.80	108.50	112.60
14	37.50	0.00	102.30	100.80	34.80	0.00	105.00	102.30	0.00	120.40	0.00	115.70	109.70	108.60	112.90
15	39.40	0.00	102.20	100.60	36.60	0.00	105.70	103.30	0.00	138.60	0.00	117.00	109.50	108.80	113.00
16	39.30	0.00	101.70	100.70	36.60	0.00	105.80	102.30	0.00	144.40	0.00	116.60	109.60	108.90	113.10
17	31.20	0.00	101.50	101.10	35.20	0.00	105.80	102.70	0.00	144.70	0.00	113.70	109.70	109.20	113.20
18	34.70	0.00	102.00	101.10	35.70	0.00	105.40	102.70	0.00	145.30	0.00	118.30	109.60	109.10	113.10
19	34.30	0.00	99.90	100.70	36.70	0.00	105.40	101.70	0.00	144.90	0.00	118.00	110.00	109.10	113.20
20	44.50	0.00	101.40	100.70	37.80	1.20	104.50	101.40	0.00	144.10	0.00	118.60	111.10	109.10	113.10
21	45.20	0.00	99.50	99.90	40.00	37.50	101.10	101.20	0.00	145.50	0.00	117.30	110.90	109.10	113.00
22	48.40	0.00	99.00	99.90	42.10	40.00	100.20	110.70	0.00	145.80	0.00	117.10	110.50	108.60	112.90
23	48.90	0.00	99.20	99.50	40.60	40.00	100.50	115.70	0.00	135.10	0.00	116.30	108.70	108.40	112.80
24	41.40	0.00	99.40	99.30	41.30	40.80	100.70	115.80	0.00	127.40	0.00	115.80	108.10	108.00	112.60

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20 JUL 2003

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

20 JUL 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	LITTLE GOOSE	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.		
1	14.00	4.20	105.00	101.20	104.90	103.30	25.80	0.00	106.40	103.20	28.00	0.00	105.90	101.60	
2	13.80	4.10	105.00	100.90	104.70	102.70	24.50	0.00	106.20	103.00	26.80	0.00	105.40	101.30	
3	14.00	4.20	104.90	100.70	104.50	102.10	16.30	0.00	105.60	102.80	17.10	0.00	104.00	101.00	
4	13.80	4.10	105.00	100.40	104.50	101.70	16.20	0.00	104.80	102.80	16.60	0.00	102.20	100.80	
5	14.00	4.20	104.90	100.20	104.40	101.20	16.40	0.00	104.90	102.60	16.60	0.00	101.30	100.80	
6	13.70	4.10	104.80	100.10	104.20	100.80	16.50	0.00	104.80	102.40	15.00	0.00	100.70	100.70	
7	14.00	4.20	104.60	100.00	104.50	100.70	24.20	0.00	105.00	102.70	14.90	0.00	100.40	100.80	
8	13.80	4.10	104.70	100.40	104.90	101.30	30.20	0.00	105.00	102.60	17.30	0.00	100.50	100.90	
9	14.00	4.20	105.00	101.10	105.40	102.00	37.20	0.00	104.40	103.90	30.10	0.00	101.20	101.70	
10	13.70	4.10	105.10	101.80	106.00	102.90	39.50	0.00	103.80	103.20	37.00	0.00	101.30	101.50	
11	14.00	4.20	105.30	102.50	106.70	103.90	37.80	0.00	103.60	103.00	42.70	0.00	102.00	102.10	
12	13.70	4.10	105.20	103.30	107.20	104.90	37.60	0.00	103.90	102.90	44.60	0.00	101.90	102.40	
13	14.00	4.20	105.20	104.00	107.60	106.10	39.80	0.00	104.30	103.00	43.90	0.00	102.30	102.50	
14	13.70	4.10	105.30	104.60	107.90	106.90	37.50	0.00	104.60	103.10	42.60	0.00	102.90	102.30	
15	14.00	4.20	105.40	105.00	108.00	107.60	37.50	0.00	105.40	103.20	42.50	0.00	102.90	102.00	
16	13.70	4.10	105.20	105.40	108.00	108.20	39.30	0.00	105.00	103.50	40.50	0.00	102.40	102.00	
17	14.00	4.20	105.10	105.20	107.90	108.40	31.70	0.00	104.30	103.30	37.40	0.00	101.80	101.90	
18	13.70	4.10	105.20	104.80	107.70	108.40	31.30	0.00	105.10	103.20	35.60	0.00	101.90	101.80	
19	14.00	4.20	105.10	104.10	107.00	108.10	31.30	0.00	104.50	103.20	31.50	0.00	102.10	101.50	
20	13.70	4.10	105.10	103.40	106.30	107.20	31.10	0.00	103.80	103.10	31.40	0.00	102.10	101.20	
21	14.00	4.20	104.90	102.70	105.70	106.40	33.40	0.00	104.00	103.20	31.40	0.00	102.00	100.90	
22	13.70	4.10	104.80	102.10	105.30	105.50	32.60	0.00	104.90	103.40	31.30	0.00	101.90	100.70	
23	13.90	4.20	104.80	101.60	104.90	104.60	30.00	0.00	104.50	102.90	31.20	0.00	102.00	100.50	
24	13.70	4.10	104.80	101.10	104.70	104.10	29.30	0.00	104.50	102.90	30.80	0.00	102.00	100.30	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. OR FB	WA TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB	GAS %SAT	
1	37.60	0.00	100.30	99.10	40.60	40.00	99.70	115.60	0.00	113.80	107.90	108.00	0.00	112.20	
2	27.30	0.00	100.20	98.80	42.10	40.00	99.50	115.70	0.00	112.50	108.10	107.60	0.00	111.90	
3	18.90	0.00	99.70	98.60	27.40	26.80	99.80	115.90	0.00	111.70	108.10	107.60	0.00	111.70	
4	16.50	0.00	99.70	98.20	24.00	23.50	99.60	115.60	0.00	111.40	107.50	107.70	0.00	111.30	
5	16.20	0.00	99.40	98.20	16.50	13.40	99.20	114.80	0.00	111.30	107.30	107.90	0.00	111.20	
6	15.80	0.00	99.30	97.90	20.60	11.20	98.80	113.30	0.00	112.00	111.00	107.90	0.00	110.80	
7	15.30	0.00	99.00	101.60	20.30	11.00	98.10	112.80	0.00	111.80	110.80	108.00	0.00	110.50	
8	15.40	0.00	98.80	99.20	20.30	9.10	98.10	112.40	0.00	111.80	111.40	108.00	0.00	110.60	
9	21.60	0.00	98.70	98.50	22.00	0.00	100.50	111.30	0.00	109.10	112.10	108.10	0.00	110.40	
10	33.00	0.00	99.00	98.90	23.90	0.00	100.90	110.80	0.00	111.30	111.70	108.30	0.00	110.70	
11	40.00	0.00	98.70	99.00	28.10	0.00	99.90	105.40	0.00	111.30	111.20	108.30	0.00	110.80	
12	42.20	0.00	98.40	99.00	35.60	0.00	101.90	101.90	0.00	112.50	110.50	108.40	0.00	111.10	
13	45.70	0.00	98.90	100.50	42.10	0.00	103.30	101.30	0.00	114.20	109.70	108.40	0.00	111.40	
14	47.70	0.00	99.20	101.00	44.20	0.00	104.30	101.20	0.00	115.30	109.10	108.60	0.00	111.70	
15	47.30	0.00	100.50	100.30	44.10	0.00	104.70	100.90	0.00	115.60	111.10	108.80	0.00	111.90	
16	47.30	0.00	100.50	100.60	45.30	0.00	105.20	101.10	0.00	114.90	111.00	109.20	0.00	112.10	
17	45.50	0.00	99.50	99.90	44.60	0.00	106.10	101.30	0.00	115.10	111.30	109.40	0.00	112.20	
18	45.50	0.00	99.30	100.00	43.90	0.00	106.50	101.10	0.00	114.70	111.10	109.40	0.00	112.30	
19	39.60	0.00	99.50	100.30	45.60	0.00	107.10	100.80	0.00	114.90	111.70	109.50	0.00	112.40	
20	39.10	0.00	99.80	100.00	43.40	0.90	104.60	101.00	0.00	115.40	112.00	109.50	0.00	112.40	
21	40.10	0.00	100.30	99.80	44.00	41.70	101.40	100.30	0.00	116.10	111.70	109.30	0.00	112.10	
22	38.90	0.00	99.80	99.60	39.50	38.90	101.00	111.40	0.00	116.10	110.80	108.90	0.00	111.90	
23	31.60	0.00	100.30	99.40	39.20	38.60	99.70	115.30	0.00	115.80	111.20	108.90	0.00	111.70	
24	30.70	0.00	100.40	99.00	25.60	25.00	99.90	115.70	0.00	114.20	111.10	108.80	0.00	111.60	

21 JUL 2003

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

21 JUL 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT FB TAILW.			
1	13.90	4.10	104.80	101.10	104.60	103.30	16.40	0.00	104.30	102.70	15.70	0.00	101.70	100.30	
2	13.70	4.10	104.60	100.70	104.40	102.70	16.60	0.00	104.40	102.70	14.70	0.00	101.40	100.10	
3	13.90	4.10	104.70	100.60	104.40	102.10	28.70	0.00	104.60	102.80	14.80	0.00	101.70	100.10	
4	13.70	4.10	104.70	100.60	104.30	101.70	30.10	0.00	104.60	102.90	14.70	0.00	101.70	100.00	
5	14.00	4.10	104.70	100.50	104.10	101.20	39.90	0.00	104.50	103.20	15.20	0.00	101.50	99.90	
6	13.70	4.10	104.60	100.30	104.10	100.70	44.70	0.00	104.40	102.90	30.40	0.00	101.40	100.80	
7	13.90	4.10	104.50	100.20	104.30	100.90	38.30	0.00	104.20	102.80	41.60	0.00	101.70	100.30	
8	13.70	4.00	104.50	100.60	104.90	101.20	32.30	0.00	104.40	102.80	46.60	0.00	101.90	100.30	
9	13.80	4.10	104.70	101.10	105.40	101.90	31.40	0.00	104.40	103.20	43.20	0.00	102.20	100.40	
10	11.60	4.00	106.30	101.90	106.00	102.90	31.20	0.00	104.20	0.00	41.90	0.00	102.70	100.50	
11	9.80	2.50	105.40	102.60	106.80	103.90	31.20	0.00	105.80	103.10	41.90	0.00	103.70	100.60	
12	7.20	2.40	106.70	0.00	107.80	105.00	30.80	0.00	106.50	103.20	36.30	0.00	103.60	100.90	
13	10.00	2.30	104.90	104.60	108.50	106.00	31.00	0.00	106.70	103.30	36.70	0.00	104.20	101.20	
14	14.10	4.30	111.10	105.30	108.60	107.00	31.10	0.00	106.70	103.40	35.10	0.00	105.20	101.30	
15	13.90	4.20	111.30	105.90	110.10	108.00	31.00	0.00	107.60	103.40	32.70	0.00	105.70	101.50	
16	13.70	3.90	110.40	106.40	0.00	108.70	32.10	0.00	107.70	103.60	33.80	0.00	106.20	101.90	
17	13.10	3.50	109.70	106.30	0.00	108.90	33.20	0.00	108.20	103.80	35.00	0.00	106.70	102.30	
18	13.30	3.50	109.60	105.60	110.70	108.80	39.80	0.00	108.60	104.50	35.20	0.00	107.00	102.60	
19	13.30	3.50	109.40	104.90	110.00	108.40	39.90	0.00	108.20	103.90	40.60	0.00	106.70	102.10	
20	13.10	3.50	109.20	104.20	109.10	107.70	38.90	0.00	108.10	103.70	40.90	0.00	106.10	102.00	
21	13.30	3.50	109.30	103.50	108.40	106.90	31.40	0.00	107.50	103.50	39.20	0.00	105.00	101.80	
22	13.10	3.50	109.20	102.90	108.10	106.10	28.60	0.00	107.60	103.50	29.10	0.00	105.30	101.50	
23	13.30	3.50	109.00	102.30	107.70	105.10	26.60	0.00	107.60	103.20	25.30	0.00	106.40	101.40	
24	13.10	3.50	109.00	102.00	107.60	104.20	26.90	0.00	107.80	103.20	17.10	0.00	105.80	101.10	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT FB TAILW.			
1	15.50	0.00	100.40	98.90	17.90	17.30	100.20	115.40	0.00	100.80	0.00	113.70	110.10	108.90	111.40
2	14.50	0.00	100.10	98.70	11.60	11.00	99.20	114.80	0.00	100.20	0.00	112.30	109.90	109.10	111.00
3	14.70	0.00	100.10	98.80	11.60	11.00	98.80	113.70	0.00	100.00	0.00	111.30	111.20	109.00	110.70
4	14.40	0.00	99.90	98.50	11.60	11.00	99.90	113.00	0.00	95.60	0.00	112.10	110.70	108.90	110.40
5	14.50	0.00	100.00	98.50	12.70	11.20	102.00	112.60	0.00	97.40	0.00	110.20	110.50	108.40	110.30
6	14.50	0.00	100.00	98.50	20.30	11.00	102.50	111.50	0.00	117.30	0.00	110.00	109.40	108.10	110.00
7	15.10	0.00	100.20	98.40	20.40	11.00	102.80	111.50	0.00	136.10	0.00	110.50	109.40	108.10	109.80
8	32.90	0.00	100.80	98.80	20.80	10.10	103.60	111.60	0.00	147.00	0.00	111.40	109.60	108.30	109.70
9	44.90	0.00	101.50	100.20	21.40	0.00	103.50	110.90	0.00	147.30	0.00	112.70	110.30	108.30	109.60
10	50.90	0.00	102.10	100.00	36.70	0.00	104.60	110.50	0.00	147.90	0.00	112.60	110.30	108.50	109.60
11	53.00	0.00	101.50	100.30	44.50	0.00	104.90	103.00	0.00	149.10	0.00	112.80	111.00	108.70	110.10
12	53.00	0.00	100.90	100.80	44.10	0.00	104.30	102.00	0.00	145.60	0.00	114.30	111.10	108.90	110.60
13	53.10	0.00	102.40	101.00	48.60	0.00	102.90	102.30	0.00	146.30	0.00	115.70	110.00	109.20	111.00
14	46.60	0.00	104.10	101.20	47.60	0.00	105.30	103.10	0.00	147.20	0.00	114.60	110.20	109.30	111.30
15	44.90	0.00	105.40	101.30	49.80	0.00	104.60	102.30	0.00	150.10	0.00	116.20	109.90	109.40	111.80
16	42.30	0.00	104.30	101.60	50.10	0.00	104.10	102.20	1.30	151.20	1.30	115.10	109.70	109.50	112.00
17	42.10	0.00	104.00	101.60	48.30	0.00	107.70	102.10	0.00	152.20	0.00	116.10	109.70	109.50	112.10
18	42.10	0.00	103.60	101.80	48.80	0.00	107.40	102.20	0.00	148.00	0.00	115.20	111.00	109.50	112.20
19	40.70	0.00	103.30	101.60	40.20	0.00	107.40	102.40	0.00	157.70	0.00	114.80	111.70	109.70	112.00
20	40.70	0.00	103.50	101.30	38.70	0.20	107.00	101.50	0.00	158.00	0.00	115.90	111.60	109.50	111.90
21	40.70	0.00	104.10	100.90	35.50	32.80	101.70	101.20	0.00	155.80	0.00	116.40	112.90	109.40	111.70
22	29.50	0.00	103.00	100.50	37.00	35.00	101.60	109.10	0.00	155.20	0.00	116.90	111.50	109.10	111.60
23	22.30	0.00	103.10	100.50	19.00	18.40	102.10	114.30	0.00	118.90	0.00	116.30	112.00	109.00	111.50
24	16.50	0.00	103.50	100.10	13.10	11.00	101.90	114.20	0.00	111.80	0.00	115.30	112.30	108.90	111.30

22 JUL 2003

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

22 JUL 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	LOWER GRANITE	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.		
1	13.30	3.50	109.10	101.70	107.40	104.10	26.60	0.00	107.40	103.20	17.50	0.00	106.20	100.90	
2	13.20	3.50	108.90	101.50	107.20	104.00	26.70	0.00	107.20	103.10	15.80	0.00	105.90	100.50	
3	13.20	3.50	108.90	101.40	107.00	103.70	26.70	0.00	107.30	103.00	15.30	0.00	105.60	100.30	
4	13.20	3.50	109.00	101.30	106.90	103.20	28.60	0.00	107.20	103.00	15.50	0.00	105.20	100.10	
5	13.20	3.50	109.00	101.10	106.80	102.70	27.00	0.00	106.90	103.20	15.10	0.00	105.40	100.00	
6	13.20	3.50	109.00	101.00	106.80	102.20	33.90	0.00	107.20	103.20	16.90	0.00	105.50	100.00	
7	13.20	3.50	108.90	101.00	107.20	102.20	40.10	0.00	106.80	103.30	27.00	0.00	105.60	100.40	
8	13.20	3.50	109.00	101.40	107.60	102.70	33.10	0.00	106.70	103.70	39.90	0.00	105.90	100.90	
9	13.20	3.50	109.30	101.80	108.20	103.40	32.00	0.00	107.20	103.50	40.30	0.00	106.40	101.00	
10	13.40	3.50	-999.00	102.40	108.70	104.30	31.60	0.00	107.70	103.50	40.10	0.00	106.30	101.10	
11	13.10	3.50	-999.00	103.30	109.40	105.30	31.50	0.00	108.30	103.70	40.00	0.00	106.50	101.10	
12	13.40	3.50	109.30	103.90	110.00	106.40	30.90	0.00	108.70	103.70	40.90	0.00	106.70	101.30	
13	13.20	3.50	109.60	104.70	110.30	107.30	40.00	0.00	108.90	106.10	38.90	0.00	107.20	101.50	
14	13.40	3.50	109.50	105.40	110.60	108.30	43.50	0.00	109.60	104.20	43.30	0.00	108.00	101.90	
15	13.20	3.50	109.60	105.90	111.00	109.00	44.10	0.00	108.40	104.30	48.40	0.00	108.10	102.10	
16	13.10	3.50	109.60	106.10	111.10	109.50	43.90	0.00	108.40	104.20	50.20	0.00	108.20	102.30	
17	13.40	3.50	109.70	106.00	110.90	109.70	45.40	0.00	109.10	104.30	48.20	0.00	108.50	102.10	
18	13.10	3.50	109.60	105.60	110.70	109.60	44.50	0.00	109.40	104.50	48.20	0.00	108.40	102.20	
19	13.40	3.50	109.50	104.90	110.10	109.20	40.30	0.00	109.00	104.50	48.20	0.00	108.20	102.20	
20	13.10	3.50	109.40	104.30	109.40	108.50	32.00	0.00	109.20	104.20	47.90	0.00	107.80	102.00	
21	13.10	3.50	109.40	103.60	108.70	107.70	32.00	0.00	109.30	104.00	48.00	0.00	107.50	101.90	
22	13.40	3.50	109.20	102.90	108.30	106.80	31.70	0.00	109.00	104.00	43.30	0.00	107.60	101.80	
23	13.10	3.50	109.30	102.50	108.00	106.10	31.80	0.00	108.50	103.80	39.00	0.00	107.50	101.50	
24	13.30	3.50	109.10	102.10	107.80	105.40	31.70	0.00	108.10	103.80	38.10	0.00	107.10	101.30	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB	WA TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB	GAS % SAT	
1	14.00	0.00	103.10	101.30	11.60	11.00	100.40	114.00	0.00	114.80	110.90	109.00	0.00	110.80	
2	14.00	0.00	102.20	99.70	11.60	11.00	99.10	113.00	0.00	113.90	112.50	109.00	0.00	110.20	
3	14.20	0.00	102.10	99.50	11.60	11.00	100.00	111.50	0.00	114.20	112.70	109.00	0.00	109.60	
4	15.50	0.00	103.20	99.50	11.80	11.20	98.90	111.10	0.00	112.90	111.60	109.00	0.00	109.20	
5	14.00	0.00	102.80	99.80	13.10	11.00	100.80	111.10	0.00	112.00	111.10	108.90	0.00	108.80	
6	14.00	0.00	102.00	99.20	18.70	10.50	101.60	111.30	0.00	111.50	110.80	108.60	0.00	108.30	
7	14.60	0.00	102.90	99.10	9.20	0.00	103.20	111.00	0.00	111.40	111.60	108.50	0.00	108.00	
8	28.10	0.00	103.40	99.50	14.00	0.00	102.50	111.00	0.00	110.00	110.80	108.60	0.00	107.90	
9	40.40	0.00	104.00	100.00	28.90	0.00	104.30	111.00	0.40	109.00	110.90	108.80	0.00	108.00	
10	41.90	0.00	104.80	101.60	37.20	0.00	105.20	103.30	0.90	110.20	111.20	109.00	0.00	108.40	
11	40.40	0.00	105.40	101.20	37.80	0.00	105.50	102.70	0.90	112.50	110.50	109.00	0.00	109.00	
12	39.40	0.00	105.50	101.60	43.60	0.00	106.00	102.50	0.00	112.10	110.90	109.30	0.00	109.80	
13	40.70	0.00	105.80	103.00	44.00	0.00	107.40	102.80	1.00	114.90	111.50	109.60	0.00	110.40	
14	44.10	0.00	106.50	102.80	46.30	0.00	109.00	103.30	0.20	114.80	111.90	110.20	0.00	110.90	
15	50.50	0.00	106.30	102.40	45.70	0.00	109.10	102.70	0.90	114.80	110.60	110.10	0.00	111.40	
16	49.90	0.00	107.40	102.50	45.10	0.00	109.10	103.00	0.00	116.80	110.50	110.00	0.00	111.90	
17	49.80	0.00	107.80	102.60	44.70	0.00	109.10	102.50	1.00	116.60	110.30	110.20	0.00	112.30	
18	50.00	0.00	107.50	102.50	44.90	0.00	109.50	102.30	0.10	117.10	110.40	110.10	0.00	112.60	
19	53.80	0.00	105.90	102.50	49.30	0.00	109.70	102.20	0.00	117.50	112.00	110.00	0.00	112.80	
20	55.90	0.00	104.50	102.20	54.70	1.90	109.30	102.10	0.00	116.60	111.70	110.10	0.00	113.00	
21	60.40	0.00	105.20	102.10	57.90	54.60	101.70	102.10	0.00	116.90	115.30	115.40	0.00	113.00	
22	60.20	0.00	103.00	101.90	55.50	54.90	101.10	115.50	0.00	115.40	115.30	110.30	0.00	113.00	
23	59.50	0.00	104.50	101.70	55.80	55.20	100.90	116.40	0.00	115.70	114.70	110.30	0.00	112.60	
24	44.20	0.00	104.60	101.50	55.60	55.00	100.90	116.50	0.00	115.60	114.30	110.30	0.00	112.30	

23 JUL 2003

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

23 JUL 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	LOWER GRANITE	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.		
1	13.10	3.50	109.10	101.70	107.50	104.70	31.20	0.00	108.20	103.80	17.80	0.00	106.20	101.20	
2	13.40	3.50	109.20	101.50	107.40	104.10	16.50	0.00	108.00	105.30	14.80	0.00	106.70	101.40	
3	13.10	3.50	109.10	101.50	107.20	103.50	16.20	0.00	108.00	103.50	13.40	0.00	105.90	101.10	
4	13.40	3.50	108.80	101.30	107.10	103.10	16.50	0.00	107.90	103.40	15.90	0.00	105.00	100.90	
5	13.10	3.50	108.90	101.10	107.10	102.60	16.90	0.00	107.30	103.20	16.90	0.00	103.60	100.80	
6	13.40	3.50	109.20	101.00	107.10	102.30	26.20	0.00	106.60	103.30	26.70	0.00	104.10	100.90	
7	13.20	3.50	109.10	101.10	107.30	102.30	30.50	0.00	106.20	103.40	26.90	0.00	103.50	101.10	
8	13.40	3.50	109.20	101.40	107.60	102.50	38.50	0.00	107.80	104.10	26.90	0.00	103.40	101.10	
9	13.20	3.50	109.30	101.90	108.40	103.20	40.40	0.00	108.10	103.80	26.90	0.00	104.00	101.20	
10	13.20	3.50	109.50	102.60	108.90	104.10	44.50	0.00	108.40	103.80	29.40	0.00	103.40	101.40	
11	13.40	3.50	109.30	103.30	109.60	105.00	45.10	0.00	108.60	104.00	40.80	0.00	103.80	101.70	
12	13.10	3.50	109.40	103.90	110.00	105.90	45.40	0.00	109.30	104.10	43.80	0.00	104.20	102.00	
13	13.40	3.50	109.40	104.50	110.50	106.80	44.10	0.00	109.20	104.10	45.30	0.00	104.20	101.90	
14	13.10	3.50	109.50	105.10	110.90	107.70	40.80	0.00	109.40	104.00	44.10	0.00	104.00	102.10	
15	13.20	3.50	109.30	105.50	111.10	108.60	40.30	0.00	109.30	104.10	41.40	0.00	103.70	102.00	
16	13.40	3.50	109.10	105.70	111.10	109.20	31.80	0.00	109.50	104.40	39.50	0.00	103.80	102.20	
17	13.20	3.50	109.20	105.50	110.90	109.40	30.40	0.00	110.20	104.30	30.90	0.00	103.00	102.30	
18	13.20	3.50	109.10	105.20	110.70	109.50	30.60	0.00	109.70	104.20	30.70	0.00	102.80	102.30	
19	13.40	3.50	109.00	104.60	110.00	109.10	32.40	0.00	109.40	104.10	30.70	0.00	103.00	102.20	
20	13.20	3.50	108.90	103.90	109.10	108.40	35.10	0.00	108.90	104.10	37.40	0.00	103.00	102.00	
21	13.40	3.50	108.90	103.30	108.50	107.40	42.10	0.00	109.10	104.20	43.00	0.00	102.60	102.40	
22	13.20	3.50	108.50	102.70	107.90	106.70	40.40	0.00	109.10	104.00	42.00	0.00	102.50	101.70	
23	13.10	3.50	108.50	102.20	107.70	105.80	24.60	0.00	109.00	104.10	21.30	0.00	102.10	101.60	
24	13.40	3.50	108.60	101.80	107.30	105.20	24.00	0.00	108.90	103.60	21.60	0.00	102.00	101.60	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB	WA TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB	GAS %SAT	
1	28.50	0.00	104.20	101.10	55.50	54.90	101.80	116.40	0.00	113.50	113.00	110.10	0.00	112.20	
2	18.90	0.00	103.50	100.80	48.90	48.30	100.80	116.30	0.00	114.90	112.50	109.80	0.00	112.00	
3	13.90	0.00	102.40	100.50	33.70	31.60	101.70	116.40	0.00	114.00	111.40	109.40	0.00	111.90	
4	13.90	0.00	102.10	100.30	13.30	12.70	100.80	115.80	0.00	114.40	111.00	109.40	0.00	111.70	
5	13.50	0.00	102.20	100.20	12.00	10.30	99.90	115.00	0.00	113.80	109.60	109.30	0.00	111.70	
6	13.80	0.00	101.20	99.90	9.50	0.00	98.70	114.50	0.00	111.20	111.30	109.30	0.00	111.40	
7	26.00	0.00	101.90	99.90	9.40	0.00	99.00	114.00	0.00	109.50	111.70	109.40	0.00	111.20	
8	26.80	0.00	102.50	100.20	10.90	0.00	99.00	113.00	0.00	112.00	111.30	109.50	0.00	111.00	
9	27.50	0.00	102.30	100.50	9.50	0.00	99.90	112.20	0.00	113.00	110.40	109.60	0.00	111.40	
10	26.90	0.00	103.10	100.50	9.40	0.00	100.10	111.90	0.10	113.60	111.30	109.30	0.00	111.70	
11	29.00	0.00	102.00	100.90	15.90	0.00	102.70	109.30	1.90	113.90	111.40	109.40	0.00	112.00	
12	31.20	0.00	102.50	101.20	28.60	0.00	105.20	106.00	0.00	114.40	111.20	109.60	0.00	112.60	
13	45.70	0.00	103.20	102.90	30.70	0.00	106.20	103.70	0.00	114.60	110.80	109.80	0.00	113.10	
14	46.60	0.00	105.00	102.20	40.80	0.00	106.60	102.00	0.00	114.10	110.90	109.80	0.00	113.70	
15	46.20	0.00	102.80	108.10	44.80	0.00	107.00	102.20	1.70	115.00	110.70	109.80	0.00	114.00	
16	36.30	0.00	102.50	103.90	46.20	0.00	107.60	102.00	0.20	115.20	110.60	109.90	0.00	114.20	
17	36.60	0.00	101.90	103.10	44.40	0.00	108.40	102.20	0.00	115.70	110.10	110.00	0.00	114.50	
18	35.00	0.00	103.60	102.40	34.90	0.00	107.90	101.70	0.00	116.00	110.30	110.00	0.00	114.60	
19	30.10	0.00	102.50	102.30	32.50	0.00	106.00	101.60	0.00	115.80	110.50	109.90	0.00	114.50	
20	42.40	0.00	101.30	102.20	37.30	0.50	105.90	101.10	0.00	115.50	110.20	109.80	0.00	114.30	
21	43.60	0.00	102.20	101.90	42.10	38.50	101.60	100.90	0.00	115.50	110.30	109.40	0.00	113.90	
22	42.60	0.00	102.10	101.60	40.80	40.20	101.20	111.20	0.00	115.60	109.70	109.20	0.00	113.70	
23	34.90	0.00	102.20	101.30	40.50	39.90	100.90	115.40	0.00	114.50	109.90	109.20	0.00	113.40	
24	21.80	0.00	101.10	101.20	26.40	25.80	101.00	115.70	0.00	113.70	109.00	109.00	0.00	113.00	

24 JUL 2003

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

24 JUL 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	LITTLE GOOSE	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.		
1	13.20	3.50	108.50	101.50	107.30	104.50	24.20	0.00	108.50	103.50	15.70	0.00	101.70	101.60	
2	13.40	3.50	108.50	101.10	107.10	103.90	24.20	0.00	107.80	103.20	13.80	0.00	101.40	102.30	
3	13.20	3.50	108.40	101.10	106.90	103.40	31.60	0.00	107.10	103.30	19.00	0.00	101.00	101.80	
4	13.20	3.50	108.50	100.90	106.70	102.90	32.00	0.00	106.00	103.20	21.70	0.00	100.90	101.50	
5	13.40	3.50	108.20	100.70	106.60	102.50	29.10	0.00	105.90	103.10	31.70	0.00	101.10	102.50	
6	13.20	3.50	108.50	100.70	106.60	102.10	29.10	0.00	105.60	103.00	34.80	0.00	100.90	101.90	
7	13.40	3.50	108.50	100.70	106.90	102.10	37.80	0.00	106.00	104.20	35.20	0.00	100.90	101.60	
8	13.20	3.50	108.50	100.80	107.40	102.40	36.80	0.00	106.20	103.50	41.00	0.00	101.20	101.60	
9	13.20	3.50	108.50	101.20	107.50	102.80	31.80	0.00	106.50	103.40	41.60	0.00	101.40	101.70	
10	13.40	3.50	108.80	102.00	108.00	103.80	31.50	0.00	106.90	103.30	37.50	0.00	101.80	102.10	
11	13.10	0.00	102.00	102.80	108.90	104.80	31.30	0.00	107.50	103.40	35.10	0.00	101.90	102.10	
12	7.20	0.10	107.00	103.40	109.10	105.90	31.30	0.00	107.60	103.40	34.50	0.00	102.00	102.30	
13	4.50	0.00	105.00	104.30	107.10	106.90	32.00	0.00	107.80	103.50	34.90	0.00	102.20	102.50	
14	7.40	0.00	106.70	104.90	107.90	107.50	31.50	0.00	107.00	103.50	31.30	0.00	102.40	103.50	
15	9.70	0.00	101.60	105.00	109.20	108.00	31.40	0.00	106.60	103.50	36.30	0.00	102.50	102.90	
16	12.20	2.40	105.70	105.50	109.10	108.30	33.10	0.00	106.10	103.40	34.80	0.00	102.70	102.70	
17	12.00	2.30	106.00	105.60	107.00	108.60	31.70	0.00	106.20	103.80	35.90	0.00	103.10	103.30	
18	12.30	2.40	105.10	105.20	108.00	108.50	37.60	0.00	106.10	103.60	34.70	0.00	103.20	104.50	
19	12.00	2.40	105.10	104.50	107.40	108.20	37.70	0.00	106.80	103.70	38.70	0.00	103.20	103.00	
20	12.00	2.30	104.90	103.70	106.50	107.60	39.50	0.00	106.70	103.50	39.10	0.00	103.20	102.80	
21	12.30	2.40	104.80	103.00	105.90	106.80	37.90	0.00	106.70	103.50	39.10	0.00	103.30	102.60	
22	12.00	2.30	104.80	102.40	105.40	106.10	37.10	0.00	106.20	103.40	37.50	0.00	103.00	102.40	
23	12.00	2.30	104.70	101.80	105.10	105.60	24.20	0.00	105.90	103.50	26.10	0.00	103.30	102.30	
24	12.30	2.40	104.70	101.50	104.80	104.90	23.30	0.00	105.90	103.30	25.20	0.00	103.00	102.10	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. OR FB	WA TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB	GAS %SAT	
1	14.50	0.00	101.30	100.90	21.00	20.40	100.50	115.40	0.00	112.60	108.60	108.70	0.00	112.50	
2	14.20	0.00	101.30	101.00	13.20	11.10	99.70	114.20	0.00	111.90	108.80	108.80	0.00	111.80	
3	14.00	0.00	101.60	101.00	13.20	11.10	99.10	113.00	0.00	110.30	107.40	108.80	0.00	111.40	
4	14.20	0.00	101.20	100.70	11.70	11.10	99.20	112.60	0.00	112.00	108.00	108.60	0.00	111.10	
5	21.10	0.00	101.50	100.80	11.60	10.10	99.70	112.20	0.00	109.90	108.90	108.60	0.00	110.70	
6	23.00	0.00	101.30	100.90	10.80	0.00	101.90	111.70	0.00	111.20	108.50	108.40	0.00	110.40	
7	34.10	0.00	101.40	100.80	12.00	0.00	102.90	111.50	0.00	110.70	107.80	108.40	0.00	110.20	
8	39.90	0.00	101.70	100.80	28.00	0.00	104.50	112.00	0.00	111.30	107.60	108.40	0.00	110.20	
9	41.90	0.00	101.60	101.10	34.80	0.00	104.90	104.40	0.00	111.40	107.40	108.50	0.00	110.20	
10	42.20	0.00	101.40	101.20	41.50	0.00	104.60	101.90	0.00	109.90	109.60	108.60	0.00	110.60	
11	44.30	0.00	101.50	102.80	43.20	0.00	105.50	101.40	0.00	108.90	108.60	108.60	0.00	111.00	
12	44.20	0.00	101.00	101.90	43.30	0.00	105.10	101.40	0.00	109.20	109.50	108.80	0.00	111.00	
13	43.20	0.00	101.20	102.30	44.20	0.00	106.10	101.40	0.00	113.10	109.40	108.90	0.00	111.20	
14	42.30	0.00	101.10	102.20	45.20	0.00	107.80	101.50	0.00	114.10	108.50	108.90	0.00	111.40	
15	42.20	0.00	102.30	102.40	43.30	0.00	108.10	102.20	0.00	112.40	108.80	109.00	0.00	111.70	
16	42.30	0.00	101.30	102.50	44.50	0.00	108.70	101.70	0.00	111.40	108.70	109.00	0.00	112.00	
17	42.30	0.00	102.00	102.80	44.60	0.00	108.70	101.60	0.00	110.40	108.00	108.80	0.00	112.20	
18	41.80	0.00	102.80	103.10	42.20	0.00	107.80	101.50	0.00	109.70	109.70	108.80	0.00	112.30	
19	39.60	0.00	102.10	102.50	44.20	0.00	109.40	101.50	0.00	111.70	109.50	109.00	0.00	112.40	
20	39.70	0.00	101.70	102.20	41.60	1.40	105.10	101.60	0.00	111.90	109.70	109.00	0.00	112.60	
21	39.40	0.00	101.90	102.00	41.40	39.70	101.40	101.20	0.00	114.20	109.40	108.90	0.00	112.60	
22	38.90	0.00	101.30	101.80	40.00	39.50	101.80	111.20	0.00	117.10	109.00	108.70	0.00	112.60	
23	24.50	0.00	101.70	101.60	24.30	23.70	100.20	115.00	0.00	113.40	107.50	108.40	0.00	112.20	
24	21.50	0.00	102.60	101.70	24.00	23.40	99.70	115.70	0.00	113.20	107.00	108.10	0.00	112.00	

25 JUL 2003

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

25 JUL 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.			
1	12.10	2.40	104.70	101.10	104.70	103.90	16.20	0.00	105.90	103.10	14.60	0.00	102.90	102.20	
2	12.30	2.40	104.60	100.80	104.40	102.90	15.90	0.00	105.70	103.10	15.70	0.00	102.70	104.30	
3	12.10	2.40	104.60	100.60	104.20	102.20	16.70	0.00	105.40	102.90	15.80	0.00	102.80	102.50	
4	12.10	2.30	104.50	100.60	104.10	101.70	26.90	0.00	105.30	102.90	15.80	0.00	102.60	101.90	
5	12.30	2.40	104.50	100.40	104.00	101.30	27.30	0.00	104.80	103.00	15.70	0.00	102.40	101.70	
6	12.10	2.40	104.40	100.10	104.00	101.10	27.80	0.00	104.90	102.90	16.10	0.00	102.30	101.50	
7	12.10	2.30	104.40	100.10	104.10	100.80	38.40	0.00	105.60	103.30	26.40	0.00	102.20	102.30	
8	12.30	2.40	104.40	100.40	104.50	101.10	37.80	0.00	105.70	103.10	36.50	0.00	102.30	102.10	
9	12.10	2.30	104.60	100.80	105.10	101.80	37.60	0.00	105.90	103.10	39.70	0.00	102.50	102.50	
10	12.10	2.40	104.60	101.80	105.60	102.40	32.10	0.00	105.60	103.50	38.00	0.00	102.90	102.40	
11	12.30	2.30	104.60	102.50	106.10	103.30	30.00	0.00	105.60	103.40	34.10	0.00	102.90	102.30	
12	12.10	2.40	104.80	103.20	106.60	104.10	26.40	0.00	105.70	103.20	27.80	0.00	103.00	102.70	
13	12.30	2.50	104.90	103.70	107.30	105.30	27.70	0.00	106.00	103.70	26.30	0.00	102.80	102.60	
14	12.10	2.40	105.00	104.00	107.30	106.30	26.10	0.00	106.00	103.60	24.90	0.00	103.20	102.80	
15	12.30	2.40	105.00	104.60	107.80	106.90	26.50	0.00	106.50	103.30	24.70	0.00	103.10	102.80	
16	12.10	2.40	104.90	104.50	107.90	107.20	26.10	0.00	106.70	103.00	26.10	0.00	103.20	102.80	
17	12.30	2.40	105.00	104.20	107.40	107.40	29.50	0.00	106.80	102.90	24.60	0.00	102.90	102.80	
18	12.10	2.40	104.80	103.60	107.00	107.30	26.60	0.00	106.90	103.10	25.10	0.00	102.70	102.60	
19	12.30	2.40	104.80	103.10	106.40	106.90	38.70	0.00	106.90	103.40	39.10	0.00	103.20	102.90	
20	12.10	2.40	104.60	102.80	105.70	106.20	40.60	0.00	106.70	103.50	45.10	0.00	104.30	102.60	
21	12.10	2.40	104.50	101.90	105.20	105.30	40.60	0.00	106.50	103.60	53.10	0.00	103.60	102.60	
22	12.30	2.40	104.50	101.40	104.80	104.70	41.90	0.00	106.70	103.40	58.60	0.00	103.60	102.70	
23	12.20	2.40	104.40	101.00	104.50	104.00	16.30	0.00	106.10	103.50	32.60	0.00	103.60	102.50	
24	12.10	2.40	104.30	100.70	104.30	103.50	17.50	0.00	106.10	103.60	15.30	0.00	103.40	102.40	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. OR FB	WA TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB	GAS %SAT	
1	17.70	0.00	102.30	101.30	17.40	16.80	99.80	114.20	0.00	112.00	107.10	107.90	0.00	111.70	
2	17.40	0.00	102.40	101.20	17.20	16.60	100.00	113.00	0.00	111.00	107.30	107.80	0.00	111.30	
3	17.60	0.00	102.60	101.00	16.20	14.10	99.90	112.70	0.00	110.00	107.50	107.80	0.00	111.00	
4	17.50	0.00	102.60	100.90	20.80	20.20	100.10	112.30	0.00	109.00	107.10	107.50	0.00	110.60	
5	19.40	0.00	102.50	100.80	11.20	10.10	100.30	111.80	0.00	108.50	107.40	107.30	0.00	110.40	
6	17.70	0.00	102.50	101.50	10.60	1.30	101.30	111.60	0.00	108.20	107.30	107.30	0.00	110.00	
7	18.00	0.00	102.50	100.80	9.30	0.00	101.90	111.70	0.00	108.30	107.20	107.20	0.00	109.60	
8	30.10	0.00	102.80	101.20	10.50	0.00	101.30	111.50	0.00	107.90	107.20	107.20	0.00	109.40	
9	37.10	0.00	103.30	102.00	26.60	0.00	101.80	111.60	0.30	107.80	107.20	107.10	0.00	109.30	
10	38.40	0.00	102.10	101.70	35.70	0.00	103.20	104.80	0.00	107.40	107.90	107.40	0.00	109.50	
11	37.10	0.00	102.50	101.70	36.20	0.00	103.70	102.80	0.00	106.20	109.60	107.70	0.00	109.90	
12	28.60	0.00	102.50	101.90	36.20	0.00	103.70	101.80	0.00	106.20	108.60	107.70	0.00	110.30	
13	27.20	0.00	103.00	102.00	38.00	0.00	105.20	101.70	0.40	107.40	108.10	108.00	0.00	110.80	
14	26.70	0.00	103.00	102.10	24.90	0.00	102.30	101.50	0.00	108.80	108.50	108.20	0.00	111.10	
15	26.70	0.00	103.40	102.20	24.20	0.00	102.90	102.00	0.00	109.40	107.20	108.20	0.00	111.40	
16	26.90	0.00	102.80	102.20	25.70	0.00	101.70	101.70	0.00	110.10	107.30	108.40	0.00	111.60	
17	27.40	0.00	102.10	102.30	24.10	0.00	100.90	101.50	0.00	110.80	108.60	108.20	0.00	111.70	
18	28.40	0.00	101.50	102.80	24.10	0.00	100.80	102.00	0.00	110.40	108.00	108.50	-999.00		
19	27.50	0.00	102.00	6754.20	24.80	0.00	102.00	101.30	0.00	110.50	107.80	108.50	-999.00		
20	48.30	0.00	102.70	102.60	36.70	3.30	103.00	100.90	98.10	0.00	109.90	108.20	108.20	-999.00	
21	60.20	0.00	104.10	102.00	52.00	51.40	100.90	100.90	95.30	0.00	110.40	108.10	108.40	111.80	
22	72.70	0.00	105.60	102.10	67.50	65.50	100.30	114.30	96.30	0.00	111.90	106.80	108.10	111.60	
23	46.70	0.00	105.10	101.60	64.30	63.80	100.10	117.00	96.10	0.00	111.60	107.10	108.10	111.40	
24	19.90	0.00	103.90	101.00	49.40	48.90	100.10	116.90	95.30	0.00	110.50	107.20	108.30	111.20	

26 JUL 2003

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

26 JUL 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.			
1	12.10	2.40	104.20	100.50	104.20	102.90	16.00	0.00	105.60	103.10	14.50	0.00	103.10	102.10	
2	12.40	2.50	104.20	100.30	104.10	102.40	15.90	0.00	105.20	102.80	14.50	0.00	102.90	101.80	
3	12.10	2.40	104.30	100.10	103.90	101.90	16.60	0.00	105.10	102.70	14.40	0.00	103.00	101.60	
4	12.20	2.40	104.20	100.00	103.80	101.50	29.50	0.00	105.50	103.50	15.90	0.00	103.00	101.40	
5	12.20	2.40	104.30	99.90	103.70	101.00	30.10	0.00	104.80	103.00	15.60	0.00	102.90	101.50	
6	12.30	2.40	104.10	99.80	103.60	100.60	30.00	0.00	104.90	102.80	27.20	0.00	103.00	102.20	
7	12.10	2.40	104.10	99.90	103.80	100.50	30.60	0.00	104.90	102.60	30.20	0.00	103.10	102.00	
8	12.20	2.40	104.10	100.20	104.20	100.90	30.10	0.00	105.00	102.50	28.60	0.00	103.00	101.90	
9	12.40	2.40	104.00	100.70	104.90	101.40	30.10	0.00	105.20	102.60	30.00	0.00	103.70	101.90	
10	12.10	2.40	104.00	101.50	105.30	102.30	30.10	0.00	105.20	102.60	30.60	0.00	103.80	102.20	
11	12.10	2.40	104.20	102.30	105.80	103.20	29.80	0.00	105.30	102.70	30.00	0.00	104.40	102.30	
12	12.30	2.40	104.20	102.90	106.30	104.10	27.60	0.00	105.20	102.60	29.00	0.00	104.30	102.50	
13	12.20	2.40	104.10	103.20	106.90	105.00	29.20	0.00	105.40	102.60	27.40	0.00	104.50	102.70	
14	12.20	2.40	104.10	102.80	106.70	105.60	27.40	0.00	105.50	102.70	28.90	0.00	104.90	102.70	
15	12.30	2.40	103.90	102.30	106.40	105.50	27.60	0.00	106.30	102.80	27.60	0.00	105.20	102.80	
16	12.20	2.40	103.60	102.80	105.70	105.60	29.60	0.00	106.60	102.80	28.90	0.00	105.10	102.80	
17	12.20	2.40	103.60	103.10	105.60	106.10	27.30	0.00	106.40	102.80	27.30	0.00	104.90	103.00	
18	12.20	2.40	103.60	102.90	105.70	106.10	27.30	0.00	106.90	102.80	27.30	0.00	105.20	102.60	
19	12.40	2.40	103.50	102.50	105.60	106.00	29.20	0.00	107.90	103.00	28.90	0.00	104.60	102.40	
20	12.20	2.40	103.60	102.00	104.90	105.50	30.60	0.00	107.90	102.80	30.90	0.00	104.60	102.30	
21	12.20	2.40	103.40	101.70	104.30	105.00	30.80	0.00	107.70	102.60	31.20	0.00	104.50	102.20	
22	12.40	2.40	103.40	101.20	103.90	104.30	30.80	0.00	107.30	102.50	31.10	0.00	104.40	101.90	
23	12.20	2.40	103.30	100.90	103.80	103.80	30.80	0.00	107.10	102.50	31.00	0.00	104.40	101.80	
24	12.20	2.40	103.30	100.60	103.50	103.30	30.50	0.00	106.80	102.30	30.90	0.00	104.10	101.70	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT
1	16.30	0.00	102.80	101.10	31.90	31.40	99.80	116.20	0.00	109.90	107.40	108.50	110.30	0.00	110.90
2	14.60	0.00	103.00	101.40	15.80	15.20	100.10	115.80	0.00	123.20	0.00	110.70	107.50	108.60	110.70
3	14.50	0.00	102.80	100.30	15.50	15.00	99.90	115.30	0.00	128.30	0.00	111.00	108.20	108.70	110.30
4	14.60	0.00	101.70	100.10	17.00	15.00	100.20	114.20	0.00	137.70	0.00	112.70	107.70	108.90	109.80
5	14.50	0.00	101.20	99.90	16.30	15.20	100.10	112.60	0.00	138.50	0.00	111.80	107.20	108.80	109.50
6	15.30	0.00	101.00	99.80	19.30	10.10	99.50	111.70	0.00	139.10	0.00	110.50	107.20	108.50	109.10
7	28.80	0.00	100.50	99.70	19.40	10.10	99.50	111.90	0.00	136.70	0.00	110.40	108.20	108.40	108.80
8	27.30	0.00	101.40	99.90	21.30	10.10	99.60	112.40	0.00	139.20	0.00	107.70	107.80	108.30	108.70
9	29.10	0.00	102.20	100.10	22.40	1.50	99.50	111.00	0.00	139.40	0.00	107.50	108.30	109.10	108.70
10	27.70	0.00	102.20	100.40	21.80	0.00	99.20	110.70	0.00	138.60	0.00	107.60	108.70	110.10	108.80
11	29.00	0.00	100.60	100.90	22.10	0.00	100.10	108.90	0.00	142.50	0.00	111.70	108.70	109.40	109.20
12	28.30	0.00	101.50	100.90	21.70	0.00	100.20	102.90	0.60	147.10	0.60	113.00	108.80	109.10	109.60
13	27.80	0.00	100.90	101.00	23.20	0.00	101.60	101.90	0.00	156.30	0.00	113.70	109.60	109.30	110.20
14	27.80	0.00	100.00	101.20	21.60	0.00	101.50	101.60	0.00	159.40	0.00	114.30	110.90	109.20	110.70
15	27.80	0.00	100.60	101.40	21.60	0.00	101.80	101.50	0.90	162.50	0.90	114.50	110.90	109.30	111.00
16	27.80	0.00	100.70	101.40	23.40	0.00	101.70	102.10	0.00	162.20	0.00	110.80	110.10	109.50	111.30
17	28.50	0.00	100.70	101.50	21.50	0.00	101.20	101.40	0.00	161.90	0.00	112.10	110.10	109.60	111.20
18	27.90	0.00	100.70	101.50	21.30	0.00	102.50	101.20	0.00	161.60	0.00	110.90	109.70	109.20	111.30
19	28.10	0.00	101.10	101.50	23.50	0.00	103.20	101.60	0.00	162.30	0.00	113.30	109.00	108.80	111.00
20	31.60	0.00	100.90	101.10	33.50	1.40	103.50	100.60	0.10	162.60	0.10	113.10	108.50	108.50	110.90
21	32.00	0.00	101.10	100.80	36.10	34.80	100.20	101.00	0.00	162.60	0.00	112.70	107.90	108.30	110.70
22	32.60	0.00	101.40	100.80	36.70	36.10	99.80	106.10	0.00	147.70	0.00	112.90	107.30	107.90	110.50
23	32.10	0.00	103.50	100.60	36.10	35.50	101.20	113.70	0.00	122.00	0.00	111.50	106.40	107.50	110.30
24	33.40	0.00	101.70	100.80	36.10	35.50	101.20	114.50	0.00	115.90	0.00	110.50	107.30	107.40	110.00

27 JUL 2003

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

27 JUL 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT FB TAILW.			
1	12.30	2.40	103.20	100.40	103.50	102.70	16.80	0.00	106.60	26.30	0.00	104.00	101.70		
2	12.10	2.40	103.30	100.10	103.30	102.30	16.00	0.00	106.40	17.70	0.00	104.10	101.40		
3	12.10	2.40	103.10	100.00	103.30	101.70	16.00	0.00	106.00	16.80	0.00	103.90	101.20		
4	12.40	2.40	103.20	99.90	103.10	101.40	16.00	0.00	106.20	16.70	0.00	103.40	101.10		
5	12.20	2.40	103.00	99.70	103.00	101.10	26.90	0.00	106.20	16.70	0.00	102.70	101.00		
6	12.20	2.40	103.00	99.60	103.00	100.70	27.20	0.00	105.80	16.70	0.00	102.50	100.80		
7	12.20	2.40	103.10	99.90	103.20	100.60	27.50	0.00	105.70	17.50	0.00	102.50	100.80		
8	12.40	2.40	103.10	100.20	103.80	100.90	29.40	0.00	105.80	28.00	0.00	103.00	101.90		
9	12.20	2.40	103.20	100.90	104.30	101.60	27.20	0.00	105.80	28.40	0.00	103.40	101.80		
10	12.20	2.40	103.40	101.70	105.00	102.40	33.20	0.00	106.00	33.90	0.00	103.70	101.70		
11	12.40	2.40	103.70	102.40	105.70	103.50	29.50	0.00	106.30	35.50	0.00	103.80	102.00		
12	12.20	2.40	103.80	103.30	106.20	104.70	29.50	0.00	106.70	30.50	0.00	104.50	102.20		
13	12.20	2.40	103.90	104.10	106.80	105.60	31.10	0.00	107.00	31.50	0.00	104.80	102.40		
14	12.40	2.40	104.10	104.90	107.00	106.70	29.40	0.00	107.50	31.60	0.00	105.10	102.50		
15	12.20	2.40	104.00	105.30	107.30	107.40	29.40	0.00	107.80	30.40	0.00	105.40	102.50		
16	12.20	2.40	104.10	105.50	107.40	107.90	29.30	0.00	107.80	39.10	0.00	106.30	102.60		
17	12.20	2.40	104.20	105.40	107.50	108.20	29.30	0.00	107.50	38.40	0.00	106.20	102.80		
18	12.40	2.40	104.00	104.90	107.10	108.20	29.40	0.00	107.50	38.40	0.00	106.00	102.80		
19	12.10	2.40	103.90	104.20	106.50	107.80	39.10	0.00	107.60	38.60	0.00	105.60	102.40		
20	12.20	2.40	103.80	6643.50	105.60	107.10	43.30	0.00	107.90	42.70	0.00	105.30	102.40		
21	12.40	2.40	103.60	102.90	104.90	106.10	43.70	0.00	107.30	49.80	0.00	105.70	102.00		
22	12.20	2.40	103.60	102.50	104.50	105.40	46.50	0.00	107.20	55.30	0.00	105.90	102.20		
23	12.20	2.40	103.50	102.00	104.10	104.70	28.50	0.00	107.00	36.30	0.00	105.60	101.90		
24	12.20	2.40	103.50	101.70	103.90	103.90	15.20	0.00	106.80	14.80	0.00	104.70	101.70		

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT FB TAILW.			
1	28.40	0.00	102.20	100.40	36.10	35.50	99.70	114.80	80.70	0.00	108.60	107.30	107.20	:	109.60
2	28.20	0.00	102.60	99.90	36.10	35.50	99.50	114.70	78.50	0.00	107.10	107.30	107.40	:	109.30
3	30.50	0.00	102.60	99.70	34.10	33.50	100.20	114.70	76.50	0.00	108.30	107.10	107.50	:	-999.00
4	27.50	0.00	102.70	99.80	31.00	30.40	100.30	114.40	89.40	0.00	108.10	109.40	107.40	:	-999.00
5	27.30	0.00	103.30	99.60	32.00	29.90	100.50	114.40	95.80	0.00	108.70	109.30	107.20	:	-999.00
6	16.90	0.00	102.90	99.40	27.30	22.00	100.00	114.20	88.30	0.00	108.70	108.20	107.10	:	108.50
7	15.80	0.00	102.70	99.20	24.00	15.00	100.50	114.10	84.10	0.00	108.20	107.60	106.90	:	108.40
8	16.00	0.00	102.70	6389.80	20.10	11.00	100.00	114.20	116.40	0.00	107.50	107.70	106.80	:	108.30
9	16.80	0.00	103.10	99.90	10.70	0.40	100.40	113.30	120.70	0.00	106.70	107.70	107.00	:	108.40
10	28.00	0.00	102.80	100.70	10.50	0.00	100.70	112.40	132.10	0.00	106.70	107.90	107.10	:	108.80
11	26.80	0.00	102.00	102.00	10.40	0.00	100.10	112.20	134.30	0.00	106.70	107.70	107.30	:	109.10
12	32.70	0.00	102.20	100.90	14.40	0.00	100.00	112.40	135.30	0.00	106.70	108.50	107.40	:	109.50
13	33.20	0.00	102.40	101.50	30.20	0.00	103.00	107.50	122.50	0.00	106.80	108.30	107.50	:	110.10
14	33.10	0.00	103.60	101.80	29.80	0.00	104.20	103.00	109.40	0.00	107.30	107.80	107.50	:	110.50
15	33.90	0.00	103.90	102.00	38.60	0.00	106.20	102.10	111.90	0.00	108.60	107.60	107.60	:	110.80
16	37.70	0.00	103.60	101.90	41.60	0.00	107.10	101.60	117.80	0.00	109.30	107.80	107.90	:	111.10
17	43.70	0.00	104.00	999.00	39.50	0.00	106.20	101.30	115.20	0.00	109.40	108.30	108.20	:	111.20
18	42.80	0.00	104.50	102.10	41.90	0.00	107.90	101.20	115.30	0.00	108.30	108.90	108.30	:	111.40
19	42.70	0.00	104.40	102.00	43.50	0.00	108.30	100.90	114.60	0.00	108.60	108.70	108.30	:	111.30
20	43.40	0.00	104.50	101.70	42.50	1.60	104.80	100.60	97.30	0.00	109.10	108.10	108.10	:	111.20
21	59.40	0.00	105.10	101.50	45.80	44.50	100.80	100.40	96.30	0.00	107.90	109.10	107.70	:	111.10
22	62.60	0.00	105.20	101.30	48.00	45.90	100.90	112.70	96.00	0.00	106.40	108.60	107.30	:	110.90
23	41.90	0.00	105.30	101.10	45.80	45.20	100.80	116.20	80.40	0.00	106.50	108.30	107.20	:	110.70
24	22.50	0.00	104.60	100.80	43.10	42.50	100.10	116.10	77.80	0.00	107.20	108.00	107.10	:	110.70

28 JUL 2003

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

28 JUL 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	LOWER GRANITE	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.		
1	12.40	2.40	103.40	101.30	103.70	103.30	14.20	0.00	106.10	101.70	14.40	0.00	104.30	101.40	
2	12.20	2.40	103.40	101.20	103.50	102.70	14.20	0.00	106.20	101.60	14.40	0.00	104.20	101.10	
3	12.20	2.40	103.40	100.80	103.30	102.10	14.10	0.00	105.90	101.40	14.40	0.00	103.80	101.00	
4	12.20	2.40	103.30	100.60	103.30	101.60	14.90	0.00	105.90	101.40	14.50	0.00	103.60	100.80	
5	12.40	2.40	103.30	100.50	103.20	101.20	27.00	0.00	105.70	102.50	14.60	0.00	103.40	100.80	
6	12.20	2.40	103.40	100.30	103.10	100.70	27.30	0.00	105.70	101.70	21.10	0.00	103.60	100.70	
7	12.20	2.40	103.20	100.40	103.30	100.50	27.50	0.00	106.00	101.60	21.70	0.00	102.50	100.90	
8	12.40	2.40	103.40	100.80	103.80	100.80	30.50	0.00	106.10	101.70	24.40	0.00	102.50	101.00	
9	12.20	2.40	103.50	101.40	104.40	101.50	30.70	0.00	106.30	101.70	25.50	0.00	103.30	102.30	
10	12.10	2.40	103.80	102.00	105.20	102.20	30.70	0.00	106.40	101.90	25.60	0.00	103.70	101.80	
11	12.40	2.40	105.30	102.90	105.70	103.20	30.70	0.00	106.80	101.90	24.50	0.00	104.10	101.70	
12	12.20	2.40	105.60	103.70	106.50	104.40	31.20	0.00	107.20	102.00	25.10	0.00	103.60	101.70	
13	12.20	2.40	105.60	104.50	107.60	105.50	30.80	0.00	107.20	102.10	27.90	0.00	104.00	102.10	
14	12.40	2.40	105.60	105.20	108.10	106.30	30.80	0.00	107.80	102.20	28.10	0.00	104.60	102.10	
15	11.90	2.10	105.00	105.60	108.40	107.10	30.80	0.00	108.30	102.20	28.00	0.00	104.80	102.10	
16	11.90	2.00	105.10	105.90	108.50	107.70	30.70	0.00	108.50	102.10	29.30	0.00	105.10	102.10	
17	11.70	1.90	104.90	105.70	108.20	107.90	30.60	0.00	108.20	102.10	27.90	0.00	105.20	101.90	
18	11.90	2.00	105.00	105.20	107.90	107.90	30.60	0.00	107.50	102.00	27.70	0.00	105.20	102.10	
19	11.70	1.90	104.80	104.60	107.20	107.50	30.90	0.00	107.30	102.00	30.00	0.00	105.20	101.90	
20	11.70	1.90	104.50	103.70	106.30	106.80	39.10	0.00	106.90	102.30	38.00	0.00	105.40	102.00	
21	11.90	2.00	104.40	102.90	105.60	106.00	43.60	0.00	107.40	102.30	49.70	0.00	105.60	102.60	
22	11.70	1.90	104.40	102.40	105.00	105.20	43.90	0.00	107.10	102.30	56.10	0.00	106.00	102.10	
23	11.70	1.90	104.40	102.00	104.70	104.60	34.20	0.00	107.20	102.10	55.80	0.00	106.10	102.10	
24	11.90	2.00	104.20	101.50	104.50	104.10	21.10	0.00	106.90	101.90	40.70	0.00	105.60	101.80	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	MCNARY	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	PASCO	
1	14.70	0.00	104.50	100.60	32.10	30.10	100.40	116.00	0.00	109.00	108.00	107.00	0.00	110.60	
2	14.10	0.00	105.40	100.50	13.10	12.60	99.40	115.80	0.00	110.60	106.30	106.50	0.00	110.40	
3	14.20	0.00	105.50	100.40	10.60	10.10	98.60	115.10	0.00	111.20	105.60	106.30	0.00	110.30	
4	14.50	0.00	105.20	100.20	12.30	10.30	97.40	114.00	0.00	111.70	105.30	106.40	0.00	110.10	
5	17.50	0.00	105.00	100.10	11.60	10.10	102.00	113.40	0.00	110.50	105.20	106.30	0.00	109.90	
6	20.90	0.00	104.60	100.90	19.70	10.10	102.50	112.40	0.00	109.90	105.10	106.40	0.00	109.60	
7	19.20	0.00	103.90	100.60	19.90	10.10	102.60	110.80	0.00	109.50	105.20	106.40	0.00	109.50	
8	19.20	0.00	104.20	100.30	21.30	10.00	102.70	110.80	0.00	112.30	107.00	106.60	0.00	109.30	
9	19.20	0.00	103.70	100.60	10.10	0.20	102.70	110.40	0.00	112.10	108.10	107.10	0.00	109.30	
10	20.80	0.00	103.60	101.10	11.40	0.00	102.50	110.30	0.00	111.80	108.30	107.20	0.00	109.40	
11	27.30	0.00	103.80	101.60	10.00	0.00	102.30	110.60	0.00	111.60	109.50	107.30	0.00	109.70	
12	27.60	0.00	104.30	101.60	10.80	0.00	101.70	111.00	0.00	112.90	109.60	107.30	0.00	110.20	
13	30.80	0.00	105.00	101.80	26.00	0.00	102.60	107.20	0.00	113.60	109.40	107.40	0.00	110.60	
14	31.70	0.00	105.20	102.30	25.20	0.00	102.30	103.10	0.00	113.90	109.60	107.60	0.00	111.00	
15	31.70	0.00	105.30	102.30	25.30	0.00	101.90	102.80	0.00	113.60	108.80	108.00	0.00	111.30	
16	28.40	0.00	105.40	102.50	37.20	0.00	104.50	101.80	0.00	115.50	108.60	108.10	0.00	112.00	
17	29.70	0.00	105.70	103.10	36.80	0.00	105.50	101.80	0.00	113.50	108.40	108.30	0.00	111.90	
18	28.60	0.00	104.90	102.60	36.30	0.00	105.70	101.80	0.00	115.30	108.50	108.30	0.00	111.90	
19	28.50	0.00	104.90	102.40	38.20	0.00	106.40	101.00	0.00	114.50	109.00	108.20	0.00	111.80	
20	36.60	0.00	105.20	102.00	39.80	4.70	102.70	100.90	0.00	114.50	109.70	108.10	0.00	111.50	
21	49.60	0.00	105.00	102.20	45.50	45.00	101.00	100.70	0.00	115.00	109.90	108.10	0.00	111.30	
22	61.90	0.00	104.80	102.10	48.20	47.70	100.50	114.00	0.00	114.40	110.60	108.00	0.00	111.10	
23	63.50	0.00	105.40	102.00	60.40	59.90	100.60	115.80	0.00	116.50	112.10	107.80	0.00	110.80	
24	48.70	0.00	105.70	101.70	60.70	60.20	100.80	116.70	0.00	113.50	112.70	107.80	0.00	110.50	

29 JUL 2003

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

29 JUL 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	LOWER GRANITE	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.		
1	11.70	1.90	104.20	101.20	104.30	103.50	13.90	0.00	107.00	101.90	16.70	0.00	104.90	101.40	
2	11.70	1.90	104.10	100.90	104.10	102.90	13.20	0.00	106.80	101.40	15.30	0.00	104.40	101.80	
3	11.90	2.00	104.20	100.60	103.90	102.30	13.10	0.00	106.90	101.00	13.30	0.00	104.20	101.40	
4	11.70	1.90	104.20	100.40	103.70	101.80	13.30	0.00	106.60	101.00	13.30	0.00	104.10	101.10	
5	11.70	1.90	104.10	100.20	103.70	101.30	23.00	0.00	106.40	101.60	15.20	0.00	103.90	100.90	
6	11.90	2.00	104.20	100.00	103.60	100.80	26.50	0.00	106.20	101.90	19.90	0.00	103.90	100.80	
7	11.70	1.90	104.20	100.10	103.80	100.60	26.60	0.00	106.40	101.60	20.30	0.00	103.10	100.90	
8	11.70	1.90	104.30	100.30	104.40	100.80	37.90	0.00	106.40	101.80	21.60	0.00	102.70	100.80	
9	11.90	2.00	104.40	100.90	105.00	101.40	40.80	0.00	106.50	101.90	30.90	0.00	103.60	101.60	
10	11.70	1.90	104.60	101.60	105.70	102.30	44.00	0.00	106.60	102.00	32.10	0.00	103.80	101.50	
11	11.90	2.00	104.60	102.40	106.30	103.30	40.80	0.00	106.80	102.10	31.70	0.00	104.40	101.50	
12	11.70	1.90	104.80	103.20	106.90	104.50	32.60	0.00	107.00	102.10	34.50	0.00	105.00	103.70	
13	11.90	2.00	104.80	104.10	107.40	105.50	32.30	0.00	107.50	102.20	40.90	0.00	106.20	103.20	
14	11.70	1.90	104.80	104.70	107.80	106.50	32.80	0.00	108.00	102.10	34.60	0.00	105.90	102.30	
15	11.70	1.90	105.00	105.40	108.00	107.30	26.90	0.00	108.30	101.90	34.40	0.00	106.40	102.40	
16	11.90	2.00	105.00	105.60	108.10	107.90	28.70	0.00	109.00	102.00	33.60	0.00	106.70	102.40	
17	11.70	1.90	105.00	105.60	108.00	108.30	31.90	0.00	108.90	102.10	32.90	0.00	106.70	102.30	
18	11.70	1.90	104.90	105.00	107.80	108.20	26.50	0.00	108.60	102.00	32.70	0.00	106.30	102.10	
19	11.90	2.00	104.80	104.40	107.10	107.80	28.20	0.00	108.30	101.90	32.80	0.00	106.30	102.00	
20	11.70	1.90	104.60	103.70	106.20	107.10	28.30	0.00	108.30	102.00	34.40	0.00	105.90	101.70	
21	11.90	2.00	104.60	103.10	105.60	106.30	26.40	0.00	108.00	102.00	33.00	0.00	106.00	101.50	
22	11.70	1.90	104.50	102.50	105.10	105.50	26.40	0.00	107.80	101.60	39.80	0.00	105.80	101.60	
23	11.70	1.90	104.30	102.00	104.90	104.80	26.90	0.00	107.90	101.60	24.60	0.00	105.50	101.30	
24	11.90	2.00	104.30	101.60	104.50	104.10	25.80	0.00	107.50	101.50	15.50	0.00	105.20	101.00	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB	WA TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB	GAS %SAT	
1	37.80	0.00	105.70	101.40	47.50	47.00	100.30	116.80	0.00	113.60	112.60	107.40	0.00	109.70	
2	15.00	0.00	105.00	101.10	25.10	24.60	100.00	116.50	0.00	112.30	113.10	107.20	0.00	109.20	
3	13.90	0.00	102.60	100.80	15.00	14.40	99.10	115.70	0.00	109.50	112.80	107.00	0.00	108.80	
4	14.00	0.00	104.10	100.60	10.60	10.00	97.60	114.70	0.00	109.10	110.40	107.00	0.00	108.30	
5	20.30	0.00	104.10	100.50	10.90	10.10	101.00	113.10	0.00	111.00	109.90	106.90	0.00	107.90	
6	21.40	0.00	104.90	100.30	19.20	10.10	103.50	111.70	0.00	110.50	111.00	107.00	0.00	107.50	
7	20.90	0.00	104.70	100.20	19.20	10.10	103.50	110.60	0.00	109.90	110.90	107.20	0.00	107.30	
8	20.80	0.00	104.60	100.30	19.20	9.50	102.80	110.80	0.00	110.20	110.00	107.60	0.00	107.20	
9	21.00	0.00	104.30	100.70	20.30	0.00	103.60	110.10	0.00	109.80	109.90	107.80	0.00	107.40	
10	30.90	0.00	104.30	101.40	21.10	0.00	103.40	110.10	0.00	110.40	111.00	107.70	0.00	107.90	
11	32.50	0.00	104.40	101.50	33.30	0.00	103.90	105.40	0.00	112.50	111.70	107.70	0.00	108.90	
12	42.70	0.00	105.00	101.80	39.80	0.00	105.20	102.80	0.00	110.70	110.70	107.90	0.00	110.00	
13	42.70	0.00	104.80	101.90	41.00	0.00	105.80	101.90	0.00	114.40	110.50	106.80	0.00	110.80	
14	42.10	0.00	105.10	102.10	40.00	0.00	106.30	101.60	0.00	115.30	111.00	108.50	0.00	111.60	
15	31.90	0.00	105.10	6608.70	32.50	0.00	106.10	101.60	0.00	115.60	110.60	108.90	0.00	112.20	
16	31.50	0.00	105.20	102.60	32.00	0.00	105.60	101.80	0.00	115.90	109.70	108.80	0.00	112.50	
17	33.30	0.00	104.70	102.80	32.70	0.00	104.50	101.60	0.00	117.20	110.80	108.90	0.00	112.80	
18	31.90	0.00	102.40	102.60	31.90	0.00	104.20	101.40	0.00	117.20	111.10	109.10	0.00	113.00	
19	31.50	0.00	104.80	102.70	33.40	0.00	104.20	101.20	0.00	117.20	113.30	109.60	0.00	113.10	
20	33.40	0.00	104.10	102.20	31.90	2.30	101.40	101.00	0.00	117.30	115.10	109.70	0.00	113.10	
21	44.20	0.00	103.30	102.50	25.70	25.10	100.40	101.20	0.00	115.70	115.20	109.50	0.00	113.20	
22	58.70	0.00	106.50	102.00	28.80	28.20	100.50	102.80	0.00	115.50	116.30	115.40	0.00	113.20	
23	36.90	0.00	105.20	101.80	35.80	35.30	100.50	112.20	0.00	115.20	115.00	109.10	0.00	112.90	
24	23.70	0.00	105.10	101.70	37.30	35.30	100.10	114.10	0.00	115.20	115.50	108.70	0.00	112.60	

30 JUL 2003

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

30 JUL 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.			
1	11.70	1.90	104.40	101.20	104.30	103.50	15.80	0.00	107.10	101.20	14.80	0.00	105.20	100.90	
2	11.70	1.90	104.40	101.00	104.20	102.90	15.60	0.00	107.00	101.50	13.40	0.00	105.10	101.00	
3	11.90	2.00	104.30	100.90	104.00	102.30	15.60	0.00	106.60	101.30	13.50	0.00	104.60	100.90	
4	11.70	1.90	104.30	100.80	103.90	101.80	15.40	0.00	106.50	101.20	13.30	0.00	104.50	100.80	
5	11.90	2.00	104.40	100.60	103.80	101.40	16.00	0.00	106.80	101.20	13.50	0.00	104.20	100.60	
6	11.70	1.90	104.20	100.40	103.70	100.90	25.70	0.00	106.70	101.50	19.90	0.00	104.40	100.60	
7	11.70	1.90	104.30	100.40	104.00	100.80	26.40	0.00	106.60	101.60	21.30	0.00	104.10	101.00	
8	11.90	2.00	104.40	100.70	104.50	101.10	32.60	0.00	107.20	101.70	19.80	0.00	104.20	101.00	
9	11.70	1.90	104.70	101.20	105.10	101.80	40.80	0.00	107.40	102.00	30.30	0.00	104.20	101.70	
10	11.70	1.90	104.90	102.00	105.80	102.50	40.70	0.00	107.40	102.10	31.80	0.00	104.20	101.50	
11	11.90	2.00	105.00	102.90	106.40	103.60	42.20	0.00	107.70	102.20	40.30	0.00	104.90	101.90	
12	11.70	1.90	105.10	103.70	107.20	104.60	40.50	0.00	107.80	102.30	41.10	0.00	105.20	102.10	
13	11.90	2.00	105.20	104.40	107.60	105.60	41.60	0.00	108.00	102.40	41.10	0.00	105.80	102.30	
14	11.70	1.90	105.20	105.10	108.00	106.70	30.40	0.00	108.40	102.50	43.30	0.00	106.10	102.60	
15	11.70	1.90	105.40	105.40	108.30	107.40	30.00	0.00	108.20	102.50	42.50	0.00	106.20	103.60	
16	11.90	2.00	105.40	105.60	108.30	107.90	15.30	0.00	108.00	102.00	32.00	0.00	105.70	102.70	
17	11.70	1.90	105.30	105.50	108.30	108.30	26.80	21.50	108.30	107.10	31.20	0.00	105.50	102.30	
18	11.70	1.90	105.20	104.90	108.10	108.30	28.60	23.30	107.90	110.70	29.90	0.00	105.30	102.10	
19	11.90	2.00	105.10	104.20	107.40	107.90	11.90	0.00	108.10	113.10	29.50	0.00	104.90	101.90	
20	11.70	1.90	104.90	103.50	106.50	107.20	29.10	0.00	107.90	105.70	29.50	0.00	104.80	101.60	
21	11.90	2.00	104.80	102.70	105.60	106.30	44.50	0.00	107.80	105.50	29.70	0.00	105.00	101.40	
22	11.70	1.90	104.70	102.20	105.20	105.40	47.10	0.00	107.50	104.20	29.70	0.00	104.30	101.20	
23	11.70	1.90	104.60	101.60	104.80	104.70	30.40	0.00	107.30	103.10	29.50	0.00	103.90	101.20	
24	11.90	2.00	104.50	101.30	104.50	103.90	29.80	0.00	106.70	102.80	30.90	0.00	104.30	101.10	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.			
1	14.00	0.00	102.90	101.30	19.90	17.80	100.50	114.40	0.00	113.80	115.80	108.60	0.00	112.20	
2	13.50	0.00	103.00	101.00	15.90	15.30	100.80	114.10	0.00	112.90	114.50	108.40	0.00	111.90	
3	13.50	0.00	102.70	101.00	15.60	15.00	101.00	113.90	0.00	112.70	113.30	108.50	0.00	111.60	
4	15.00	0.00	104.30	100.70	15.60	15.10	102.50	111.80	0.00	117.30	0.00	114.60	108.60	0.00	111.20
5	14.00	0.00	104.00	101.50	16.30	14.70	103.10	110.70	0.00	117.40	0.00	112.00	113.90	108.60	0.00
6	17.70	0.00	104.40	100.70	19.60	10.30	102.70	110.70	0.00	118.60	0.00	110.20	113.80	108.60	0.00
7	21.70	0.00	104.70	100.70	19.20	10.10	102.30	110.90	0.00	147.10	0.00	112.60	113.50	108.60	0.00
8	20.30	0.00	104.40	101.20	20.90	9.60	102.20	110.90	0.00	149.40	0.00	112.30	112.10	108.60	0.00
9	20.50	0.00	104.30	101.20	20.20	0.00	102.80	110.00	0.00	151.10	0.00	112.20	111.90	108.70	0.00
10	21.30	0.00	104.70	101.60	21.80	0.00	103.30	110.10	0.00	152.20	0.00	113.00	111.80	108.90	0.00
11	39.40	0.00	105.50	102.00	22.80	0.00	104.20	106.60	0.00	139.20	0.00	113.20	111.50	109.10	0.00
12	39.80	0.00	104.70	102.20	36.40	0.00	105.30	0.00	0.00	138.90	0.00	113.00	111.50	109.10	0.00
13	41.20	0.00	104.50	102.50	39.40	0.00	105.40	103.10	0.00	140.50	0.00	115.10	111.20	109.40	0.00
14	42.80	0.00	105.00	102.50	45.50	0.00	106.10	102.50	0.00	143.50	0.00	115.70	110.30	109.40	0.00
15	43.10	0.00	105.50	102.80	46.10	0.00	106.70	101.90	0.00	151.10	0.00	115.70	109.90	109.30	-999.00
16	42.50	0.00	105.50	102.90	48.30	0.00	106.40	102.00	0.00	151.70	0.00	116.30	110.30	109.30	-999.00
17	35.60	0.00	105.70	102.80	44.00	0.00	106.90	102.00	0.00	152.50	0.00	116.40	111.30	109.40	-999.00
18	40.00	0.00	102.80	106.00	34.70	0.00	106.20	102.10	0.00	149.50	0.00	117.20	110.20	109.50	113.20
19	29.30	0.00	102.40	103.40	34.10	0.00	106.20	101.70	0.00	150.70	0.00	117.10	110.10	109.40	113.10
20	28.60	0.00	102.00	103.00	29.50	0.80	103.10	101.30	0.00	151.80	0.00	116.10	109.60	109.10	113.10
21	30.10	0.00	101.80	103.10	30.20	28.90	101.60	101.20	0.00	152.00	0.00	116.20	112.50	109.10	113.00
22	30.00	0.00	101.90	102.00	30.40	29.80	100.50	105.10	0.00	151.40	0.00	115.20	111.00	108.60	112.50
23	29.50	0.00	101.80	101.80	29.90	29.30	100.30	112.80	0.00	128.10	0.00	114.90	110.50	108.40	111.90
24	29.10	0.00	102.40	101.60	20.70	20.10	99.40	113.50	0.00	125.90	0.00	114.80	109.70	108.30	111.30

31 JUL 2003

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

31 JUL 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.			
1	11.70	1.90	104.50	100.90	104.30	103.40	30.00	0.00	106.70	102.50	29.70	0.00	103.20	101.10	
2	11.90	2.00	104.40	100.60	104.10	102.80	26.80	0.00	106.60	102.30	28.70	0.00	103.60	101.10	
3	11.70	1.90	104.60	100.60	103.90	102.20	15.40	0.00	106.70	102.40	13.90	0.00	102.40	100.90	
4	11.70	1.90	104.30	100.40	103.90	101.60	12.90	0.00	106.20	102.40	13.30	0.00	102.50	100.80	
5	12.00	2.00	104.40	100.30	103.80	101.10	12.40	0.00	105.80	101.80	13.00	0.00	101.70	100.70	
6	11.80	1.90	104.40	100.20	103.70	100.70	13.60	0.00	106.10	101.60	13.60	0.00	101.60	100.40	
7	11.90	2.00	104.50	100.10	104.00	100.50	38.30	0.00	105.80	103.20	13.70	0.00	101.60	100.60	
8	11.70	1.90	104.50	100.40	104.40	100.70	39.60	0.00	105.70	102.30	16.20	0.00	101.70	100.50	
9	11.70	1.90	104.60	100.50	105.00	101.20	39.40	0.00	105.90	102.10	31.90	0.00	101.70	101.80	
10	12.00	2.00	104.50	100.90	105.60	102.10	39.70	0.00	106.10	102.20	39.30	0.00	102.00	101.40	
11	11.70	1.90	104.70	101.30	106.20	103.10	38.40	0.00	106.40	102.30	37.30	0.00	101.70	102.50	
12	11.70	1.90	104.90	101.60	106.90	104.20	38.00	0.00	106.30	102.30	38.60	0.00	101.80	101.60	
13	12.00	2.00	104.90	101.90	107.40	105.20	37.80	0.00	106.30	102.30	37.20	0.00	102.00	101.70	
14	11.80	1.90	104.90	102.10	107.70	106.20	37.40	0.00	105.80	102.30	35.80	0.00	102.00	101.90	
15	11.80	1.90	105.00	102.40	107.90	107.00	39.00	0.00	106.60	102.70	35.50	0.00	102.20	101.80	
16	11.70	1.90	104.90	102.40	108.10	107.60	34.20	0.00	106.90	102.70	35.50	0.00	102.50	101.90	
17	12.00	2.00	105.00	102.40	108.00	107.80	31.20	0.00	107.50	102.90	35.90	0.00	102.50	101.80	
18	11.70	1.90	104.70	102.10	107.60	107.90	31.10	0.00	107.90	102.90	35.90	0.00	102.50	101.60	
19	12.00	2.00	104.60	101.90	106.90	107.50	31.70	0.00	107.90	102.70	36.50	0.00	102.30	101.60	
20	11.80	1.90	104.60	101.40	106.00	106.90	39.70	0.00	107.80	102.90	50.50	0.00	102.00	101.60	
21	11.70	1.90	104.50	101.10	105.40	106.10	40.50	0.00	107.50	102.90	53.30	0.00	102.40	102.10	
22	11.90	1.90	104.50	100.70	104.80	0.00	39.40	0.00	107.20	102.80	52.30	0.00	102.50	101.50	
23	11.70	1.90	104.40	100.60	104.60	0.00	15.70	0.00	107.00	103.30	29.00	0.00	102.70	101.40	
24	11.90	1.90	104.30	100.50	104.30	0.00	14.50	0.00	106.80	102.70	18.20	0.00	102.60	101.30	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT
1	28.60	0.00	102.40	101.60	21.10	20.50	98.90	113.50	0.00	126.70	0.00	114.30	109.30	108.40	: 110.90
2	28.50	0.00	102.90	101.30	20.70	20.20	98.70	112.70	0.00	125.70	0.00	112.30	111.80	108.40	: 110.40
3	14.70	0.00	101.90	100.90	11.50	10.90	99.60	111.70	0.00	99.30	0.00	110.80	112.10	108.40	: 110.10
4	13.50	0.00	101.90	100.90	10.60	10.10	99.30	111.60	0.00	96.70	0.00	110.30	110.90	108.30	: 110.20
5	13.90	0.00	102.10	101.10	10.60	10.10	99.40	111.60	0.00	78.70	0.00	108.60	112.60	108.30	: 110.00
6	13.80	0.00	101.80	100.90	18.30	10.30	100.10	111.40	0.00	80.80	0.00	108.60	112.10	108.20	: 109.80
7	14.00	0.00	101.50	100.70	19.30	10.00	99.50	111.20	0.00	151.70	0.00	111.00	110.90	108.20	: 109.60
8	17.30	0.00	101.50	100.90	19.30	9.00	99.50	111.60	0.00	160.00	0.00	110.80	110.90	108.40	: 109.70
9	33.10	0.00	101.60	101.30	28.40	0.00	102.00	110.90	0.00	160.30	0.00	108.80	111.20	108.40	: 110.00
10	34.10	0.00	102.10	101.60	29.60	0.00	102.70	109.00	0.00	161.60	0.00	108.90	111.20	108.60	: 110.20
11	41.40	0.00	101.50	101.70	32.60	0.00	102.60	102.30	0.00	155.20	0.00	108.90	109.80	108.60	: 110.60
12	39.80	0.00	101.50	101.80	32.10	0.00	102.40	102.70	0.00	153.30	0.00	109.90	110.00	108.70	: 111.50
13	39.60	0.00	101.60	102.10	31.90	0.00	102.60	101.90	0.00	153.80	0.00	115.90	109.60	108.60	: 112.10
14	36.60	0.00	101.80	3.70	32.00	0.00	102.60	101.80	0.00	154.40	0.00	115.70	108.90	108.70	: 112.40
15	36.20	0.00	102.10	277.80	33.60	0.00	102.50	101.60	0.00	154.90	0.00	116.10	111.80	108.90	: 112.60
16	36.20	0.00	102.40	102.50	32.30	0.00	102.70	101.50	0.00	155.90	0.00	114.00	112.00	109.10	: 112.80
17	37.70	0.00	102.30	102.50	31.80	0.00	102.70	102.10	0.00	160.00	0.00	112.60	110.50	109.10	: 112.90
18	36.80	0.00	102.70	102.50	33.50	0.00	103.30	101.70	0.00	161.90	0.00	113.70	112.90	109.20	: 113.00
19	36.80	0.00	102.50	102.50	34.00	0.00	104.00	101.50	0.00	158.00	0.00	116.20	112.50	109.10	: 113.00
20	55.50	0.00	102.00	102.70	46.80	1.70	104.60	101.50	0.00	139.20	0.00	117.10	111.30	108.70	: 113.10
21	56.30	0.00	102.60	102.30	53.30	48.70	101.50	101.10	0.00	137.20	0.00	114.10	109.90	108.40	: 112.90
22	56.30	0.00	102.10	101.90	50.70	50.20	101.20	101.40	0.00	135.40	0.00	115.60	109.00	108.10	: 112.80
23	57.90	0.00	103.70	101.80	50.80	50.20	101.50	115.90	0.00	98.50	0.00	113.80	108.30	107.80	: 112.50
24	30.40	0.00	103.20	0.00	50.80	50.20	101.40	115.80	0.00	94.30	0.00	112.80	108.70	107.70	: 112.20

01 AUG 2003

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

01 AUG 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	LOWER GRANITE	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.		
1	11.70	1.90	104.30	100.50	104.10	0.00	14.50	0.00	106.50	102.50	14.30	0.00	102.60	101.30	
2	12.00	2.00	104.30	100.60	103.90	0.00	14.50	0.00	106.30	102.30	14.30	0.00	102.60	101.20	
3	11.70	1.90	104.10	100.60	103.90	0.00	15.50	0.00	106.30	102.40	15.80	0.00	103.00	101.10	
4	11.70	1.90	104.20	100.60	103.70	0.00	26.80	0.00	106.10	103.20	14.50	0.00	103.10	101.00	
5	12.00	2.00	104.20	100.40	103.60	0.00	28.80	0.00	106.20	102.50	21.30	0.00	103.10	101.00	
6	11.70	1.90	104.10	100.40	103.50	0.00	27.00	0.00	105.90	102.40	21.50	0.00	103.00	101.00	
7	12.00	2.00	104.00	100.20	103.70	0.00	26.90	0.00	105.80	102.30	23.60	0.00	102.90	101.00	
8	11.70	1.90	104.10	100.30	104.20	0.00	27.00	0.00	105.50	102.30	30.30	0.00	103.00	101.90	
9	12.00	1.90	104.30	100.60	104.70	0.00	31.20	0.00	105.90	102.30	31.00	0.00	103.30	101.60	
10	11.80	1.90	104.40	101.00	105.40	0.00	32.00	0.00	105.80	102.50	31.40	0.00	103.20	101.70	
11	12.00	1.90	104.50	101.40	106.10	0.00	32.00	0.00	106.40	102.50	31.70	0.00	103.30	101.70	
12	11.80	1.90	104.60	101.80	106.70	0.00	32.50	0.00	106.60	102.60	30.40	0.00	103.10	102.00	
13	11.80	1.90	104.80	102.20	107.00	0.00	33.80	0.00	106.90	102.70	30.40	0.00	103.60	101.80	
14	12.00	1.90	104.90	102.40	107.50	0.00	32.00	0.00	106.80	102.90	30.20	0.00	102.90	101.80	
15	11.70	1.90	104.80	102.60	107.50	0.00	32.00	0.00	106.80	103.00	30.10	0.00	103.30	101.70	
16	11.90	1.90	104.90	102.40	107.60	107.60	32.00	0.00	106.00	103.00	31.40	0.00	103.60	101.70	
17	11.70	1.90	104.80	102.30	107.60	108.00	31.60	0.00	105.50	103.00	31.60	0.00	103.50	101.70	
18	12.00	1.90	104.60	102.20	107.40	107.90	31.30	0.00	105.90	103.00	30.40	0.00	103.60	101.60	
19	11.80	1.90	104.50	101.80	106.70	107.30	32.40	0.00	106.00	103.20	37.00	0.00	103.30	101.40	
20	12.00	2.00	104.40	101.30	105.80	106.70	39.50	0.00	106.10	103.10	41.20	0.00	102.50	101.30	
21	11.80	1.90	104.30	101.00	105.10	105.80	42.60	0.00	106.30	103.10	41.40	0.00	102.90	101.10	
22	11.90	1.90	104.20	100.70	104.60	105.30	44.20	0.00	106.10	103.20	41.90	0.00	103.10	100.90	
23	11.70	1.90	104.20	100.50	104.30	104.50	31.40	0.00	105.80	103.10	39.90	0.00	103.10	100.90	
24	12.00	1.90	104.20	100.40	104.10	104.00	16.30	0.00	105.00	103.00	32.00	0.00	102.50	100.70	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	MCNARY	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	PASCO	
1	16.40	0.00	102.80	101.70	48.70	48.10	101.80	115.80	0.00	112.30	108.30	107.60	0.00	111.70	
2	13.60	0.00	102.60	101.20	31.90	31.40	101.80	115.90	0.00	111.40	107.50	107.40	0.00	111.10	
3	14.30	0.00	102.30	101.10	22.20	20.20	101.00	115.30	0.00	110.20	107.60	107.30	0.00	110.70	
4	14.80	0.00	102.00	100.90	17.40	15.40	100.50	114.80	0.00	109.10	108.00	107.40	0.00	110.20	
5	20.10	0.00	101.70	100.80	10.60	10.10	100.30	114.30	0.00	110.20	109.10	107.70	0.00	109.90	
6	21.20	0.00	101.50	100.50	18.30	10.20	100.20	112.80	0.00	111.40	108.20	107.70	0.00	109.50	
7	21.10	0.00	101.80	100.60	19.80	10.10	99.70	112.20	0.00	109.60	109.90	108.00	0.00	109.40	
8	21.50	0.00	101.80	100.70	19.80	9.40	99.50	111.50	0.00	108.30	109.70	108.10	0.00	109.30	
9	21.50	0.00	101.40	100.90	20.50	0.00	99.70	111.00	0.00	108.60	109.60	108.10	0.00	109.40	
10	29.40	0.00	102.10	101.50	25.60	0.00	100.20	110.80	0.00	108.20	109.50	108.00	0.00	109.70	
11	31.90	0.00	101.80	101.50	28.10	0.00	100.90	106.60	0.00	109.60	108.30	108.10	0.00	110.10	
12	36.00	0.00	101.20	101.50	28.40	0.00	101.10	103.50	0.00	113.20	108.60	108.00	0.00	110.50	
13	34.80	0.00	101.30	101.80	33.40	0.00	102.20	102.00	0.00	113.70	108.40	108.00	0.00	110.90	
14	32.50	0.00	102.10	-999.00	37.70	0.00	102.30	102.40	0.00	114.30	108.90	108.30	0.00	111.10	
15	32.50	0.00	102.00	102.20	35.90	0.00	102.10	102.20	0.00	115.00	108.20	108.50	0.00	111.30	
16	31.00	0.00	102.30	102.20	37.40	0.00	103.00	101.90	0.00	113.00	108.50	108.80	0.00	111.70	
17	37.60	0.00	102.40	102.40	35.90	0.00	102.90	101.90	0.00	111.60	109.20	108.90	0.00	112.00	
18	38.30	0.00	103.50	-999.00	37.50	0.00	103.20	101.90	0.00	110.60	108.90	108.90	0.00	112.20	
19	40.60	0.00	104.00	102.70	38.00	0.00	103.70	101.70	0.00	107.40	110.20	108.90	0.00	112.40	
20	40.90	0.00	104.50	102.20	36.60	0.20	103.50	101.60	0.00	107.30	111.80	109.00	0.00	112.50	
21	43.80	0.00	104.30	101.80	29.90	27.90	101.60	101.70	0.00	108.90	109.90	108.80	0.00	112.50	
22	42.80	0.00	103.70	101.70	32.00	29.90	101.80	102.40	0.00	112.80	109.90	108.40	0.00	112.20	
23	43.10	0.00	103.10	101.60	40.80	40.20	100.90	113.20	0.00	112.90	109.10	108.30	0.00	112.00	
24	43.40	0.00	103.10	101.40	40.50	40.00	102.70	115.20	0.00	112.70	108.80	108.30	0.00	111.80	

02 AUG 2003

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

02 AUG 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	LOWER GRANITE	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	LOWER GRANITE	LITTLE GOOSE
1	11.80	1.90	104.10	100.40	103.80	103.40	17.80	0.00	105.60	103.90	17.10	0.00	102.30	100.40	
2	11.70	1.90	104.00	100.50	103.70	102.80	16.00	0.00	105.10	103.00	16.50	0.00	101.70	100.40	
3	12.00	2.00	104.10	100.50	103.60	102.30	15.80	0.00	104.80	102.80	15.00	0.00	101.60	100.20	
4	11.70	1.90	104.00	100.60	103.50	101.80	15.70	0.00	104.60	102.80	14.80	0.00	101.80	100.00	
5	12.00	2.00	103.90	100.40	103.40	101.30	27.30	0.00	104.70	103.30	14.80	0.00	101.40	100.00	
6	11.80	1.90	103.90	100.40	103.40	100.90	27.00	0.00	104.10	103.00	16.10	0.00	101.80	100.00	
7	11.80	1.90	103.90	100.50	103.50	100.80	30.10	0.00	104.30	102.90	14.60	0.00	101.50	100.00	
8	12.00	1.90	104.00	100.60	104.10	101.10	31.50	0.00	103.90	102.80	14.70	0.00	101.40	100.20	
9	11.80	1.90	104.20	100.80	104.70	101.70	31.50	0.00	104.00	102.80	14.90	0.00	101.60	100.40	
10	12.00	1.90	-999.00	101.10	105.20	102.40	31.70	0.00	104.30	102.80	18.00	0.00	101.40	100.60	
11	11.80	1.90	-999.00	101.60	105.80	102.90	29.90	0.00	104.80	103.10	18.20	0.00	101.90	100.70	
12	12.00	2.00	-999.00	101.80	106.00	103.30	30.60	0.00	105.10	103.00	18.10	0.00	102.00	100.80	
13	11.80	1.90	104.60	101.80	106.40	103.90	33.10	0.00	104.90	103.10	28.30	0.00	102.50	101.50	
14	11.80	1.90	104.40	101.60	106.60	104.30	32.60	0.00	105.20	103.20	35.50	0.00	103.50	101.60	
15	12.00	1.90	104.20	101.70	106.20	104.40	37.50	0.00	105.40	103.20	39.10	0.00	102.10	101.10	
16	11.80	1.90	104.20	101.80	105.90	104.50	37.90	0.00	105.20	103.00	39.20	0.00	101.80	101.00	
17	12.00	1.90	104.30	101.60	105.70	104.80	38.30	0.00	104.80	103.00	39.00	0.00	101.80	100.90	
18	11.70	1.90	104.30	101.50	105.60	105.10	38.40	0.00	104.70	103.00	38.90	0.00	102.10	100.80	
19	11.90	1.90	104.20	101.30	105.30	105.10	49.50	0.00	104.70	103.10	48.10	0.00	102.40	104.00	
20	11.80	1.90	104.00	101.00	104.90	104.80	48.50	0.00	104.80	103.20	60.60	0.00	103.30	102.50	
21	12.00	1.90	104.00	100.80	104.40	104.20	44.30	0.00	104.60	103.00	59.50	0.00	104.30	101.70	
22	11.80	1.90	104.20	100.50	104.10	103.80	32.30	0.00	104.30	102.90	47.00	0.00	104.10	101.20	
23	11.80	1.90	104.10	100.30	103.90	103.40	28.10	0.00	104.40	102.60	43.30	0.00	103.80	101.10	
24	12.00	1.90	104.00	100.30	103.90	103.00	16.20	0.00	104.10	102.50	41.50	0.00	103.60	100.90	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	MCNARY	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	PASCO	GAS %SAT
1	32.10	0.00	103.00	101.10	42.00	40.00	103.50	116.00	0.00	110.70	0.00	112.30	109.10	108.30	111.50
2	17.30	0.00	102.20	100.90	35.00	34.40	101.90	116.00	0.00	100.60	0.00	111.10	110.60	108.60	111.40
3	14.50	0.00	102.30	100.70	24.10	23.60	101.50	116.00	0.00	109.90	0.00	109.60	110.50	108.50	111.20
4	14.30	0.00	102.50	100.70	15.70	15.10	101.70	115.70	0.00	115.30	0.00	109.20	109.40	108.40	110.90
5	14.30	0.00	101.80	100.60	15.40	14.80	101.30	114.90	0.00	117.60	0.00	109.50	109.50	108.40	110.90
6	14.20	0.00	101.60	100.50	12.80	12.20	101.60	114.50	0.00	149.30	0.00	110.60	108.60	108.40	110.50
7	14.50	0.00	101.60	100.60	10.60	10.00	100.70	113.80	0.00	135.50	0.00	110.90	108.90	108.10	110.30
8	14.20	0.00	101.60	100.60	12.30	10.20	100.40	112.80	0.00	139.30	0.00	110.70	109.00	108.20	110.00
9	14.30	0.00	101.70	100.60	10.60	10.10	100.40	112.70	0.00	138.40	0.00	108.90	109.30	108.10	110.00
10	16.80	0.00	101.70	101.10	10.60	10.00	100.60	112.90	0.00	138.10	0.00	108.10	110.00	108.50	110.10
11	18.60	0.00	102.20	101.70	10.60	10.10	100.70	113.60	0.00	138.20	0.00	109.40	109.50	108.70	110.60
12	17.10	0.00	102.60	103.40	12.10	10.10	100.60	115.50	0.00	138.70	0.00	107.90	109.60	108.60	110.90
13	26.00	0.00	102.70	101.90	22.20	5.00	101.00	117.40	0.00	139.50	0.00	108.30	109.80	108.50	111.20
14	35.00	0.00	102.40	101.80	28.60	0.00	102.00	118.40	0.00	142.40	0.00	109.80	109.10	108.50	111.30
15	33.60	0.00	102.20	101.80	30.00	0.00	102.70	110.70	0.00	147.10	0.00	110.80	108.70	108.40	111.00
16	38.80	0.00	102.90	101.60	38.80	0.00	103.40	102.80	0.00	147.40	0.00	111.90	108.80	108.10	110.30
17	40.40	0.00	102.90	103.00	38.10	0.00	103.60	103.00	0.00	147.10	0.00	112.30	109.80	108.00	109.40
18	41.10	0.00	102.90	102.10	44.70	0.00	103.70	102.20	0.00	146.90	0.00	112.30	108.50	107.90	108.90
19	51.10	0.00	103.00	101.40	47.50	0.00	103.70	101.50	0.00	154.80	0.00	111.50	108.60	107.70	108.80
20	59.50	0.00	103.00	101.20	45.60	0.00	103.60	101.40	0.00	155.80	0.00	111.50	108.20	107.80	108.70
21	62.50	0.00	101.70	101.10	47.60	41.10	101.50	101.80	0.00	159.40	0.00	111.20	107.80	107.90	108.50
22	62.40	0.00	102.90	101.00	50.60	50.10	101.90	110.90	0.00	155.80	0.00	110.60	108.10	107.50	108.40
23	56.20	0.00	102.20	101.10	51.60	51.10	102.00	116.00	0.00	155.60	0.00	109.40	107.80	107.50	108.10
24	55.90	0.00	102.90	101.10	50.70	50.10	102.30	116.40	0.00	152.80	0.00	107.60	107.50	107.70	107.70

03 AUG 2003

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

03 AUG 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT.	FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT.	FB	TAILW.
	KCFS	KCFS	TAI LW.	%SAT	KCFS	%SAT	KCFS	KCFS	FB	TAILW.	KCFS	KCFS	GAS %SAT.	FB	TAILW.
1	11.90	1.90	104.00	100.10	103.70	102.60	16.20	0.00	104.10	102.50	19.00	0.00	103.20	100.80	
2	11.90	1.90	103.90	100.10	103.60	102.10	16.20	0.00	103.80	102.50	18.60	0.00	103.10	100.80	
3	11.90	1.90	104.00	100.00	103.50	101.70	16.10	0.00	103.60	102.40	17.20	0.00	103.10	100.70	
4	11.90	1.90	103.90	100.10	103.40	101.50	16.30	0.00	103.60	102.30	15.30	0.00	103.20	100.50	
5	11.90	1.90	103.70	100.00	103.40	101.20	25.60	0.00	103.40	102.70	15.10	0.00	102.90	100.30	
6	11.90	1.90	103.50	100.00	103.30	101.00	25.80	0.00	103.20	102.60	15.70	0.00	102.60	100.10	
7	11.90	1.90	103.50	99.90	103.40	100.90	26.30	0.00	102.90	102.60	21.50	0.00	102.70	100.00	
8	11.90	1.90	103.50	100.00	103.40	100.90	26.00	0.00	102.80	102.20	22.10	0.00	102.50	100.10	
9	11.90	1.90	103.60	99.90	103.60	101.00	25.90	0.00	102.80	102.20	23.30	0.00	102.50	100.10	
10	11.90	1.90	103.60	100.00	104.00	101.20	26.00	0.00	102.80	102.10	26.70	0.00	102.50	100.40	
11	11.90	1.90	103.50	100.40	104.40	101.50	26.20	0.00	103.10	102.10	26.90	0.00	102.50	100.60	
12	11.90	1.90	103.40	100.50	104.40	101.80	26.10	0.00	103.20	102.10	26.90	0.00	102.80	100.70	
13	11.90	1.90	103.50	100.70	104.30	102.10	25.90	0.00	103.20	102.20	26.80	0.00	102.80	100.70	
14	11.90	1.90	103.40	100.70	104.30	102.40	26.00	0.00	103.30	102.20	26.70	0.00	102.80	100.80	
15	11.90	1.90	103.50	100.70	104.50	102.70	26.00	0.00	103.50	102.20	21.90	0.00	103.00	101.00	
16	11.90	1.90	103.30	100.90	104.30	103.10	26.80	0.00	103.70	102.30	20.30	0.00	103.20	101.10	
17	11.90	1.90	103.40	101.30	104.40	103.50	26.30	0.00	103.70	102.30	20.20	0.00	103.40	101.00	
18	11.80	1.90	103.50	101.20	104.40	103.90	26.70	0.00	103.80	102.30	21.70	0.00	103.70	101.00	
19	12.00	1.90	103.40	101.10	104.30	103.90	38.80	0.00	103.90	102.60	27.70	0.00	103.90	101.40	
20	11.80	1.90	103.40	100.90	104.00	103.60	40.70	0.00	103.80	102.30	44.70	0.00	104.10	102.70	
21	12.00	1.90	103.40	100.70	103.70	103.20	40.70	0.00	103.80	102.50	45.20	0.00	103.90	101.60	
22	11.80	1.90	103.30	100.30	103.40	102.80	39.80	0.00	103.60	102.30	44.40	0.00	103.70	101.30	
23	12.00	1.90	103.40	100.30	103.20	102.40	17.20	0.00	103.40	102.00	30.20	0.00	103.50	101.20	
24	12.00	1.90	103.20	100.20	103.10	102.10	16.30	0.00	103.30	101.90	18.60	0.00	103.00	100.90	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. OR FB	WA TAILW. FB	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB	TAILW.	
	KCFS	KCFS	%SAT	KCFS	KCFS	%SAT	KCFS	KCFS	%SAT	FB	KCFS	KCFS	%SAT	FB	TAILW.
1	44.50	0.00	102.60	100.90	50.70	50.20	102.30	116.30	0.00	107.10	107.40	107.80	0.00	107.80	
2	20.30	0.00	102.30	100.80	50.70	50.20	101.10	116.10	0.00	108.80	107.60	107.30	0.00	107.40	
3	14.30	0.00	102.20	100.80	40.30	38.20	101.80	116.10	0.00	109.10	107.10	107.00	0.00	106.90	
4	13.70	0.00	102.00	100.60	24.70	24.10	101.60	115.90	0.00	108.20	106.80	106.90	0.00	106.90	
5	13.70	0.00	101.40	100.50	17.00	16.20	101.10	115.60	0.00	108.20	106.90	106.80	0.00	106.50	
6	13.90	0.00	101.10	100.30	19.60	10.00	100.60	114.50	0.00	108.00	106.80	106.80	0.00	106.30	
7	22.30	0.00	101.30	100.60	19.20	10.00	100.40	113.00	0.00	107.50	107.00	106.60	0.00	106.10	
8	21.50	0.00	101.30	100.10	18.30	9.10	99.60	111.70	0.00	107.00	106.70	106.40	0.00	106.30	
9	21.30	0.00	101.00	100.10	9.70	0.20	100.10	110.80	0.00	107.20	106.70	106.40	0.00	106.70	
10	26.40	0.00	101.50	100.70	14.30	0.00	99.90	110.30	0.00	107.00	106.40	106.30	0.00	106.70	
11	26.30	0.00	101.40	100.40	25.80	0.00	99.50	110.30	0.00	106.80	106.40	106.40	0.00	106.90	
12	26.40	0.00	101.40	100.40	24.90	0.00	100.10	105.50	0.00	106.60	106.00	106.50	0.00	107.10	
13	26.90	0.00	101.50	100.50	25.30	0.00	100.60	102.50	0.00	106.30	106.80	106.50	0.00	106.90	
14	26.70	0.00	101.90	100.50	24.60	0.00	100.70	101.80	0.00	106.00	107.10	106.60	0.00	107.30	
15	22.40	0.00	102.60	100.70	20.70	0.00	100.80	101.80	0.00	106.60	106.80	106.60	0.00	107.60	
16	20.10	0.00	103.10	101.20	22.00	0.00	101.10	101.50	0.00	106.60	106.60	106.70	0.00	107.60	
17	20.10	0.00	102.60	101.20	20.50	0.00	100.50	101.50	0.00	107.20	107.20	106.60	0.00	107.90	
18	20.20	0.00	102.90	101.40	20.70	0.00	100.80	101.60	0.00	107.50	106.60	106.30	0.00	108.20	
19	27.30	0.00	102.90	101.80	22.00	0.00	101.40	102.00	0.00	107.20	106.50	106.00	0.00	108.40	
20	40.70	0.00	103.10	101.10	22.00	4.00	100.90	101.50	0.00	107.00	106.40	105.80	0.00	108.40	
21	53.90	0.00	103.90	101.40	40.40	39.90	100.80	101.60	0.00	106.70	106.70	105.60	0.00	108.40	
22	54.50	0.00	103.60	101.10	41.30	40.70	101.00	111.00	0.00	106.50	105.80	105.50	0.00	108.10	
23	48.40	0.00	103.50	100.90	40.60	40.10	101.20	115.80	0.00	106.30	104.80	105.40	0.00	107.90	
24	35.10	0.00	103.10	100.80	40.60	40.10	101.40	116.00	0.00	106.00	105.20	105.20	0.00	107.50	

04 AUG 2003

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

04 AUG 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT FB TAILW.			
1	11.80	1.90	103.20	100.00	103.10	101.80	16.20	0.00	103.10	101.70	18.30	0.00	102.90	100.50	
2	12.00	1.90	103.20	99.80	103.00	101.50	16.10	0.00	103.00	101.70	13.60	0.00	102.60	100.30	
3	11.80	1.90	103.20	99.80	102.90	101.30	16.00	0.00	102.80	101.70	13.30	0.00	102.40	100.00	
4	12.00	1.90	103.10	99.70	102.80	101.00	16.10	0.00	102.70	101.50	13.40	0.00	102.40	99.90	
5	11.80	1.90	103.10	99.60	102.80	100.80	16.50	0.00	102.60	101.30	13.40	0.00	102.30	99.70	
6	12.00	1.90	103.10	99.50	102.80	100.60	25.80	0.00	102.40	101.60	13.40	0.00	102.20	99.40	
7	11.80	1.90	103.00	99.60	102.90	100.60	25.90	0.00	102.30	101.50	13.30	0.00	101.90	99.40	
8	12.00	1.90	103.10	99.90	103.20	100.90	26.10	0.00	102.50	101.50	14.00	0.00	101.80	99.30	
9	11.80	1.90	103.20	100.10	103.80	101.60	31.00	0.00	102.80	101.60	31.90	0.00	102.10	100.40	
10	11.80	1.90	103.20	100.60	104.60	102.50	30.80	0.00	103.00	101.50	32.40	0.00	102.30	100.30	
11	12.00	1.90	103.40	101.20	105.20	103.50	30.60	0.00	103.40	102.60	32.50	0.00	102.20	100.50	
12	11.80	1.90	103.50	101.80	105.70	104.50	30.40	0.00	103.40	103.40	32.20	0.00	102.90	100.80	
13	12.00	1.90	103.60	102.40	106.10	105.70	16.80	0.00	103.80	103.80	23.20	0.00	103.20	100.80	
14	11.80	1.90	103.80	102.80	106.50	106.50	16.10	0.00	104.20	103.90	20.80	0.00	103.00	101.00	
15	12.00	1.90	103.70	103.30	106.70	107.20	16.00	0.00	104.50	104.20	16.80	0.00	103.00	101.20	
16	11.80	1.90	103.80	103.60	106.70	107.50	16.00	0.00	104.20	103.70	18.00	0.00	104.20	101.10	
17	12.00	1.90	103.70	103.50	105.30	107.80	15.90	0.00	104.30	103.10	16.50	0.00	103.30	101.10	
18	11.80	1.90	103.80	103.10	105.70	107.60	17.10	0.00	104.00	102.90	17.10	0.00	102.70	101.10	
19	12.00	1.90	103.50	102.80	105.70	107.20	39.00	0.00	104.40	103.30	29.50	0.00	104.10	101.40	
20	11.80	1.90	103.20	102.20	104.80	106.40	42.50	0.00	104.50	102.80	40.50	0.00	104.70	101.50	
21	12.00	1.90	102.90	101.70	104.20	105.60	46.80	0.00	104.50	102.50	42.40	0.00	107.00	104.30	
22	12.00	1.90	102.90	101.40	103.70	104.90	47.90	0.00	104.60	102.20	49.90	0.00	107.00	109.30	
23	11.80	1.90	102.80	101.30	103.40	104.20	38.60	0.00	104.20	102.00	41.50	0.00	105.60	104.00	
24	11.90	1.80	102.60	101.10	103.30	103.60	29.90	0.00	104.00	101.70	32.70	0.00	104.80	102.40	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT FB TAILW.	TOTAL DISCH KCFS	SPILL OR KCFS	GAS %SAT FB	WA	TAILW.	GAS %SAT
1	15.80	0.00	102.90	100.50	40.70	40.10	101.70	116.00	0.00	76.50	0.00	104.90	104.90	105.10	107.20
2	14.90	0.00	102.50	100.20	18.80	18.30	101.30	115.80	0.00	64.70	0.00	104.10	104.70	104.90	106.90
3	14.40	0.00	102.40	99.90	12.30	10.30	101.10	115.50	0.00	73.40	0.00	104.50	104.80	104.80	106.80
4	13.80	0.00	102.30	99.80	10.60	10.10	100.50	115.30	0.00	80.40	0.00	103.80	105.00	104.70	106.60
5	13.90	0.00	102.10	99.80	11.80	10.10	100.20	115.10	0.00	85.30	0.00	103.60	104.90	104.70	106.30
6	13.90	0.00	101.90	99.60	19.40	10.10	100.60	113.40	0.00	87.70	0.00	104.80	104.90	104.80	106.00
7	14.30	0.00	101.90	99.60	19.20	10.10	100.30	111.50	0.00	133.00	0.00	105.70	105.00	104.90	105.70
8	14.40	0.00	101.90	99.60	20.00	9.20	99.80	111.10	0.00	158.00	0.00	106.10	104.90	105.10	105.50
9	14.00	0.00	101.60	99.80	14.60	0.00	99.60	110.50	0.00	159.40	0.00	106.30	105.10	105.20	105.40
10	14.60	0.00	101.70	102.40	13.30	0.00	98.90	110.30	0.00	160.50	0.00	106.80	105.50	105.90	105.50
11	31.40	0.00	102.00	101.50	13.40	0.00	98.90	110.60	0.00	142.10	0.00	106.80	105.70	105.80	105.80
12	32.00	0.00	102.80	101.30	14.20	0.00	99.00	109.00	0.00	120.20	0.00	107.00	105.50	106.00	105.90
13	33.90	0.00	103.00	0.00	31.90	0.00	101.30	103.70	0.00	121.70	0.00	106.50	105.80	106.20	106.20
14	27.60	0.00	103.00	101.60	33.40	0.00	102.70	103.50	0.00	122.30	0.00	105.90	105.90	106.60	106.30
15	16.90	0.00	102.00	101.60	30.50	0.00	103.20	102.10	0.00	122.40	0.00	107.70	106.10	106.50	106.50
16	16.60	0.00	101.80	102.10	29.80	0.00	104.20	102.00	0.00	122.50	0.00	109.10	106.20	106.40	106.80
17	17.10	0.00	102.00	101.80	14.30	0.00	101.80	102.00	0.00	123.90	0.00	110.30	106.10	106.50	106.80
18	18.30	0.00	101.80	102.30	14.50	0.00	101.20	101.70	0.00	122.30	0.00	111.70	106.30	106.50	107.10
19	30.10	0.00	102.00	101.70	13.30	0.00	100.80	101.60	0.00	125.00	0.00	110.80	106.40	106.50	107.00
20	34.70	0.00	101.80	101.40	14.90	3.10	100.40	101.80	0.00	123.50	0.00	109.70	106.80	106.40	107.10
21	45.50	0.00	102.80	102.30	35.50	33.50	101.00	102.10	0.00	144.90	0.00	109.00	109.90	106.50	107.30
22	50.00	0.00	103.20	101.60	34.90	34.30	100.80	109.60	0.00	147.10	0.00	108.00	110.20	106.40	107.40
23	42.10	0.00	102.10	100.90	40.60	40.10	100.80	114.10	0.00	104.20	0.00	107.50	109.50	106.30	107.40
24	41.80	0.00	101.60	100.60	41.40	40.80	101.90	115.20	0.00	90.10	0.00	106.00	108.90	106.30	107.40

05 AUG 2003

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

05 AUG 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.			
1	9.90	0.00	99.80	100.80	103.00	103.00	15.80	0.00	103.60	101.10	19.60	0.00	104.30	102.10	
2	10.10	0.00	99.50	100.80	102.60	102.40	13.50	0.00	103.30	101.00	14.30	0.00	104.80	102.00	
3	9.90	0.00	99.50	100.90	101.40	102.10	13.60	0.00	103.00	100.80	13.90	0.00	105.00	101.50	
4	10.10	0.00	99.50	100.90	100.90	101.90	15.10	0.00	103.00	101.00	13.90	0.00	104.80	101.30	
5	9.90	0.00	99.30	100.90	100.80	101.30	14.10	0.00	103.10	101.00	14.00	0.00	104.60	101.00	
6	10.10	0.00	99.30	100.70	100.60	101.00	16.40	0.00	102.80	100.80	17.00	0.00	104.20	100.80	
7	9.90	0.00	99.40	100.80	100.90	100.90	28.40	0.00	102.70	101.20	26.60	0.00	103.90	101.00	
8	10.10	0.00	99.40	101.00	101.40	101.30	30.80	0.00	103.10	101.10	32.30	0.00	104.20	101.90	
9	9.90	0.00	99.60	101.10	102.00	102.00	30.90	0.00	103.20	101.10	30.20	0.00	103.90	101.20	
10	10.10	0.00	99.70	101.10	102.60	102.90	38.90	0.00	103.40	102.20	32.40	0.00	103.20	101.20	
11	9.90	0.00	99.70	101.40	102.90	103.10	39.00	0.00	103.70	101.60	37.20	0.00	104.30	101.30	
12	10.10	0.00	99.80	102.00	103.30	103.40	39.60	0.00	103.90	101.50	39.20	0.00	105.30	101.40	
13	9.90	0.00	99.80	101.90	103.50	103.80	43.70	0.00	104.00	101.30	40.80	0.00	105.70	101.20	
14	10.10	0.00	99.80	102.60	103.60	104.30	15.20	0.00	104.20	106.10	44.60	0.00	106.00	102.30	
15	9.90	0.00	100.30	103.20	104.20	105.30	29.80	0.00	104.60	106.80	39.60	0.00	106.00	102.20	
16	10.10	0.00	100.20	103.60	104.80	106.00	21.70	0.00	105.10	111.10	33.60	0.00	104.90	101.70	
17	9.90	0.00	100.40	103.70	104.90	106.30	27.90	0.00	105.30	103.10	29.60	0.00	104.00	101.60	
18	10.00	0.00	100.20	103.50	104.60	106.40	29.40	0.00	105.40	102.30	26.30	0.00	103.50	101.30	
19	9.90	0.00	100.00	103.10	104.00	106.00	31.40	0.00	105.40	102.10	26.20	0.00	104.20	101.10	
20	10.10	0.00	100.10	102.60	103.20	105.40	32.20	0.00	105.90	101.70	29.50	0.00	105.70	100.80	
21	10.10	0.00	99.80	102.10	102.40	104.60	37.60	0.00	105.40	101.60	34.20	0.00	105.30	100.40	
22	9.90	0.00	99.70	101.70	102.00	103.60	37.40	0.00	104.80	100.90	36.70	0.00	104.60	100.70	
23	10.10	0.00	99.60	101.00	101.40	103.30	26.20	0.00	103.20	101.00	27.80	0.00	103.90	100.40	
24	9.90	0.00	99.70	100.80	101.60	102.60	16.10	0.00	102.90	100.70	15.20	0.00	103.10	100.20	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.			
1	34.50	0.00	102.30	100.40	40.70	40.10	101.30	115.80	0.00	86.80	0.00	106.30	109.20	106.00	107.20
2	20.80	0.00	101.90	100.70	42.10	40.10	102.90	115.90	0.00	81.60	0.00	105.10	108.90	105.70	107.40
3	14.70	0.00	101.50	100.30	25.80	25.20	101.20	115.90	0.00	79.50	0.00	104.70	108.70	106.00	106.90
4	14.20	0.00	101.60	100.20	17.50	17.00	100.70	115.50	0.00	70.80	0.00	107.80	108.60	106.00	106.90
5	15.50	0.00	102.10	100.00	12.00	10.10	100.10	115.20	0.00	69.80	0.00	108.00	107.50	106.10	106.70
6	16.80	0.00	101.80	102.40	19.30	10.10	99.30	113.60	0.00	88.80	0.00	107.30	106.80	105.90	106.50
7	19.80	0.00	101.70	99.80	19.40	10.10	99.00	111.80	0.00	111.20	0.00	106.80	106.80	105.90	106.20
8	27.60	0.00	101.70	100.10	19.80	9.10	99.80	111.20	0.00	108.60	0.00	106.60	106.30	106.00	106.10
9	31.20	0.00	102.30	100.10	23.80	0.00	100.30	110.30	0.00	114.40	0.00	105.30	106.20	105.80	106.20
10	33.30	0.00	101.80	100.60	29.50	0.00	102.40	109.60	0.00	117.80	0.00	105.90	106.70	106.00	106.30
11	36.20	0.00	101.80	100.70	33.30	0.00	103.20	102.90	0.00	116.30	0.00	105.20	107.20	106.30	106.30
12	40.50	0.00	101.60	0.00	37.20	0.00	103.80	102.60	0.00	118.00	0.00	104.60	107.40	106.50	106.60
13	43.70	0.00	103.00	101.70	39.20	0.00	104.30	101.80	0.00	133.00	0.00	107.00	107.30	106.70	107.00
14	45.10	0.00	102.90	101.20	43.10	0.00	105.00	101.90	0.00	146.70	0.00	110.40	107.30	106.80	107.40
15	41.00	0.00	102.60	101.70	41.20	0.00	105.30	101.90	0.00	127.20	0.00	111.30	107.30	106.90	107.90
16	41.00	0.00	103.50	101.70	39.10	0.00	105.50	102.00	0.00	135.70	0.00	111.40	107.50	106.70	108.50
17	36.00	0.00	103.50	101.70	34.60	0.00	105.80	101.90	0.00	140.10	0.00	107.50	108.60	106.40	108.90
18	31.40	0.00	104.40	101.70	30.90	0.00	104.70	101.40	0.00	139.20	0.00	107.00	108.90	106.30	109.20
19	28.40	0.00	104.90	101.40	28.80	0.00	103.40	101.70	0.00	127.60	0.00	107.20	108.50	106.30	109.30
20	34.00	0.00	105.70	100.70	26.60	11.30	101.00	100.90	0.00	161.10	0.00	109.50	106.80	106.20	108.80
21	42.30	0.00	103.70	100.30	36.70	35.50	100.60	101.00	0.00	163.30	0.00	108.30	106.30	105.60	108.60
22	42.60	0.00	103.30	100.10	27.10	26.60	100.20	112.20	0.00	161.50	0.00	107.60	105.60	105.40	108.40
23	29.70	0.00	102.90	99.90	28.90	28.30	99.90	114.30	0.00	106.60	0.00	106.50	104.60	104.90	107.90
24	14.90	0.00	100.60	99.60	16.80	14.70	99.70	113.60	0.00	96.20	0.00	105.80	104.50	104.90	107.40

06 AUG 2003

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

06 AUG 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.			
1	10.10	0.00	99.70	100.50	101.40	102.30	15.70	0.00	103.90	100.50	14.60	0.00	103.00	100.10	
2	9.90	0.00	99.70	100.40	101.00	101.60	15.70	0.00	103.70	100.40	13.20	0.00	102.30	100.30	
3	10.10	0.00	99.40	100.40	100.80	101.20	15.60	0.00	103.50	100.30	13.30	0.00	101.80	100.10	
4	9.90	0.00	99.60	100.40	100.80	100.80	17.40	0.00	103.30	100.10	13.30	0.00	101.70	100.10	
5	10.10	0.00	99.40	100.40	100.80	100.40	16.00	0.00	103.20	100.30	13.30	0.00	101.20	99.90	
6	9.90	0.00	99.40	100.20	100.70	100.00	15.60	0.00	103.40	100.10	13.40	0.00	101.20	99.80	
7	10.10	0.00	99.40	100.30	100.90	99.90	15.70	0.00	103.40	100.00	13.20	0.00	100.30	99.80	
8	9.90	0.00	99.40	100.40	101.50	100.30	30.80	0.00	103.10	100.80	14.10	0.00	100.60	99.90	
9	10.10	0.00	99.70	100.50	102.10	100.50	29.90	0.00	103.00	100.20	31.40	0.00	101.10	100.90	
10	10.10	0.00	99.70	100.90	102.80	101.40	36.20	0.00	103.20	100.20	31.00	0.00	100.80	100.40	
11	9.90	0.00	99.70	101.20	103.30	102.20	37.70	0.00	103.30	100.20	39.10	0.00	101.00	100.30	
12	10.10	0.00	100.10	101.70	103.60	103.20	37.60	0.00	103.90	100.30	38.50	0.00	101.00	100.50	
13	9.90	0.00	100.10	102.30	104.10	104.20	37.60	0.00	103.90	100.30	38.30	0.00	101.10	100.70	
14	10.10	0.00	100.00	102.90	104.60	105.20	34.20	0.00	104.50	100.40	31.90	0.00	101.10	102.50	
15	9.90	0.00	100.10	103.40	105.00	105.90	29.90	0.00	104.80	100.40	31.10	0.00	101.70	101.90	
16	10.10	0.00	100.20	103.40	105.10	106.50	30.00	0.00	104.90	100.30	32.50	0.00	101.50	101.10	
17	9.90	0.00	99.70	103.60	104.60	106.70	30.00	0.00	105.90	100.50	32.40	0.00	101.60	101.20	
18	10.10	0.00	99.80	103.20	104.00	106.80	29.80	0.00	104.90	100.40	31.00	0.00	101.70	101.00	
19	9.90	0.00	99.80	102.60	103.30	106.40	30.00	0.00	104.40	100.30	31.90	0.00	101.30	100.90	
20	10.10	0.00	99.80	102.10	102.80	105.70	35.00	0.00	105.00	100.30	44.50	0.00	101.60	101.30	
21	9.90	0.00	99.50	101.60	102.20	104.80	39.00	0.00	105.10	100.20	43.00	0.00	101.50	100.80	
22	10.10	0.00	99.60	101.20	101.80	104.10	42.10	0.00	105.50	100.20	44.00	0.00	101.60	100.50	
23	9.90	0.00	99.60	101.00	101.40	103.50	30.10	0.00	104.80	100.00	41.70	0.00	101.90	100.70	
24	10.10	0.00	99.60	100.80	101.30	103.00	14.30	0.00	104.30	100.20	22.30	0.00	102.20	100.60	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT
1	13.70	0.00	100.40	99.40	13.60	10.00	99.50	113.10	0.00	105.70	104.50	104.90	13.60	0.00	107.20
2	13.80	0.00	100.30	99.40	10.60	10.00	99.40	113.00	0.00	104.90	104.80	104.90	13.70	0.00	106.70
3	13.90	0.00	100.20	99.40	10.70	10.10	99.60	112.70	0.00	105.20	104.70	104.80	13.80	0.00	106.50
4	14.00	0.00	100.20	99.30	15.40	14.80	99.60	111.40	0.00	103.90	104.60	104.70	13.90	0.00	105.90
5	14.10	0.00	100.00	99.20	15.90	15.10	99.50	111.20	0.00	103.70	104.50	104.60	14.00	0.00	105.80
6	15.60	0.00	100.10	99.20	19.20	10.10	99.20	111.20	0.00	104.10	104.40	104.50	15.60	0.00	105.60
7	14.00	0.00	100.10	99.40	18.10	8.70	98.70	111.20	0.00	105.00	104.30	104.40	14.10	0.00	105.30
8	14.00	0.00	100.30	99.10	12.20	0.00	98.50	111.30	0.00	105.10	103.90	104.50	14.20	0.00	105.50
9	14.40	0.00	100.10	99.30	14.10	0.00	98.60	111.00	0.00	104.30	104.40	104.40	14.40	0.00	105.90
10	31.60	0.00	99.90	99.70	13.50	0.00	98.90	111.00	0.00	104.20	104.60	104.50	31.60	0.00	106.40
11	30.80	0.00	100.20	100.00	31.50	0.00	100.00	104.30	0.00	104.40	104.60	104.60	30.80	0.00	106.80
12	30.60	0.00	100.60	100.30	32.10	0.00	100.00	103.00	0.00	106.30	104.40	104.70	30.60	0.00	107.50
13	31.40	0.00	100.50	0.00	33.60	0.00	100.40	101.20	0.00	106.50	104.50	104.60	31.40	0.00	108.20
14	40.60	0.00	99.80	100.50	32.70	0.00	101.10	101.10	0.00	106.60	104.60	104.70	40.60	0.00	109.00
15	39.50	0.00	101.40	100.70	32.20	0.00	101.40	101.40	0.00	107.10	104.40	104.60	39.50	0.00	109.60
16	39.40	0.00	101.50	100.90	39.40	0.00	101.80	101.10	0.00	107.50	104.40	104.50	39.40	0.00	110.00
17	33.00	0.00	101.50	101.00	40.10	0.00	102.50	101.00	0.00	107.90	104.30	104.90	33.00	0.00	110.50
18	31.60	0.00	101.60	101.10	40.00	0.00	103.70	100.90	0.00	105.50	104.30	104.80	31.60	0.00	110.80
19	31.80	0.00	102.00	101.10	40.70	0.00	104.50	100.90	0.00	109.40	104.30	104.60	31.80	0.00	111.00
20	44.80	0.00	102.80	101.90	40.40	1.50	104.00	100.70	0.00	109.10	104.30	104.40	44.80	0.00	111.10
21	42.30	0.00	103.10	100.70	47.20	42.70	101.10	100.70	0.00	107.40	106.00	104.30	42.30	0.00	111.20
22	50.00	0.00	102.90	100.40	45.50	44.90	100.90	111.50	0.00	106.00	105.30	104.40	50.00	0.00	111.20
23	50.50	0.00	102.80	100.30	45.50	44.90	100.80	113.70	0.00	107.00	104.30	104.50	50.50	0.00	111.20
24	41.20	0.00	102.00	100.50	46.30	45.80	101.00	114.10	0.00	106.20	104.10	104.70	41.20	0.00	111.00

07 AUG 2003

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

07 AUG 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	LITTLE GOOSE	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.		
1	9.90	0.00	99.60	100.80	101.10	102.50	14.20	0.00	103.80	99.90	15.00	0.00	102.30	100.60	
2	10.10	0.00	99.50	100.80	101.00	102.00	14.30	0.00	103.60	99.80	14.60	0.00	102.40	100.50	
3	9.90	0.00	99.40	100.80	101.00	101.50	14.20	0.00	103.20	99.60	14.60	0.00	102.70	100.30	
4	10.10	0.00	99.40	100.80	100.80	100.90	15.70	0.00	102.90	99.70	14.70	0.00	102.60	100.30	
5	9.90	0.00	99.50	100.60	100.70	100.50	26.30	0.00	103.30	99.90	14.90	0.00	102.50	100.20	
6	10.10	0.00	99.40	100.50	100.70	100.00	31.90	0.00	103.00	99.70	20.30	0.00	102.30	100.00	
7	9.90	0.00	99.30	100.60	100.70	99.80	37.20	0.00	103.20	99.80	25.60	0.00	102.10	100.50	
8	10.10	0.00	99.40	100.70	101.20	100.10	38.10	0.00	102.90	99.60	25.70	0.00	102.10	100.60	
9	9.90	0.00	99.50	101.00	101.90	100.60	31.40	0.00	102.00	103.50	25.70	0.00	101.40	100.40	
10	10.10	0.00	99.60	101.40	102.60	101.30	31.00	0.00	101.20	100.20	30.90	0.00	101.40	100.40	
11	10.10	0.00	99.70	101.80	103.10	102.40	31.10	0.00	101.30	100.00	27.60	0.00	101.90	100.60	
12	9.90	0.00	99.90	102.20	103.80	103.50	30.70	0.00	101.20	99.90	28.80	0.00	102.00	100.80	
13	10.10	0.00	99.80	102.80	104.20	104.50	39.90	0.00	101.90	100.30	36.60	0.00	102.10	100.90	
14	9.90	0.00	100.00	103.30	104.60	105.50	40.20	0.00	102.40	100.10	35.90	0.00	101.10	101.10	
15	10.10	0.00	100.00	103.60	104.80	106.40	39.90	0.00	102.70	100.20	40.30	0.00	100.90	101.20	
16	9.90	0.00	100.10	103.90	104.90	106.90	31.90	0.00	102.30	100.10	40.40	0.00	101.20	101.20	
17	10.10	0.00	99.80	103.70	104.80	107.10	31.20	0.00	102.20	100.00	33.00	0.00	101.40	101.40	
18	9.90	0.00	99.70	103.20	104.50	106.80	30.60	0.00	102.10	100.00	35.00	0.00	101.50	101.20	
19	10.10	0.00	99.60	102.90	103.90	106.40	30.80	0.00	101.60	100.00	35.20	0.00	102.10	100.90	
20	9.90	0.00	99.40	102.40	102.90	105.50	40.10	0.00	102.10	100.10	42.30	0.00	102.50	100.70	
21	10.10	0.00	99.30	101.70	102.00	104.80	40.40	0.00	102.10	100.10	43.20	0.00	103.00	100.90	
22	9.90	0.00	99.20	101.40	101.50	104.10	39.50	0.00	102.40	100.00	41.60	0.00	102.50	100.40	
23	10.10	0.00	99.10	101.20	101.30	103.50	31.90	0.00	102.00	100.00	35.50	0.00	102.10	100.40	
24	9.90	0.00	99.00	101.10	101.00	102.90	28.40	0.00	101.80	99.90	31.00	0.00	101.60	100.30	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	PASCO	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	GAS %SAT	
1	22.00	0.00	101.70	100.30	39.40	38.90	102.00	114.90	96.40	105.70	105.50	105.10	110.90		
2	16.20	0.00	101.90	100.10	22.30	21.70	102.20	114.70	107.30	106.30	105.20	104.80	110.70		
3	14.40	0.00	102.10	100.80	12.00	9.90	101.20	114.30	105.00	106.50	105.30	104.50	110.20		
4	14.40	0.00	101.60	99.90	10.60	10.10	101.00	113.80	104.50	105.50	104.60	104.40	109.90		
5	14.40	0.00	101.40	99.70	12.20	9.90	100.40	113.10	128.40	105.30	103.90	104.50	109.50		
6	19.70	0.00	101.30	99.40	20.20	9.90	100.10	112.40	121.20	105.50	103.50	104.30	108.90		
7	21.90	0.00	101.30	99.40	19.10	9.90	99.80	110.90	121.80	105.30	103.40	104.00	108.40		
8	20.00	0.00	100.90	103.20	18.90	9.20	99.50	111.00	122.20	104.70	103.70	103.80	108.10		
9	20.40	0.00	100.80	99.80	20.10	0.00	99.60	110.90	122.90	104.40	103.80	103.70	107.90		
10	32.10	0.00	101.50	99.70	27.50	0.00	100.20	110.90	137.10	104.50	103.70	103.90	107.90		
11	27.80	0.00	101.90	100.80	23.10	0.00	100.20	104.70	115.80	105.30	103.70	104.20	108.10		
12	26.60	0.00	102.20	101.80	23.00	0.00	100.00	102.90	126.10	106.20	103.50	104.20	108.20		
13	27.60	0.00	102.10	100.80	24.30	0.00	100.70	104.90	125.60	107.30	103.00	104.40	108.70		
14	32.20	0.00	102.30	101.60	27.00	0.00	102.10	102.60	129.00	107.50	103.20	104.60	109.00		
15	41.80	0.00	103.20	103.50	39.10	0.00	100.80	102.20	127.00	107.30	104.10	104.70	109.20		
16	42.10	0.00	101.50	103.80	41.80	0.00	101.40	101.80	127.50	108.10	104.60	104.80	109.10		
17	40.80	0.00	101.40	101.60	40.30	0.00	101.60	101.40	127.00	108.90	104.80	104.80	108.90		
18	41.30	0.00	103.10	101.40	41.80	0.00	104.10	101.60	126.50	107.40	104.80	104.80	108.90		
19	40.80	0.00	103.60	101.10	40.90	0.00	103.80	101.50	126.30	106.40	104.70	104.70	108.80		
20	46.80	0.00	102.90	100.80	44.70	1.60	103.00	101.60	133.70	108.10	105.20	104.60	108.90		
21	54.00	0.00	102.80	100.40	41.90	36.80	101.20	100.80	137.30	109.60	105.20	104.30	108.90		
22	54.40	0.00	102.10	100.30	39.50	38.90	100.80	109.80	137.20	109.70	105.20	104.40	108.90		
23	50.30	0.00	102.80	100.00	39.80	39.20	101.00	114.90	130.40	109.20	105.40	104.40	108.90		
24	33.90	0.00	102.80	99.90	51.10	50.50	102.60	115.20	121.40	108.50	106.00	104.50	108.80		

08 AUG 2003

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

08 AUG 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.			
1	10.10	0.00	99.00	101.10	100.90	102.30	15.80	0.00	101.20	100.00	26.80	0.00	101.60	100.10	
2	10.10	0.00	99.10	101.10	100.70	101.70	15.90	0.00	101.40	99.90	21.90	0.00	101.70	100.10	
3	9.90	0.00	99.10	101.10	100.70	101.30	15.60	0.00	101.40	99.90	20.40	0.00	101.90	100.10	
4	10.10	0.00	99.10	101.10	100.50	100.80	15.40	0.00	101.70	99.90	14.90	0.00	102.00	100.10	
5	9.90	0.00	99.10	100.90	100.50	100.40	26.80	0.00	102.60	100.60	16.40	0.00	102.20	100.10	
6	10.10	0.00	99.10	100.80	100.50	100.00	27.00	0.00	102.00	100.40	14.70	0.00	102.10	100.00	
7	9.90	0.00	99.10	100.80	100.80	100.00	31.10	0.00	102.40	100.30	20.30	0.00	102.10	100.00	
8	9.80	0.00	99.20	100.90	101.30	100.20	39.50	0.00	102.60	100.50	36.00	0.00	102.40	104.10	
9	8.00	0.00	99.30	101.20	101.90	100.50	40.60	0.00	103.10	100.50	40.80	0.00	101.90	101.60	
10	10.10	0.00	99.20	101.80	102.50	101.40	37.60	0.00	103.60	100.50	35.40	0.00	103.00	101.40	
11	9.90	0.00	99.30	102.10	102.90	102.30	38.70	0.00	104.80	100.70	34.50	0.00	103.50	101.50	
12	10.10	0.00	99.80	102.70	103.10	103.50	38.20	0.00	105.80	101.00	34.60	0.00	104.30	101.70	
13	10.10	0.00	100.20	103.40	103.60	104.60	40.20	0.00	106.20	101.10	42.60	0.00	105.00	102.20	
14	9.90	0.00	100.30	104.00	104.30	105.40	40.40	0.00	106.90	101.30	42.00	0.00	106.00	102.20	
15	10.10	0.00	100.40	104.40	104.70	106.30	37.90	0.00	106.90	101.10	33.80	0.00	105.50	102.30	
16	9.90	0.00	100.30	104.60	105.00	106.80	38.00	0.00	106.40	101.30	33.40	0.00	105.70	102.30	
17	10.10	0.00	100.40	104.60	104.90	106.90	38.10	0.00	106.00	101.30	33.30	0.00	104.50	102.10	
18	9.90	0.00	100.20	104.20	104.60	106.80	28.10	0.00	106.40	101.30	33.10	0.00	104.70	101.90	
19	10.10	0.00	100.00	103.50	104.00	106.40	29.40	0.00	106.80	101.30	34.60	0.00	104.20	101.80	
20	10.00	0.00	99.80	102.90	103.20	105.50	35.40	0.00	105.80	101.20	38.60	0.00	103.30	101.70	
21	10.10	0.00	99.60	102.20	102.40	104.60	31.30	0.00	104.60	101.10	31.80	0.00	103.10	101.50	
22	9.90	0.00	99.70	101.70	102.00	104.00	33.10	0.00	104.00	101.00	38.50	0.00	102.60	101.20	
23	10.10	0.00	99.50	101.40	101.60	103.30	33.70	0.00	103.60	100.90	39.20	0.00	102.30	101.20	
24	10.00	0.00	99.40	101.20	101.30	102.70	25.90	0.00	103.40	100.80	34.10	0.00	102.10	101.00	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL OR KCFS	GAS %SAT. WA FB	TAILW.	GAS %SAT	
1	21.20	0.00	103.10	99.90	50.00	49.40	101.00	114.50	0.00	92.20	0.00	106.30	106.20	104.50	108.70
2	17.80	0.00	102.40	99.80	25.50	24.90	101.00	114.10	0.00	89.10	0.00	106.20	106.20	104.40	108.50
3	19.40	0.00	102.40	99.60	21.80	19.70	100.80	113.80	0.00	118.00	0.00	106.50	106.40	104.60	108.40
4	14.80	0.00	102.00	99.50	15.90	15.30	100.40	113.60	0.00	91.40	0.00	105.70	107.00	104.40	108.20
5	16.00	0.00	101.40	99.50	11.60	10.00	100.10	112.90	0.00	116.60	0.00	106.60	107.40	104.20	107.60
6	17.00	0.00	101.60	99.70	20.70	10.00	101.10	112.90	0.00	96.10	0.00	106.10	106.70	103.90	107.30
7	17.70	0.00	101.40	100.10	27.20	14.80	102.00	112.70	0.00	112.00	0.00	106.20	105.70	104.00	107.20
8	16.70	0.00	101.40	100.20	32.10	18.20	102.10	111.50	0.00	124.30	0.00	106.00	105.60	104.30	107.00
9	29.00	0.00	101.20	100.00	31.80	0.00	103.10	113.00	0.00	127.10	0.00	105.40	106.00	104.40	107.00
10	34.00	0.00	101.70	100.50	33.10	0.00	104.30	111.20	0.00	127.70	0.00	104.10	106.50	104.60	107.30
11	34.10	0.00	104.00	101.10	34.60	0.00	105.10	102.80	0.00	122.20	0.00	103.50	106.10	104.70	107.60
12	34.10	0.00	103.80	101.50	33.90	0.00	105.70	102.60	0.00	118.20	0.00	103.50	106.00	104.90	108.20
13	39.10	0.00	102.80	101.90	33.90	0.00	103.50	102.40	0.00	117.90	0.00	104.90	106.40	105.10	108.70
14	41.30	0.00	103.00	101.90	32.70	0.00	103.90	102.40	0.00	117.70	0.00	109.20	105.90	105.20	109.00
15	48.60	0.00	103.70	102.60	32.60	0.00	104.50	102.60	0.00	118.50	0.00	111.20	106.00	105.20	109.30
16	48.90	0.00	105.70	102.40	34.70	0.00	104.10	102.40	0.00	125.50	0.00	112.10	107.00	105.10	109.50
17	51.50	0.00	104.70	102.30	32.50	0.00	103.60	102.20	0.00	123.80	0.00	106.70	107.70	105.00	109.80
18	49.70	0.00	105.30	102.40	32.70	0.00	103.30	102.30	0.00	102.90	0.00	105.30	106.90	104.90	109.90
19	50.50	0.00	106.00	102.10	43.50	0.00	101.80	102.00	0.00	137.20	0.00	112.30	106.90	104.80	109.90
20	42.50	0.00	105.90	101.70	47.20	1.80	101.80	101.60	0.00	117.30	0.00	112.70	105.80	104.60	109.90
21	36.60	0.00	104.80	101.60	42.20	37.60	101.00	101.40	0.00	119.20	0.00	111.60	104.90	104.20	109.80
22	34.90	0.00	103.60	101.00	41.90	39.80	100.80	110.20	0.00	120.50	0.00	111.30	104.40	104.00	109.80
23	30.90	0.00	102.40	100.80	28.40	27.90	101.10	115.40	0.00	117.40	0.00	110.60	103.70	104.10	109.80
24	29.60	0.00	101.40	100.50	27.50	26.90	100.70	115.70	0.00	110.40	0.00	108.20	103.60	104.10	109.80

09 AUG 2003

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

09 AUG 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT FB TAILW.			
1	10.10	0.00	99.30	101.00	101.10	102.20	24.50	0.00	103.90	100.80	29.10	0.00	102.60	100.80	
2	10.00	0.00	99.30	101.00	100.90	101.60	18.40	0.00	104.00	100.60	19.40	0.00	102.20	100.50	
3	10.10	0.00	99.20	100.90	100.70	101.20	18.10	0.00	104.40	100.50	19.20	0.00	101.60	100.40	
4	10.00	0.00	99.10	100.70	100.60	100.70	18.10	0.00	103.90	100.50	19.10	0.00	101.40	100.30	
5	10.10	0.00	99.10	100.70	100.40	100.20	20.20	0.00	103.50	100.30	18.20	0.00	101.40	100.20	
6	9.90	0.00	99.00	100.50	100.30	99.80	17.90	0.00	103.70	100.50	15.00	0.00	101.30	100.00	
7	10.10	0.00	99.00	100.60	100.40	99.80	19.10	0.00	104.20	100.50	16.30	0.00	101.20	100.10	
8	10.00	0.00	99.10	100.70	100.80	100.00	26.90	0.00	104.30	100.60	18.30	0.00	100.80	100.20	
9	10.10	0.00	99.30	101.20	101.30	100.70	34.70	0.00	104.40	100.70	28.40	0.00	102.30	100.80	
10	10.10	0.00	99.60	101.80	102.20	101.60	37.40	0.00	103.50	101.10	35.20	0.00	102.00	102.00	
11	10.00	0.00	99.80	102.30	102.70	102.50	36.80	0.00	103.90	101.10	36.60	0.00	101.40	100.90	
12	10.00	0.00	99.90	103.00	103.40	103.70	37.70	0.00	105.10	101.20	39.40	0.00	102.50	101.00	
13	10.10	0.00	100.10	103.60	103.90	104.70	39.50	0.00	105.70	101.60	38.20	0.00	104.20	101.20	
14	10.10	0.00	100.20	104.10	104.30	105.60	38.20	0.00	105.60	101.50	38.10	0.00	104.20	101.20	
15	10.00	0.00	100.30	104.40	104.50	106.40	33.60	0.00	105.00	101.30	38.00	0.00	103.50	101.30	
16	10.10	0.00	100.20	104.20	104.70	106.90	37.10	0.00	105.50	101.10	39.50	0.00	104.40	101.20	
17	10.00	0.00	100.30	103.80	104.70	107.10	33.70	0.00	105.00	101.20	36.50	0.00	104.70	101.10	
18	10.10	0.00	100.10	103.30	104.60	106.80	33.40	0.00	104.30	101.20	36.70	0.00	103.60	101.60	
19	10.00	0.00	100.00	102.60	104.00	106.20	33.40	0.00	103.40	101.20	36.20	0.00	104.00	101.40	
20	10.10	0.00	99.80	101.70	103.10	105.40	32.10	0.00	103.80	101.00	35.90	0.00	104.20	101.20	
21	10.00	0.00	99.60	101.20	102.30	104.40	30.30	0.00	103.10	100.80	34.60	0.00	103.60	100.80	
22	10.10	0.00	99.50	100.90	101.80	103.70	33.70	0.00	102.50	100.90	34.70	0.00	103.30	100.80	
23	10.00	0.00	99.50	100.70	101.50	103.20	26.70	0.00	103.60	100.60	28.70	0.00	102.80	100.50	
24	10.20	0.00	99.50	100.70	101.20	102.60	26.30	0.00	104.00	100.50	28.20	0.00	103.30	100.30	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT FB TAILW.			
1	29.40	0.00	101.10	100.30	27.40	26.90	100.60	114.90	0.00	99.30	0.00	108.00	104.50	104.00	: 110.00
2	28.20	0.00	100.90	100.20	29.40	27.30	100.50	114.30	0.00	97.00	0.00	107.50	105.00	104.00	: 109.80
3	18.50	0.00	100.90	100.00	20.50	19.90	100.20	114.30	0.00	97.30	0.00	108.20	104.30	104.00	: 109.70
4	17.20	0.00	100.70	99.70	20.40	19.80	100.10	114.30	0.00	95.60	0.00	108.80	104.70	104.00	: 109.40
5	15.60	0.00	100.70	99.90	20.10	18.50	99.80	114.20	0.00	95.40	0.00	108.80	104.70	103.80	: 109.10
6	15.90	0.00	100.80	99.70	19.70	10.20	99.30	113.60	0.00	93.70	0.00	107.80	104.20	103.60	: 109.00
7	14.30	0.00	100.60	100.40	19.50	10.00	98.90	113.50	0.00	98.30	0.00	107.50	103.50	103.70	: 108.80
8	14.40	0.00	100.60	99.70	18.10	8.50	98.00	113.20	0.00	134.70	0.00	107.40	103.80	104.00	: 108.80
9	15.00	0.00	100.70	100.00	13.70	0.00	98.80	112.10	0.00	134.80	0.00	107.30	104.70	104.50	: 108.70
10	27.60	0.00	101.00	100.50	21.90	0.00	100.80	111.60	0.00	139.30	0.00	103.70	108.20	104.70	: 109.00
11	34.70	0.00	101.20	100.90	28.90	0.00	101.10	110.50	0.00	138.50	0.00	104.40	107.40	105.10	: 109.30
12	39.10	0.00	102.20	100.90	35.90	0.00	100.90	103.80	0.00	149.60	0.00	109.60	107.00	105.20	: 109.70
13	38.00	0.00	102.30	100.90	39.20	0.00	101.50	102.40	0.00	152.10	0.00	108.90	106.80	105.70	: 110.10
14	38.00	0.00	102.20	101.30	38.00	0.00	101.70	102.10	0.00	152.70	0.00	109.30	106.10	105.70	: 109.90
15	37.80	0.00	101.70	101.40	38.20	0.00	102.00	102.30	0.00	153.60	0.00	110.10	106.30	105.80	: 110.00
16	40.00	0.00	101.60	101.50	40.40	0.00	102.60	102.10	0.00	154.30	0.00	112.60	107.90	105.80	: 110.00
17	37.90	0.00	101.70	101.50	38.30	0.00	104.80	102.00	0.00	155.10	0.00	113.40	107.80	105.70	: 110.20
18	40.40	0.00	103.00	101.40	38.20	0.00	105.90	101.90	0.00	153.70	0.00	114.30	107.70	105.80	: 110.50
19	40.50	0.00	103.50	101.20	39.30	0.00	105.70	102.30	0.00	153.80	0.00	113.70	107.60	105.60	: 110.80
20	41.40	0.00	104.00	101.00	38.50	0.80	104.20	101.40	0.00	154.40	0.00	113.50	106.60	105.70	: 111.10
21	42.60	0.00	103.80	100.60	38.90	34.50	101.80	101.50	0.00	154.70	0.00	113.30	106.50	105.80	: 111.10
22	41.90	0.00	100.70	100.40	38.90	36.90	101.40	105.50	0.00	155.20	0.00	112.70	107.30	105.60	: 111.20
23	41.80	0.00	100.80	100.20	37.50	37.00	101.20	114.70	0.00	156.00	0.00	112.10	107.30	106.00	: 111.10
24	36.80	0.00	101.80	100.10	37.50	36.90	101.40	115.50	0.00	155.80	0.00	111.30	107.20	105.90	: 111.10

10 AUG 2003

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

10 AUG 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	LITTLE GOOSE	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.		
1	10.00	0.00	99.30	100.70	101.00	102.00	24.40	0.00	103.60	100.50	24.80	0.00	104.30	100.30	
2	10.10	0.00	99.30	100.70	100.90	101.60	18.20	0.00	103.20	100.40	16.30	0.00	102.60	100.00	
3	10.00	0.00	99.30	100.70	100.70	101.00	18.20	0.00	103.70	100.30	16.00	0.00	102.40	99.90	
4	10.20	0.00	99.20	100.80	100.50	100.50	18.00	0.00	102.70	100.10	15.40	0.00	102.70	99.80	
5	10.00	0.00	99.10	100.70	100.40	100.30	19.50	0.00	102.00	100.10	15.10	0.00	102.60	99.80	
6	10.10	0.00	99.10	100.60	100.40	99.90	37.90	0.00	102.80	100.50	20.80	0.00	102.40	99.60	
7	10.00	0.00	99.20	100.50	100.60	99.70	37.00	0.00	103.00	100.30	26.60	0.00	101.60	101.80	
8	10.20	0.00	99.20	100.70	101.10	100.10	35.30	0.00	103.40	100.30	38.60	0.00	101.30	100.60	
9	10.20	0.00	99.40	100.90	101.50	100.60	35.10	0.00	103.70	100.40	38.90	0.00	101.40	100.30	
10	10.00	0.00	99.60	101.40	102.20	101.50	35.00	0.00	103.40	100.40	38.90	0.00	100.90	100.30	
11	10.20	0.00	99.70	101.90	102.90	102.50	34.60	0.00	103.60	100.40	35.20	0.00	101.10	100.20	
12	10.00	0.00	100.00	102.40	103.60	103.50	34.70	0.00	102.30	100.50	35.30	0.00	101.30	100.20	
13	10.20	0.00	99.90	102.90	104.10	104.70	36.20	0.00	102.60	100.80	36.30	0.00	101.50	100.40	
14	10.00	0.00	100.00	103.30	104.50	105.50	34.60	0.00	102.90	100.70	35.20	0.00	101.70	100.40	
15	10.20	0.00	99.90	103.70	104.80	106.40	34.90	0.00	103.10	100.60	35.30	0.00	102.00	100.50	
16	10.00	0.00	100.00	103.70	105.00	106.80	34.80	0.00	103.70	100.70	36.70	0.00	102.30	100.50	
17	10.20	0.00	100.10	103.60	104.80	107.10	35.30	0.00	103.90	100.70	37.30	0.00	102.40	100.60	
18	10.00	0.00	99.80	103.00	104.70	106.90	36.50	0.00	103.10	100.70	37.20	0.00	101.70	100.30	
19	10.20	0.00	99.60	102.50	103.80	106.30	36.10	0.00	102.90	100.80	38.60	0.00	101.40	100.10	
20	10.00	0.00	99.40	102.00	102.90	105.50	36.30	0.00	104.30	100.60	37.30	0.00	101.40	99.90	
21	10.20	0.00	99.30	101.60	102.00	104.70	36.40	0.00	104.30	100.50	37.30	0.00	100.60	99.70	
22	10.00	0.00	99.30	101.20	101.60	104.00	19.30	0.00	102.50	100.40	36.50	0.00	100.20	99.60	
23	10.20	0.00	99.30	100.90	101.20	103.30	18.20	0.00	102.50	100.20	19.60	0.00	100.40	99.30	
24	10.00	0.00	99.20	100.70	101.00	102.70	18.30	0.00	102.90	100.00	15.70	0.00	100.70	99.10	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. WA FB	MCNARY	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB	PASCO	
1	28.70	0.00	101.70	100.00	38.10	37.60	100.80	115.60	0.00	110.30	106.70	105.70	0.00	110.80	
2	18.80	0.00	101.70	99.60	34.50	34.00	100.80	115.50	0.00	108.00	106.70	105.40	0.00	110.70	
3	16.10	0.00	100.60	99.50	17.40	16.90	100.40	115.30	0.00	107.20	108.20	105.50	0.00	110.40	
4	15.20	0.00	100.30	99.60	18.90	16.80	100.00	115.10	0.00	107.70	106.90	105.50	0.00	110.60	
5	14.20	0.00	100.10	99.50	13.40	12.00	99.60	115.00	0.00	106.00	107.30	105.20	0.00	110.40	
6	18.60	0.00	100.40	99.40	19.50	10.10	99.10	113.50	0.00	105.90	106.70	105.50	0.00	110.00	
7	19.20	0.00	100.20	99.40	19.80	10.10	98.60	112.60	0.00	105.70	108.00	105.80	0.00	109.70	
8	21.70	0.00	100.30	99.60	19.80	8.40	98.20	112.40	0.00	106.40	108.80	105.90	0.00	109.70	
9	35.20	0.00	100.50	100.50	19.70	0.00	98.10	111.70	0.00	105.50	109.80	106.20	0.00	109.80	
10	39.90	0.00	100.40	100.00	22.80	0.00	99.60	111.80	0.00	103.20	110.60	106.40	0.00	110.10	
11	40.00	0.00	100.50	100.30	36.70	0.00	100.40	105.80	0.00	105.10	109.80	106.50	0.00	110.50	
12	40.20	0.00	100.70	100.60	40.30	0.00	100.60	102.50	0.00	106.60	109.60	106.70	0.00	110.90	
13	39.90	0.00	101.30	100.90	41.90	0.00	101.00	101.50	0.00	104.50	109.90	106.70	0.00	111.40	
14	39.80	0.00	101.40	101.10	40.80	0.00	102.30	101.60	0.00	103.90	110.00	106.80	0.00	111.80	
15	39.30	0.00	100.70	101.30	44.60	0.00	101.80	101.60	0.00	104.70	110.60	106.90	0.00	112.00	
16	39.90	0.00	100.20	101.20	45.70	0.00	100.60	101.40	0.00	107.70	108.50	107.00	0.00	112.10	
17	42.90	0.00	100.40	99.90	44.40	0.00	100.80	101.60	0.00	107.60	107.90	106.90	0.00	112.20	
18	41.40	0.00	100.60	101.30	44.40	0.00	100.90	101.20	0.00	108.70	107.70	107.20	0.00	111.90	
19	41.50	0.00	100.50	101.10	45.90	0.00	101.40	101.20	0.00	108.50	108.30	107.00	0.00	111.60	
20	41.30	0.00	102.40	101.00	46.70	3.40	102.90	101.30	0.00	109.80	109.50	107.90	0.00	111.20	
21	41.10	0.00	100.50	100.70	26.50	25.40	101.60	100.90	0.00	109.40	109.90	106.60	0.00	110.40	
22	35.50	0.00	104.00	100.40	24.20	23.60	101.10	101.40	0.00	107.90	105.20	106.20	0.00	110.00	
23	34.10	0.00	103.60	100.10	15.90	15.30	100.70	107.50	0.00	106.50	105.00	105.80	0.00	109.70	
24	21.00	0.00	102.70	100.00	16.20	15.60	100.50	111.50	0.00	106.70	104.60	105.50	0.00	109.20	

11 AUG 2003

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

11 AUG 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	LOWER GRANITE	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	LOWER GRANITE	LITTLE GOOSE
1	10.10	0.00	99.10	100.70	100.90	102.20	18.50	0.00	103.10	99.90	15.50	0.00	100.30	99.00	
2	10.00	0.00	99.10	100.60	100.60	101.70	18.30	0.00	103.40	99.90	15.90	0.00	100.20	98.80	
3	10.10	0.00	99.20	100.60	100.40	101.10	18.10	0.00	101.40	99.70	15.70	0.00	100.30	98.80	
4	9.90	0.00	99.10	100.60	100.40	100.70	18.30	0.00	100.50	99.60	17.00	0.00	100.10	98.70	
5	10.10	0.00	98.90	100.50	100.30	100.20	18.10	0.00	100.50	99.60	15.90	0.00	99.40	98.50	
6	9.90	0.00	98.90	100.40	100.20	99.90	25.60	0.00	100.60	100.30	19.50	0.00	99.40	98.60	
7	10.10	0.00	98.80	100.40	100.20	99.70	25.50	0.00	100.60	100.00	19.80	0.00	99.10	98.50	
8	10.00	0.00	99.00	100.50	100.70	100.00	30.90	0.00	101.00	100.00	19.70	0.00	99.10	98.40	
9	10.20	0.00	99.20	100.80	101.20	100.70	31.70	0.00	101.10	100.00	21.10	0.00	98.90	98.60	
10	10.00	0.00	-999.00	101.20	102.00	101.50	31.50	0.00	101.70	100.00	22.10	0.00	98.80	98.70	
11	10.20	0.00	-999.00	101.50	102.60	102.50	34.60	0.00	101.90	100.10	32.40	0.00	99.30	99.30	
12	10.00	0.00	-999.00	101.80	103.20	103.50	36.00	0.00	102.30	100.20	32.60	0.00	99.20	99.60	
13	10.10	0.00	-999.00	102.30	103.70	104.60	34.00	0.00	102.40	100.20	32.30	0.00	99.00	99.40	
14	10.20	0.00	99.70	102.40	104.20	105.40	34.10	0.00	102.80	100.30	32.50	0.00	98.90	99.40	
15	10.00	0.00	99.80	102.60	104.40	106.20	36.00	0.00	103.40	100.60	32.40	0.00	99.00	99.30	
16	10.10	0.00	99.80	102.70	104.60	106.60	34.10	0.00	103.70	100.40	32.50	0.00	98.90	99.20	
17	10.00	0.00	99.70	102.50	104.50	106.80	34.20	0.00	102.20	100.40	37.70	0.00	99.00	99.20	
18	10.20	0.00	99.80	102.00	104.20	106.70	34.80	0.00	101.60	100.30	38.80	0.00	99.20	99.20	
19	10.00	0.00	99.40	101.60	103.50	106.10	38.20	0.00	102.30	100.40	48.50	0.00	99.10	99.20	
20	10.20	0.00	99.30	101.20	102.60	105.30	43.10	0.00	101.70	100.30	50.50	0.00	98.80	98.90	
21	10.00	0.00	99.20	100.80	101.70	104.50	43.10	0.00	101.30	100.20	48.80	0.00	98.80	98.80	
22	10.10	0.00	99.10	100.50	101.20	103.90	30.50	0.00	101.10	100.50	47.80	0.00	99.10	98.70	
23	10.00	0.00	99.10	100.50	100.90	103.30	25.50	0.00	100.90	100.20	34.80	0.00	99.50	98.70	
24	10.10	0.00	99.10	100.50	100.70	102.80	19.30	0.00	101.10	100.20	19.90	0.00	99.10	98.70	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	MCNARY	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	PASCO	
1	16.60	0.00	101.40	99.80	15.90	15.30	100.50	113.20	0.00	105.00	104.00	105.50	0.00	108.90	
2	14.50	0.00	101.00	99.90	15.90	15.30	100.70	113.10	0.00	104.50	105.50	105.50	0.00	108.50	
3	14.30	0.00	100.80	99.80	17.40	15.30	101.10	112.10	0.00	105.00	105.40	105.40	0.00	108.40	
4	14.60	0.00	101.00	99.40	15.00	12.90	101.20	112.00	0.00	105.30	105.50	105.40	0.00	108.10	
5	15.00	0.00	100.50	99.20	11.90	10.20	101.20	111.60	0.00	105.10	104.80	105.50	0.00	107.80	
6	20.50	0.00	100.40	99.30	19.60	10.10	100.70	111.90	0.00	106.70	104.40	105.30	0.00	107.40	
7	22.30	0.00	100.70	99.50	19.90	10.10	100.00	112.00	0.00	106.70	103.80	105.20	0.00	106.90	
8	22.30	0.00	101.60	100.00	19.80	9.50	99.40	112.20	0.00	106.70	106.20	105.20	0.00	106.80	
9	20.90	0.00	102.20	99.70	23.00	2.10	99.50	111.70	0.00	106.50	106.70	105.30	0.00	106.60	
10	21.10	0.00	101.50	100.10	24.10	2.10	99.60	111.50	0.00	103.60	106.00	105.50	0.00	106.80	
11	21.20	0.00	101.50	100.30	22.20	1.40	100.30	107.90	0.00	103.90	104.90	105.70	0.00	106.90	
12	31.80	0.00	102.20	100.80	30.40	0.00	101.40	103.20	0.00	105.60	0.00	105.70	0.00	107.20	
13	32.40	0.00	101.90	100.90	32.60	0.00	101.90	103.00	0.00	106.20	106.90	105.90	0.00	107.50	
14	32.60	0.00	102.60	101.00	35.20	0.00	101.80	101.80	0.00	108.00	107.10	105.90	0.00	108.00	
15	33.10	0.00	102.80	101.10	37.40	0.00	101.60	101.90	0.00	110.50	107.00	106.10	0.00	108.30	
16	33.80	0.00	103.70	101.10	39.10	0.00	102.10	101.70	0.00	109.90	107.50	106.20	0.00	108.00	
17	33.50	0.00	103.70	101.20	37.60	0.00	102.00	101.80	0.00	109.90	107.40	106.10	0.00	108.80	
18	41.40	0.00	102.60	101.10	39.70	0.00	103.60	101.90	0.00	110.00	107.30	106.10	0.00	108.80	
19	54.00	0.00	101.90	101.10	54.20	0.00	103.30	101.60	0.00	110.20	107.30	106.00	0.00	108.60	
20	54.90	0.00	104.20	100.80	57.00	4.10	102.20	101.00	0.00	109.80	107.10	105.80	0.00	108.30	
21	54.90	0.00	103.50	100.60	55.40	52.40	101.10	101.20	0.00	109.60	107.10	105.60	0.00	108.00	
22	54.40	0.00	101.10	100.40	51.60	51.10	100.80	113.80	0.00	109.10	106.60	105.30	0.00	107.80	
23	45.30	0.00	101.70	100.30	41.50	41.00	101.30	114.50	0.00	108.00	106.30	105.30	0.00	107.50	
24	21.80	0.00	102.30	100.00	22.40	21.90	101.60	114.50	0.00	107.60	106.20	105.20	0.00	107.30	

12 AUG 2003

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

12 AUG 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.			
1	10.10	0.00	99.10	100.50	100.60	102.30	18.80	0.00	101.20	100.10	16.30	0.00	98.90	98.70	
2	10.10	0.00	99.10	100.70	100.40	101.70	18.70	0.00	101.20	99.90	14.70	0.00	98.70	98.60	
3	10.10	0.00	99.10	100.60	100.40	101.30	18.60	0.00	101.30	99.90	14.50	0.00	98.90	98.60	
4	10.20	0.00	99.20	100.60	100.30	100.80	19.00	0.00	101.40	99.90	14.70	0.00	99.30	98.50	
5	10.00	0.00	99.00	100.50	100.20	100.30	31.50	0.00	101.80	100.50	14.70	0.00	99.20	98.40	
6	10.10	0.00	99.00	100.50	100.20	99.90	35.40	0.00	101.70	100.00	15.10	0.00	99.30	98.40	
7	10.00	0.00	98.90	100.50	100.10	99.70	35.80	0.00	101.60	100.20	28.10	0.00	99.50	99.70	
8	10.00	0.00	99.10	100.60	100.50	99.90	35.00	0.00	102.00	100.00	33.10	0.00	99.60	100.10	
9	10.20	0.00	99.20	100.90	101.00	100.60	34.20	0.00	102.70	100.00	33.30	0.00	99.90	99.20	
10	10.00	0.00	99.40	101.20	101.70	101.40	32.60	0.00	103.10	100.00	35.60	0.00	99.90	99.30	
11	10.20	0.00	99.60	101.60	102.50	102.30	32.60	0.00	103.60	100.20	36.00	0.00	100.10	99.50	
12	10.00	0.00	99.60	102.10	103.10	103.40	32.50	0.00	104.40	100.20	37.40	0.00	100.50	99.50	
13	10.20	0.00	99.80	102.50	103.80	104.40	34.80	0.00	104.00	100.30	36.10	0.00	100.40	99.70	
14	10.00	0.00	99.80	103.00	104.00	105.40	32.50	0.00	104.30	100.80	36.20	0.00	100.70	99.70	
15	10.20	0.00	99.80	103.40	104.30	106.00	32.40	0.00	104.00	100.70	36.00	0.00	101.00	99.80	
16	10.00	0.00	99.90	103.60	104.40	106.40	32.40	0.00	106.30	100.80	36.00	0.00	101.50	99.90	
17	10.00	0.00	99.80	103.50	104.40	106.60	34.10	0.00	107.00	100.80	42.20	0.00	101.40	100.20	
18	10.20	0.00	99.70	102.90	104.10	106.50	32.30	0.00	106.90	100.80	41.80	0.00	101.30	100.20	
19	10.10	0.00	99.40	102.50	103.30	106.00	32.40	0.00	107.90	100.70	43.50	0.00	101.90	100.10	
20	10.30	0.00	99.40	101.90	102.40	105.10	34.70	0.00	107.20	100.80	42.10	0.00	102.40	99.90	
21	10.10	0.00	99.30	101.40	101.60	104.40	35.40	0.00	105.50	100.80	42.10	0.00	102.70	99.90	
22	10.20	0.00	99.20	101.00	101.10	103.70	33.10	0.00	105.90	100.80	37.60	0.00	103.10	100.00	
23	10.00	0.00	99.10	100.70	101.00	103.10	26.90	0.00	105.30	100.50	27.50	0.00	103.40	99.90	
24	10.10	0.00	99.10	100.50	100.70	102.50	19.20	0.00	105.80	100.50	17.40	0.00	102.10	99.80	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.			
1	14.90	0.00	102.40	100.20	20.70	20.20	101.20	114.60	0.00	102.60	0.00	107.00	106.10	105.10	107.00
2	15.90	0.00	102.70	100.10	17.90	17.40	100.80	114.40	0.00	104.00	0.00	106.70	106.80	105.10	106.70
3	14.40	0.00	102.70	100.60	10.70	10.20	100.40	113.40	0.00	105.70	0.00	106.50	107.30	105.00	106.60
4	14.70	0.00	102.50	99.60	10.80	10.30	100.10	113.00	0.00	116.50	0.00	107.20	107.40	105.00	106.20
5	14.50	0.00	101.90	99.50	12.40	10.20	100.10	113.00	0.00	144.60	0.00	107.60	107.30	105.20	106.10
6	16.10	0.00	101.70	99.30	22.40	10.10	100.80	113.10	0.00	156.80	0.00	107.40	107.30	105.10	106.00
7	19.50	0.00	101.60	99.30	21.00	10.10	101.20	112.40	0.00	160.60	0.00	107.50	107.10	105.30	106.00
8	20.10	0.00	101.80	99.50	21.20	10.20	101.10	111.70	0.00	162.90	0.00	107.40	107.20	105.60	106.10
9	31.30	0.00	102.50	100.10	22.50	0.30	103.00	110.90	0.00	162.90	0.00	107.00	107.90	105.50	106.60
10	31.90	0.00	102.30	100.30	21.40	0.00	103.40	108.80	0.00	162.70	0.00	106.30	107.70	105.90	107.00
11	32.40	0.00	102.00	100.60	21.40	0.00	103.70	106.10	0.00	162.30	0.00	107.20	107.70	106.10	107.40
12	31.90	0.00	102.90	100.70	21.80	0.00	103.40	103.50	0.00	151.60	0.00	108.70	107.70	106.50	108.10
13	37.60	0.00	0.00	101.00	31.70	0.00	104.10	102.10	0.00	150.70	0.00	110.00	108.10	106.60	108.80
14	44.20	0.00	104.30	101.40	43.80	0.00	103.00	101.90	0.00	151.10	0.00	110.40	108.20	106.70	109.30
15	43.00	0.00	104.50	101.50	44.70	0.00	102.80	102.00	0.00	137.80	0.00	110.10	108.20	106.70	109.40
16	44.00	0.00	104.80	101.70	44.70	0.00	103.90	101.80	0.00	137.20	0.00	110.80	108.10	106.70	109.50
17	49.00	0.00	105.70	101.80	48.20	0.00	103.80	102.00	0.00	146.40	0.00	110.90	108.30	106.60	109.70
18	48.00	0.00	106.10	101.80	49.20	0.00	108.90	101.90	0.00	146.40	0.00	110.40	108.20	106.40	109.80
19	48.40	0.00	106.50	101.60	49.10	0.00	103.30	101.40	0.00	146.80	0.00	110.70	108.40	106.40	109.90
20	48.30	0.00	105.50	101.30	49.20	4.90	103.80	101.30	0.00	153.00	0.00	110.10	108.10	106.30	110.10
21	47.70	0.00	105.90	100.90	43.90	40.40	101.50	100.90	0.00	153.50	0.00	110.20	108.30	106.10	110.40
22	41.10	0.00	106.60	100.60	41.80	41.30	102.60	113.50	0.00	151.90	0.00	110.70	107.90	106.10	110.20
23	29.00	0.00	105.50	100.50	36.40	35.80	101.90	115.30	0.00	113.90	0.00	109.70	107.70	106.10	110.30
24	17.90	0.00	104.40	100.40	22.30	20.20	101.40	115.20	0.00	88.60	0.00	108.00	107.60	105.90	110.10

13 AUG 2003

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

13 AUG 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.			
1	10.20	0.00	99.10	100.30	100.40	102.00	15.90	0.00	105.50	100.30	15.60	0.00	101.70	99.50	
2	10.00	0.00	99.20	100.30	100.40	101.60	14.10	0.00	105.60	100.10	14.40	0.00	102.40	99.20	
3	10.20	0.00	99.20	-999.00	100.20	101.00	13.60	0.00	105.00	99.90	14.00	0.00	103.00	99.20	
4	10.00	0.00	99.00	0.00	100.20	100.60	13.60	0.00	104.20	99.70	14.00	0.00	102.70	99.10	
5	10.20	0.00	98.90	100.10	100.00	100.10	13.90	0.00	104.10	99.70	13.20	0.00	102.60	99.00	
6	10.00	0.00	99.00	100.10	99.90	99.70	16.40	0.00	103.80	99.70	15.40	0.00	102.30	99.00	
7	10.20	0.00	98.90	100.10	99.90	99.50	27.30	0.00	104.20	100.90	17.70	0.00	101.90	98.90	
8	10.00	0.00	98.90	100.10	100.30	99.80	27.20	0.00	104.50	100.40	18.10	0.00	102.10	99.30	
9	10.20	0.00	99.20	100.40	100.90	100.30	27.00	0.00	104.90	100.40	21.80	0.00	101.80	99.50	
10	10.00	0.00	99.40	101.00	101.70	101.10	27.10	0.00	105.20	100.40	19.20	0.00	101.70	101.40	
11	10.20	0.00	99.50	101.60	102.50	102.10	27.00	0.00	105.40	100.30	28.70	0.00	103.90	101.60	
12	10.00	0.00	99.60	102.00	103.20	103.20	27.10	0.00	104.70	100.60	29.10	0.00	103.60	101.20	
13	10.00	0.00	99.60	102.60	103.60	104.10	27.10	0.00	104.30	100.60	29.10	0.00	104.30	101.20	
14	10.20	0.00	99.60	103.00	103.90	105.10	30.90	0.00	105.70	100.80	29.20	0.00	104.00	101.10	
15	10.00	0.00	99.70	103.50	104.20	105.80	31.10	0.00	106.10	101.20	29.00	0.00	103.80	101.00	
16	10.20	0.00	99.60	103.60	104.30	106.30	31.60	0.00	107.50	101.00	29.00	0.00	103.20	100.80	
17	10.00	0.00	99.60	103.50	104.10	106.40	31.20	0.00	110.00	111.80	28.90	0.00	103.30	100.70	
18	10.20	0.00	99.50	103.10	103.80	106.30	31.80	0.00	110.80	116.60	29.20	0.00	103.30	100.40	
19	10.00	0.00	99.30	102.50	103.00	105.90	31.90	0.00	109.20	119.20	43.00	0.00	103.70	100.50	
20	10.20	0.00	99.10	101.90	102.10	105.00	33.70	0.00	109.70	115.70	43.40	0.00	103.50	100.70	
21	10.00	0.00	99.00	101.40	101.30	104.10	28.50	0.00	109.00	120.20	42.00	0.00	103.70	100.40	
22	10.00	0.00	98.90	100.90	100.80	103.50	21.20	0.00	107.00	117.00	41.30	0.00	104.40	100.30	
23	10.20	0.00	98.80	100.60	100.50	102.90	13.90	0.00	107.80	119.60	21.80	0.00	104.50	100.10	
24	10.00	0.00	98.80	100.50	100.20	102.30	13.70	0.00	106.30	126.30	14.60	0.00	104.10	99.90	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.			
1	13.80	0.00	103.50	100.90	10.90	10.30	101.10	114.90	0.00	79.10	0.00	108.20	109.20	105.80	109.90
2	13.60	0.00	104.10	100.00	10.80	10.20	100.20	114.70	0.00	71.30	0.00	107.90	108.40	105.70	109.60
3	13.90	0.00	104.00	99.70	12.50	10.40	102.50	113.90	0.00	69.90	0.00	107.00	109.70	105.70	109.20
4	15.70	0.00	103.80	99.60	10.80	10.20	103.30	113.10	0.00	82.80	0.00	107.20	110.10	105.60	109.10
5	13.90	0.00	103.70	99.40	11.50	10.20	103.20	112.90	0.00	98.40	0.00	107.90	110.10	105.40	108.90
6	14.00	0.00	103.60	99.30	21.00	10.20	103.20	112.00	0.00	133.20	0.00	107.10	109.70	105.30	108.40
7	17.40	0.00	103.60	99.20	21.10	10.20	103.40	111.20	0.00	147.20	0.00	105.70	109.50	105.40	108.10
8	17.70	0.00	103.70	99.30	21.40	10.20	103.20	111.30	0.00	148.50	0.00	105.30	109.20	105.80	107.90
9	19.10	0.00	104.10	99.80	14.80	0.10	104.30	111.20	0.00	148.90	0.00	106.00	109.10	106.00	107.90
10	19.50	0.00	104.40	100.30	15.40	0.00	104.20	111.30	0.00	148.70	0.00	105.40	109.30	106.20	108.20
11	29.00	0.00	103.50	100.80	27.20	0.00	105.00	110.60	0.00	149.30	0.00	105.80	109.60	106.30	108.60
12	28.80	0.00	102.80	101.00	30.30	0.00	105.70	103.20	0.00	149.60	0.00	108.00	108.70	106.50	108.80
13	28.90	0.00	102.90	101.30	29.70	0.00	106.40	102.50	0.00	150.20	0.00	110.60	109.40	106.70	109.30
14	29.20	0.00	102.80	101.40	28.30	0.00	106.30	103.20	0.00	150.00	0.00	111.10	109.80	106.80	109.40
15	29.10	0.00	103.50	101.80	28.40	0.00	106.40	103.30	0.00	150.20	0.00	110.80	110.10	107.00	109.30
16	30.70	0.00	103.80	101.90	30.00	0.00	107.50	102.50	0.00	149.90	0.00	111.30	110.10	107.30	109.20
17	31.20	0.00	103.80	101.90	28.80	0.00	108.70	102.40	0.00	149.40	0.00	111.70	109.60	107.50	109.20
18	29.60	0.00	104.40	101.70	28.60	0.00	110.10	102.60	0.00	141.30	0.00	111.30	109.50	107.40	109.20
19	41.60	0.00	104.60	101.30	39.10	0.00	111.30	102.00	0.00	140.70	0.00	111.80	110.20	107.20	109.10
20	41.90	0.00	104.50	101.10	30.50	1.80	106.40	101.90	0.00	141.30	0.00	112.20	109.80	107.00	109.30
21	41.30	0.00	104.90	100.80	30.60	30.00	101.20	101.30	0.00	141.20	0.00	112.00	109.80	106.60	109.20
22	40.80	0.00	104.70	100.50	31.40	30.80	100.70	106.40	0.00	139.60	0.00	111.40	109.80	106.50	109.20
23	28.70	0.00	104.50	101.30	30.90	30.40	100.40	113.60	0.00	108.40	0.00	109.80	111.80	106.30	109.20
24	15.10	0.00	104.10	100.60	28.70	28.20	99.50	113.70	0.00	89.10	0.00	109.50	113.70	106.30	109.20

14 AUG 2003

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

14 AUG 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.			
1	10.20	0.00	98.70	100.30	100.10	101.80	13.60	0.00	105.60	128.70	13.60	0.00	104.60	99.50	
2	10.00	0.00	98.70	100.20	100.00	101.30	13.60	0.00	104.90	129.10	13.60	0.00	104.20	99.50	
3	10.10	0.00	98.60	100.20	99.80	100.70	13.50	0.00	104.50	129.90	13.60	0.00	104.20	99.20	
4	10.20	0.00	98.60	100.20	99.80	100.30	13.60	0.00	103.10	128.20	13.50	0.00	104.30	99.00	
5	10.10	0.00	98.60	100.20	99.70	99.90	13.60	0.00	102.60	129.30	13.60	0.00	104.20	98.90	
6	10.20	0.00	98.50	100.00	99.70	99.60	13.60	0.00	102.30	129.80	13.60	0.00	103.90	98.70	
7	10.00	0.00	98.50	99.90	99.80	99.40	14.00	0.00	104.80	130.90	13.70	0.00	103.50	98.60	
8	10.20	0.00	98.70	100.20	100.30	99.70	21.00	0.00	105.00	114.00	20.80	0.00	104.00	99.00	
9	10.00	0.00	98.90	100.60	100.80	100.20	29.90	0.00	105.40	127.40	29.00	0.00	104.50	99.90	
10	10.00	0.00	99.10	101.30	101.60	101.10	35.80	0.00	105.90	123.60	33.70	0.00	104.80	100.00	
11	10.20	0.00	99.30	101.90	102.20	102.20	34.50	0.00	106.90	119.80	38.70	0.00	105.00	100.10	
12	10.10	0.00	99.40	102.70	103.00	103.20	34.60	0.00	108.30	122.50	38.50	0.00	105.70	100.40	
13	10.30	0.00	99.70	103.10	103.50	104.40	36.30	0.00	109.10	0.00	40.20	0.00	106.30	100.70	
14	10.00	0.00	99.70	103.60	103.70	105.30	27.00	0.00	109.60	0.00	38.50	0.00	107.50	100.70	
15	10.30	0.00	99.60	104.10	103.80	105.90	26.50	0.00	110.50	123.90	38.30	0.00	108.20	100.80	
16	10.10	0.00	99.70	104.40	103.60	106.40	26.60	0.00	110.30	125.90	41.90	0.00	109.30	101.00	
17	10.10	0.00	99.80	104.60	103.80	106.50	26.10	0.00	110.60	125.80	42.50	0.00	110.20	101.60	
18	10.20	0.00	99.70	104.20	103.50	106.20	25.30	0.00	110.70	125.40	42.50	0.00	110.80	101.20	
19	10.00	0.00	99.50	103.60	103.00	105.90	21.30	0.00	110.90	115.80	44.00	0.00	111.00	101.00	
20	10.30	0.00	99.40	103.10	102.20	105.10	24.10	0.00	111.00	125.80	42.60	0.00	111.10	100.90	
21	10.00	0.00	99.40	102.50	101.60	104.30	19.60	0.00	110.50	128.20	43.70	0.00	110.50	100.70	
22	10.20	0.00	99.20	102.00	101.30	103.60	19.20	0.00	110.20	130.40	38.90	0.00	110.20	100.70	
23	10.10	0.00	99.20	101.70	101.00	103.10	17.60	0.00	110.20	124.90	14.40	0.00	109.70	100.40	
24	10.10	0.00	99.30	101.50	100.80	102.50	17.40	0.00	110.00	125.60	13.30	0.00	109.30	100.30	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.			
1	13.90	0.00	103.90	99.80	14.60	14.00	98.00	113.50	0.00	109.10	113.50	106.10	0.00	109.20	
2	14.00	0.00	104.10	99.40	10.80	10.30	98.20	113.40	0.00	108.00	112.20	105.80	0.00	109.00	
3	14.00	0.00	104.90	99.30	10.60	10.10	98.60	113.30	0.00	108.30	111.70	105.50	0.00	108.70	
4	14.00	0.00	104.80	98.90	10.60	10.10	97.70	113.20	0.00	108.60	111.50	105.40	0.00	108.20	
5	14.30	0.00	104.70	98.70	11.60	10.10	100.80	111.80	0.00	108.80	111.50	105.30	0.00	107.80	
6	14.00	0.00	104.60	98.70	20.80	10.10	103.40	111.40	0.00	108.30	111.20	105.30	0.00	107.60	
7	15.50	0.00	104.60	98.70	21.30	10.30	103.30	111.90	0.00	105.80	110.40	105.20	0.00	107.20	
8	14.20	0.00	103.90	99.70	20.10	9.10	104.00	112.20	0.00	105.40	109.70	105.60	0.00	107.00	
9	20.20	0.00	103.50	99.20	15.80	0.00	103.20	111.70	0.00	105.80	109.60	105.60	0.00	107.10	
10	29.30	0.00	103.70	100.30	16.60	0.00	104.40	112.00	0.00	107.90	109.40	105.80	0.00	107.20	
11	39.50	0.00	105.10	100.40	33.90	0.00	106.90	106.10	0.00	110.70	109.10	106.10	-	999.00	
12	42.80	0.00	105.00	100.80	41.50	0.00	104.80	103.60	0.00	112.20	109.20	106.20	-	999.00	
13	41.40	0.00	105.40	101.30	42.90	0.00	107.50	102.30	0.00	112.80	109.90	106.10	-	999.00	
14	42.80	0.00	105.60	102.70	46.10	0.00	104.50	102.50	0.00	113.20	111.30	106.20	0.00	108.70	
15	41.30	0.00	106.10	101.60	42.90	0.00	106.10	103.80	0.00	112.30	112.50	106.50	0.00	108.50	
16	45.60	0.00	106.30	101.60	48.20	0.00	105.30	103.20	0.00	111.10	112.90	106.70	0.00	108.50	
17	44.10	0.00	107.50	101.40	42.70	0.00	110.10	103.20	0.00	110.90	111.10	106.80	0.00	108.70	
18	45.60	0.00	107.80	101.60	44.70	0.00	103.40	102.40	0.00	113.10	109.00	106.70	0.00	108.90	
19	44.30	0.00	109.10	101.30	43.50	0.00	101.80	102.30	0.00	114.70	107.80	106.80	0.00	109.20	
20	54.40	0.00	108.80	101.00	49.20	3.70	103.00	102.20	0.00	114.40	108.00	106.50	0.00	109.30	
21	57.20	0.00	109.80	101.60	57.80	53.20	102.20	102.90	0.00	112.50	107.30	105.90	0.00	109.60	
22	54.80	0.00	109.80	100.80	54.20	53.50	102.40	114.10	0.00	113.90	107.10	107.20	0.00	109.60	
23	16.70	0.00	107.20	100.50	35.40	34.80	102.00	114.60	0.00	110.20	107.20	105.40	0.00	109.70	
24	13.60	0.00	107.10	101.50	17.30	15.20	102.10	114.40	0.00	109.20	106.90	105.20	0.00	109.50	

15 AUG 2003

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

15 AUG 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.			
1	10.30	0.00	99.30	101.30	100.70	102.00	17.70	0.00	109.70	130.00	14.80	0.00	109.00	99.90	
2	10.10	0.00	99.30	101.20	100.50	101.40	23.30	0.00	109.40	118.70	13.30	0.00	108.60	99.70	
3	10.30	0.00	99.30	101.10	100.50	101.10	23.50	0.00	108.60	129.60	13.40	0.00	108.20	99.60	
4	10.10	0.00	99.30	101.00	100.40	100.60	23.40	0.00	109.00	132.80	13.30	0.00	108.30	99.60	
5	10.30	0.00	99.30	100.80	100.40	100.30	25.40	0.00	108.70	128.00	13.30	0.00	108.00	99.50	
6	10.10	0.00	99.30	100.80	100.40	99.90	23.50	0.00	108.00	124.90	13.40	0.00	107.40	99.30	
7	10.10	0.00	99.20	100.60	100.30	99.80	23.80	0.00	107.90	131.00	20.80	0.00	107.40	99.30	
8	10.30	0.00	99.50	100.70	100.70	99.80	23.40	0.00	107.70	131.50	19.70	0.00	107.40	99.40	
9	10.10	0.00	99.50	101.00	101.40	100.10	23.30	0.00	107.60	134.20	19.50	0.00	107.10	99.60	
10	10.30	0.00	99.60	101.60	102.20	101.00	25.00	0.00	107.50	131.10	19.60	0.00	107.20	99.80	
11	10.10	0.00	99.80	102.10	102.70	101.70	28.90	0.00	107.30	127.90	19.50	0.00	107.50	100.00	
12	10.20	0.00	99.90	102.50	103.30	102.30	29.50	0.00	107.50	128.00	20.50	0.00	108.10	100.00	
13	10.10	0.00	99.80	103.30	104.00	103.40	29.60	0.00	108.30	127.40	28.80	0.00	108.00	100.30	
14	10.20	0.00	100.10	103.60	104.20	104.50	29.60	0.00	109.20	128.50	29.10	0.00	108.10	100.20	
15	10.10	0.00	100.10	104.10	104.50	105.20	29.50	0.00	108.70	128.30	28.90	0.00	108.10	100.20	
16	10.30	0.00	99.90	104.20	104.30	105.70	31.40	0.00	106.60	127.60	30.60	0.00	108.50	100.30	
17	10.00	0.00	99.60	103.80	103.60	105.70	29.60	0.00	108.80	121.80	29.00	0.00	108.20	100.20	
18	10.10	0.00	99.70	103.50	102.90	105.70	29.50	0.00	108.80	126.10	33.60	0.00	108.10	100.10	
19	10.20	0.00	99.70	103.00	102.40	105.10	29.60	0.00	108.70	127.10	35.70	0.00	108.60	100.10	
20	10.10	0.00	99.50	102.60	101.90	104.50	29.70	0.00	107.90	127.60	45.40	0.00	108.60	100.70	
21	10.30	0.00	99.60	102.10	101.60	103.90	30.10	0.00	108.20	127.60	45.40	0.00	107.60	100.40	
22	10.10	0.00	99.60	101.70	101.30	103.50	29.40	0.00	107.20	127.30	44.30	0.00	106.20	100.10	
23	10.30	0.00	99.50	101.20	101.00	102.90	20.20	0.00	107.60	127.80	21.40	0.00	105.30	99.80	
24	10.10	0.00	99.40	100.90	100.90	102.30	17.50	0.00	106.20	123.00	13.90	0.00	104.00	99.40	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT
1	13.70	0.00	107.50	100.10	12.00	11.40	101.20	114.40	0.00	84.90	0.00	108.20	110.60	105.50	109.50
2	13.50	0.00	108.20	99.70	10.90	10.30	101.30	114.30	0.00	85.10	0.00	107.50	110.50	105.50	109.30
3	14.10	0.00	108.00	99.50	10.70	10.00	100.20	113.70	0.00	85.00	0.00	107.20	109.90	105.40	109.20
4	15.20	0.00	107.60	99.90	10.70	10.10	99.90	112.00	0.00	86.00	0.00	106.60	109.30	105.30	108.80
5	13.60	0.00	107.30	99.30	12.00	10.10	103.70	111.40	0.00	109.20	0.00	108.10	108.50	105.20	108.90
6	14.00	0.00	106.70	98.90	19.70	10.20	101.20	111.20	0.00	138.50	0.00	109.40	108.60	104.90	108.70
7	19.70	0.00	106.60	98.90	19.30	10.10	101.80	111.30	0.00	158.50	0.00	109.10	109.60	105.10	108.40
8	21.50	0.00	106.50	99.50	19.30	9.90	100.90	111.90	0.00	160.90	0.00	108.30	109.10	105.40	108.30
9	20.10	0.00	106.40	99.10	12.60	0.20	101.90	111.90	0.00	161.80	0.00	105.90	110.20	105.80	108.30
10	15.80	0.00	106.30	99.30	14.30	0.00	102.00	112.10	0.00	161.60	0.00	105.10	110.00	106.20	108.40
11	15.50	0.00	105.80	99.50	13.10	0.00	101.60	112.20	0.00	161.40	0.00	107.10	110.10	106.50	108.70
12	15.80	0.00	105.60	99.90	14.00	0.00	103.20	111.30	0.00	161.70	0.00	108.30	110.80	106.70	108.90
13	21.70	0.00	105.70	99.90	21.40	0.00	103.40	105.60	0.00	162.20	0.00	110.10	110.20	106.50	108.60
14	28.90	0.00	105.90	100.70	23.70	0.00	104.70	103.90	0.00	142.20	0.00	109.40	110.40	106.70	108.30
15	29.40	0.00	106.20	100.70	27.80	0.00	106.40	104.20	0.00	140.00	0.00	111.20	110.90	106.80	108.10
16	30.60	0.00	106.20	100.80	30.20	0.00	108.00	102.70	0.00	138.60	0.00	113.40	110.90	106.80	108.00
17	29.30	0.00	106.30	1.50	28.20	0.00	107.10	102.60	0.00	137.50	0.00	113.50	111.20	107.00	107.90
18	33.20	0.00	105.80	100.90	29.30	0.00	108.60	103.20	0.00	136.90	0.00	113.50	112.30	107.00	108.00
19	35.60	0.00	105.10	100.70	38.60	0.00	110.50	102.20	0.00	137.10	0.00	112.40	111.40	106.90	108.00
20	45.30	0.00	104.80	100.70	46.70	5.00	104.10	102.60	0.00	137.70	0.00	111.60	111.60	106.40	-999.00
21	55.40	0.00	104.70	100.60	46.50	44.90	101.00	102.00	0.00	137.50	0.00	109.70	111.50	105.80	-999.00
22	55.20	0.00	102.60	100.20	46.00	45.40	100.90	113.40	0.00	136.40	0.00	108.80	111.70	105.60	-999.00
23	38.40	0.00	102.90	99.70	44.30	43.80	101.20	114.60	0.00	137.50	0.00	108.30	112.20	105.40	106.50
24	23.20	0.00	101.70	99.50	29.60	29.00	100.70	114.90	0.00	136.20	0.00	107.80	111.60	105.20	105.80

16 AUG 2003

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

16 AUG 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.			
1	10.30	0.00	99.30	100.80	100.80	101.90	17.60	0.00	105.60	127.20	15.10	0.00	103.20	98.80	
2	10.10	0.00	99.40	100.70	100.80	101.50	17.60	0.00	104.70	128.70	14.90	0.00	101.20	98.80	
3	10.10	0.00	99.10	100.60	100.70	101.00	17.50	0.00	103.50	131.20	13.60	0.00	100.30	98.70	
4	10.30	0.00	99.10	100.50	100.60	100.50	21.10	0.00	103.80	124.40	13.70	0.00	100.20	98.50	
5	10.10	0.00	99.00	100.40	100.30	100.10	24.30	0.00	104.70	122.30	13.80	0.00	99.40	98.40	
6	10.30	0.00	98.90	100.30	100.20	99.80	24.80	0.00	104.70	128.20	20.10	0.00	98.80	98.50	
7	10.10	0.00	99.10	100.00	100.20	99.70	35.90	0.00	102.90	131.80	20.20	0.00	98.70	98.30	
8	10.30	0.00	99.10	100.10	100.60	99.80	37.20	0.00	102.50	127.50	21.00	0.00	98.30	98.20	
9	10.10	0.00	99.20	100.50	101.10	100.50	32.70	0.00	101.40	122.60	29.20	0.00	98.20	98.70	
10	10.30	0.00	99.30	101.10	101.90	101.20	33.10	0.00	101.30	125.30	29.50	0.00	97.50	98.30	
11	10.10	0.00	99.40	101.60	102.40	102.20	33.10	0.00	101.40	125.70	27.10	0.00	97.70	98.10	
12	10.30	0.00	99.50	102.20	103.10	103.30	32.90	0.00	100.90	124.70	27.00	0.00	98.00	98.10	
13	10.10	0.00	99.50	102.90	103.60	104.10	34.70	0.00	101.20	122.90	28.50	0.00	98.10	98.30	
14	10.30	0.00	99.60	103.30	103.90	104.80	30.40	0.00	100.90	122.30	28.40	0.00	98.80	98.40	
15	10.10	0.00	99.40	103.60	103.80	105.40	29.40	0.00	101.20	125.20	27.10	0.00	98.50	98.50	
16	10.10	0.00	99.40	103.90	103.70	105.40	29.10	0.00	102.30	126.10	29.00	0.00	99.10	98.10	
17	10.30	0.00	99.40	103.80	103.60	105.20	29.10	0.00	102.60	127.90	28.90	0.00	99.50	98.10	
18	10.10	0.00	99.30	103.10	103.30	105.00	29.70	0.00	103.00	127.80	29.40	0.00	99.80	98.30	
19	10.30	0.00	99.20	102.40	102.60	104.70	29.40	0.00	103.50	127.80	44.60	0.00	99.90	99.50	
20	10.10	0.00	99.00	102.10	101.70	104.20	29.30	0.00	104.30	127.30	43.30	0.00	100.20	99.10	
21	10.30	0.00	98.90	101.40	101.10	103.60	29.30	0.00	104.20	126.60	43.30	0.00	100.20	98.90	
22	10.10	0.00	98.90	101.00	100.70	103.20	29.20	0.00	104.10	126.60	41.80	0.00	100.40	98.80	
23	10.10	0.00	99.00	100.80	100.40	102.70	20.40	0.00	103.40	126.70	19.70	0.00	100.30	98.60	
24	10.30	0.00	98.90	100.40	100.40	102.20	19.00	0.00	103.40	127.30	16.20	0.00	100.20	98.90	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. OR FB	WA FB	TAILW.	GAS % SAT			
1	14.40	0.00	100.80	99.20	16.00	15.40	100.00	114.80	0.00	106.80	111.80	105.10	0.00	105.40	
2	13.90	0.00	99.90	99.00	16.00	15.40	99.60	114.40	0.00	105.90	111.70	104.90	0.00	105.00	
3	13.90	0.00	99.70	98.80	15.70	15.20	99.40	114.20	0.00	105.30	111.40	104.70	0.00	104.80	
4	13.90	0.00	99.30	98.60	10.60	10.00	99.10	112.30	0.00	104.80	111.50	104.50	0.00	104.50	
5	14.10	0.00	98.80	98.50	11.40	10.20	99.10	110.80	0.00	104.20	111.70	104.40	0.00	104.20	
6	21.80	0.00	98.90	98.30	19.30	10.00	98.70	110.70	0.00	103.80	111.40	104.20	0.00	103.70	
7	22.40	0.00	99.00	98.30	19.30	10.00	98.70	111.10	0.00	103.70	111.50	104.10	0.00	103.50	
8	20.90	0.00	98.90	98.40	18.30	8.90	98.70	112.00	0.00	103.40	111.20	104.10	0.00	103.60	
9	21.10	0.00	98.90	98.30	14.90	0.00	98.50	111.00	0.00	103.20	111.20	104.20	0.00	103.70	
10	22.50	0.00	99.00	98.40	14.20	0.00	98.70	110.70	0.00	103.30	110.60	104.00	0.00	103.80	
11	21.10	0.00	98.90	98.90	14.00	0.00	98.80	110.90	0.00	103.30	110.40	104.20	0.00	104.10	
12	21.20	0.00	98.80	99.00	13.90	0.00	99.00	108.50	0.00	103.70	110.30	104.40	0.00	104.40	
13	21.70	0.00	99.10	99.30	15.40	0.00	98.60	103.00	0.00	103.90	110.20	104.70	0.00	104.90	
14	29.60	0.00	99.10	99.50	15.40	0.00	98.80	103.30	0.00	103.70	110.20	104.80	0.00	105.30	
15	30.00	0.00	99.60	99.50	28.10	0.00	99.10	102.40	0.00	104.50	112.40	105.00	0.00	105.70	
16	33.70	0.00	99.90	99.70	30.70	0.00	100.60	102.80	0.00	106.10	111.90	105.10	0.00	105.80	
17	31.80	0.00	100.20	101.00	31.30	0.00	100.90	102.00	0.00	106.80	111.80	105.10	0.00	105.90	
18	30.50	0.00	100.30	100.00	35.60	0.00	101.20	101.70	0.00	106.90	112.30	105.10	0.00	105.90	
19	44.20	0.00	100.30	99.90	46.10	0.00	101.40	101.20	0.00	106.50	112.60	105.20	0.00	105.90	
20	44.40	0.00	100.70	99.60	46.60	1.70	102.10	101.40	0.00	106.40	112.90	105.10	0.00	105.80	
21	55.50	0.00	100.80	99.40	53.60	50.40	101.30	101.00	0.00	106.10	112.90	105.00	0.00	105.80	
22	52.20	0.00	100.90	99.40	54.40	53.80	101.60	113.50	0.00	105.90	111.90	105.00	0.00	105.70	
23	47.00	0.00	101.10	99.40	54.50	53.90	102.00	115.00	0.00	105.20	112.40	105.00	0.00	105.60	
24	21.00	0.00	101.20	99.10	55.40	54.80	102.20	115.10	0.00	104.90	112.60	104.90	0.00	105.50	

17 AUG 2003

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

17 AUG 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.			
1	10.20	0.00	98.90	100.30	100.20	101.80	19.20	0.00	103.10	128.90	16.80	0.00	100.10	98.80	
2	10.30	0.00	98.80	100.00	100.00	101.40	18.90	0.00	102.90	130.20	16.80	0.00	100.30	98.60	
3	10.10	0.00	98.80	100.00	100.00	101.00	19.00	0.00	102.80	129.10	18.40	0.00	100.30	98.80	
4	10.30	0.00	98.80	99.80	99.80	100.50	18.70	0.00	102.40	128.00	18.50	0.00	100.20	98.90	
5	10.20	0.00	98.80	99.70	99.80	100.20	19.30	0.00	102.60	131.10	18.80	0.00	100.10	99.00	
6	10.30	0.00	98.70	99.80	99.60	99.70	19.80	0.00	102.50	129.60	20.00	0.00	100.00	99.00	
7	10.20	0.00	98.70	99.70	99.70	99.60	19.80	0.00	102.50	129.60	20.20	0.00	100.00	99.10	
8	10.30	0.00	98.70	100.00	100.10	99.90	20.70	0.00	102.60	128.00	20.40	0.00	100.20	99.30	
9	10.10	0.00	98.80	100.50	100.70	100.30	20.70	0.00	103.30	128.10	20.90	0.00	100.30	99.50	
10	10.20	0.00	99.00	101.10	101.30	101.00	25.30	0.00	103.40	122.50	20.90	0.00	101.00	100.30	
11	10.40	0.00	99.00	101.80	102.00	101.90	23.50	0.00	103.60	120.50	19.10	0.00	100.60	100.20	
12	10.20	0.00	99.20	102.60	102.50	103.00	25.20	0.00	104.60	128.50	20.90	0.00	100.80	100.40	
13	10.30	0.00	99.30	103.20	103.00	104.00	25.20	0.00	104.90	120.40	22.30	0.00	100.80	100.40	
14	10.20	0.00	99.40	103.70	103.30	104.90	21.60	0.00	104.60	120.60	20.70	0.00	100.90	100.30	
15	10.30	0.00	99.50	104.20	103.70	105.60	21.10	0.00	105.80	125.80	20.30	0.00	101.10	100.50	
16	10.20	0.00	99.50	104.50	103.80	106.00	22.90	0.00	105.80	126.30	21.20	0.00	101.70	100.60	
17	10.20	0.00	99.40	104.40	103.60	106.20	21.10	0.00	105.70	123.40	19.70	0.00	101.80	100.60	
18	10.30	0.00	99.30	103.90	103.20	106.00	21.10	0.00	106.50	126.60	22.60	0.00	101.30	100.60	
19	10.10	0.00	99.20	103.40	102.60	105.50	26.30	0.00	106.90	127.70	20.10	0.00	101.20	100.40	
20	10.40	0.00	99.20	102.70	101.80	104.80	23.50	0.00	107.20	117.60	27.90	0.00	101.30	100.70	
21	10.20	0.00	99.10	102.10	101.20	104.10	24.00	0.00	107.80	125.80	29.60	0.00	101.40	100.30	
22	10.30	0.00	99.10	101.60	100.70	103.50	24.00	0.00	106.20	129.00	28.30	0.00	101.10	100.30	
23	10.20	0.00	99.10	101.20	100.60	102.90	25.70	0.00	105.80	128.60	37.50	0.00	100.70	100.00	
24	10.20	0.00	99.00	101.00	100.50	102.40	19.40	0.00	105.60	125.50	17.60	0.00	100.60	99.80	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.			
1	13.90	0.00	101.00	98.90	39.70	39.10	101.90	115.20	0.00	100.30	0.00	105.10	113.10	104.80	105.30
2	13.40	0.00	101.00	99.10	20.50	20.00	101.20	115.00	0.00	92.90	0.00	104.50	113.20	104.60	105.20
3	15.70	0.00	100.90	99.00	11.90	11.40	100.90	114.60	0.00	97.50	0.00	104.20	112.40	104.80	104.90
4	15.60	0.00	100.90	98.80	10.50	10.00	100.30	114.80	0.00	108.30	0.00	103.70	112.50	104.70	104.80
5	16.50	0.00	100.60	98.60	11.20	10.10	99.70	114.60	0.00	118.60	0.00	104.20	112.40	104.80	104.60
6	16.80	0.00	100.50	98.50	19.20	10.10	99.70	113.90	0.00	92.40	0.00	104.30	111.80	104.80	104.50
7	18.50	0.00	100.40	98.60	19.80	10.20	99.00	111.60	0.00	81.60	0.00	103.90	112.10	104.70	104.40
8	18.80	0.00	100.50	98.90	21.00	10.10	99.10	111.60	0.00	98.40	0.00	103.20	112.10	104.60	104.20
9	20.80	0.00	100.90	99.20	9.60	0.00	99.20	111.40	0.00	102.10	0.00	103.30	112.40	104.60	104.30
10	21.10	0.00	100.90	99.70	10.90	0.00	99.30	111.40	0.00	116.40	0.00	103.70	112.20	104.80	104.60
11	21.00	0.00	100.90	100.00	9.40	0.00	101.00	111.80	0.00	120.70	0.00	103.70	112.30	105.00	104.90
12	21.00	0.00	101.10	100.40	9.40	0.00	100.90	112.30	0.00	118.40	0.00	105.30	112.30	105.20	105.30
13	21.10	0.00	101.30	99.00	16.30	0.00	100.90	112.50	0.00	117.00	0.00	106.50	112.30	105.20	105.80
14	23.00	0.00	101.20	101.00	21.40	0.00	101.20	107.50	0.00	117.60	0.00	106.90	111.80	105.60	106.10
15	21.10	0.00	101.60	101.30	20.60	0.00	101.00	105.70	0.00	117.70	0.00	107.40	112.50	105.60	106.50
16	21.00	0.00	101.40	101.40	21.10	0.00	102.00	104.90	0.00	117.20	0.00	107.70	112.60	105.60	106.50
17	22.50	0.00	101.60	102.60	20.80	0.00	102.70	104.50	0.00	117.50	0.00	108.10	112.60	105.30	106.70
18	22.30	0.00	101.70	101.50	20.50	0.00	103.00	103.50	0.00	117.10	0.00	108.30	112.60	105.20	106.70
19	21.20	0.00	101.30	101.50	22.00	0.00	102.20	103.80	0.00	116.40	0.00	106.20	112.80	104.90	106.60
20	28.30	0.00	101.20	101.20	21.10	1.10	102.50	102.70	0.00	114.10	0.00	106.30	112.40	104.70	106.50
21	33.20	0.00	101.70	100.50	30.60	29.10	102.30	102.10	0.00	115.00	0.00	105.80	112.40	104.70	106.50
22	33.80	0.00	101.50	100.40	30.40	29.90	101.20	103.40	0.00	114.20	0.00	105.60	112.10	104.70	106.40
23	40.90	0.00	101.90	100.50	30.50	30.00	101.10	114.20	0.00	114.70	0.00	106.70	111.80	104.50	106.20
24	20.10	0.00	101.70	100.00	27.80	27.20	100.50	115.40	0.00	113.40	0.00	106.80	115.60	104.50	106.00

18 AUG 2003

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

18 AUG 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.			
1	10.40	0.00	99.00	100.70	100.40	102.00	18.80	0.00	105.60	127.70	16.70	0.00	100.40	99.60	
2	10.20	0.00	99.10	100.50	100.20	101.40	18.80	0.00	105.90	128.80	16.60	0.00	100.30	99.40	
3	10.40	0.00	99.00	100.30	100.00	101.00	18.70	0.00	105.60	129.80	16.40	0.00	100.50	99.20	
4	10.20	0.00	99.10	100.30	100.00	100.60	18.80	0.00	105.20	130.30	14.70	0.00	101.10	99.10	
5	10.40	0.00	99.10	100.10	100.00	100.20	19.00	0.00	105.50	130.50	15.00	0.00	101.60	99.00	
6	10.20	0.00	99.10	100.10	99.90	99.90	23.60	0.00	105.50	119.50	20.20	0.00	101.20	98.90	
7	10.20	0.00	99.20	100.00	100.10	99.70	23.70	0.00	105.10	127.70	20.80	0.00	101.20	99.00	
8	10.40	0.00	99.00	100.10	100.40	99.80	23.70	0.00	105.30	134.20	19.50	0.00	101.10	99.10	
9	10.20	0.00	99.00	100.60	101.00	100.30	20.90	0.00	107.50	131.90	19.40	0.00	101.30	99.30	
10	10.40	0.00	99.20	101.20	101.60	101.10	21.10	0.00	107.40	130.80	18.90	0.00	102.00	99.50	
11	10.20	0.00	99.40	101.80	102.30	102.20	20.80	0.00	108.20	130.70	18.90	0.00	102.90	99.70	
12	10.40	0.00	99.50	102.60	102.80	103.20	16.00	0.00	108.50	132.30	18.80	0.00	102.00	99.90	
13	10.20	0.00	99.80	103.40	103.30	104.20	15.80	0.00	109.20	113.80	20.20	0.00	100.90	99.90	
14	10.40	0.00	99.90	104.00	103.80	105.10	16.00	0.00	109.60	110.00	18.90	0.00	102.00	100.10	
15	9.50	0.00	99.80	104.50	104.00	105.90	24.40	0.00	109.10	108.90	19.10	0.00	101.90	100.20	
16	10.00	0.00	99.90	104.90	104.10	106.40	27.30	0.00	108.50	105.80	28.70	0.00	101.70	100.40	
17	10.40	0.00	99.80	104.80	104.00	106.60	30.30	0.00	109.20	105.40	30.10	0.00	101.40	100.50	
18	10.20	0.00	99.80	104.20	103.70	106.40	30.60	0.00	109.60	104.80	30.50	0.00	104.20	100.10	
19	10.30	0.00	99.60	103.60	103.00	105.90	39.30	0.00	110.50	104.10	44.40	0.00	103.50	100.20	
20	10.20	0.00	99.50	102.90	102.10	105.20	38.80	0.00	110.60	103.70	45.40	0.00	104.10	100.10	
21	10.30	0.00	99.40	102.30	101.50	104.30	39.70	0.00	110.30	103.40	45.10	0.00	101.40	100.00	
22	10.20	0.00	99.30	101.90	101.00	103.80	41.50	0.00	108.10	103.40	45.60	0.00	100.70	100.10	
23	10.40	0.00	99.30	101.50	100.80	103.20	39.10	0.00	110.30	102.90	44.70	0.00	103.50	100.20	
24	10.20	0.00	99.30	101.20	100.60	102.60	18.90	0.00	109.70	102.20	31.10	0.00	102.60	100.10	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.			
1	14.20	0.00	101.40	99.70	14.50	14.00	99.50	115.40	0.00	104.90	115.20	104.20	0.00	105.90	
2	14.60	0.00	101.20	99.90	10.60	10.00	98.60	115.10	73.60	0.00	104.40	113.80	104.20	0.00	105.70
3	14.60	0.00	101.40	99.60	15.00	14.50	97.80	115.10	69.00	0.00	103.80	112.20	104.20	0.00	105.50
4	14.80	0.00	100.80	99.50	15.50	15.00	97.20	114.30	69.00	0.00	104.00	112.70	104.10	0.00	105.30
5	15.20	0.00	100.70	99.30	15.90	14.90	96.40	112.20	106.30	0.00	105.50	113.40	104.20	0.00	105.00
6	20.80	0.00	100.80	99.20	19.40	10.00	101.60	111.80	106.50	0.00	105.30	111.70	104.00	0.00	104.70
7	21.30	0.00	100.60	99.10	19.70	9.90	103.00	111.90	99.10	0.00	105.50	112.20	103.90	0.00	104.60
8	19.50	0.00	100.70	99.10	19.90	9.60	103.90	111.90	124.80	0.00	105.80	111.50	104.00	0.00	104.20
9	19.40	0.00	100.60	99.50	19.70	0.00	104.60	111.40	128.30	0.00	103.90	112.60	104.40	0.00	104.10
10	21.30	0.00	100.60	0.00	20.00	0.00	104.90	111.70	128.80	0.00	103.40	113.60	104.80	0.00	104.10
11	19.30	0.00	100.20	101.20	19.50	0.00	104.90	110.80	130.40	0.00	103.60	113.60	105.00	0.00	104.40
12	19.30	0.00	100.20	100.90	19.50	0.00	105.90	105.00	131.80	0.00	103.40	113.60	105.10	0.00	104.90
13	20.80	0.00	100.40	101.30	21.20	0.00	106.10	103.90	132.00	0.00	105.00	112.70	105.30	0.00	105.30
14	19.00	0.00	101.70	101.60	26.10	0.00	106.90	103.80	133.40	0.00	104.70	112.40	105.40	0.00	105.70
15	19.50	0.00	102.40	101.60	26.60	0.00	107.50	104.00	137.50	0.00	110.70	112.50	105.50	0.00	106.00
16	28.50	0.00	102.30	102.30	28.70	0.00	109.80	103.20	137.30	0.00	111.60	113.00	105.50	0.00	106.40
17	31.30	0.00	103.60	102.00	26.90	0.00	110.00	102.90	137.40	0.00	112.50	114.30	105.40	0.00	106.70
18	34.00	0.00	104.00	102.00	37.00	0.00	112.40	103.00	136.90	0.00	110.40	114.90	105.60	0.00	106.80
19	48.80	0.00	105.10	102.00	46.60	0.00	112.90	103.40	136.60	0.00	111.30	113.30	105.90	0.00	106.70
20	51.00	0.00	106.50	101.50	46.40	1.60	110.90	102.40	137.20	0.00	112.20	113.60	106.20	0.00	106.70
21	49.30	0.00	104.30	101.30	52.80	47.40	101.90	102.40	137.30	0.00	112.20	111.30	105.90	-	999.00
22	51.90	0.00	104.10	101.30	50.10	49.50	102.30	113.60	135.40	0.00	112.20	112.50	105.40	-	999.00
23	50.60	0.00	104.20	100.90	50.20	49.60	101.40	114.20	133.90	0.00	112.60	117.00	105.00	-	999.00
24	37.80	0.00	104.10	100.80	47.10	46.50	101.50	114.10	134.00	0.00	112.40	116.10	104.90	-	999.00

19 AUG 2003

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

19 AUG 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	LOWER GRANITE	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.		
1	10.40	0.00	99.30	101.00	100.40	102.10	18.00	0.00	109.50	101.90	18.00	0.00	102.20	100.30	
2	10.20	0.00	99.30	101.00	100.30	101.60	18.00	0.00	109.00	101.60	15.10	0.00	101.40	100.30	
3	10.40	0.00	99.30	100.90	100.30	101.10	18.20	0.00	107.40	101.50	15.00	0.00	100.80	100.10	
4	10.20	0.00	99.20	100.90	100.10	100.70	19.70	0.00	108.60	102.10	15.20	0.00	100.80	100.20	
5	10.40	0.00	99.20	100.70	100.20	100.30	18.10	0.00	108.90	101.30	16.50	0.00	100.90	100.50	
6	9.70	0.00	99.20	100.50	100.10	100.00	18.40	0.00	108.10	101.20	20.40	0.00	100.80	100.40	
7	8.10	0.00	99.40	100.50	100.10	99.60	27.40	0.00	108.60	108.10	26.60	0.00	101.20	100.70	
8	7.90	0.00	99.40	100.60	100.50	99.90	29.80	0.00	108.60	102.80	26.70	0.00	105.50	101.00	
9	8.10	0.00	99.70	101.10	101.10	100.50	29.70	0.00	109.10	102.60	28.20	0.00	106.40	101.20	
10	7.90	0.00	100.00	101.60	102.00	101.40	29.90	0.00	109.00	102.30	28.20	0.00	107.10	101.60	
11	8.10	0.00	100.20	102.20	102.80	102.40	30.00	0.00	108.90	102.20	26.80	0.00	107.80	102.00	
12	8.10	0.00	100.30	103.00	103.60	103.40	30.30	0.00	109.30	102.10	28.10	0.00	107.90	102.20	
13	7.90	0.00	100.60	103.70	104.20	104.50	32.30	0.00	109.80	102.20	26.80	0.00	107.10	102.50	
14	8.10	0.00	100.70	104.30	104.70	105.30	34.10	0.00	109.70	102.30	27.70	0.00	106.10	102.70	
15	7.90	0.00	100.60	104.40	105.40	105.90	33.90	0.00	109.50	102.30	35.60	0.00	106.00	102.90	
16	8.10	0.00	100.70	104.20	105.50	106.20	34.00	0.00	108.90	102.20	34.50	0.00	105.50	102.90	
17	7.90	0.00	100.20	103.70	105.10	105.80	35.60	0.00	108.70	102.00	34.50	0.00	104.40	102.90	
18	8.00	0.00	100.10	103.70	104.40	106.00	33.80	0.00	108.90	101.90	34.30	0.00	103.40	102.90	
19	7.90	0.00	100.10	103.10	103.70	105.70	33.80	0.00	108.90	101.70	34.30	0.00	101.30	102.90	
20	8.10	0.00	99.90	102.40	102.90	105.00	34.70	0.00	108.90	101.50	35.10	0.00	101.70	102.80	
21	7.90	0.00	99.60	101.80	102.20	104.20	34.10	0.00	108.40	101.40	51.60	0.00	103.10	103.60	
22	8.10	0.00	99.60	101.10	101.50	103.40	33.50	0.00	107.80	101.30	55.20	0.00	103.30	102.90	
23	6.60	0.00	99.50	100.80	101.20	102.80	20.30	0.00	107.10	100.90	37.50	0.00	102.80	103.00	
24	5.80	0.00	99.00	100.50	100.80	102.20	18.60	0.00	104.80	100.70	20.40	0.00	102.60	102.70	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	MCNARY	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	MCNARY	PASCO
1	17.20	0.00	104.30	100.70	31.00	30.40	100.80	114.00	0.00	112.30	116.30	105.00	-	-999.00	
2	14.20	0.00	104.00	100.60	12.90	12.30	100.30	113.70	0.00	112.10	113.40	105.00	-	-999.00	
3	14.10	0.00	103.20	100.10	10.50	9.90	99.30	114.00	0.00	112.50	114.40	104.90	-	105.40	
4	14.60	0.00	102.10	99.80	10.50	9.90	99.50	114.00	0.00	111.30	116.60	104.80	-	105.00	
5	15.00	0.00	101.30	99.50	11.20	9.90	99.50	113.40	0.00	111.10	115.80	104.70	-	104.60	
6	19.90	0.00	101.00	99.30	19.20	10.00	99.10	111.90	0.00	110.00	115.00	104.90	-	104.30	
7	21.00	0.00	100.90	99.30	19.30	10.10	103.90	111.30	0.00	108.40	115.30	104.80	-	104.10	
8	26.50	0.00	101.10	99.70	27.30	10.10	106.60	111.90	0.00	109.60	115.00	104.80	-	103.80	
9	26.70	0.00	104.80	99.90	31.90	0.70	106.80	111.70	0.00	109.40	114.50	104.60	-	103.80	
10	28.10	0.00	103.80	100.40	28.80	0.00	105.60	107.90	0.00	108.60	114.40	104.70	-	104.10	
11	28.60	0.00	105.10	100.70	27.40	0.00	104.50	103.40	0.00	111.20	113.90	104.90	-	104.20	
12	28.20	0.00	104.70	101.40	27.30	0.00	104.60	103.80	0.00	111.70	115.10	105.00	-	104.70	
13	26.60	0.00	105.90	101.50	27.80	0.00	104.00	103.60	0.00	111.70	114.90	105.20	-	105.10	
14	29.40	0.00	107.50	101.70	29.10	0.00	106.30	103.50	0.00	111.50	111.60	105.30	-	105.30	
15	33.40	0.00	106.80	101.80	27.20	0.00	108.70	103.30	0.00	111.80	111.50	104.90	-	105.50	
16	35.80	0.00	105.80	102.30	29.10	0.00	110.20	103.60	0.00	111.10	112.20	104.60	-	105.70	
17	33.70	0.00	103.20	101.70	27.10	0.00	111.10	103.30	0.00	111.10	112.10	104.40	-	105.80	
18	33.50	0.00	103.30	101.60	28.60	0.00	109.70	102.10	0.00	111.10	112.00	104.10	-	106.00	
19	33.60	0.00	102.90	101.20	31.50	0.00	108.70	102.40	0.00	109.90	110.80	103.80	-	106.10	
20	34.20	0.00	102.00	100.70	40.70	1.50	106.40	101.70	0.00	108.70	110.90	103.20	-	105.90	
21	49.10	0.00	101.10	100.30	41.30	38.30	101.00	101.50	0.00	129.90	0.00	107.80	109.70	102.80	105.80
22	58.80	0.00	101.00	99.90	40.40	39.80	99.70	112.40	0.00	150.10	0.00	106.90	109.70	102.60	105.50
23	45.50	0.00	101.10	99.60	41.20	40.70	100.00	114.10	0.00	128.50	0.00	105.80	109.60	102.30	105.30
24	42.80	0.00	100.60	100.60	34.20	33.60	99.80	114.10	0.00	122.90	0.00	105.10	109.50	102.30	105.00

20 AUG 2003

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

20 AUG 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	LOWER GRANITE	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.		
1	5.70	0.00	98.70	100.30	100.60	101.80	17.60	0.00	104.50	100.40	15.10	0.00	102.80	102.80	
2	5.80	0.00	-999.00	100.20	100.30	101.40	19.40	0.00	101.70	100.30	14.20	0.00	102.40	102.80	
3	5.70	0.00	-999.00	100.00	99.90	100.90	17.40	0.00	101.40	100.20	14.10	0.00	102.00	102.80	
4	5.80	0.00	-999.00	99.80	99.80	100.60	19.20	0.00	102.40	100.00	14.10	0.00	101.90	102.90	
5	5.80	0.00	-999.00	99.70	99.70	100.10	20.50	0.00	101.40	100.00	14.30	0.00	102.20	102.80	
6	5.90	0.00	-999.00	99.40	99.50	99.70	20.00	0.00	101.60	99.90	18.80	0.00	103.20	102.80	
7	8.10	0.00	-999.00	99.50	99.70	99.50	20.00	0.00	102.00	99.80	19.80	0.00	102.80	102.80	
8	7.90	0.00	-999.00	99.70	99.70	99.70	20.00	0.00	102.60	99.70	22.70	0.00	103.00	103.10	
9	8.10	0.00	-999.00	100.10	100.50	100.40	20.00	0.00	103.50	99.80	19.90	0.00	103.20	103.20	
10	8.00	0.00	99.30	100.70	101.40	101.40	26.80	0.00	104.10	100.00	21.20	0.00	102.70	103.60	
11	8.10	0.00	99.50	101.30	102.30	102.40	29.90	0.00	103.80	100.00	20.50	0.00	103.50	104.00	
12	7.90	0.00	99.50	102.00	103.10	103.60	31.20	0.00	103.40	99.90	26.50	0.00	103.40	104.40	
13	8.10	0.00	99.70	101.90	103.70	104.60	28.80	0.00	104.00	100.00	28.30	0.00	103.60	104.80	
14	7.90	0.00	99.80	103.40	104.20	105.40	27.00	0.00	104.50	99.90	28.50	0.00	103.60	104.80	
15	8.10	0.00	99.90	103.90	104.80	106.10	26.50	0.00	105.10	100.10	28.40	0.00	103.30	105.10	
16	7.90	0.00	99.80	104.10	104.90	106.50	25.50	0.00	105.40	100.20	28.00	0.00	103.50	106.80	
17	8.10	0.00	99.90	103.90	104.10	106.70	25.50	0.00	105.40	100.30	26.70	0.00	103.90	106.90	
18	7.90	0.00	99.80	103.50	104.30	106.50	25.10	0.00	105.50	100.20	28.10	0.00	103.50	105.90	
19	8.10	0.00	99.60	103.10	103.60	105.90	33.60	0.00	106.10	100.30	34.90	0.00	103.80	105.10	
20	7.90	0.00	99.40	102.40	102.70	105.10	33.60	0.00	106.10	100.30	40.60	0.00	103.70	104.90	
21	5.80	0.00	98.90	101.80	101.90	104.40	39.10	0.00	106.20	100.60	44.80	0.00	103.40	104.90	
22	5.80	0.00	98.70	101.40	101.40	103.60	28.20	0.00	105.70	100.10	48.50	0.00	104.10	104.70	
23	5.70	0.00	98.50	101.10	101.20	103.10	18.50	0.00	105.20	100.20	26.30	0.00	103.60	104.50	
24	5.80	0.00	98.50	100.80	100.90	102.50	18.30	0.00	105.50	100.10	14.40	0.00	103.30	104.40	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB	MCNARY	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	GAS %SAT	
1	18.10	0.00	100.40	100.10	20.60	20.10	99.30	114.30	0.00	105.10	109.50	102.40	0.00	104.70	
2	15.90	0.00	100.30	99.00	22.00	20.00	98.80	114.10	0.00	105.10	109.10	102.60	0.00	104.20	
3	14.00	0.00	100.20	99.50	10.60	10.10	99.00	113.10	0.00	104.50	108.90	102.70	0.00	103.90	
4	14.00	0.00	100.10	98.80	10.60	10.00	98.50	112.40	0.00	104.20	109.20	102.60	0.00	103.60	
5	14.10	0.00	100.00	98.50	12.80	10.00	98.90	112.00	0.00	104.80	110.00	102.50	0.00	103.30	
6	18.80	0.00	100.00	98.40	19.40	10.20	98.40	111.50	0.00	105.00	110.70	102.40	0.00	103.10	
7	19.20	0.00	99.80	98.30	19.10	10.00	97.80	110.60	0.00	105.50	111.20	102.50	0.00	102.70	
8	19.60	0.00	99.40	98.30	20.90	10.00	97.60	111.40	0.00	105.50	111.40	102.70	0.00	102.60	
9	19.30	0.00	99.40	98.60	20.40	0.40	99.30	111.20	0.00	105.40	111.50	103.10	0.00	102.50	
10	19.20	0.00	99.50	98.80	21.70	0.00	99.70	111.20	0.00	105.10	111.30	103.40	0.00	102.60	
11	20.70	0.00	99.50	99.20	20.20	0.00	99.70	105.90	0.00	105.30	112.50	103.70	0.00	102.80	
12	19.50	0.00	99.50	99.90	20.20	0.00	100.10	102.60	0.00	106.20	112.00	104.00	0.00	103.20	
13	27.00	0.00	99.60	99.90	22.20	0.00	100.50	101.30	0.00	107.60	111.90	104.10	0.00	103.50	
14	26.80	0.00	100.40	100.00	30.20	0.00	100.70	101.30	0.00	109.20	111.30	104.20	0.00	103.70	
15	29.50	0.00	100.10	100.20	30.80	0.00	100.80	102.10	0.00	109.70	111.00	104.40	0.00	103.90	
16	26.70	0.00	100.10	100.40	36.90	0.00	101.10	101.10	0.00	109.50	111.60	104.50	0.00	104.10	
17	26.40	0.00	101.40	101.80	36.60	0.00	102.20	101.10	0.00	110.30	111.60	104.60	0.00	104.30	
18	26.80	0.00	101.70	101.20	35.90	0.00	103.00	101.00	0.00	109.70	112.30	104.70	0.00	104.50	
19	39.20	0.00	101.90	100.70	37.50	0.00	103.10	100.90	0.00	105.90	116.00	104.80	0.00	104.60	
20	39.40	0.00	103.10	100.10	41.30	0.70	104.90	101.10	0.00	105.80	118.60	105.20	0.00	104.60	
21	52.60	0.00	102.80	99.90	44.70	38.70	100.80	100.70	0.00	104.80	117.60	105.30	0.00	104.80	
22	52.40	0.00	102.30	99.70	31.40	30.80	100.80	112.60	0.00	104.40	117.50	105.30	0.00	104.70	
23	30.80	0.00	102.30	99.60	20.80	20.20	100.50	114.40	0.00	104.30	116.60	105.20	0.00	104.60	
24	28.80	0.00	102.20	99.90	18.20	17.60	100.10	114.00	0.00	104.90	115.40	105.10	0.00	104.60	

21 AUG 2003

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

21 AUG 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	LITTLE GOOSE	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.		
1	5.70	0.00	98.60	100.50	100.70	102.00	16.70	0.00	105.40	100.00	13.70	0.00	104.30	104.10	
2	5.80	0.00	98.60	100.50	100.50	101.60	16.50	0.00	105.20	99.90	13.70	0.00	103.80	104.10	
3	5.70	0.00	98.60	100.40	100.40	101.10	16.60	0.00	105.00	99.80	13.70	0.00	103.50	104.00	
4	5.80	0.00	98.70	100.40	100.20	100.60	16.60	0.00	104.80	99.70	13.70	0.00	103.40	104.00	
5	5.70	0.00	98.70	100.40	100.10	100.30	16.60	0.00	105.20	99.70	13.70	0.00	102.70	103.90	
6	5.80	0.00	98.50	100.20	100.10	100.00	16.60	0.00	105.40	99.50	13.70	0.00	102.70	103.70	
7	7.70	0.00	99.10	100.00	100.20	99.70	18.80	0.00	105.40	99.50	13.70	0.00	103.10	103.90	
8	8.10	0.00	99.40	100.20	100.60	100.00	18.60	0.00	105.30	109.50	13.80	0.00	103.20	103.90	
9	8.00	0.00	99.60	100.70	101.20	100.70	18.60	0.00	104.80	104.20	14.60	0.00	103.00	104.10	
10	8.10	0.00	100.00	101.20	102.10	101.50	18.50	0.00	104.90	103.20	14.40	0.00	102.80	104.10	
11	8.00	0.00	100.20	102.00	102.90	102.60	18.70	0.00	105.10	102.20	14.50	0.00	103.50	104.30	
12	8.10	0.00	100.40	102.80	103.70	103.60	21.30	0.00	105.90	102.00	28.10	0.00	104.60	105.00	
13	8.10	0.00	100.60	103.60	104.20	104.50	27.30	0.00	106.50	103.00	29.50	0.00	104.80	104.90	
14	7.90	0.00	100.50	104.00	104.60	105.20	33.30	0.00	106.90	102.10	31.20	0.00	105.70	104.90	
15	8.10	0.00	100.40	104.30	104.80	105.70	30.60	0.00	107.60	101.80	32.70	0.00	105.50	105.20	
16	7.90	0.00	100.50	104.30	104.80	105.80	26.50	0.00	107.50	101.60	26.10	0.00	105.10	105.40	
17	8.10	0.00	100.50	103.90	104.30	105.70	17.90	0.00	107.50	101.40	15.20	0.00	104.10	105.40	
18	8.00	0.00	100.30	103.60	103.70	105.30	19.00	0.00	107.60	101.20	15.10	0.00	104.00	105.20	
19	8.10	0.00	100.20	103.10	103.20	104.90	27.00	0.00	107.10	101.60	24.30	0.00	104.40	105.20	
20	7.90	0.00	100.10	102.70	102.60	104.40	27.30	0.00	107.30	101.70	27.90	0.00	103.80	105.30	
21	5.80	0.00	99.50	102.20	102.20	103.80	33.30	0.00	107.30	101.60	36.40	0.00	103.50	104.90	
22	5.70	0.00	99.30	101.80	101.80	103.20	36.20	0.00	107.10	101.80	37.70	0.00	104.40	104.80	
23	5.80	0.00	99.30	101.40	101.80	102.80	15.80	0.00	107.00	101.30	21.40	0.00	104.40	104.80	
24	5.70	0.00	99.30	101.10	101.40	102.40	13.70	0.00	106.80	100.90	13.70	0.00	103.60	104.70	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. OR FB	PASCO	GAS %SAT. WA FB	GAS %SAT. FB	GAS %SAT. FB	GAS %SAT. SAT	
1	14.70	0.00	103.10	99.60	12.30	11.80	100.10	112.90	0.00	107.30	116.50	104.90	104.50		
2	14.10	0.00	103.50	99.40	16.20	15.60	99.80	112.30	0.00	106.70	116.60	104.90	104.20		
3	13.90	0.00	103.00	99.60	14.40	13.80	101.40	112.10	0.00	105.60	116.30	105.10	103.90		
4	13.70	0.00	103.00	99.40	10.70	10.10	101.50	111.50	0.00	104.50	116.20	105.20	103.70		
5	13.80	0.00	103.30	99.20	10.90	10.10	101.40	111.10	0.00	104.30	115.30	105.30	103.40		
6	13.80	0.00	103.20	99.20	21.00	10.30	101.50	111.10	0.00	105.50	115.30	105.20	103.30		
7	14.00	0.00	103.10	99.20	19.20	10.10	100.60	111.20	0.00	106.30	115.50	105.20	103.10		
8	13.90	0.00	102.80	99.30	19.30	10.10	100.00	111.30	0.00	106.60	117.50	105.30	103.00		
9	14.00	0.00	103.30	99.60	13.50	0.60	100.70	111.10	0.40	105.10	117.60	105.30	103.00		
10	14.30	0.00	103.70	100.20	13.50	0.00	101.50	111.70	1.20	104.50	117.80	105.30	103.10		
11	16.70	0.00	104.70	100.80	13.40	0.00	100.90	111.70	1.20	105.90	118.20	105.40	103.30		
12	27.30	0.00	105.10	101.70	20.90	0.00	103.50	106.80	1.20	107.80	118.60	105.50	103.70		
13	27.80	0.00	105.40	0.00	28.20	0.00	106.10	103.80	1.20	109.10	115.60	105.50	104.20		
14	31.90	0.00	104.50	102.70	30.10	0.00	107.90	103.60	1.20	110.20	115.50	105.70	104.40		
15	31.40	0.00	103.80	103.00	33.10	0.00	108.80	103.70	1.20	111.00	114.60	105.70	104.80		
16	29.10	0.00	105.60	103.20	26.00	0.00	109.90	103.20	1.20	111.30	114.70	105.50	104.80		
17	14.80	0.00	105.40	103.50	14.70	0.00	104.10	103.20	1.20	111.40	115.10	105.30	104.90		
18	16.10	0.00	105.40	103.10	13.30	0.00	102.90	102.70	1.20	110.70	114.90	104.90	105.20		
19	26.90	0.00	103.10	102.40	24.10	0.00	109.30	102.60	1.20	109.60	116.50	104.80	105.20		
20	30.10	0.00	103.40	102.80	28.00	3.50	108.30	103.10	1.20	109.80	114.80	104.60	105.00		
21	36.40	0.00	103.50	102.00	26.40	25.80	103.90	102.00	1.20	108.90	116.50	104.50	104.90		
22	36.80	0.00	102.50	101.70	39.90	39.40	105.60	108.50	1.20	109.10	116.50	104.20	104.70		
23	36.10	0.00	103.50	101.40	36.10	35.60	104.00	113.60	1.20	108.40	115.20	103.90	104.60		
24	16.30	0.00	104.30	101.10	36.20	35.60	101.00	114.00	1.20	106.30	113.70	103.80	104.50		

22 AUG 2003

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

22 AUG 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	LITTLE GOOSE	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.		
1	5.80	0.00	99.30	100.90	101.20	102.00	14.00	0.00	107.00	100.80	13.50	0.00	104.50	104.50	
2	5.70	0.00	99.30	100.80	101.00	101.60	12.90	0.00	106.90	100.60	13.40	0.00	104.70	104.60	
3	5.80	0.00	99.30	100.70	101.00	101.10	12.90	0.00	106.80	100.70	13.40	0.00	104.50	104.40	
4	5.80	0.00	99.30	100.50	100.90	100.90	13.00	0.00	106.80	100.70	13.60	0.00	105.10	104.50	
5	5.70	0.00	99.30	100.60	100.90	100.60	13.50	0.00	106.10	100.50	13.40	0.00	105.70	104.50	
6	6.00	0.00	99.30	100.30	100.70	100.30	13.80	0.00	106.40	100.50	13.70	0.00	103.70	104.60	
7	7.90	0.00	99.90	100.20	100.80	100.00	18.60	0.00	105.90	100.30	19.40	0.00	104.60	104.60	
8	8.10	0.00	100.00	100.20	100.90	99.90	18.50	0.00	105.50	100.40	18.10	0.00	104.70	104.40	
9	8.00	0.00	100.00	100.30	101.20	99.90	20.70	0.00	105.60	100.50	18.10	0.00	104.70	104.40	
10	8.10	0.00	99.90	100.60	101.40	100.00	24.60	0.00	105.70	100.90	18.10	0.00	104.60	104.60	
11	8.00	0.00	100.00	101.20	101.70	100.10	24.50	0.00	105.70	101.00	18.00	0.00	104.40	104.50	
12	8.10	0.00	100.10	101.40	102.10	100.50	24.50	0.00	105.70	100.90	18.00	0.00	104.30	104.50	
13	8.10	0.00	100.10	101.70	102.40	100.70	26.40	0.00	105.80	100.80	19.40	0.00	104.40	104.40	
14	7.90	0.00	100.10	102.20	102.70	101.20	20.50	0.00	105.50	100.90	18.00	0.00	104.60	104.50	
15	8.10	0.00	100.20	102.70	102.90	102.00	20.90	0.00	105.20	100.60	17.90	0.00	105.60	104.90	
16	7.90	0.00	100.30	102.60	103.60	102.80	17.80	0.00	105.00	100.40	18.00	0.00	105.30	104.70	
17	8.10	0.00	100.10	102.20	103.60	103.00	19.40	0.00	105.00	100.20	19.30	0.00	104.80	104.90	
18	7.90	0.00	99.80	101.50	102.90	102.60	21.50	0.00	104.50	101.10	20.10	0.00	105.30	105.10	
19	8.10	0.00	99.70	101.40	102.10	102.30	18.60	0.00	104.60	101.10	27.80	0.00	105.80	105.70	
20	7.80	0.00	99.80	101.20	101.50	102.00	28.30	0.00	105.00	101.10	43.60	0.00	105.80	105.80	
21	5.70	0.00	99.30	100.80	101.30	101.80	28.50	0.00	104.40	101.10	45.90	0.00	105.60	105.50	
22	5.80	0.00	99.00	100.50	101.10	101.60	28.00	0.00	105.00	100.90	44.00	0.00	105.70	105.50	
23	5.70	0.00	99.00	100.10	101.10	101.40	16.50	0.00	104.70	100.70	28.80	0.00	105.30	105.70	
24	5.80	0.00	98.90	99.90	100.80	101.20	15.30	0.00	104.70	100.60	13.50	0.00	104.90	106.30	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	PASCO	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	GAS %SAT	
1	13.80	0.00	104.20	100.90	36.70	36.10	100.20	114.00	1.20	106.10	115.30	103.40			104.50
2	14.10	0.00	103.90	100.80	16.80	16.20	100.80	113.90	78.80	0.00	105.30	116.70	103.40		104.50
3	13.80	0.00	103.70	100.70	15.90	15.40	102.80	113.90	116.70	0.00	105.30	116.30	103.60		104.50
4	15.50	0.00	103.20	100.30	15.90	15.30	101.30	113.90	140.80	0.00	105.40	115.40	103.70		104.30
5	13.90	0.00	102.10	100.80	16.10	15.50	100.60	112.40	160.30	0.00	104.80	114.80	103.70		104.30
6	14.10	0.00	102.30	100.10	14.20	10.60	100.20	111.70	163.20	0.00	103.70	115.10	103.70		104.20
7	19.70	0.00	102.60	99.70	18.90	10.00	100.20	111.80	163.80	0.00	104.70	114.90	103.60		104.00
8	18.30	0.00	102.20	99.70	19.10	9.90	99.30	111.90	160.70	0.00	103.80	115.40	103.40		103.90
9	19.40	0.00	101.70	99.90	14.00	0.50	100.10	111.70	162.70	0.00	103.00	115.30	103.50		103.70
10	17.90	0.00	102.40	99.90	13.70	0.00	100.00	111.10	162.00	0.00	102.40	115.00	103.60		103.50
11	19.50	0.00	102.20	100.00	13.80	0.00	99.60	110.90	152.10	0.00	102.30	114.90	103.60		103.30
12	17.90	0.00	102.10	99.90	15.60	0.00	99.10	106.60	151.50	0.00	102.40	114.00	103.50		103.30
13	17.90	0.00	101.90	99.90	15.30	0.00	99.30	103.20	150.70	0.00	104.70	115.40	103.30		103.20
14	18.30	0.00	101.70	99.90	17.70	0.00	100.40	102.80	135.70	0.00	104.20	114.20	103.20		103.20
15	18.00	0.00	101.40	100.00	19.60	0.00	102.50	102.70	134.10	0.00	103.90	114.10	102.90		103.00
16	17.90	0.00	100.90	99.80	21.10	0.00	102.50	103.20	130.90	0.00	104.00	113.70	103.00		103.10
17	17.80	0.00	101.00	99.90	20.10	0.00	101.60	102.40	129.80	0.00	104.20	113.00	102.80		103.10
18	18.00	0.00	101.20	100.00	19.80	0.00	101.50	101.90	129.60	0.00	104.40	113.20	102.80		103.10
19	21.80	0.00	101.10	99.80	19.70	0.00	101.00	102.00	127.00	0.00	104.60	112.90	102.60		103.40
20	35.60	0.00	103.50	99.80	20.30	0.90	101.80	101.60	153.40	0.00	103.60	112.20	102.70		103.40
21	48.90	0.00	102.10	99.70	26.60	25.60	100.70	101.30	155.00	0.00	102.30	111.80	102.60		103.30
22	55.40	0.00	102.00	99.50	32.70	32.20	99.10	101.50	154.50	0.00	102.40	111.60	102.40		103.30
23	42.50	0.00	101.60	99.30	44.50	44.00	99.00	113.20	135.70	0.00	101.40	111.40	102.20		103.20
24	28.60	0.00	101.10	99.20	44.60	44.00	99.40	114.50	114.10	0.00	101.00	112.40	102.00		103.20

23 AUG 2003

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

23 AUG 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	LOWER GRANITE	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.		
1	5.70	0.00	98.90	99.80	100.70	100.90	15.20	0.00	103.00	100.40	15.10	0.00	104.50	105.70	
2	5.80	0.00	98.90	99.70	100.60	100.70	16.30	0.00	102.80	100.20	13.50	0.00	104.30	105.50	
3	5.70	0.00	98.80	99.60	100.40	100.40	16.40	0.00	103.30	100.20	13.60	0.00	104.30	105.30	
4	5.80	0.00	98.70	99.70	100.30	100.20	18.60	0.00	102.80	100.10	13.60	0.00	103.00	105.00	
5	5.80	0.00	98.60	99.60	100.20	99.90	18.40	0.00	103.10	100.10	14.20	0.00	102.50	105.10	
6	5.80	0.00	98.60	99.60	100.20	99.70	18.40	0.00	103.00	100.00	14.20	0.00	103.10	105.10	
7	8.10	0.00	99.20	99.50	100.30	99.70	24.50	0.00	102.70	100.00	14.20	0.00	103.60	105.30	
8	8.00	0.00	99.30	99.50	100.40	99.70	18.90	0.00	102.60	100.10	15.60	0.00	103.90	105.80	
9	8.10	0.00	99.40	100.10	101.00	100.30	18.50	0.00	102.70	100.20	15.70	0.00	105.30	106.00	
10	8.00	0.00	99.60	100.80	101.70	101.10	20.40	0.00	101.70	100.10	15.70	0.00	106.20	106.00	
11	8.10	0.00	99.80	101.40	102.40	101.80	19.10	0.00	101.40	100.40	15.60	0.00	106.90	106.40	
12	8.00	0.00	100.00	102.10	103.30	103.00	18.60	0.00	101.30	100.20	15.70	0.00	107.60	106.80	
13	8.10	0.00	100.20	102.90	103.80	104.10	20.30	0.00	101.70	100.30	17.10	0.00	107.80	107.20	
14	8.10	0.00	100.10	103.20	104.50	104.70	18.70	0.00	102.20	100.50	15.60	0.00	108.00	107.40	
15	8.00	0.00	100.00	103.40	104.80	105.00	18.60	0.00	102.10	100.60	15.70	0.00	108.10	107.60	
16	8.10	0.00	100.10	103.80	104.70	105.20	24.10	0.00	102.30	107.60	20.60	0.00	108.40	107.90	
17	8.00	0.00	100.00	103.70	104.50	105.20	27.30	0.00	102.60	103.30	28.90	0.00	108.50	109.80	
18	8.10	0.00	99.80	103.10	104.10	105.10	26.90	0.00	102.90	100.90	27.80	0.00	108.00	108.60	
19	8.00	0.00	99.70	102.70	103.20	104.70	29.30	0.00	102.40	100.60	28.10	0.00	107.50	108.00	
20	7.90	0.00	99.50	102.20	102.40	104.10	27.10	0.00	102.10	100.30	36.00	0.00	106.80	107.70	
21	5.70	0.00	98.90	101.50	101.80	103.60	27.30	0.00	102.30	100.10	32.60	0.00	106.20	107.30	
22	5.80	0.00	98.70	101.10	101.40	103.00	31.60	0.00	103.00	100.10	32.00	0.00	106.10	106.90	
23	5.70	0.00	98.70	100.60	101.30	102.40	20.30	0.00	102.90	99.90	21.40	0.00	105.70	106.80	
24	5.80	0.00	98.70	100.40	101.10	102.10	19.30	0.00	102.80	99.80	20.90	0.00	105.50	106.40	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB	MCNARY	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	PASCO	
1	16.80	0.00	100.70	99.00	42.60	42.00	99.60	114.80	0.00	100.70	112.30	102.00	0.00	103.30	
2	13.80	0.00	100.40	99.20	24.10	23.60	99.10	114.60	0.00	100.40	112.20	102.00	0.00	103.30	
3	13.60	0.00	99.90	98.70	10.70	10.10	98.80	114.20	0.00	100.10	111.80	101.80	0.00	103.50	
4	13.60	0.00	99.20	98.30	12.10	10.10	98.60	114.20	0.00	100.20	111.80	101.80	0.00	103.40	
5	14.00	0.00	99.10	98.10	10.80	10.30	98.50	113.80	0.00	101.40	112.00	101.80	0.00	103.30	
6	15.60	0.00	98.90	97.80	18.60	10.10	98.30	113.30	0.00	101.30	112.20	101.70	0.00	103.20	
7	14.50	0.00	98.90	97.70	19.40	10.10	97.70	112.00	0.00	100.80	111.40	101.30	0.00	103.10	
8	14.20	0.00	98.90	97.50	19.70	9.80	96.80	112.10	0.00	100.80	111.90	101.40	0.00	102.90	
9	14.30	0.00	98.60	97.60	12.00	0.00	96.90	111.50	0.00	100.80	111.70	101.50	0.00	103.00	
10	14.20	0.00	98.70	97.90	13.70	0.00	97.70	111.50	0.00	100.60	111.80	101.50	0.00	103.20	
11	15.70	0.00	98.60	98.60	12.10	0.00	97.70	111.50	0.00	101.50	111.20	101.60	0.00	103.50	
12	14.20	0.00	98.60	98.80	12.30	0.00	97.50	111.40	0.00	101.50	110.90	101.70	0.00	103.90	
13	14.40	0.00	98.80	-999.00	12.10	0.00	98.50	107.20	0.00	103.00	111.70	101.80	0.00	104.50	
14	14.10	0.00	99.00	98.90	12.00	0.00	98.10	103.20	0.00	103.00	111.20	102.00	0.00	105.10	
15	14.20	0.00	99.20	99.30	12.10	0.00	97.80	103.30	0.00	103.10	111.80	102.20	0.00	105.50	
16	16.90	0.00	99.30	99.40	13.90	0.00	98.50	102.40	0.00	103.50	111.70	102.30	0.00	106.30	
17	20.10	0.00	99.30	99.60	16.20	0.00	99.60	102.00	0.00	104.30	111.80	102.30	0.00	106.90	
18	28.40	0.00	99.80	100.20	20.10	0.00	103.70	101.70	0.00	104.20	112.50	102.30	0.00	107.30	
19	28.50	0.00	99.60	99.80	27.80	0.00	104.20	102.10	0.00	103.10	110.80	102.30	0.00	107.80	
20	38.70	0.00	99.40	99.30	27.70	1.50	101.60	100.70	0.00	103.30	110.80	102.10	0.00	107.90	
21	38.80	0.00	100.10	99.10	36.80	36.20	99.00	100.50	0.00	102.80	110.20	101.90	0.00	108.00	
22	37.90	0.00	100.30	98.90	36.00	35.50	99.40	106.60	0.00	102.80	110.30	101.80	0.00	107.80	
23	27.50	0.00	100.20	98.80	36.00	35.50	100.40	114.20	0.00	101.60	111.30	101.60	0.00	107.60	
24	21.50	0.00	99.90	98.60	33.40	32.80	100.30	115.00	0.00	101.50	111.00	101.50	0.00	107.50	

24 AUG 2003

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

24 AUG 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	LOWER GRANITE	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.		
1	5.80	0.00	98.70	100.20	101.00	101.70	19.40	0.00	102.80	99.70	21.00	0.00	105.40	106.30	
2	5.70	0.00	98.60	100.00	100.60	101.20	14.10	0.00	102.50	99.50	14.50	0.00	105.10	106.00	
3	5.80	0.00	98.60	100.00	100.40	100.80	13.60	0.00	102.70	99.40	14.40	0.00	104.80	105.90	
4	5.70	0.00	98.40	99.90	100.40	100.50	13.70	0.00	102.30	99.30	14.30	0.00	104.50	105.50	
5	5.80	0.00	98.50	99.90	100.20	100.10	13.80	0.00	102.30	99.20	14.30	0.00	104.30	105.40	
6	5.80	0.00	98.50	99.70	100.20	99.70	18.50	0.00	102.10	99.40	14.30	0.00	104.00	105.10	
7	8.00	0.00	99.30	99.70	100.30	99.60	18.70	0.00	101.80	99.30	14.20	0.00	103.90	104.90	
8	8.00	0.00	99.20	99.90	100.70	99.80	18.60	0.00	101.70	99.30	14.50	0.00	103.80	104.80	
9	8.10	0.00	99.40	100.50	101.30	100.50	19.50	0.00	102.10	99.30	20.90	0.00	104.00	104.80	
10	8.00	0.00	99.60	101.10	102.00	101.00	26.10	0.00	102.40	99.70	22.60	0.00	104.20	105.00	
11	8.10	0.00	99.70	101.60	102.80	102.00	26.30	0.00	102.90	99.60	21.70	0.00	104.20	105.20	
12	8.10	0.00	99.90	102.40	103.50	102.90	25.10	0.00	103.20	99.60	26.50	0.00	104.40	105.40	
13	8.00	0.00	100.00	103.00	104.20	103.80	26.90	0.00	103.70	99.60	27.80	0.00	104.70	105.40	
14	8.10	0.00	100.20	103.70	104.60	104.60	25.10	0.00	103.80	99.70	24.90	0.00	104.60	105.40	
15	8.00	0.00	100.10	104.10	105.00	105.30	25.10	0.00	104.00	99.80	24.80	0.00	104.30	105.30	
16	8.10	0.00	100.10	104.40	105.20	105.60	25.30	0.00	104.10	99.70	26.20	0.00	104.20	105.30	
17	8.10	0.00	100.00	104.30	104.90	105.70	24.60	0.00	104.40	99.70	24.90	0.00	104.40	105.20	
18	8.00	0.00	99.70	103.80	104.50	105.40	18.60	0.00	103.50	99.70	24.80	0.00	104.30	104.90	
19	8.10	0.00	99.40	103.20	103.60	104.90	20.20	0.00	103.10	99.50	22.20	0.00	104.20	104.80	
20	7.80	0.00	99.40	102.50	102.60	104.10	18.70	0.00	103.10	99.60	20.60	0.00	103.80	104.60	
21	5.80	0.00	98.70	101.80	101.80	103.30	18.30	0.00	102.70	99.50	22.00	0.00	103.80	104.50	
22	5.70	0.00	98.40	101.30	101.20	102.80	18.10	0.00	101.90	99.30	20.40	0.00	103.60	104.40	
23	5.80	0.00	98.30	100.90	101.10	102.20	18.20	0.00	102.60	99.20	16.50	0.00	103.30	104.20	
24	5.70	0.00	98.30	100.50	100.70	101.60	18.20	0.00	102.40	99.10	16.30	0.00	103.60	103.90	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	MCNARY	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	PASCO	
1	20.90	0.00	99.90	98.60	21.60	21.00	100.70	115.00	0.00	101.60	110.70	101.20	0.00	107.30	
2	14.20	0.00	99.60	98.40	11.30	10.80	100.80	114.90	0.00	101.30	110.40	101.20	0.00	107.00	
3	13.90	0.00	99.50	98.30	10.70	10.10	99.70	114.80	0.00	101.00	110.70	100.90	0.00	106.70	
4	13.90	0.00	99.30	98.20	10.70	10.10	98.70	114.50	0.00	100.70	109.90	100.90	0.00	106.50	
5	14.00	0.00	99.40	98.10	11.70	10.30	98.30	113.70	0.00	101.30	109.90	100.90	0.00	106.20	
6	14.20	0.00	99.20	98.10	19.30	10.10	97.80	113.00	0.00	101.70	109.80	100.90	0.00	105.80	
7	13.90	0.00	99.10	98.10	19.40	10.10	97.00	111.80	0.00	100.80	109.90	100.70	0.00	105.50	
8	14.00	0.00	99.10	98.30	19.60	10.10	95.80	111.50	0.00	100.60	111.00	100.80	0.00	105.00	
9	14.40	0.00	99.10	98.60	21.30	2.00	99.10	111.00	0.00	100.70	110.00	101.00	0.00	104.80	
10	24.60	0.00	99.20	99.10	19.20	0.00	99.90	111.60	0.00	100.50	110.60	101.30	0.00	104.80	
11	26.80	0.00	99.30	99.60	25.10	0.00	101.20	109.80	0.00	100.60	110.40	101.50	0.00	104.90	
12	29.80	0.00	99.30	99.80	25.20	0.00	102.00	102.40	0.00	100.70	110.60	101.50	0.00	105.00	
13	31.00	0.00	99.40	99.80	33.10	0.00	102.70	101.20	0.00	102.60	110.70	101.60	0.00	105.30	
14	29.50	0.00	99.40	100.40	32.00	0.00	104.20	101.10	0.00	103.70	111.00	101.60	0.00	105.50	
15	26.80	0.00	99.50	100.60	30.40	0.00	104.40	102.00	0.00	104.60	111.70	101.80	0.00	105.70	
16	28.20	0.00	99.50	100.80	30.50	0.00	103.50	101.20	0.00	102.20	111.30	101.90	0.00	105.80	
17	28.40	0.00	99.60	101.00	25.00	0.00	104.20	101.00	0.00	101.70	111.00	101.80	0.00	105.70	
18	27.30	0.00	99.60	101.10	24.00	0.00	103.70	101.40	0.00	102.20	110.70	101.80	0.00	105.60	
19	28.00	0.00	99.60	100.80	25.50	0.00	103.90	100.60	0.00	103.40	110.90	101.80	0.00	105.50	
20	20.30	0.00	99.40	100.70	24.20	0.40	102.70	100.30	0.00	103.80	110.50	101.30	0.00	105.30	
21	20.00	0.00	99.60	0.00	19.20	18.00	99.60	100.80	0.00	103.90	110.30	101.20	0.00	105.00	
22	14.00	0.00	100.00	100.20	10.60	10.10	99.90	100.00	0.00	104.80	110.30	101.10	0.00	104.80	
23	13.70	0.00	100.00	100.10	10.60	10.10	98.90	99.70	0.00	102.20	110.20	101.10	0.00	104.60	
24	13.90	0.00	99.90	99.90	10.80	10.30	99.30	100.90	0.00	100.60	110.10	100.90	0.00	104.40	

25 AUG 2003

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

25 AUG 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.			
1	5.80	0.00	98.20	100.40	100.40	101.20	18.30	0.00	102.50	99.00	16.30	0.00	103.40	103.80	
2	5.70	0.00	98.30	100.20	100.30	100.80	18.30	0.00	102.50	99.00	16.30	0.00	103.10	103.80	
3	5.80	0.00	98.30	100.10	100.10	100.30	18.30	0.00	102.40	99.00	17.70	0.00	103.00	103.50	
4	5.80	0.00	98.30	99.90	99.90	100.00	18.30	0.00	102.60	98.90	16.40	0.00	102.90	103.40	
5	5.70	0.00	98.20	99.90	99.90	99.70	18.60	0.00	102.70	99.00	16.40	0.00	102.90	103.30	
6	6.10	0.00	98.20	99.80	99.80	99.30	18.30	0.00	102.50	99.00	16.50	0.00	102.70	103.00	
7	8.00	0.00	99.00	99.70	99.90	99.10	18.20	0.00	102.50	98.80	16.50	0.00	102.80	102.80	
8	8.20	0.00	99.10	99.90	100.40	99.50	27.40	0.00	102.80	99.20	20.00	0.00	103.00	102.80	
9	8.00	0.00	99.30	100.40	100.90	100.10	28.20	0.00	103.00	99.50	28.90	0.00	103.10	103.00	
10	8.10	0.00	99.60	100.90	101.70	101.00	31.40	0.00	103.40	99.60	30.70	0.00	103.30	103.20	
11	8.00	0.00	99.90	101.60	102.50	102.00	29.80	0.00	103.90	99.90	24.80	0.00	103.50	103.50	
12	8.10	0.00	100.10	102.40	103.30	103.00	30.00	0.00	104.40	100.00	25.30	0.00	103.60	103.60	
13	8.00	0.00	100.30	103.10	104.10	103.90	26.40	0.00	105.20	100.10	24.90	0.00	103.70	103.70	
14	8.10	0.00	100.40	103.90	104.60	104.90	25.00	0.00	105.70	100.30	26.10	0.00	103.90	103.80	
15	8.10	0.00	100.50	104.40	104.90	105.70	18.70	0.00	106.50	100.40	20.30	0.00	103.70	104.20	
16	8.00	0.00	100.50	104.70	105.00	106.30	18.50	0.00	106.90	100.30	19.70	0.00	103.70	104.20	
17	8.00	0.00	100.50	104.70	104.90	106.50	18.50	0.00	106.90	100.30	19.60	0.00	104.10	104.10	
18	8.00	0.00	100.40	104.30	104.60	106.30	19.40	0.00	107.30	100.20	14.70	0.00	105.20	103.90	
19	8.10	0.00	100.20	103.80	103.80	105.70	24.20	0.00	107.60	100.90	30.60	0.00	105.70	103.90	
20	7.90	0.00	100.00	103.10	103.10	104.90	32.60	0.00	107.30	101.20	36.60	0.00	106.70	104.10	
21	5.80	0.00	99.50	102.40	102.30	104.10	27.10	0.00	108.10	100.90	31.60	0.00	106.70	104.00	
22	5.70	0.00	99.20	102.10	101.90	103.40	27.30	0.00	107.80	100.60	29.20	0.00	106.10	103.80	
23	5.80	0.00	99.20	101.70	101.70	102.90	26.00	0.00	107.50	100.40	29.50	0.00	107.10	103.50	
24	5.70	0.00	99.20	101.50	101.40	102.30	18.80	0.00	106.90	100.20	19.40	0.00	105.90	103.20	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT
1	13.70	0.00	100.10	99.80	10.60	10.10	101.10	108.40	0.00	100.70	112.40	100.60	13.70	0.00	104.40
2	13.70	0.00	100.10	99.80	12.10	10.10	101.00	111.20	0.00	101.20	114.60	100.90	13.70	0.00	104.30
3	13.70	0.00	99.90	99.90	10.60	10.10	101.50	111.30	0.00	102.00	114.40	100.80	13.70	0.00	104.10
4	13.70	0.00	99.90	99.70	10.80	10.30	101.20	111.20	0.00	102.20	114.10	100.80	13.70	0.00	103.80
5	13.90	0.00	99.90	99.80	11.70	10.10	100.80	111.00	0.00	102.80	113.50	100.70	13.90	0.00	103.50
6	18.20	0.00	99.80	99.90	20.60	10.10	100.40	111.00	0.00	102.40	111.10	101.40	18.20	0.00	103.30
7	19.50	0.00	99.80	100.10	21.00	10.10	99.70	111.50	0.00	103.10	110.70	101.20	19.50	0.00	103.10
8	18.90	0.00	99.80	100.10	21.80	10.30	100.00	111.60	0.00	103.30	111.00	101.20	18.90	0.00	102.80
9	19.80	0.00	100.10	100.10	22.20	0.00	101.90	111.20	0.00	101.60	110.30	101.40	19.80	0.00	-999.00
10	30.50	0.00	100.30	100.70	21.20	0.10	102.70	111.80	0.00	104.80	112.10	101.40	30.50	0.00	-999.00
11	31.70	0.00	101.10	100.90	21.50	0.70	103.70	107.00	0.00	103.90	112.00	101.70	31.70	0.00	-999.00
12	32.00	0.00	101.10	101.40	21.50	0.00	103.80	102.80	0.00	107.00	112.10	102.00	32.00	0.00	103.70
13	30.00	0.00	100.90	101.80	24.10	1.40	103.00	102.80	0.00	106.00	110.80	102.20	30.00	0.00	104.20
14	26.50	0.00	101.00	102.30	20.90	0.00	104.80	102.30	0.00	109.90	113.50	102.50	26.50	0.00	104.80
15	26.50	0.00	101.00	102.70	24.10	0.00	106.80	103.20	0.00	110.20	113.70	102.60	26.50	0.00	105.40
16	22.90	0.00	101.10	103.00	19.70	0.00	106.90	102.40	0.00	108.80	115.70	103.00	22.90	0.00	105.50
17	20.00	0.00	102.50	103.60	19.70	0.00	107.10	102.10	0.00	107.50	117.20	103.20	20.00	0.00	105.60
18	15.40	0.00	102.30	103.40	21.40	0.00	106.90	101.90	0.00	106.90	114.20	103.20	15.40	0.00	105.70
19	27.30	0.00	102.50	103.10	33.60	0.00	108.00	101.70	0.00	104.20	115.30	103.10	27.30	0.00	105.60
20	36.80	0.00	102.50	102.90	35.90	2.20	106.40	101.60	0.00	105.60	114.90	103.00	36.80	0.00	105.70
21	39.10	0.00	102.30	102.60	37.90	35.40	100.90	101.10	0.00	106.40	117.80	102.80	39.10	0.00	105.70
22	39.20	0.00	103.10	102.40	36.10	35.50	99.80	110.70	0.00	108.50	119.60	102.50	39.20	0.00	105.50
23	29.20	0.00	102.80	102.30	30.70	28.70	99.90	114.10	0.00	108.80	118.00	102.40	29.20	0.00	105.40
24	17.30	0.00	102.50	101.90	24.00	23.50	99.50	114.00	0.00	108.20	120.90	102.30	17.30	0.00	105.10

26 AUG 2003

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

26 AUG 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB %SAT.	TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB %SAT.	TAILW.	
1	5.70	0.00	99.20	101.30	101.10	101.70	18.40	0.00	106.50	99.90	13.20	0.00	106.10	102.90	
2	5.70	0.00	99.20	101.10	100.90	101.30	18.50	0.00	106.00	99.70	12.90	0.00	105.80	102.60	
3	5.70	0.00	99.10	101.00	100.80	100.90	18.40	0.00	106.10	99.40	12.90	0.00	105.80	102.50	
4	5.70	0.00	99.10	101.00	100.70	100.40	18.40	0.00	105.50	99.40	12.90	0.00	105.80	102.20	
5	5.70	0.00	99.20	101.00	100.50	100.20	18.50	0.00	105.50	99.30	12.90	0.00	105.10	102.10	
6	6.00	0.00	99.10	100.80	100.30	99.70	18.40	0.00	105.30	99.20	13.20	0.00	105.00	101.90	
7	8.00	0.00	99.90	100.80	100.50	99.50	27.30	0.00	104.90	100.00	26.50	0.00	105.80	102.00	
8	8.00	0.00	100.00	100.70	100.70	99.80	38.30	0.00	105.30	100.20	29.30	0.00	105.20	102.50	
9	8.00	0.00	100.10	101.00	101.50	100.30	35.60	0.00	105.40	100.10	35.50	0.00	105.20	103.30	
10	8.00	0.00	100.30	101.40	102.30	101.10	36.50	0.00	105.70	100.30	43.10	0.00	104.20	102.90	
11	8.00	0.00	100.50	101.90	102.90	102.10	34.80	0.00	105.90	100.10	39.50	0.00	104.10	104.00	
12	8.00	0.00	100.70	102.50	103.60	103.20	33.80	0.00	105.00	100.20	36.90	0.00	101.80	102.70	
13	8.00	0.00	100.80	102.80	104.60	103.90	36.30	0.00	104.80	100.20	36.60	0.00	101.70	102.10	
14	8.00	0.00	100.70	103.10	105.00	104.50	33.80	0.00	104.80	100.10	36.60	0.00	102.50	101.70	
15	8.00	0.00	100.70	103.40	105.40	104.90	34.90	0.00	104.60	100.00	36.60	0.00	102.30	101.50	
16	8.00	0.00	100.80	103.30	105.20	105.30	34.60	0.00	105.00	99.90	36.60	0.00	102.10	101.30	
17	8.00	0.00	100.50	103.20	105.00	105.40	41.40	0.00	105.60	100.00	36.50	0.00	102.10	101.20	
18	8.10	0.00	100.30	103.10	104.30	105.10	34.60	0.00	104.80	100.00	32.30	0.00	101.30	101.00	
19	8.00	0.00	100.20	102.80	103.60	104.70	36.40	0.00	105.40	99.80	32.20	0.00	101.30	100.90	
20	8.00	0.00	100.20	102.50	102.80	104.00	36.70	0.00	104.70	100.10	34.20	0.00	102.10	100.70	
21	5.70	0.00	99.60	102.30	102.20	103.40	36.50	0.00	103.90	99.90	49.80	0.00	101.40	101.10	
22	5.80	0.00	99.30	102.20	101.90	103.10	38.40	0.00	103.40	99.70	48.20	0.00	101.90	100.70	
23	5.70	0.00	99.30	102.10	101.70	102.50	20.10	0.00	103.20	99.50	22.40	0.00	101.80	100.30	
24	5.80	0.00	99.30	101.90	101.40	102.10	14.60	0.00	103.20	99.00	14.80	0.00	101.50	100.20	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS FB %SAT.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB %SAT.	TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB %SAT.	WA TAILW.	TOTAL DISCH KCFS	SPILL OR KCFS	GAS FB %SAT.	SAT
1	14.10	0.00	101.50	101.80	10.50	98.40	113.70	137.60	0.00	107.80	117.80	102.20	0.00	104.80	
2	15.60	0.00	101.70	101.90	10.90	10.30	97.90	113.60	0.00	107.30	118.00	102.20	0.00	104.50	
3	14.20	0.00	101.80	102.00	10.90	10.30	98.10	113.70	0.00	103.30	117.80	102.30	0.00	104.40	
4	14.10	0.00	101.50	102.10	10.90	10.30	98.60	113.60	0.00	101.70	120.00	102.40	0.00	104.10	
5	14.10	0.00	101.70	101.70	12.70	10.50	98.50	112.30	0.00	101.30	121.90	102.40	0.00	104.00	
6	14.60	0.00	101.40	101.50	20.80	10.30	98.50	111.70	0.00	101.10	123.70	102.60	0.00	103.80	
7	15.80	0.00	101.20	101.50	20.90	10.30	98.70	111.70	0.00	101.00	119.20	102.40	0.00	103.50	
8	25.30	0.00	101.10	101.80	21.20	9.90	99.00	111.80	0.00	101.10	117.40	102.50	0.00	103.40	
9	26.90	0.00	101.00	102.10	24.00	3.10	100.70	111.20	0.00	102.20	118.20	102.50	0.00	103.30	
10	36.40	0.00	100.90	102.30	25.60	0.00	102.60	111.10	0.00	103.00	119.20	103.00	0.00	103.30	
11	46.40	0.00	101.20	102.30	32.90	0.00	102.30	104.00	0.00	103.20	107.60	103.20	0.00	103.60	
12	46.80	0.00	101.30	102.50	44.30	0.00	102.60	101.10	0.00	102.60	103.70	103.40	0.00	103.80	
13	47.90	0.00	101.30	102.80	48.60	0.00	100.80	101.60	0.00	105.40	103.70	103.40	0.00	103.30	
14	48.40	0.00	101.70	103.20	48.30	0.00	101.40	101.10	0.00	106.30	104.00	103.60	0.00	104.20	
15	43.30	0.00	101.50	103.00	44.10	0.00	101.00	100.90	0.00	107.40	104.10	103.70	0.00	104.80	
16	39.90	0.00	101.40	103.00	43.60	0.00	101.60	101.60	0.00	107.10	104.70	104.00	0.00	105.00	
17	40.90	0.00	101.30	103.70	43.70	0.00	101.20	100.80	0.00	106.70	104.60	104.00	0.00	105.20	
18	28.60	0.00	101.70	102.90	43.90	0.00	101.10	101.30	0.00	105.10	104.60	104.00	0.00	105.10	
19	28.60	0.00	101.70	102.70	53.00	0.00	102.60	100.60	0.00	106.20	104.90	104.00	0.00	104.80	
20	28.90	0.00	101.90	102.50	43.90	3.20	102.00	100.50	0.00	106.30	105.00	103.80	0.00	104.60	
21	48.00	0.00	101.80	102.60	45.90	44.60	101.30	100.30	0.00	106.20	104.70	103.80	0.00	104.20	
22	48.60	0.00	101.70	102.20	44.20	43.70	101.20	112.90	0.00	105.10	104.70	103.70	0.00	103.70	
23	41.60	0.00	101.40	101.90	44.50	43.90	100.20	114.50	0.00	105.00	104.70	103.80	0.00	103.40	
24	25.80	0.00	101.50	101.70	37.00	36.40	100.70	114.70	0.00	104.70	104.50	103.70	0.00	103.20	

27 AUG 2003

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

27 AUG 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	LITTLE GOOSE	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.		
1	5.70	0.00	99.30	101.70	101.20	101.80	13.10	0.00	103.00	98.70	13.60	0.00	101.00	100.00	
2	5.80	0.00	99.30	101.60	101.00	101.40	13.00	0.00	102.40	98.40	13.60	0.00	100.60	99.70	
3	5.70	0.00	99.20	101.40	100.80	101.10	18.40	0.00	102.60	98.50	14.90	0.00	100.20	99.50	
4	5.80	0.00	99.20	101.00	100.70	100.60	23.00	0.00	102.30	98.40	13.60	0.00	100.50	99.40	
5	5.70	0.00	99.10	100.70	100.60	100.20	36.50	0.00	102.00	98.90	13.90	0.00	100.60	99.30	
6	5.80	0.00	99.00	100.30	100.60	99.90	36.80	0.00	101.60	98.80	27.50	0.00	99.30	99.50	
7	8.20	0.00	99.60	100.10	100.40	99.60	37.80	0.00	101.10	98.70	34.40	0.00	99.10	99.40	
8	8.00	0.00	99.90	99.90	101.00	99.90	37.40	0.00	101.10	98.50	34.80	0.00	99.00	99.20	
9	8.20	0.00	99.80	100.30	101.40	100.50	37.30	0.00	100.90	98.50	34.70	0.00	98.80	99.20	
10	8.00	0.00	100.10	100.80	102.20	101.30	37.20	0.00	100.50	98.50	34.60	0.00	98.80	99.20	
11	8.20	0.00	100.30	101.40	102.90	102.10	34.80	0.00	101.80	98.60	34.70	0.00	99.10	99.20	
12	8.00	0.00	100.40	102.00	103.70	103.10	31.60	0.00	101.10	98.60	34.70	0.00	99.30	99.40	
13	8.20	0.00	100.60	102.60	104.10	104.10	29.40	0.00	100.80	98.50	33.90	0.00	100.40	99.60	
14	8.00	0.00	100.60	103.10	104.60	104.70	27.60	0.00	101.30	98.70	33.90	0.00	100.00	99.60	
15	8.20	0.00	100.60	103.50	104.90	105.40	25.90	0.00	101.00	98.40	28.60	0.00	100.20	99.60	
16	8.00	0.00	100.70	103.80	104.90	105.80	26.80	0.00	101.10	98.50	29.70	0.00	100.10	99.70	
17	8.20	0.00	100.40	103.50	104.80	105.80	26.50	0.00	101.10	98.50	31.60	0.00	99.90	99.50	
18	8.20	0.00	100.20	102.90	104.30	105.60	27.30	0.00	101.00	98.50	32.50	0.00	100.40	99.60	
19	8.10	0.00	100.00	102.40	103.30	104.90	27.50	0.00	101.10	98.60	35.20	0.00	100.40	99.60	
20	8.20	0.00	99.90	101.60	102.40	104.10	31.40	0.00	101.40	98.80	50.40	0.00	100.70	100.60	
21	7.90	0.00	99.70	101.00	101.60	103.40	31.60	0.00	101.30	98.60	51.00	0.00	100.70	99.70	
22	5.90	0.00	99.10	100.40	101.20	102.80	31.10	0.00	101.40	98.50	50.00	0.00	100.90	99.50	
23	5.70	0.00	98.90	100.10	100.90	102.20	26.20	0.00	101.60	98.40	26.30	0.00	100.80	99.40	
24	5.80	0.00	98.80	99.90	100.80	101.60	26.00	0.00	101.60	98.40	14.20	0.00	101.10	99.30	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	PASCO	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.		
1	15.70	0.00	101.30	102.00	17.90	17.30	100.40	114.70	0.00	104.90	104.20	103.50	0.00	103.10	
2	13.60	0.00	101.40	101.70	15.30	14.70	99.90	114.50	0.00	104.70	104.30	103.30	0.00	103.00	
3	13.60	0.00	101.40	101.60	12.30	10.20	99.10	114.20	0.00	104.00	104.10	103.30	0.00	102.90	
4	13.70	0.00	101.30	101.40	12.30	10.20	99.50	113.50	0.00	103.80	104.20	103.10	0.00	102.80	
5	13.90	0.00	101.10	101.20	11.20	10.40	99.40	111.70	0.00	104.00	104.30	103.10	0.00	102.70	
6	14.40	0.00	101.10	101.10	19.50	10.20	98.80	111.10	0.00	103.90	104.30	103.00	0.00	102.70	
7	28.20	0.00	101.10	101.10	19.50	10.20	98.00	111.70	0.00	103.10	104.10	103.10	0.00	102.60	
8	36.10	0.00	101.10	101.40	19.70	9.40	97.90	111.70	0.00	104.30	104.10	103.20	0.00	102.50	
9	34.80	0.00	100.90	101.30	28.10	0.00	100.60	111.60	0.00	104.00	104.20	103.20	0.00	102.50	
10	35.10	0.00	101.10	101.40	29.40	0.00	101.10	110.80	0.00	104.10	104.40	103.60	0.00	102.60	
11	35.10	0.00	101.20	101.60	29.60	0.00	101.50	103.10	0.00	104.60	104.60	103.80	0.00	102.90	
12	34.70	0.00	101.40	101.90	29.80	0.00	101.60	102.20	0.00	106.20	104.80	104.00	0.00	103.30	
13	34.60	0.00	101.40	102.20	28.50	0.00	101.40	101.30	0.00	106.70	104.70	104.10	0.00	103.70	
14	35.20	0.00	101.80	103.40	27.80	0.00	102.40	101.10	0.00	106.40	104.60	104.40	0.00	103.90	
15	30.80	0.00	102.40	103.20	28.90	0.00	101.90	101.70	0.00	107.60	104.80	104.60	0.00	104.00	
16	32.40	0.00	102.50	102.90	39.70	0.00	104.10	100.90	0.00	107.80	105.10	104.60	0.00	104.00	
17	34.30	0.00	103.00	103.40	40.90	0.00	105.10	100.90	0.00	107.60	105.20	104.50	0.00	104.10	
18	34.70	0.00	102.80	103.40	42.90	0.00	106.10	100.70	0.00	107.30	105.20	104.60	0.00	104.00	
19	35.30	0.00	103.50	103.30	43.20	0.00	104.60	100.30	0.00	107.50	105.10	104.40	0.00	104.20	
20	50.00	0.00	104.30	103.00	43.50	1.10	105.50	100.50	0.00	107.10	105.00	104.10	0.00	104.00	
21	60.20	0.00	102.80	103.00	46.30	43.60	101.30	100.20	0.00	118.80	0.00	107.30	104.70	103.70	
22	65.20	0.00	102.50	102.60	47.50	45.40	100.90	113.90	0.00	117.00	0.00	106.70	104.60	103.70	
23	46.60	0.00	103.30	102.60	45.30	44.70	101.20	114.70	0.00	105.90	104.60	103.60	0.00	103.60	
24	28.60	0.00	103.70	102.60	45.40	44.80	101.30	114.50	0.00	103.80	104.70	103.70	0.00	103.50	

28 AUG 2003

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

28 AUG 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.			
1	5.70	0.00	98.70	: 99.80	100.40	101.20	: 26.40	0.00	101.70	112.30	: 13.70	0.00	101.10	99.30	
2	5.80	0.00	98.60	: 99.90	100.20	100.70	: 19.40	0.00	101.70	109.90	: 13.60	0.00	101.00	99.30	
3	5.70	0.00	98.60	: 99.90	100.10	100.30	: 19.10	0.00	101.50	121.30	: 13.60	0.00	100.90	99.30	
4	5.80	0.00	98.60	: 99.70	100.00	99.90	: 19.30	0.00	101.50	123.60	: 13.60	0.00	100.80	99.10	
5	5.70	0.00	98.60	: 99.70	99.80	99.60	: 23.10	0.00	101.70	131.30	: 13.80	0.00	100.80	99.00	
6	5.80	0.00	98.50	: 99.50	99.80	99.20	: 25.50	0.00	101.70	127.10	: 21.70	0.00	100.90	99.30	
7	8.00	0.00	99.10	: 99.40	99.70	99.10	: 25.70	0.00	101.50	124.00	: 20.50	0.00	100.70	99.40	
8	8.20	0.00	99.20	: 99.50	100.00	99.30	: 27.50	0.00	101.50	123.10	: 20.70	0.00	100.80	99.60	
9	8.20	0.00	99.40	: 100.00	100.60	100.00	: 6.80	5.90	101.50	116.00	: 20.70	0.00	100.90	99.90	
10	8.10	0.00	99.50	: 100.50	101.50	100.80	: 11.20	5.90	102.10	117.40	: 20.70	0.00	101.50	100.00	
11	8.20	0.00	99.90	: 101.30	102.30	101.80	: 11.30	6.00	102.90	118.90	: 20.80	0.00	102.50	0.00	
12	8.00	0.00	100.00	: 101.90	102.90	102.80	: 12.40	7.10	103.70	119.60	: 20.80	0.00	101.60	100.80	
13	8.20	0.00	100.20	: 102.60	103.60	103.80	: 13.30	8.00	104.20	119.10	: 22.10	0.00	102.60	100.90	
14	8.00	0.00	100.30	: 103.20	103.90	104.60	: 13.30	8.00	104.90	0.00	: 19.00	0.00	102.90	101.00	
15	8.20	0.00	100.20	: 103.70	104.40	105.30	: 13.30	8.00	106.60	117.00	: 19.00	0.00	103.50	101.40	
16	8.20	0.00	100.30	: 103.90	104.60	105.60	: 13.30	8.00	106.30	116.10	: 19.00	0.00	103.30	101.30	
17	8.10	0.00	100.20	: 103.90	104.30	105.80	: 13.30	8.00	106.20	116.30	: 18.10	0.00	104.60	101.30	
18	8.20	0.00	100.00	: 103.40	104.00	105.50	: 13.30	8.00	106.40	115.40	: 14.90	0.00	103.60	101.20	
19	8.10	0.00	99.70	: 102.80	103.10	104.90	: 13.30	8.00	106.30	115.20	: 18.80	0.00	104.10	101.00	
20	8.20	0.00	99.60	: 102.00	102.30	104.00	: 13.30	8.00	106.10	115.00	: 13.60	0.00	104.50	100.80	
21	5.80	0.00	99.10	: 101.40	101.60	103.30	: 13.30	8.00	105.80	115.00	: 13.40	0.00	103.60	100.60	
22	5.80	0.00	98.80	: 100.90	101.20	102.70	: 13.30	8.00	106.10	114.60	: 13.30	0.00	103.20	100.50	
23	5.70	0.00	98.70	: 100.50	100.90	102.10	: 14.30	9.00	106.10	114.40	: 13.30	0.00	102.70	100.30	
24	5.80	0.00	98.60	: 100.20	100.60	101.70	: 15.40	10.10	105.90	114.50	: 13.40	0.00	102.50	100.30	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. WA FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB	TOTAL DISCH. KCFS	SPILL KCFS	
1	16.40	0.00	103.20	102.60	: 35.60	35.00	101.50	114.50	: 71.00	0.00	105.00	104.50	103.50	: 103.30	
2	13.60	0.00	103.00	102.50	: 20.40	20.40	101.50	114.60	: 72.20	0.00	105.30	104.60	103.50	: 103.20	
3	15.30	0.00	103.30	102.60	: 15.90	15.40	101.40	114.10	: 72.40	0.00	104.40	105.20	103.30	: 103.00	
4	13.80	0.00	102.50	102.80	: 13.00	11.00	101.30	113.20	: 67.10	0.00	103.90	105.00	103.00	: 102.70	
5	13.70	0.00	102.70	102.30	: 10.00	10.00	101.30	112.50	: 61.50	0.00	103.50	104.90	102.80	: 102.40	
6	13.70	0.00	102.40	102.10	: 11.80	10.00	101.30	111.20	: 108.90	0.00	103.90	104.50	102.90	: 102.30	
7	14.20	0.00	102.40	102.10	: 19.40	10.10	100.50	111.00	: 138.00	0.00	102.80	104.30	103.00	: 101.90	
8	15.90	0.00	102.50	102.10	: 19.50	10.20	100.10	111.10	: 143.50	0.00	103.10	104.20	103.00	: 101.70	
9	18.80	0.00	102.70	102.40	: 10.60	0.60	100.70	111.10	: 149.00	0.00	103.10	104.10	103.00	: 101.90	
10	19.60	0.00	103.10	104.20	: 23.60	0.00	102.60	111.30	: 142.30	0.00	103.90	104.10	103.10	: 102.00	
11	20.30	0.00	103.90	103.40	: 20.20	0.00	103.70	110.20	: 142.40	0.00	105.50	104.20	103.20	: 102.50	
12	27.30	0.00	102.50	104.00	: 19.80	0.00	103.50	104.70	: 139.30	0.00	106.20	104.50	103.40	: 102.80	
13	29.50	0.00	102.60	103.90	: 21.20	0.00	104.10	103.60	: 143.20	0.00	106.70	104.40	103.60	: 103.40	
14	26.60	0.00	103.60	104.20	: 20.00	0.00	104.50	102.40	: 137.30	0.00	103.80	104.80	103.90	: 103.80	
15	26.70	0.00	105.10	104.60	: 19.70	0.00	103.70	102.40	: 126.90	0.00	102.90	104.60	104.00	: 103.80	
16	28.40	0.00	106.00	104.90	: 20.10	0.00	104.00	103.20	: 124.70	0.00	103.70	108.00	103.80	: 103.80	
17	20.50	0.00	105.90	104.60	: 19.50	0.00	103.40	102.00	: 121.40	0.00	102.70	107.90	103.60	: 103.70	
18	14.50	0.00	105.00	104.50	: 19.90	0.00	101.50	102.00	: 113.10	0.00	104.70	107.80	103.50	: 103.60	
19	13.90	0.00	104.00	104.40	: 21.10	0.00	101.00	101.40	: 112.30	0.00	107.70	107.30	103.50	: 103.40	
20	13.70	0.00	103.90	103.80	: 10.60	0.00	100.30	100.80	: 116.50	0.00	108.50	106.70	103.10	: 103.30	
21	13.70	0.00	103.70	103.30	: 10.00	9.40	99.80	100.50	: 117.60	0.00	108.10	106.70	102.80	: 103.30	
22	13.90	0.00	103.60	103.10	: 10.60	10.00	99.20	100.20	: 99.40	0.00	107.50	105.50	102.60	: 103.10	
23	15.30	0.00	104.20	102.80	: 10.80	10.20	98.60	101.50	: 67.40	0.00	107.60	105.40	102.30	: 103.00	
24	14.00	0.00	103.50	103.20	: 10.60	10.10	98.50	100.70	: 59.90	0.00	106.60	105.30	102.30	: 102.90	

29 AUG 2003

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

29 AUG 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.			
1	5.70	0.00	98.60	100.10	100.40	101.10	15.40	10.10	106.20	113.60	13.40	0.00	102.30	100.10	
2	5.80	0.00	98.50	99.90	100.10	100.70	21.40	16.10	106.00	113.60	13.40	0.00	102.50	99.90	
3	5.80	0.00	98.60	99.90	99.90	100.20	21.40	16.10	105.60	113.90	14.80	0.00	103.30	100.10	
4	5.80	0.00	98.50	99.70	99.80	99.90	21.40	16.10	105.30	114.10	13.40	0.00	104.70	100.00	
5	5.80	0.00	98.50	99.60	99.70	99.50	21.40	16.10	104.90	113.80	13.50	0.00	103.30	100.10	
6	5.90	0.00	98.50	99.40	99.50	99.10	21.40	16.10	104.80	114.10	13.40	0.00	104.10	99.90	
7	8.20	0.00	99.20	99.20	99.60	98.90	23.10	16.10	103.70	113.80	15.50	0.00	104.10	99.80	
8	8.10	0.00	99.40	99.20	99.80	99.20	21.40	16.10	104.00	114.10	15.50	0.00	104.10	99.90	
9	8.20	0.00	99.40	99.70	100.60	99.80	23.80	10.60	104.30	114.00	15.50	0.00	104.40	100.00	
10	8.00	0.00	99.70	100.40	101.30	100.60	17.00	0.00	103.90	106.10	15.40	0.00	104.20	100.20	
11	8.20	0.00	99.90	101.20	102.10	101.60	16.60	0.00	104.10	103.00	15.40	0.00	103.30	100.50	
12	8.00	0.00	100.20	101.90	102.80	102.70	16.70	0.00	104.10	102.00	15.50	0.00	105.00	100.70	
13	8.20	0.00	100.30	102.50	103.40	103.60	16.60	0.00	104.60	101.80	15.50	0.00	106.60	100.90	
14	8.20	0.00	100.30	103.00	103.90	104.40	16.50	0.00	105.00	101.50	15.40	0.00	106.20	100.80	
15	8.10	0.00	100.40	103.40	104.30	105.00	16.60	0.00	104.80	101.20	15.40	0.00	106.70	101.00	
16	8.20	0.00	100.30	103.80	104.50	105.50	29.20	0.00	105.20	102.60	15.40	0.00	106.60	100.80	
17	8.00	0.00	100.10	103.70	104.20	105.50	34.20	0.00	105.10	101.60	15.40	0.00	104.60	100.60	
18	8.20	0.00	100.00	103.20	103.80	105.20	35.80	0.00	106.70	101.60	15.60	0.00	103.40	100.60	
19	8.10	0.00	99.70	102.70	103.00	104.70	35.90	0.00	107.20	101.30	28.50	0.00	103.30	100.30	
20	8.10	0.00	99.60	102.00	102.10	103.80	34.20	0.00	105.70	101.00	29.60	0.00	103.10	100.40	
21	5.90	0.00	99.20	101.50	101.50	103.10	35.90	0.00	103.60	100.60	48.80	0.00	103.50	101.00	
22	5.80	0.00	98.70	101.00	101.00	102.60	34.30	0.00	103.40	100.60	59.20	0.00	103.00	100.70	
23	5.90	0.00	98.60	100.60	100.90	102.10	34.10	0.00	103.40	100.60	53.80	0.00	102.60	100.70	
24	5.70	0.00	98.60	100.30	100.60	101.50	29.00	0.00	103.10	100.30	31.50	0.00	103.40	100.70	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT
1	15.30	0.00	104.00	102.70	12.10	10.10	98.30	107.40	60.30	0.00	106.30	105.30	102.40	0.00	102.80
2	13.80	0.00	105.50	103.00	10.60	10.10	99.30	110.30	60.60	0.00	106.20	105.30	102.30	0.00	102.70
3	13.80	0.00	105.00	103.10	10.80	10.20	99.10	110.80	77.00	0.00	105.30	105.20	102.10	0.00	102.50
4	14.10	0.00	104.70	102.50	10.60	10.10	98.90	110.70	124.80	0.00	104.40	105.00	102.10	0.00	102.20
5	13.90	0.00	104.70	102.20	10.60	10.10	99.00	110.70	143.10	0.00	102.00	104.40	102.30	0.00	101.80
6	13.50	0.00	104.30	102.00	18.40	10.40	99.40	110.40	149.50	0.00	101.90	104.20	102.50	0.00	101.60
7	13.50	0.00	102.80	101.90	19.20	10.10	99.30	110.80	147.80	0.00	102.00	103.60	102.20	0.00	101.20
8	13.10	0.00	103.40	101.80	18.80	9.70	99.60	111.30	153.30	0.00	101.60	103.70	102.10	0.00	101.20
9	14.20	0.00	103.80	102.10	15.60	0.30	100.30	111.10	149.30	0.00	101.70	103.50	102.10	0.00	101.40
10	15.50	0.00	104.00	102.60	12.80	0.00	100.80	111.40	149.60	0.00	102.20	103.10	102.20	0.00	101.80
11	14.00	0.00	104.20	0.00	12.60	0.00	100.90	111.80	150.60	0.00	102.50	102.90	102.10	0.00	102.00
12	14.00	0.00	104.50	103.40	12.70	0.00	100.00	108.00	149.60	0.00	102.90	102.60	102.20	0.00	102.60
13	15.50	0.00	104.00	103.80	14.20	0.00	100.20	103.30	138.20	0.00	104.40	102.60	102.30	0.00	103.20
14	14.20	0.00	103.70	105.10	12.80	0.00	100.40	102.80	135.40	0.00	102.30	102.50	102.30	0.00	103.40
15	14.00	0.00	104.20	104.50	12.60	0.00	99.80	102.90	136.50	0.00	102.00	103.00	102.40	0.00	103.60
16	14.10	0.00	104.90	104.20	13.30	0.00	101.10	103.40	109.20	0.00	102.60	106.20	102.50	0.00	103.60
17	14.10	0.00	106.00	104.20	13.00	0.00	101.20	102.60	99.00	0.00	101.90	107.30	102.40	0.00	103.80
18	15.60	0.00	106.50	104.20	12.50	0.00	100.60	101.80	99.50	0.00	101.60	107.60	102.50	0.00	103.80
19	14.30	0.00	106.80	104.80	14.20	0.00	99.90	101.50	81.30	0.00	102.10	106.50	102.20	0.00	103.80
20	15.40	0.00	107.10	103.50	14.90	2.70	99.40	101.70	77.70	0.00	103.90	106.50	102.00	0.00	103.80
21	47.80	0.00	109.10	103.40	33.50	32.80	99.50	100.80	81.30	0.00	106.00	106.50	101.80	0.00	103.60
22	60.80	0.00	107.40	103.40	34.00	33.50	99.20	109.30	102.80	0.00	105.20	105.80	101.60	0.00	103.60
23	55.20	0.00	104.20	103.10	43.40	42.90	99.30	113.60	75.40	0.00	104.20	104.70	101.60	0.00	103.40
24	47.70	0.00	105.20	102.90	54.40	53.90	99.50	114.20	57.60	0.00	104.80	104.70	101.50	0.00	103.30

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**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

30 AUG 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	LOWER GRANITE	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.		
1	5.90	0.00	98.60	100.10	100.30	101.10	31.20	0.00	103.10	100.20	31.80	0.00	103.80	100.60	
2	5.80	0.00	98.60	99.90	100.20	100.70	33.70	0.00	102.90	100.50	34.10	0.00	102.70	100.30	
3	5.90	0.00	98.50	99.80	100.00	100.30	33.70	0.00	102.80	100.30	30.90	0.00	102.40	100.10	
4	5.80	0.00	98.50	99.60	99.80	100.00	34.00	0.00	102.80	100.30	29.90	0.00	102.80	100.00	
5	5.90	0.00	98.50	99.60	99.70	99.50	34.20	0.00	102.60	100.30	30.50	0.00	101.70	99.80	
6	5.80	0.00	98.40	99.50	99.60	99.20	34.40	0.00	102.60	100.20	31.70	0.00	101.40	99.80	
7	7.70	0.00	99.00	99.40	99.60	99.00	34.40	0.00	102.80	100.20	29.70	0.00	101.40	99.80	
8	8.10	0.00	99.20	99.30	99.90	99.20	34.50	0.00	102.80	100.30	30.20	0.00	102.00	99.90	
9	8.20	0.00	99.30	99.70	100.50	99.90	34.60	0.00	102.40	100.30	34.90	0.00	102.40	100.00	
10	8.10	0.00	99.60	100.30	101.40	100.80	35.10	0.00	102.60	100.30	36.20	0.00	102.60	100.30	
11	8.20	0.00	99.80	101.00	102.00	101.80	36.10	0.00	103.70	100.50	34.70	0.00	103.00	100.40	
12	8.30	0.00	100.10	101.60	102.80	102.80	34.40	0.00	104.80	100.80	34.80	0.00	103.10	100.70	
13	8.10	0.00	100.30	102.40	103.40	103.70	36.20	0.00	106.40	100.90	36.20	0.00	103.60	100.90	
14	8.20	0.00	100.40	103.10	103.90	104.60	34.60	0.00	106.40	101.20	34.80	0.00	104.10	100.90	
15	8.10	0.00	100.30	103.50	104.30	105.20	34.50	0.00	107.20	101.30	34.80	0.00	103.80	101.00	
16	8.20	0.00	100.20	103.90	104.30	105.50	28.60	0.00	107.20	101.40	36.30	0.00	103.20	100.90	
17	8.10	0.00	100.10	103.80	104.10	105.70	27.90	0.00	107.40	101.00	32.40	0.00	103.20	101.20	
18	8.30	0.00	100.10	103.50	103.80	105.30	29.00	0.00	108.00	100.80	31.40	0.00	103.20	101.00	
19	8.10	0.00	99.80	102.90	103.10	104.80	21.90	0.00	107.90	100.80	31.40	0.00	103.20	100.80	
20	8.20	0.00	99.70	102.30	102.20	104.00	17.50	0.00	106.80	101.00	27.30	0.00	103.40	100.60	
21	6.00	0.00	100.00	101.70	101.60	103.30	17.50	0.00	107.10	100.40	26.90	0.00	104.10	100.20	
22	5.90	0.00	99.00	101.30	101.10	102.70	17.50	0.00	107.50	100.20	26.90	0.00	104.70	99.90	
23	5.80	0.00	98.80	100.80	101.10	102.10	16.10	0.00	107.40	100.10	14.40	0.00	104.00	99.60	
24	5.90	0.00	98.80	100.50	100.90	101.60	16.60	0.00	108.10	99.90	14.40	0.00	103.50	99.50	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	MCNARY	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	PASCO	
1	32.30	0.00	103.60	102.80	54.50	54.00	100.00	116.00	0.00	104.20	104.80	101.50	0.00	103.10	
2	32.40	0.00	104.90	102.60	50.60	50.10	100.00	116.00	0.00	102.20	104.70	101.50	0.00	103.00	
3	31.50	0.00	105.20	102.20	34.20	33.70	99.90	116.10	0.00	103.10	104.50	101.70	0.00	102.70	
4	32.00	0.00	105.60	102.60	34.30	33.80	100.00	114.80	0.00	102.30	104.30	101.80	0.00	102.60	
5	30.70	0.00	106.00	101.80	32.50	31.00	99.40	113.80	0.00	101.80	104.10	101.60	0.00	102.30	
6	32.10	0.00	106.00	101.50	25.00	15.50	99.10	113.80	0.00	101.50	103.80	101.60	0.00	102.10	
7	30.90	0.00	105.70	101.30	24.80	15.20	97.70	113.60	0.00	101.50	103.60	101.40	0.00	101.90	
8	31.80	0.00	105.30	101.20	24.70	14.00	98.20	112.10	0.00	101.00	102.90	101.40	0.00	101.90	
9	39.90	0.00	104.10	101.40	38.10	0.00	101.60	112.10	0.00	101.10	102.80	101.50	0.00	101.80	
10	40.20	0.00	105.90	101.70	46.80	0.00	103.30	103.70	0.00	100.80	103.20	101.70	0.00	102.10	
11	40.80	0.00	106.30	102.30	45.40	0.00	104.00	101.20	0.00	100.60	103.20	102.10	0.00	102.50	
12	35.10	0.00	106.10	102.80	45.10	0.00	103.00	101.00	0.00	104.60	103.30	102.30	0.00	102.90	
13	36.30	0.00	106.20	103.10	39.30	0.00	102.20	100.70	0.00	106.00	103.50	102.70	0.00	103.50	
14	35.40	0.00	105.80	103.00	36.30	0.00	101.50	100.90	0.00	106.80	103.50	103.10	0.00	104.10	
15	34.90	0.00	105.70	103.10	36.20	0.00	100.50	101.00	0.00	107.70	103.50	103.20	0.00	104.10	
16	39.10	0.00	105.80	103.10	39.80	0.00	101.10	101.00	0.00	108.20	103.60	103.30	0.00	104.20	
17	38.80	0.00	104.60	103.10	36.10	0.00	101.50	101.30	0.00	108.10	103.40	103.10	0.00	104.10	
18	32.60	0.00	105.70	103.40	30.80	0.00	105.10	101.60	0.00	102.00	109.20	103.10	0.00	104.00	
19	31.10	0.00	105.60	102.80	32.30	0.00	106.60	100.90	0.00	101.90	107.80	103.10	0.00	103.90	
20	28.70	0.00	106.00	102.20	43.10	1.50	108.30	100.80	0.00	102.70	108.40	103.10	0.00	104.00	
21	34.50	0.00	105.40	101.90	25.30	23.70	103.00	100.90	0.00	101.10	107.80	103.20	0.00	104.00	
22	40.70	0.00	104.20	101.70	24.30	23.70	101.90	101.20	0.00	100.80	107.60	103.10	0.00	104.00	
23	20.90	0.00	104.00	102.70	24.30	23.80	101.40	111.80	0.00	106.70	106.60	102.80	0.00	103.90	
24	16.20	0.00	103.70	101.90	20.20	19.70	100.70	113.30	0.00	106.50	105.80	102.50	0.00	103.80	

31 AUG 2003

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

31 AUG 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	LOWER GRANITE	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.		
1	5.80	0.00	98.80	100.40	100.50	101.20	16.80	0.00	107.50	99.90	14.40	0.00	102.90	99.30	
2	5.90	0.00	98.80	100.30	100.40	100.80	16.70	0.00	107.20	99.90	14.30	0.00	103.90	99.20	
3	5.80	0.00	98.60	100.10	100.00	100.30	17.20	0.00	107.20	99.70	14.40	0.00	103.80	99.00	
4	5.90	0.00	98.70	99.90	100.00	99.90	16.90	0.00	107.30	99.60	14.80	0.00	104.50	99.00	
5	5.80	0.00	98.70	99.70	99.90	99.60	16.90	0.00	107.20	99.40	16.20	0.00	104.50	98.90	
6	5.90	0.00	98.70	99.60	99.60	99.30	16.90	0.00	106.90	99.30	16.00	0.00	104.30	98.80	
7	7.60	0.00	99.30	99.50	99.80	99.10	15.00	0.00	106.60	99.20	16.10	0.00	102.70	98.80	
8	8.20	0.00	99.40	99.50	100.00	99.30	28.00	0.00	106.70	101.00	15.50	0.00	103.50	98.90	
9	8.10	0.00	99.50	99.90	100.60	99.90	28.00	0.00	106.60	99.90	15.00	0.00	102.10	99.20	
10	8.20	0.00	99.90	100.30	101.50	100.80	31.90	0.00	106.60	100.40	17.00	0.00	103.90	99.30	
11	8.10	0.00	100.10	101.00	102.30	101.70	28.60	0.00	106.60	100.80	16.60	0.00	105.20	99.50	
12	8.20	0.00	100.40	101.60	103.00	102.80	17.90	0.00	107.00	102.40	16.50	0.00	105.30	99.90	
13	8.20	0.00	100.40	102.20	103.50	103.60	19.30	0.00	107.20	100.70	17.90	0.00	106.80	100.10	
14	8.10	0.00	100.50	102.90	104.00	104.40	17.60	0.00	107.70	100.80	16.60	0.00	108.50	100.10	
15	8.20	0.00	100.60	103.20	104.50	105.10	17.40	0.00	107.90	100.40	16.50	0.00	107.50	100.40	
16	8.10	0.00	100.60	103.50	104.60	105.40	19.10	0.00	107.70	100.30	18.00	0.00	107.40	100.50	
17	8.30	0.00	100.50	103.50	104.30	105.60	17.40	0.00	107.60	100.50	16.60	0.00	106.40	100.50	
18	8.10	0.00	100.40	103.30	104.00	105.40	17.30	0.00	107.60	100.30	16.60	0.00	105.20	100.40	
19	8.30	0.00	100.20	102.70	103.30	104.70	17.40	0.00	107.80	99.90	18.00	0.00	104.40	100.10	
20	8.10	0.00	100.10	102.20	102.40	103.90	18.60	0.00	107.60	99.80	17.20	0.00	106.80	99.80	
21	6.30	0.00	99.60	101.60	101.70	103.20	28.80	0.00	107.30	100.70	27.00	0.00	105.60	99.80	
22	5.80	0.00	99.00	101.10	101.30	102.60	27.20	0.00	107.30	100.20	27.10	0.00	108.30	99.60	
23	5.90	0.00	98.90	100.80	101.00	102.00	27.40	0.00	107.00	100.00	27.10	0.00	104.30	99.50	
24	5.80	0.00	98.90	100.50	100.70	101.60	26.50	0.00	106.80	99.90	26.40	0.00	104.00	99.10	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	MCNARY	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	PASCO	
1	15.70	0.00	103.70	101.00	10.80	10.20	99.80	113.40	0.00	105.70	106.00	102.40	0.00	103.60	
2	15.60	0.00	103.90	100.40	10.80	10.20	99.40	113.40	0.00	105.40	105.60	102.40	0.00	103.50	
3	15.60	0.00	105.10	100.20	10.80	10.20	98.70	113.10	0.00	105.50	104.60	102.30	0.00	103.50	
4	16.50	0.00	104.90	99.80	11.00	10.40	97.90	112.90	0.00	104.10	104.90	102.50	0.00	103.50	
5	17.20	0.00	105.30	99.80	10.80	10.20	97.40	111.90	0.00	102.60	105.10	102.40	0.00	103.60	
6	16.60	0.00	105.90	99.70	19.10	10.30	100.30	111.70	0.00	101.70	104.80	102.40	0.00	103.70	
7	16.70	0.00	104.50	99.60	20.00	10.30	101.50	111.20	0.00	103.00	104.60	102.10	0.00	103.70	
8	14.10	0.00	103.60	99.70	18.80	9.00	101.80	111.50	0.00	102.80	104.40	102.20	0.00	103.90	
9	13.90	0.00	103.40	99.90	19.50	0.00	102.10	111.00	0.00	103.60	104.50	102.30	0.00	104.10	
10	14.40	0.00	103.40	100.10	19.70	0.00	102.60	111.20	0.00	104.70	104.40	102.50	0.00	104.50	
11	16.60	0.00	103.40	101.20	19.90	0.00	103.30	106.90	0.00	105.60	104.10	102.50	0.00	105.00	
12	14.00	0.00	104.50	101.30	13.30	0.00	102.80	103.10	0.00	106.20	103.30	102.70	0.00	105.40	
13	14.00	0.00	105.30	101.50	14.30	0.00	102.40	103.00	0.00	106.70	103.50	102.90	0.00	106.00	
14	15.70	0.00	105.20	101.70	12.90	0.00	101.60	103.20	0.00	107.10	103.60	103.10	0.00	106.50	
15	13.80	0.00	105.20	102.20	13.00	0.00	101.80	103.50	0.00	107.50	103.40	103.20	0.00	106.40	
16	15.10	0.00	105.50	102.20	14.30	0.00	102.90	104.10	0.00	108.00	103.30	103.60	0.00	106.30	
17	13.50	0.00	106.00	102.20	12.90	0.00	103.80	104.40	0.00	107.90	103.30	103.80	0.00	106.10	
18	13.70	0.00	106.00	101.80	12.80	0.00	103.80	103.50	0.00	108.20	103.80	103.60	0.00	105.70	
19	14.00	0.00	106.30	101.40	14.50	0.00	104.10	103.40	0.00	109.00	103.70	103.50	0.00	105.50	
20	14.20	0.00	106.90	100.80	15.00	3.80	103.80	103.40	0.00	109.20	103.50	103.30	0.00	105.30	
21	27.50	0.00	105.30	100.50	27.50	26.90	102.30	102.40	0.00	108.40	104.70	103.30	0.00	105.10	
22	27.60	0.00	104.40	100.60	28.00	27.50	101.60	105.50	85.00	0.00	106.90	104.60	102.80	0.00	104.90
23	27.30	0.00	104.10	100.60	27.60	27.10	101.30	113.70	59.40	0.00	107.40	105.40	102.50	0.00	104.70
24	27.70	0.00	104.00	100.40	26.20	25.60	100.40	113.80	58.60	0.00	107.20	106.00	102.40	0.00	104.60

01 SEP 2003

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

01 SEP 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. TAI LW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAI LW.	LOWER GRANITE	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAI LW.		
1	5.90	0.00	98.90	100.30	100.40	101.10	17.70	0.00	106.60	100.50	15.60	0.00	102.60	99.00	
2	5.80	0.00	98.80	100.10	100.20	100.70	16.50	0.00	106.60	99.60	17.60	0.00	101.20	98.80	
3	5.90	0.00	98.80	99.90	100.10	100.20	17.60	0.00	106.20	99.20	19.40	0.00	103.10	98.60	
4	5.80	0.00	98.70	99.70	99.90	99.40	17.70	0.00	106.10	99.10	19.70	0.00	101.30	98.60	
5	5.90	0.00	98.60	99.70	99.80	99.40	18.00	0.00	105.90	99.00	20.40	0.00	100.40	98.70	
6	6.00	0.00	98.60	99.50	99.70	99.10	17.40	0.00	105.80	98.80	18.50	0.00	100.40	98.50	
7	8.20	0.00	99.40	99.30	99.70	98.90	17.70	0.00	105.50	98.60	20.10	0.00	100.60	98.40	
8	8.10	0.00	99.50	99.30	99.90	99.20	16.40	0.00	105.50	98.50	14.80	0.00	100.50	98.60	
9	8.30	0.00	99.60	99.50	100.70	99.80	16.90	0.00	105.70	98.50	15.10	0.00	101.30	98.70	
10	8.10	0.00	99.90	99.90	101.40	100.70	19.00	0.00	106.40	98.60	15.90	0.00	102.90	98.80	
11	8.20	0.00	100.10	100.60	102.20	101.60	17.40	0.00	106.70	99.10	14.30	0.00	103.10	98.90	
12	8.20	0.00	100.40	101.20	103.00	102.60	19.10	0.00	106.30	99.10	15.80	0.00	102.00	99.20	
13	8.10	0.00	100.50	101.70	103.50	103.50	17.40	0.00	108.60	99.30	15.80	0.00	103.90	99.30	
14	8.20	0.00	100.50	102.40	103.90	104.30	17.70	0.00	109.50	99.40	14.40	0.00	103.80	99.70	
15	8.10	0.00	100.60	102.80	104.10	104.90	26.90	0.00	110.20	100.60	14.30	0.00	103.50	99.70	
16	8.20	0.00	100.50	103.00	104.30	105.40	31.60	0.00	110.00	99.90	14.30	0.00	103.30	99.50	
17	8.10	0.00	100.40	103.00	104.10	105.40	27.90	0.00	109.80	100.00	14.30	0.00	102.80	99.30	
18	8.20	0.00	100.30	102.80	103.80	105.10	29.60	0.00	109.40	99.70	14.20	0.00	102.40	99.20	
19	8.20	0.00	100.00	102.40	103.10	104.60	30.20	0.00	110.10	99.60	14.20	0.00	102.60	98.90	
20	8.10	0.00	99.90	101.80	102.30	103.80	34.00	0.00	109.40	99.70	14.40	0.00	102.30	98.70	
21	6.00	0.00	99.60	101.20	101.50	103.10	34.30	0.00	109.50	99.70	14.30	0.00	102.20	98.40	
22	5.80	0.00	99.00	100.80	101.10	102.50	34.30	0.00	109.50	99.70	14.10	0.00	101.90	98.20	
23	5.90	0.00	98.80	100.50	101.00	102.00	33.20	0.00	107.60	99.40	13.90	0.00	101.30	98.00	
24	5.80	0.00	98.70	100.20	100.70	101.40	14.90	0.00	106.30	99.50	14.90	0.00	101.10	98.00	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAI LW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAI LW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAI LW.	MCNARY	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAI LW.		
1	14.60	0.00	104.60	100.10	8.70	0.10	100.70	113.50	0.00	104.70	106.10	102.10	0.00	104.40	
2	19.90	0.00	104.60	100.20	14.10	0.00	100.60	113.40	0.00	105.60	106.50	102.20	0.00	104.20	
3	21.20	0.00	104.20	99.90	19.80	0.00	103.60	113.30	0.00	105.90	106.50	102.00	0.00	104.00	
4	21.50	0.00	102.80	99.70	21.10	0.00	104.10	109.40	0.00	106.10	105.90	101.90	0.00	103.80	
5	21.70	0.00	102.40	99.60	19.80	0.00	104.30	103.60	0.00	104.60	105.10	101.90	0.00	103.50	
6	18.50	0.00	102.20	99.40	17.20	0.00	103.50	101.80	0.00	104.40	104.40	101.70	0.00	103.50	
7	18.60	0.00	101.80	99.30	12.40	0.00	102.10	102.20	0.00	104.30	104.50	101.70	0.00	103.40	
8	16.10	0.00	102.30	99.10	9.50	0.00	103.30	100.90	0.00	104.10	104.20	101.80	0.00	103.20	
9	22.20	0.00	102.40	99.70	9.20	0.00	103.20	100.70	0.00	103.90	104.20	101.90	0.00	103.10	
10	16.70	0.00	103.10	99.90	10.90	0.00	103.10	101.90	0.00	103.30	104.50	102.20	0.00	103.40	
11	14.70	0.00	102.50	100.70	9.20	0.00	103.30	102.10	0.00	103.30	104.80	102.60	0.00	103.80	
12	15.30	0.00	103.20	100.70	9.00	0.00	103.40	102.10	0.00	104.50	105.20	103.20	0.00	104.50	
13	16.80	0.00	103.50	100.70	10.50	0.00	104.00	102.70	0.00	105.60	105.60	103.50	0.00	105.20	
14	15.30	0.00	104.00	101.30	9.50	0.00	104.80	103.10	0.00	105.20	106.20	103.70	0.00	105.70	
15	15.60	0.00	104.80	101.40	17.80	0.00	105.30	104.30	0.00	104.60	106.20	103.80	0.00	106.30	
16	15.30	0.00	105.00	101.00	21.10	0.00	105.70	104.50	0.00	104.90	105.90	103.80	0.00	106.60	
17	15.00	0.00	103.70	101.20	20.00	0.00	105.70	103.70	0.00	105.60	104.90	103.80	0.00	106.90	
18	15.20	0.00	103.60	101.20	21.00	0.00	106.00	103.10	0.00	106.40	106.90	103.70	0.00	107.00	
19	17.00	0.00	104.80	101.00	20.20	0.00	105.20	102.10	0.00	104.60	107.70	103.60	0.00	106.90	
20	15.40	0.00	105.40	101.00	23.50	0.00	105.10	101.60	0.00	104.40	108.60	103.40	0.00	106.70	
21	15.40	0.00	105.20	100.40	24.10	0.00	104.50	101.80	0.00	105.50	107.80	103.30	0.00	106.40	
22	16.90	0.00	105.00	100.30	23.70	0.00	103.70	101.10	0.00	106.10	107.20	103.10	0.00	105.90	
23	15.20	0.00	104.20	100.40	23.50	0.00	103.40	101.00	0.00	108.90	106.20	103.10	0.00	105.70	
24	13.90	0.00	104.20	99.90	11.60	0.00	103.10	101.00	0.00	109.30	106.10	102.80	0.00	105.40	

02 SEP 2003

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

02 SEP 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	LOWER GRANITE	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.		
1	5.90	0.00	98.70	100.00	100.40	100.90	14.40	0.00	105.50	98.30	12.50	0.00	101.20	97.90	
2	5.80	0.00	98.60	99.90	100.20	100.70	14.50	0.00	105.20	98.00	12.50	0.00	101.60	97.90	
3	5.90	0.00	98.60	99.70	100.00	100.20	14.30	0.00	104.80	97.90	12.90	0.00	103.30	97.80	
4	5.80	0.00	98.60	0.00	99.90	99.90	16.10	0.00	104.90	98.90	13.00	0.00	105.70	97.60	
5	5.90	0.00	98.60	99.60	99.70	99.50	14.50	0.00	104.30	98.20	13.60	0.00	107.70	97.80	
6	6.10	0.00	98.50	99.50	99.60	99.20	14.40	0.00	104.30	97.40	19.10	0.00	105.50	97.70	
7	8.30	0.00	99.20	102.00	99.70	99.10	14.40	0.00	104.40	97.30	19.20	0.00	106.40	98.10	
8	8.10	0.00	99.40	6408.70	99.80	99.30	16.10	0.00	104.60	97.30	16.10	0.00	104.60	98.20	
9	8.20	0.00	99.50	0.00	100.60	99.80	16.10	0.00	105.50	97.40	15.90	0.00	105.50	98.30	
10	8.30	0.00	99.80	100.20	101.40	100.70	16.00	0.00	106.30	97.50	15.80	0.00	105.70	98.30	
11	8.10	0.00	100.00	100.90	102.10	101.70	16.00	0.00	106.60	97.60	17.00	0.00	106.50	98.50	
12	8.20	0.00	100.30	101.60	102.90	102.80	15.90	0.00	107.10	97.90	15.80	0.00	106.30	98.70	
13	8.10	0.00	100.40	102.30	103.40	103.70	21.60	0.00	107.50	98.40	15.90	0.00	109.80	98.90	
14	9.50	0.00	100.30	102.80	103.80	104.60	31.70	0.00	108.10	99.20	18.60	0.00	107.20	98.90	
15	8.30	0.00	100.50	103.10	104.00	105.20	30.10	0.00	108.40	99.20	19.00	0.00	109.80	99.10	
16	8.30	0.00	100.40	103.30	104.10	105.40	30.20	0.00	108.60	99.00	28.60	0.00	109.90	99.60	
17	8.10	0.00	100.30	103.40	104.20	105.20	32.60	0.00	108.50	99.10	32.00	0.00	110.40	100.00	
18	8.30	0.00	100.20	103.10	103.80	104.90	33.80	0.00	110.10	99.00	36.50	0.00	109.10	99.60	
19	8.10	0.00	99.90	102.70	103.00	104.40	36.20	0.00	110.20	99.30	37.30	0.00	110.10	99.80	
20	8.20	0.00	99.80	102.10	102.10	103.60	34.60	0.00	109.90	99.40	35.70	0.00	110.10	99.50	
21	5.90	0.00	99.30	101.50	101.30	102.90	36.20	0.00	108.40	99.30	35.70	0.00	105.90	99.40	
22	5.90	0.00	98.70	101.00	101.00	102.40	34.50	0.00	110.60	99.20	35.40	0.00	106.30	99.40	
23	5.80	0.00	98.70	100.70	101.00	101.80	27.40	0.00	109.70	99.20	35.10	0.00	103.70	99.40	
24	5.90	0.00	98.60	100.40	100.70	101.30	14.80	0.00	108.90	98.70	20.90	0.00	102.90	99.30	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	MCNARY	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	MCNARY	PASCO
1	13.40	0.00	104.00	99.70	9.80	0.00	102.30	100.80	0.00	109.00	106.00	102.60	0.00	105.30	
2	13.30	0.00	104.30	99.50	11.00	0.00	101.70	100.60	0.00	108.70	105.60	102.50	0.00	105.00	
3	13.30	0.00	103.80	99.40	9.50	0.00	101.00	100.50	0.00	107.70	106.00	102.50	0.00	104.80	
4	13.60	0.00	103.40	99.20	9.70	0.00	99.90	100.40	0.00	107.00	107.00	102.60	0.00	104.60	
5	15.50	0.00	104.70	99.10	9.60	0.00	99.10	100.50	0.00	105.00	107.30	102.90	0.00	104.30	
6	14.30	0.00	104.50	99.40	9.50	0.00	98.90	101.70	0.00	102.60	106.90	103.00	0.00	103.90	
7	14.30	0.00	103.80	99.30	9.50	0.00	99.10	100.80	0.00	102.00	105.60	102.80	0.00	103.50	
8	16.80	0.00	104.20	99.00	10.80	0.00	97.70	100.80	0.00	106.60	104.90	102.60	0.00	103.10	
9	17.00	0.00	104.40	99.00	11.10	0.00	97.50	101.20	0.00	106.20	104.30	102.50	0.00	102.90	
10	17.40	0.00	104.80	99.60	20.90	0.00	98.40	101.70	0.00	106.90	104.20	102.50	-	999.00	
11	17.10	0.00	105.00	100.10	21.30	0.00	100.70	102.10	0.00	107.00	103.80	102.80	-	999.00	
12	17.00	0.00	106.80	100.60	21.50	0.00	100.80	102.50	0.00	107.20	103.70	103.00	-	999.00	
13	17.10	0.00	106.90	100.90	21.20	0.00	100.60	102.40	0.00	107.50	103.20	103.20	-	104.00	
14	18.20	0.00	106.50	101.40	21.20	0.00	100.80	102.40	0.00	108.00	103.50	103.20	-	104.40	
15	20.60	0.00	107.00	101.70	21.40	0.00	101.00	102.30	0.00	108.50	103.70	103.40	-	104.60	
16	32.70	0.00	105.20	102.10	29.00	0.00	100.40	102.30	0.00	108.30	104.30	103.50	-	104.80	
17	33.80	0.00	105.20	102.30	29.40	0.00	102.50	102.10	0.00	108.70	104.40	103.40	-	104.90	
18	37.30	0.00	107.30	102.40	36.80	0.00	106.40	101.80	0.00	104.80	104.70	103.60	-	104.90	
19	38.50	0.00	106.20	102.30	35.90	0.00	106.70	102.60	0.00	105.90	111.10	103.90	-	104.90	
20	37.70	0.00	110.50	101.90	36.50	0.00	106.70	102.00	0.00	107.10	109.90	104.00	-	104.60	
21	37.80	0.00	111.20	101.60	35.90	0.00	106.30	101.80	0.00	106.10	106.70	103.70	-	104.50	
22	39.20	0.00	109.50	102.00	35.80	0.00	106.10	101.80	0.00	106.10	105.50	103.40	-	104.30	
23	38.60	0.00	109.20	101.60	35.20	0.00	105.40	101.80	0.00	108.30	105.50	103.10	-	104.20	
24	22.70	0.00	110.20	102.00	22.50	0.00	104.60	101.70	0.00	108.00	106.70	103.10	-	104.00	

03 SEP 2003

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

03 SEP 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.			
1	5.80	0.00	98.60	100.30	100.30	100.90	14.60	0.00	108.50	98.30	14.20	0.00	102.10	98.80	
2	5.90	0.00	98.60	100.20	100.00	100.50	14.30	0.00	108.20	98.00	13.10	0.00	101.40	98.30	
3	5.80	0.00	98.60	100.20	100.00	100.20	14.20	0.00	108.00	97.90	13.10	0.00	103.80	97.90	
4	5.90	0.00	98.60	100.20	99.80	99.90	14.60	0.00	108.00	97.70	14.50	0.00	103.10	97.80	
5	5.80	0.00	98.50	100.00	99.60	99.60	27.40	0.00	108.80	99.10	13.10	0.00	103.30	98.10	
6	6.10	0.00	98.50	100.00	99.60	99.30	29.20	0.00	108.80	98.50	13.50	0.00	101.90	97.80	
7	8.20	0.00	99.40	99.90	99.70	99.10	28.50	0.00	108.50	98.40	29.90	0.00	102.20	98.20	
8	8.10	0.00	99.50	99.90	99.90	99.40	28.10	0.00	108.20	98.50	30.00	0.00	105.30	98.70	
9	8.20	0.00	99.50	100.10	100.60	99.90	28.30	0.00	108.10	98.60	30.30	0.00	106.30	99.20	
10	8.20	0.00	98.90	100.50	101.30	100.70	33.50	0.00	108.00	99.30	31.70	0.00	108.80	99.80	
11	8.00	0.00	99.10	101.00	101.80	101.60	33.30	0.00	107.90	99.80	29.90	0.00	111.50	100.30	
12	7.50	0.00	99.50	101.70	102.20	102.70	33.30	0.00	107.90	100.10	30.00	0.00	107.80	100.70	
13	7.30	0.00	100.10	102.40	102.90	103.40	33.40	0.00	108.00	100.50	30.00	0.00	110.40	100.90	
14	7.30	0.00	100.50	103.60	103.50	104.20	28.70	0.00	108.50	100.50	30.00	0.00	109.30	101.00	
15	7.40	0.00	100.30	104.30	104.00	104.90	29.90	0.00	109.10	100.40	30.00	0.00	109.00	100.80	
16	7.40	0.00	100.30	104.50	104.40	0.00	28.30	0.00	109.30	100.60	30.10	0.00	110.50	100.90	
17	8.20	0.00	99.80	104.50	104.30	105.60	28.20	0.00	109.50	100.50	30.30	0.00	110.50	100.70	
18	8.30	0.00	99.50	104.10	102.50	105.30	28.20	0.00	110.40	100.60	30.00	0.00	110.70	100.60	
19	8.20	0.00	99.20	103.60	102.70	104.70	28.70	0.00	111.40	100.50	30.00	0.00	107.50	100.60	
20	7.90	0.00	99.20	103.10	101.90	103.90	28.10	0.00	111.50	100.40	34.30	0.00	105.50	100.90	
21	5.90	0.00	99.10	102.40	101.30	103.40	28.10	0.00	111.10	100.40	34.50	0.00	110.60	101.20	
22	5.80	0.00	99.10	102.00	100.90	102.60	28.10	0.00	110.30	100.50	34.40	0.00	109.70	101.00	
23	5.80	0.00	99.00	101.70	101.00	102.20	28.00	0.00	109.80	100.50	34.00	0.00	109.90	101.20	
24	5.90	0.00	99.20	101.40	100.90	101.80	18.50	0.00	109.60	100.70	20.40	0.00	109.20	101.20	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	
1	13.90	0.00	107.80	101.40	12.50	0.00	102.30	101.50	85.00	0.00	107.50	106.80	103.10	0.00	104.00
2	13.60	0.00	106.20	100.70	11.00	0.00	101.30	101.50	79.60	0.00	107.30	106.50	103.10	0.00	104.00
3	13.50	0.00	107.90	100.40	9.20	0.00	101.20	101.30	90.80	0.00	106.00	106.40	103.10	0.00	103.80
4	13.50	0.00	107.90	100.10	9.40	0.00	101.10	101.10	92.90	0.00	104.10	106.20	103.00	0.00	103.70
5	13.80	0.00	108.40	99.80	12.30	0.00	100.50	101.20	97.40	0.00	104.70	106.20	103.30	0.00	103.40
6	13.60	0.00	107.80	99.60	12.70	0.00	99.10	101.80	98.50	0.00	105.30	106.40	103.30	0.00	103.10
7	15.70	0.00	108.60	99.50	12.70	0.00	99.80	101.50	93.80	0.00	104.20	106.70	103.10	0.00	102.80
8	31.60	0.00	109.10	99.80	14.70	0.00	100.70	101.50	93.60	0.00	103.30	106.00	103.30	0.00	102.50
9	32.90	0.00	108.90	100.50	29.80	0.00	101.60	101.80	94.80	0.00	103.40	105.40	103.40	0.00	102.30
10	37.60	0.00	109.20	100.90	30.10	0.00	102.20	103.00	93.70	0.00	104.00	105.60	103.50	0.00	102.60
11	39.50	0.00	109.70	103.10	41.60	0.00	103.80	102.50	91.50	0.00	107.50	105.40	103.80	0.00	102.90
12	38.80	0.00	112.30	102.90	42.90	0.00	104.00	102.70	91.70	0.00	107.90	105.10	104.00	0.00	103.30
13	38.30	0.00	108.20	103.20	43.50	0.00	104.40	102.80	91.20	0.00	107.50	104.90	104.10	0.00	103.80
14	33.30	0.00	107.00	103.60	42.80	0.00	104.10	102.80	90.40	0.00	108.20	104.70	104.10	0.00	104.40
15	29.90	0.00	108.70	103.50	35.30	0.00	104.80	103.30	90.90	0.00	109.20	104.50	104.20	0.00	104.90
16	29.80	0.00	109.30	103.60	34.50	0.00	106.40	103.60	90.70	0.00	104.00	104.00	104.20	0.00	105.20
17	30.40	0.00	107.70	103.50	32.00	0.00	106.90	103.70	90.60	0.00	103.00	109.50	104.40	0.00	105.20
18	30.10	0.00	107.20	103.40	28.50	0.00	105.10	103.50	91.00	0.00	102.80	110.40	104.60	0.00	105.10
19	29.30	0.00	107.30	102.80	28.60	0.00	105.70	103.60	109.30	0.00	103.00	109.20	104.80	0.00	105.10
20	29.50	0.00	107.00	102.40	26.80	0.00	106.30	103.40	124.10	0.00	105.10	108.00	104.40	0.00	104.90
21	35.40	0.00	107.40	102.00	26.80	0.00	106.80	103.50	125.00	0.00	109.40	108.00	104.10	0.00	104.70
22	38.20	0.00	107.60	102.60	34.00	0.00	108.20	102.60	125.00	0.00	109.20	108.10	103.90	0.00	104.60
23	35.40	0.00	107.50	101.80	34.60	0.00	109.40	103.00	123.80	0.00	111.50	107.80	104.00	0.00	104.50
24	20.80	0.00	106.90	101.50	34.50	0.00	109.60	102.40	96.10	0.00	111.00	106.00	104.00	0.00	104.40

04 SEP 2003

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

04 SEP 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.			
1	5.80	0.00	99.20	101.30	100.80	101.50	16.40	0.00	109.30	100.50	21.70	0.00	108.20	101.10	
2	5.80	0.00	99.10	101.20	100.60	101.20	16.30	0.00	109.00	99.80	17.40	0.00	107.20	101.00	
3	5.90	0.00	98.90	101.00	100.40	100.90	16.50	0.00	108.40	99.80	13.20	0.00	107.60	101.00	
4	5.80	0.00	98.90	101.00	100.20	100.60	17.80	0.00	107.70	99.70	15.90	0.00	108.20	100.60	
5	5.90	0.00	98.90	100.80	100.20	100.30	16.00	0.00	107.30	100.10	19.50	0.00	107.40	100.60	
6	6.10	0.00	98.90	100.60	100.10	100.10	16.70	0.00	107.10	99.60	20.70	0.00	106.50	100.80	
7	8.20	0.00	99.20	100.60	100.00	99.90	16.90	0.00	106.80	99.50	18.30	0.00	109.30	100.80	
8	8.20	0.00	98.90	100.70	100.30	100.10	32.70	0.00	106.80	100.90	18.40	0.00	109.90	100.80	
9	8.20	0.00	99.10	101.10	100.90	100.60	33.10	0.00	106.80	100.40	18.30	0.00	111.00	100.90	
10	7.90	0.00	99.30	101.70	101.50	101.10	29.40	0.00	106.90	100.50	18.20	0.00	109.70	101.00	
11	8.20	0.00	99.60	102.00	102.10	101.90	29.40	0.00	107.00	100.70	18.30	0.00	113.20	101.00	
12	8.20	0.00	99.50	102.60	102.60	102.70	29.80	0.00	106.90	100.70	18.40	0.00	112.50	101.00	
13	8.40	0.00	99.80	103.10	103.30	103.70	29.20	0.00	106.50	100.80	25.80	0.00	113.70	101.30	
14	8.20	0.00	99.80	103.60	103.50	104.20	30.00	0.00	105.90	100.80	27.30	0.00	107.20	101.50	
15	8.20	0.00	99.80	103.60	103.70	104.40	31.50	0.00	106.40	100.80	31.40	0.00	107.10	101.60	
16	8.40	0.00	99.70	103.70	103.50	104.50	33.10	0.00	106.30	100.90	34.10	0.00	106.20	101.70	
17	8.20	0.00	99.60	103.80	103.50	104.30	31.70	0.00	106.40	100.70	37.70	0.00	113.40	101.90	
18	8.20	0.00	99.60	103.50	103.20	104.20	31.60	0.00	105.70	100.90	37.70	0.00	105.40	101.90	
19	8.40	0.00	99.50	102.90	102.60	103.90	31.60	0.00	105.40	100.80	39.00	0.00	109.30	101.80	
20	7.90	0.00	99.30	102.50	102.00	103.10	32.30	0.00	105.40	100.60	39.50	0.00	108.90	101.80	
21	5.90	0.00	99.30	102.00	101.40	102.60	31.80	0.00	105.20	100.40	41.10	0.00	109.40	102.10	
22	6.00	0.00	99.30	101.70	101.20	102.20	30.00	0.00	105.20	100.40	42.90	0.00	109.10	102.40	
23	5.80	0.00	99.10	101.40	101.00	101.90	17.70	0.00	104.90	102.60	40.50	0.00	108.30	102.30	
24	6.00	0.00	99.20	101.10	100.80	101.60	17.60	0.00	104.40	100.20	18.40	0.00	108.20	102.20	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. OR FB	WA FB	TAILW.	GAS % SAT			
1	20.80	0.00	106.00	101.30	0.00	108.90	102.30	61.10	0.00	109.40	108.10	103.50	:	104.30	
2	18.60	0.00	105.60	101.00	0.00	107.30	102.20	59.50	0.00	108.90	107.40	103.50	:	104.30	
3	15.20	0.00	105.60	100.90	0.00	106.40	102.00	59.60	0.00	108.40	106.30	103.60	:	104.10	
4	15.20	0.00	105.20	100.70	0.00	104.80	102.00	61.20	0.00	107.80	106.90	103.70	:	103.90	
5	20.00	0.00	105.10	100.50	0.00	103.30	101.90	115.00	0.00	106.80	107.30	104.20	:	103.70	
6	21.20	0.00	104.90	100.30	0.00	103.00	101.80	119.30	0.00	106.70	107.00	104.20	:	103.40	
7	18.30	0.00	105.30	100.20	0.00	103.50	101.90	118.90	0.00	106.50	107.00	104.20	:	103.10	
8	17.90	0.00	105.40	100.00	0.00	104.00	102.00	119.10	0.00	104.90	106.40	104.00	:	103.00	
9	17.90	0.00	107.00	100.10	0.00	105.20	102.20	113.50	0.00	104.40	105.40	104.00	:	102.80	
10	17.90	0.00	106.60	100.30	0.00	104.20	102.60	111.80	0.00	103.70	105.50	104.10	:	103.10	
11	17.90	0.00	105.50	100.40	0.00	105.10	103.70	110.60	0.00	106.50	105.80	104.30	:	103.40	
12	21.10	0.00	104.80	100.80	0.00	105.10	103.50	111.70	0.00	108.80	105.50	104.30	:	104.00	
13	21.00	0.00	104.50	101.20	0.00	105.00	104.40	111.00	0.00	109.20	105.20	104.40	:	104.40	
14	30.20	0.00	105.00	102.00	0.00	105.20	104.90	111.40	0.00	109.40	104.80	104.70	:	104.70	
15	34.20	0.00	103.70	101.90	0.00	105.20	104.80	112.10	0.00	110.80	104.70	104.70	:	104.90	
16	36.10	0.00	103.50	101.80	0.00	106.00	104.40	131.10	0.20	112.50	105.60	105.10	:	104.90	
17	39.10	0.00	102.60	101.90	0.00	106.60	103.90	134.70	0.00	112.60	105.60	105.30	:	104.90	
18	39.00	0.00	103.70	101.90	0.00	107.10	103.80	133.10	0.00	109.60	105.20	105.30	:	104.90	
19	39.10	0.00	103.80	101.80	0.00	109.90	103.50	117.50	0.00	110.70	105.60	105.20	:	104.80	
20	39.30	0.00	103.90	101.50	0.00	111.30	103.80	117.10	0.00	107.60	105.80	105.00	:	104.90	
21	41.60	0.00	104.50	101.20	0.00	112.20	103.10	117.40	0.00	108.90	107.80	105.00	:	104.70	
22	40.90	0.00	105.40	101.00	0.00	112.00	102.90	119.10	0.00	106.30	109.70	104.70	:	104.50	
23	40.70	0.00	105.60	100.80	0.00	112.00	102.70	118.50	0.00	105.10	108.90	104.60	:	104.30	
24	38.60	0.00	106.50	100.60	0.00	111.60	102.50	117.10	0.00	107.10	107.30	104.40	:	104.30	

05 SEP 2003

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

05 SEP 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	LITTLE GOOSE	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.		
1	5.80	0.00	99.00	101.00	100.60	101.30	17.60	0.00	104.40	100.00	14.90	0.00	108.00	101.70	
2	5.90	0.00	98.90	100.80	100.40	101.00	15.90	0.00	104.30	99.80	13.70	0.00	108.60	101.10	
3	6.00	0.00	98.90	100.80	100.40	100.70	16.50	0.00	104.30	99.80	16.90	0.00	108.50	100.70	
4	5.90	0.00	99.00	100.80	100.20	100.40	16.00	0.00	104.30	99.60	13.60	0.00	108.40	100.70	
5	5.90	0.00	99.00	100.60	100.20	100.20	15.70	0.00	104.40	99.60	15.40	0.00	107.90	100.50	
6	6.20	0.00	98.90	100.40	100.10	99.90	17.50	0.00	104.20	99.50	14.40	0.00	107.30	100.10	
7	7.70	0.00	100.30	100.40	100.10	99.70	27.20	0.00	104.10	100.70	14.50	0.00	106.70	100.10	
8	8.20	0.00	98.90	100.50	100.40	99.80	27.20	0.00	104.00	100.00	21.30	0.00	106.80	100.00	
9	8.20	0.00	99.00	100.60	101.20	100.00	27.30	0.00	103.90	100.10	35.10	0.00	107.90	101.30	
10	8.40	0.00	99.00	101.20	101.40	100.80	27.30	0.00	104.30	100.30	33.70	0.00	107.50	101.30	
11	8.20	0.00	99.10	101.60	101.70	101.30	31.00	0.00	104.50	100.40	33.80	0.00	107.10	101.00	
12	8.20	0.00	99.30	102.30	102.40	102.10	29.60	0.00	104.90	100.40	43.80	0.00	110.40	101.50	
13	8.40	0.00	99.40	103.20	102.90	103.10	31.40	0.00	106.60	100.60	41.90	0.00	112.70	103.30	
14	8.20	0.00	99.60	103.60	103.40	103.90	30.20	0.00	106.90	100.80	44.90	0.00	113.90	101.90	
15	8.20	0.00	99.60	103.80	103.60	104.50	29.70	0.00	107.90	100.90	50.70	0.00	114.50	102.10	
16	8.20	0.00	99.70	104.30	103.80	104.70	29.60	0.00	108.60	101.00	54.50	0.00	115.40	102.40	
17	8.30	0.00	99.50	104.00	103.40	104.60	29.40	0.00	109.30	101.00	55.50	0.00	114.40	102.40	
18	8.20	0.00	99.40	103.50	103.20	104.40	28.20	0.00	108.10	101.10	56.40	0.00	112.10	102.40	
19	8.30	0.00	99.20	102.90	102.50	103.90	28.00	0.00	107.40	101.00	43.50	0.00	112.80	102.60	
20	7.90	0.00	99.20	102.50	101.80	103.20	27.30	0.00	106.80	100.90	40.10	0.00	112.60	102.40	
21	5.90	0.00	99.10	102.00	101.20	102.50	17.40	0.00	106.50	103.90	39.30	0.00	112.20	101.80	
22	6.00	0.00	99.00	101.70	100.90	102.20	17.40	0.00	106.00	100.80	28.90	0.00	114.20	101.50	
23	5.90	0.00	99.00	101.40	101.00	101.80	17.80	0.00	105.90	100.30	28.10	0.00	115.50	101.40	
24	5.90	0.00	99.00	101.20	100.80	101.60	17.40	0.00	105.80	100.20	15.80	0.00	112.40	100.80	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB	PASCO	OR FB	WA FB	TAILW.	GAS %SAT	
1	16.40	0.00	106.30	100.40	32.60	0.00	111.00	102.50	88.30	104.10	107.10	107.10	104.10	104.10	
2	14.00	0.00	104.10	100.90	14.90	0.00	104.40	102.20	70.90	103.90	105.60	106.60	103.90	103.90	
3	17.60	0.00	103.40	100.20	12.30	0.00	103.30	102.00	80.70	103.60	107.80	106.00	103.80	103.60	
4	13.90	0.00	103.30	99.70	10.70	0.00	102.70	101.70	77.20	103.30	107.10	106.40	103.80	103.30	
5	15.20	0.00	102.70	99.60	12.00	0.00	101.40	101.40	85.40	103.10	106.80	105.60	103.60	103.10	
6	16.00	0.00	102.40	99.30	10.30	0.00	101.00	102.30	98.90	102.90	106.10	105.10	103.50	102.90	
7	14.10	0.00	101.20	98.90	10.30	0.00	100.70	102.10	98.40	102.90	104.70	106.30	103.50	102.80	
8	21.60	0.00	100.90	99.00	14.50	0.00	100.90	102.00	112.30	102.70	103.80	107.40	103.70	102.70	
9	34.70	0.00	100.90	99.10	25.00	0.00	103.00	102.80	110.50	103.90	103.70	106.70	103.90	102.70	
10	35.20	0.00	100.50	99.10	30.40	0.00	105.70	103.50	112.20	104.40	104.70	106.70	104.40	102.90	
11	35.30	0.00	100.90	99.40	34.10	0.00	107.30	103.30	113.10	104.50	105.90	106.30	104.50	103.20	
12	41.70	0.00	102.60	99.70	40.10	0.00	109.10	103.00	112.70	104.60	104.10	107.30	104.60	103.50	
13	46.80	0.00	101.40	6422.40	45.80	0.00	111.00	103.30	112.70	104.60	103.60	108.00	104.60	104.00	
14	49.70	0.00	103.90	100.50	49.70	0.00	112.10	103.50	122.30	104.80	103.80	108.50	104.80	104.20	
15	53.30	0.00	102.50	1.50	52.00	0.00	112.70	103.90	127.40	105.10	107.50	107.50	105.10	104.40	
16	50.60	0.00	103.10	101.20	57.20	0.00	113.60	103.50	137.30	105.20	109.40	105.80	105.20	104.60	
17	62.70	0.00	106.00	101.30	59.60	0.00	113.10	103.50	137.40	105.30	109.60	106.00	105.20	104.70	
18	62.10	0.00	102.20	101.70	61.40	0.00	112.20	103.30	137.20	105.50	112.30	108.30	105.20	104.70	
19	49.20	0.00	101.50	101.30	52.00	0.00	114.10	102.80	136.10	105.60	113.40	108.60	105.00	104.80	
20	48.50	0.00	102.20	100.90	48.90	0.00	114.50	103.30	135.70	105.90	109.90	107.60	104.90	104.70	
21	41.90	0.00	101.80	100.50	42.10	0.00	113.70	102.90	91.30	106.40	110.40	106.10	104.70	104.50	
22	29.10	0.00	101.80	100.40	30.70	0.00	106.30	102.50	84.80	104.50	109.90	105.10	104.50	104.50	
23	28.10	0.00	104.20	100.20	21.40	0.00	108.00	102.10	84.80	104.40	108.90	104.50	104.40	104.30	
24	16.60	0.00	103.70	100.00	11.60	0.00	105.70	102.30	69.50	104.00	108.70	104.40	104.00	104.30	

06 SEP 2003

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

06 SEP 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	LOWER GRANITE	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.		
1	6.00	0.00	99.00	101.00	100.60	101.30	14.40	0.00	105.90	100.10	14.80	0.00	113.60	100.50	
2	5.90	0.00	99.00	100.90	100.50	101.00	14.60	0.00	104.90	100.00	14.80	0.00	111.40	100.10	
3	5.90	0.00	98.90	100.80	100.30	100.70	16.30	0.00	106.40	100.00	14.70	0.00	112.70	100.00	
4	6.00	0.00	98.90	100.90	100.20	100.40	14.80	0.00	106.40	100.00	13.30	0.00	112.20	99.70	
5	5.90	0.00	98.90	100.80	100.20	100.10	31.40	0.00	106.90	100.80	13.20	0.00	111.80	99.70	
6	6.00	0.00	99.00	100.70	100.00	99.80	30.10	0.00	106.40	100.50	13.30	0.00	111.80	99.50	
7	8.30	0.00	99.00	100.60	100.10	99.70	30.60	0.00	106.60	100.50	13.20	0.00	111.40	99.50	
8	8.30	0.00	98.80	100.80	100.50	100.00	33.50	0.00	105.50	100.60	20.90	0.00	111.30	99.80	
9	8.20	0.00	99.10	101.20	101.10	100.50	33.20	0.00	105.60	100.80	20.20	0.00	110.90	100.20	
10	8.20	0.00	99.40	101.80	101.70	101.40	33.70	0.00	105.90	101.10	20.00	0.00	111.50	100.60	
11	8.40	0.00	99.60	102.30	102.30	102.40	34.50	0.00	105.40	101.30	20.10	0.00	111.70	100.70	
12	8.30	0.00	99.90	102.90	103.10	103.20	34.40	0.00	105.30	101.60	19.90	0.00	110.80	100.60	
13	8.20	0.00	100.10	103.90	103.70	104.40	34.30	0.00	105.60	101.80	21.40	0.00	110.60	100.60	
14	8.40	0.00	100.20	104.20	103.90	105.00	32.50	0.00	107.70	102.10	20.10	0.00	108.50	100.50	
15	8.30	0.00	99.80	104.50	103.80	105.50	30.70	0.00	107.20	101.90	19.90	0.00	108.00	100.40	
16	8.30	0.00	100.10	104.90	103.70	105.90	30.10	0.00	109.00	101.70	21.40	0.00	109.00	100.50	
17	8.40	0.00	100.00	104.80	103.50	106.10	29.60	0.00	109.50	101.80	20.00	0.00	107.40	100.40	
18	8.20	0.00	99.90	104.10	103.40	105.70	29.50	0.00	108.70	101.70	20.00	0.00	106.70	100.30	
19	8.20	0.00	99.80	103.30	102.80	104.80	28.70	0.00	108.10	101.60	19.90	0.00	106.70	100.10	
20	8.10	0.00	99.70	102.90	102.10	104.00	27.70	0.00	109.80	101.50	19.90	0.00	106.50	100.10	
21	5.90	0.00	99.70	102.40	101.70	103.50	27.70	0.00	110.60	101.50	20.60	0.00	106.30	99.90	
22	5.90	0.00	99.70	102.00	101.60	103.10	27.10	0.00	110.70	101.30	20.70	0.00	106.20	99.60	
23	6.00	0.00	99.70	101.80	101.60	102.60	17.60	0.00	109.70	101.00	20.40	0.00	105.40	99.50	
24	5.90	0.00	99.70	101.40	101.40	102.10	17.60	0.00	109.10	100.70	17.20	0.00	101.70	99.30	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB	MCNARY	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	PASCO	
1	14.20	0.00	103.40	100.10	9.20	0.00	103.90	102.10	0.00	108.20	104.80	103.80	0.00	104.30	
2	14.30	0.00	103.10	99.90	9.20	0.00	104.00	101.50	0.00	107.30	104.40	103.60	0.00	104.10	
3	14.10	0.00	102.80	99.40	9.20	0.00	103.40	100.90	0.00	107.10	104.20	103.70	0.00	103.80	
4	14.70	0.00	103.10	99.20	10.70	0.00	105.60	100.90	0.00	106.70	104.80	103.50	0.00	103.50	
5	14.30	0.00	104.30	99.10	10.70	0.00	106.00	101.10	0.00	106.60	105.80	103.70	0.00	103.40	
6	14.30	0.00	106.50	98.90	9.20	0.00	106.20	101.40	0.00	105.70	106.80	103.60	0.00	103.10	
7	14.20	0.00	106.30	98.80	9.30	0.00	105.20	101.50	0.00	105.70	106.70	103.40	0.00	103.00	
8	17.20	0.00	106.70	98.90	11.60	0.00	104.10	101.70	0.00	104.60	106.30	103.50	0.00	103.00	
9	17.30	0.00	107.90	-999.00	12.30	0.00	104.80	102.50	0.00	107.40	106.30	103.80	0.00	103.00	
10	17.30	0.00	109.30	100.00	13.70	0.00	104.60	102.70	0.00	108.70	106.70	104.00	0.00	103.30	
11	17.20	0.00	110.50	100.70	12.20	0.00	104.90	102.80	0.00	109.70	106.90	104.30	0.00	103.50	
12	17.30	0.00	108.70	101.20	12.10	0.00	105.10	103.20	0.00	109.60	107.90	104.40	0.00	103.90	
13	19.10	0.00	108.60	101.70	13.60	0.00	105.40	103.70	0.00	109.50	108.50	104.40	0.00	104.30	
14	18.80	0.00	109.20	102.40	12.30	0.00	104.80	104.50	0.00	108.80	107.90	104.70	0.00	104.50	
15	19.30	0.00	108.20	102.60	13.20	0.00	104.90	104.20	0.00	107.90	108.20	104.80	0.00	104.70	
16	21.70	0.00	110.50	102.50	15.10	0.00	105.60	104.00	0.00	109.60	107.70	105.00	0.00	104.90	
17	20.40	0.00	112.00	102.60	13.60	0.00	105.60	104.70	0.00	110.40	110.70	104.90	0.00	104.80	
18	20.00	0.00	111.80	102.40	13.50	0.00	102.60	103.80	0.00	108.10	112.00	104.80	0.00	104.90	
19	20.00	0.00	112.70	102.20	14.90	0.00	103.10	103.50	0.00	105.80	111.80	104.90	0.00	105.00	
20	21.60	0.00	112.00	102.10	19.40	0.00	105.80	103.60	0.00	105.10	110.90	104.80	0.00	104.90	
21	21.40	0.00	110.60	101.80	20.50	0.00	105.70	102.70	0.00	104.40	110.90	104.30	0.00	104.80	
22	21.80	0.00	109.30	101.40	21.20	0.00	105.20	103.10	0.00	110.40	104.80	103.80	0.00	104.60	
23	21.20	0.00	107.20	101.10	21.10	0.00	106.00	102.00	0.00	109.80	104.30	103.50	0.00	104.50	
24	20.40	0.00	106.60	100.70	21.30	0.00	105.20	101.50	0.00	109.00	103.50	103.20	0.00	104.10	

07 SEP 2003

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

07 SEP 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	LOWER GRANITE	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.		
1	6.00	0.00	99.70	101.10	101.10	101.60	15.20	0.00	108.60	100.60	14.00	0.00	100.40	98.90	
2	5.90	0.00	99.60	101.00	100.90	101.20	13.90	0.00	108.20	100.10	13.00	0.00	99.90	98.70	
3	6.00	0.00	99.50	100.90	100.80	100.90	17.50	0.00	107.90	99.90	15.80	0.00	99.60	98.50	
4	5.90	0.00	99.50	100.80	100.60	100.30	15.90	0.00	107.40	99.90	14.10	0.00	99.40	98.30	
5	6.00	0.00	99.40	100.60	100.40	100.00	16.00	0.00	107.10	99.80	14.10	0.00	99.20	98.20	
6	5.90	0.00	99.30	100.40	100.30	99.80	16.40	0.00	106.90	99.60	13.80	0.00	98.90	97.90	
7	8.30	0.00	99.40	100.10	100.30	99.60	14.70	0.00	106.30	99.40	13.30	0.00	98.50	97.60	
8	8.30	0.00	99.30	100.20	100.60	99.70	14.90	0.00	105.60	99.10	14.00	0.00	98.30	97.60	
9	8.30	0.00	99.30	100.80	101.00	100.20	15.80	0.00	105.90	99.20	14.60	0.00	97.80	97.70	
10	8.40	0.00	99.40	101.20	101.40	101.10	27.40	0.00	105.60	100.40	16.70	0.00	97.80	97.70	
11	8.30	0.00	99.80	101.90	102.50	102.20	28.70	0.00	105.20	100.30	27.60	0.00	97.80	99.90	
12	8.40	0.00	99.80	102.20	103.20	103.10	27.40	0.00	104.70	99.90	26.90	0.00	98.00	99.90	
13	8.20	0.00	99.60	102.60	103.20	103.60	27.20	0.00	104.50	100.00	28.20	0.00	97.70	98.50	
14	8.40	0.00	99.80	103.10	103.40	103.70	27.20	0.00	104.00	99.70	26.60	0.00	97.90	98.40	
15	8.30	0.00	99.90	103.60	103.40	103.90	27.20	0.00	103.70	99.80	26.70	0.00	98.40	98.50	
16	8.40	0.00	100.00	103.80	103.50	104.40	27.20	0.00	103.40	99.80	26.70	0.00	98.50	98.40	
17	8.30	0.00	99.90	103.60	103.50	104.50	27.20	0.00	102.80	99.80	26.70	0.00	98.60	98.20	
18	8.40	0.00	99.90	102.90	103.10	104.10	27.70	0.00	102.40	99.90	26.70	0.00	98.50	98.00	
19	8.30	0.00	99.90	102.40	102.60	103.50	27.20	0.00	101.90	99.70	26.70	0.00	98.30	97.90	
20	8.00	0.00	99.70	101.80	102.00	102.60	29.80	0.00	101.30	99.70	28.30	0.00	97.90	97.60	
21	5.90	0.00	99.80	101.30	101.60	102.30	30.50	0.00	100.80	99.70	29.60	0.00	97.80	97.50	
22	6.00	0.00	99.70	101.00	101.20	102.00	30.00	0.00	100.90	99.60	28.20	0.00	98.00	97.60	
23	5.90	0.00	99.60	100.70	101.30	101.70	30.80	0.00	100.90	99.60	28.20	0.00	98.00	97.40	
24	6.00	0.00	99.50	100.40	101.10	101.40	28.30	0.00	101.20	99.60	28.10	0.00	98.00	97.50	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB	MCNARY	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	PASCO	
1	14.10	0.00	105.30	100.30	19.90	0.00	104.50	101.40	0.00	108.80	103.70	102.70	0.00	103.60	
2	13.90	0.00	103.10	100.20	12.50	0.00	102.90	101.20	0.00	107.90	105.10	102.80	0.00	103.40	
3	14.80	0.00	101.90	99.80	13.50	0.00	101.50	101.10	0.00	104.10	105.70	103.10	0.00	103.10	
4	14.10	0.00	101.40	99.50	12.80	0.00	100.90	100.70	0.00	104.10	105.00	103.10	0.00	102.90	
5	14.00	0.00	100.10	99.20	13.00	0.00	100.00	100.60	0.00	105.20	104.10	102.80	0.00	102.40	
6	13.80	0.00	99.20	98.90	11.90	0.00	99.50	100.70	0.00	106.00	103.90	102.60	0.00	102.40	
7	13.80	0.00	98.50	98.70	9.30	0.00	98.60	100.60	0.00	106.40	103.60	102.40	0.00	102.00	
8	14.70	0.00	98.40	98.60	11.20	0.00	98.40	100.50	0.00	106.10	103.30	102.20	0.00	102.10	
9	14.90	0.00	98.30	98.60	10.00	0.00	97.80	100.60	0.00	106.30	103.20	102.20	0.00	102.20	
10	14.20	0.00	98.30	98.70	12.50	0.00	98.80	100.90	0.00	105.50	103.10	102.10	0.00	102.50	
11	15.00	0.00	98.30	98.90	14.80	0.00	97.90	101.70	0.00	104.50	105.20	102.00	0.00	102.90	
12	14.00	0.00	98.60	99.10	12.00	0.00	97.70	102.80	0.00	104.10	105.60	102.70	0.00	103.10	
13	14.70	0.00	99.10	99.30	13.60	0.00	98.00	101.70	0.00	104.30	105.60	102.70	0.00	103.10	
14	26.20	0.00	98.70	99.20	11.50	0.00	97.90	104.70	0.00	104.90	104.30	102.80	0.00	103.20	
15	27.30	0.00	99.40	99.30	11.40	0.00	98.00	105.60	0.00	104.80	104.80	102.50	0.00	103.20	
16	27.60	0.00	100.10	99.40	14.10	0.00	98.80	103.70	0.00	105.60	104.30	102.60	0.00	103.20	
17	29.20	0.00	100.30	99.30	26.70	0.00	99.80	102.40	0.00	105.90	103.70	102.50	0.00	103.20	
18	27.60	0.00	100.10	99.10	27.40	0.00	100.00	102.40	0.00	105.30	103.20	102.20	0.00	103.20	
19	27.40	0.00	100.30	99.00	29.60	0.00	100.20	100.80	0.00	104.50	103.20	102.30	0.00	103.00	
20	27.10	0.00	100.60	98.80	27.80	0.00	100.10	100.70	0.00	103.90	103.50	102.10	0.00	102.70	
21	27.60	0.00	100.80	98.70	28.40	0.00	100.30	101.60	0.00	103.90	103.10	102.20	0.00	102.50	
22	27.30	0.00	100.90	98.80	25.70	0.00	100.10	100.60	0.00	104.20	102.90	102.00	0.00	102.30	
23	31.90	0.00	100.70	98.70	30.60	0.00	100.60	100.50	0.00	104.00	102.50	101.70	0.00	102.20	
24	27.70	0.00	100.30	98.70	30.70	0.00	100.90	100.60	0.00	104.00	102.50	101.70	0.00	101.80	

08 SEP 2003

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

08 SEP 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.			
1	5.90	0.00	99.50	100.10	100.80	101.10	17.70	0.00	101.00	100.80	29.80	0.00	98.10	97.40	
2	5.90	0.00	99.30	100.00	100.70	100.80	17.60	0.00	100.90	99.70	19.30	0.00	98.00	97.30	
3	6.00	0.00	99.40	100.00	100.60	100.60	17.80	0.00	100.80	99.50	18.30	0.00	98.00	97.40	
4	5.90	0.00	99.30	100.00	100.40	100.30	16.10	0.00	100.80	99.50	17.50	0.00	98.20	97.50	
5	6.00	0.00	99.30	100.00	100.40	100.20	16.70	0.00	100.80	99.40	19.60	0.00	98.10	97.50	
6	6.10	0.00	99.30	99.80	100.30	100.00	16.70	0.00	100.80	99.40	16.50	0.00	98.00	97.30	
7	8.20	0.00	99.40	99.80	100.20	99.90	17.80	0.00	100.80	99.30	15.40	0.00	97.90	97.20	
8	8.40	0.00	99.30	99.80	100.30	99.90	27.40	0.00	100.90	100.30	20.50	0.00	97.70	97.00	
9	8.30	0.00	99.20	99.90	100.60	99.80	30.20	0.00	100.80	99.80	27.50	0.00	97.50	97.40	
10	8.40	0.00	99.40	100.00	100.90	100.00	30.50	0.00	100.80	99.50	30.60	0.00	97.50	97.10	
11	8.30	0.00	99.30	100.20	101.00	100.20	31.20	0.00	100.70	99.40	32.30	0.00	97.30	96.90	
12	8.40	0.00	99.10	100.40	100.90	100.30	32.60	0.00	100.50	99.20	34.40	0.00	97.30	96.80	
13	8.30	0.00	99.20	100.50	101.20	100.40	32.80	0.00	100.50	99.30	32.90	0.00	97.40	97.00	
14	8.40	0.00	99.10	100.50	101.20	100.50	32.90	0.00	100.40	99.30	32.80	0.00	97.30	97.00	
15	8.30	0.00	99.00	100.80	101.40	100.60	34.60	0.00	100.60	99.40	34.40	0.00	97.50	96.90	
16	8.40	0.00	99.00	100.80	101.20	100.70	31.70	0.00	100.40	99.50	30.90	0.00	97.70	97.00	
17	8.30	0.00	99.00	101.10	101.10	100.90	29.60	0.00	100.40	99.40	28.90	0.00	97.60	97.00	
18	8.40	0.00	99.00	101.00	101.00	100.90	28.90	0.00	100.40	99.10	27.60	0.00	97.50	97.00	
19	8.30	0.00	98.90	100.90	100.70	100.70	30.30	0.00	100.40	99.20	27.60	0.00	97.60	96.90	
20	8.00	0.00	98.90	100.50	100.50	100.40	28.30	0.00	100.40	99.10	28.40	0.00	97.50	96.90	
21	6.00	0.00	98.90	100.40	100.30	100.30	18.00	0.00	100.40	99.10	33.10	0.00	97.50	96.90	
22	5.90	0.00	99.10	100.30	100.20	100.10	17.50	0.00	100.30	98.60	38.50	0.00	97.50	96.90	
23	6.00	0.00	99.10	100.20	100.30	100.00	17.40	0.00	100.40	98.70	28.80	0.00	97.50	96.90	
24	5.90	0.00	99.20	100.00	100.20	99.90	17.30	0.00	100.40	98.70	14.80	0.00	97.40	96.90	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO				
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. WA FB	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB				
1	31.80	0.00	100.40	98.60	0.00	101.10	100.90	93.40	0.00	104.00	102.10	101.80	101.70			
2	30.10	0.00	100.30	98.60	0.00	101.00	100.60	88.10	0.00	104.00	102.00	101.60	101.40			
3	17.20	0.00	100.50	98.40	0.00	101.10	100.70	89.30	0.00	104.10	101.90	101.80	101.10			
4	18.10	0.00	100.10	98.20	0.00	101.20	100.80	87.90	0.00	103.80	102.00	101.60	100.90			
5	19.50	0.00	100.20	98.20	0.00	100.90	100.60	85.30	0.00	103.80	102.30	101.50	100.70			
6	16.50	0.00	100.20	98.20	0.00	100.30	100.60	80.60	0.00	103.30	102.30	101.20	100.70			
7	16.50	0.00	99.90	98.00	0.00	99.80	101.20	54.60	0.00	102.70	102.20	101.20	100.50			
8	20.00	0.00	99.30	98.00	0.00	99.70	100.50	52.70	0.00	102.70	101.80	100.90	100.40			
9	27.10	0.00	99.40	98.30	0.00	99.80	100.30	52.70	0.00	102.30	101.70	100.90	100.40			
10	29.60	0.00	99.40	98.30	0.00	100.10	101.10	52.70	0.00	102.30	101.70	101.00	100.30			
11	27.50	0.00	99.30	98.20	0.00	100.40	100.70	52.60	0.00	102.20	101.90	101.00	100.30			
12	31.30	0.00	99.40	98.40	0.00	100.40	100.60	61.80	0.00	102.20	101.70	0.00	100.30			
13	28.70	0.00	99.90	98.60	0.00	100.50	101.40	79.80	0.00	102.30	101.90	102.00	100.40			
14	29.20	0.00	100.00	98.80	0.00	100.90	101.30	80.20	0.00	0.00	102.50	102.20	100.70	100.70		
15	28.70	0.00	99.90	98.90	0.00	101.00	101.20	80.20	0.00	102.80	102.60	102.40	100.90			
16	28.40	0.00	99.80	99.10	0.00	0.00	101.80	81.30	0.00	102.90	102.70	102.20	101.20			
17	26.60	0.00	99.90	99.30	0.00	101.70	101.70	93.50	0.00	102.80	102.70	102.10	101.20			
18	26.80	0.00	99.90	99.30	0.00	101.00	101.40	96.20	0.00	102.70	102.80	101.80	101.20			
19	26.50	0.00	100.00	99.40	0.00	22.50	0.00	95.80	0.00	102.50	102.70	101.70	101.10			
20	27.60	0.00	100.00	99.30	0.00	22.50	0.00	97.00	0.00	102.20	102.50	101.50	101.00			
21	33.00	0.00	99.90	99.20	0.00	22.50	0.00	96.20	0.00	102.20	102.40	101.50	100.80			
22	38.30	0.00	99.90	99.20	0.00	22.90	0.00	96.30	0.00	101.90	102.30	101.40	100.60			
23	28.40	0.00	99.90	99.10	0.00	100.70	100.70	96.40	0.00	102.10	102.20	101.30	100.50			
24	16.40	0.00	99.70	99.00	0.00	12.10	0.00	95.60	0.00	102.00	102.10	101.40	100.30			

09 SEP 2003

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

09 SEP 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	LOWER GRANITE	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.		
1	6.00	0.00	99.20	99.90	100.10	99.80	17.50	0.00	100.40	98.70	14.50	0.00	97.50	96.90	
2	5.90	0.00	99.20	99.90	100.10	99.50	19.20	0.00	100.20	98.60	14.30	0.00	97.40	96.90	
3	6.00	0.00	99.20	99.90	100.00	99.40	17.80	0.00	100.20	98.90	14.30	0.00	97.20	96.80	
4	5.90	0.00	99.20	99.90	99.90	99.30	27.60	0.00	100.10	100.10	14.40	0.00	97.20	96.80	
5	6.00	0.00	99.40	100.00	100.10	99.20	27.20	0.00	100.30	99.40	14.40	0.00	97.10	96.90	
6	6.10	0.00	99.40	100.00	99.90	99.10	27.50	0.00	100.30	99.40	14.40	0.00	97.20	96.90	
7	8.30	0.00	99.50	100.10	100.10	99.10	27.60	0.00	100.40	99.50	14.40	0.00	97.30	96.80	
8	8.30	0.00	99.60	100.20	100.20	99.40	27.60	0.00	100.40	99.50	17.70	0.00	97.20	96.80	
9	8.30	0.00	99.50	100.70	100.70	100.00	27.60	0.00	100.60	99.60	16.40	0.00	97.20	96.90	
10	8.50	0.00	99.60	101.20	101.50	100.80	27.70	0.00	100.50	99.80	17.80	0.00	97.20	97.20	
11	8.30	0.00	100.00	101.80	102.10	101.70	27.60	0.00	100.70	99.80	16.40	0.00	97.30	97.20	
12	8.50	0.00	0.00	102.00	102.70	102.70	27.60	0.00	101.00	99.90	16.30	0.00	97.20	97.50	
13	8.30	0.00	100.40	102.50	103.40	103.10	28.20	0.00	101.50	100.00	16.90	0.00	97.40	97.50	
14	8.50	0.00	100.30	102.50	103.90	103.60	27.80	0.00	101.70	100.00	22.70	0.00	97.60	97.70	
15	8.30	0.00	100.20	102.40	103.60	103.50	29.50	0.00	101.60	100.10	20.50	0.00	97.60	97.60	
16	8.30	0.00	99.90	102.40	102.80	103.30	27.80	0.00	101.50	100.10	19.00	0.00	97.40	97.50	
17	8.40	0.00	99.70	102.30	102.50	103.10	18.30	0.00	101.60	100.30	19.20	0.00	97.40	97.70	
18	8.30	0.00	99.60	101.90	102.00	102.70	17.70	0.00	101.50	99.70	19.10	0.00	97.50	97.50	
19	8.50	0.00	99.40	101.60	101.80	102.50	17.70	0.00	101.50	99.50	19.20	0.00	97.60	97.50	
20	7.80	0.00	99.30	101.30	101.30	101.80	17.60	0.00	101.30	99.40	19.20	0.00	97.30	97.30	
21	5.90	0.00	99.30	100.90	100.80	101.40	17.60	0.00	100.90	99.20	20.50	0.00	97.00	97.20	
22	6.00	0.00	99.20	6443.50	100.60	101.00	17.80	0.00	100.70	99.10	19.00	0.00	96.80	96.90	
23	5.90	0.00	99.10	100.30	100.50	100.60	17.50	0.00	100.70	99.10	19.10	0.00	96.70	96.80	
24	5.90	0.00	99.10	100.20	100.40	100.50	16.70	0.00	100.50	99.10	18.80	0.00	96.70	96.70	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	MCNARY	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	PASCO	
1	13.90	0.00	99.70	98.80	0.00	99.90	100.60	78.00	0.00	101.50	102.30	101.20	0.00	100.20	
2	14.00	0.00	99.60	98.80	11.60	0.00	99.30	100.70	81.40	0.00	101.00	102.20	101.20	0.00	100.00
3	14.00	0.00	99.60	99.00	11.40	0.00	98.90	100.50	88.20	0.00	101.60	102.20	101.20	0.00	99.90
4	14.30	0.00	99.50	99.00	11.40	0.00	98.80	100.70	85.10	0.00	101.50	102.30	101.10	0.00	99.60
5	14.10	0.00	99.40	98.90	11.60	0.00	98.90	100.90	122.60	0.00	102.00	102.20	101.20	0.00	99.50
6	14.00	0.00	99.60	98.90	11.50	0.00	98.90	101.00	120.30	0.00	101.60	102.30	101.10	0.00	99.50
7	14.00	0.00	99.50	98.90	11.40	0.00	99.40	101.10	122.60	0.00	101.60	102.10	101.10	0.00	99.40
8	16.00	0.00	99.60	98.90	12.90	0.00	98.80	101.10	122.60	0.00	101.80	102.20	101.10	0.00	99.20
9	16.40	0.00	99.60	99.10	11.40	0.00	98.70	101.20	86.70	0.00	101.50	102.00	101.00	0.00	99.30
10	16.20	0.00	99.60	99.10	11.40	0.00	99.10	101.40	82.90	0.00	101.10	102.00	101.00	0.00	99.50
11	16.20	0.00	99.80	99.30	11.40	0.00	99.10	101.50	83.10	0.00	100.70	102.00	101.00	0.00	99.70
12	16.20	0.00	99.90	99.50	11.40	0.00	99.20	102.40	79.30	0.00	101.00	101.90	101.00	0.00	99.90
13	17.70	0.00	100.20	99.80	11.30	0.00	99.40	102.60	72.80	0.00	100.90	101.90	101.00	0.00	100.20
14	16.50	0.00	100.20	99.80	11.30	0.00	100.20	102.20	68.00	0.00	100.70	102.00	101.10	0.00	100.50
15	17.70	0.00	100.30	99.80	12.80	0.00	101.20	102.10	67.70	0.00	101.30	102.00	101.10	0.00	100.70
16	16.20	0.00	99.80	100.10	12.80	0.00	100.40	102.30	67.70	0.00	101.00	101.70	101.20	0.00	101.00
17	16.20	0.00	99.40	99.90	11.40	0.00	100.20	102.20	67.30	0.00	100.90	101.50	101.30	0.00	101.10
18	16.30	0.00	99.90	100.00	11.20	0.00	100.50	102.00	67.20	0.00	101.60	101.50	101.20	0.00	101.00
19	18.50	0.00	99.60	99.80	13.20	0.00	100.30	102.50	67.50	0.00	101.40	101.50	101.00	0.00	101.10
20	26.40	0.00	99.40	99.50	23.40	0.00	101.10	101.50	68.00	0.00	101.10	101.30	100.60	0.00	101.10
21	27.90	0.00	99.20	99.60	32.00	0.00	101.70	101.40	78.70	0.00	101.50	101.20	100.40	0.00	100.90
22	27.70	0.00	98.80	99.30	34.50	0.00	101.20	101.40	78.50	0.00	101.20	101.00	100.30	0.00	100.90
23	27.80	0.00	99.20	98.90	32.00	0.00	101.20	101.00	77.20	0.00	100.90	101.10	100.10	0.00	100.70
24	27.50	0.00	99.70	98.80	32.00	0.00	100.80	100.70	76.00	0.00	100.70	101.00	100.00	0.00	100.50

10 SEP 2003

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

10 SEP 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.			
1	6.00	0.00	99.00	100.10	100.10	100.10	14.80	0.00	100.30	99.50	15.00	0.00	96.50	96.50	
2	5.90	0.00	99.00	100.00	100.10	100.00	14.80	0.00	100.10	98.80	14.80	0.00	96.50	96.50	
3	6.00	0.00	98.90	99.90	99.80	99.80	14.80	0.00	100.00	98.70	14.80	0.00	96.30	96.40	
4	6.00	0.00	98.80	99.80	99.80	99.50	17.00	0.00	100.00	98.40	14.90	0.00	96.30	96.30	
5	5.90	0.00	98.90	99.80	99.80	99.30	17.70	0.00	99.80	98.50	19.70	0.00	96.10	96.20	
6	6.10	0.00	98.90	99.60	99.70	99.10	27.60	0.00	99.70	99.80	20.70	0.00	96.00	96.20	
7	8.40	0.00	98.80	99.50	99.70	99.00	28.10	0.00	99.60	98.80	27.80	0.00	95.90	96.70	
8	8.30	0.00	98.80	99.60	99.80	99.10	29.70	0.00	99.60	98.70	25.90	0.00	95.90	96.60	
9	8.30	0.00	98.70	99.90	100.40	99.50	27.90	0.00	99.50	98.70	25.90	0.00	95.90	96.20	
10	8.50	0.00	98.80	100.50	100.90	100.20	27.90	0.00	99.80	98.70	25.90	0.00	96.00	96.30	
11	8.30	0.00	99.00	101.20	101.40	101.20	28.00	0.00	99.90	98.60	25.80	0.00	95.80	96.40	
12	8.30	0.00	99.00	101.70	102.00	102.30	28.10	0.00	100.30	98.80	21.30	0.00	95.80	96.20	
13	8.50	0.00	99.10	102.10	102.60	103.40	28.00	0.00	100.20	98.80	20.70	0.00	95.80	96.40	
14	8.30	0.00	99.10	102.50	102.90	103.70	28.20	0.00	100.20	98.80	22.00	0.00	95.70	96.30	
15	8.50	0.00	99.20	102.40	103.20	103.60	28.60	0.00	99.90	98.80	18.30	0.00	95.70	96.40	
16	8.30	0.00	98.90	102.50	102.60	103.20	28.20	0.00	99.70	98.60	19.50	0.00	95.80	96.40	
17	8.30	0.00	98.70	102.30	101.90	102.80	27.10	0.00	99.70	98.50	18.10	0.00	95.60	96.40	
18	8.50	0.00	98.70	102.00	101.40	102.50	17.60	0.00	99.50	98.40	18.00	0.00	95.60	96.30	
19	8.30	0.00	98.60	101.80	100.90	102.10	17.70	0.00	99.40	98.50	18.30	0.00	95.60	96.30	
20	7.80	0.00	98.50	101.30	100.60	101.60	17.70	0.00	99.40	98.30	21.00	0.00	95.50	96.10	
21	6.00	0.00	98.60	101.00	100.30	101.30	17.40	0.00	99.20	97.80	20.80	0.00	95.50	95.90	
22	5.90	0.00	98.60	100.70	100.10	101.10	19.20	0.00	99.30	98.20	21.00	0.00	95.50	95.90	
23	5.90	0.00	98.60	100.50	100.10	100.80	17.40	0.00	99.20	98.10	20.90	0.00	95.50	95.90	
24	6.10	0.00	98.60	100.40	100.00	100.60	17.50	0.00	99.20	97.70	19.80	0.00	95.50	95.80	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT
1	22.40	0.00	99.60	98.70	32.20	0.00	100.50	100.40	78.70	0.00	100.60	100.80	100.00	0.00	100.50
2	14.80	0.00	99.50	98.40	27.00	0.00	100.00	100.30	80.40	0.00	100.40	100.60	99.80	0.00	100.30
3	16.00	0.00	99.40	98.50	25.90	0.00	99.60	100.20	83.70	0.00	99.30	100.60	99.90	0.00	100.10
4	14.80	0.00	99.20	98.70	22.20	0.00	98.90	100.10	100.90	0.00	99.50	100.60	99.90	0.00	99.90
5	14.60	0.00	99.00	98.40	22.80	0.00	98.70	100.20	107.20	0.00	99.80	100.50	99.90	0.00	99.70
6	18.30	0.00	98.80	98.40	23.50	0.00	98.70	100.10	115.80	0.00	99.90	100.30	99.70	0.00	99.50
7	19.70	0.00	98.60	98.30	22.70	0.00	98.70	100.00	117.20	0.00	99.90	100.20	99.90	0.00	99.30
8	20.40	0.00	98.50	98.10	22.20	0.00	98.30	100.00	106.40	0.00	99.60	100.20	99.90	0.00	99.30
9	21.40	0.00	98.50	98.10	22.30	0.00	98.40	100.20	84.10	0.00	99.50	100.10	99.60	0.00	99.30
10	21.00	0.00	98.30	98.30	23.80	0.00	98.50	101.20	85.80	0.00	99.30	100.10	99.70	0.00	99.40
11	21.00	0.00	98.40	98.60	22.30	0.00	98.40	100.70	86.80	0.00	99.70	100.40	99.90	0.00	99.70
12	21.00	0.00	98.20	98.90	22.80	0.00	98.40	100.80	86.20	0.00	99.70	100.30	100.00	0.00	100.10
13	21.00	0.00	98.30	99.00	23.90	0.00	98.40	101.00	86.50	0.00	100.00	100.50	100.20	0.00	100.50
14	21.20	0.00	98.10	99.10	22.30	0.00	98.30	100.70	85.00	0.00	100.00	100.40	100.00	0.00	100.70
15	20.90	0.00	98.20	99.10	17.60	0.00	98.30	100.30	78.40	0.00	99.80	100.40	100.10	0.00	100.90
16	21.10	0.00	98.00	99.00	15.80	0.00	98.30	100.30	78.40	0.00	99.40	100.40	99.90	0.00	101.20
17	18.80	0.00	98.00	98.80	17.70	0.00	98.20	100.60	78.70	0.00	99.80	100.40	99.80	0.00	101.40
18	19.50	0.00	98.00	98.60	15.80	0.00	98.10	100.10	78.30	0.00	99.80	100.00	99.50	0.00	101.20
19	22.10	0.00	97.70	98.40	16.20	0.00	97.90	99.70	79.00	0.00	99.60	99.80	99.30	0.00	101.20
20	20.90	0.00	97.70	98.40	21.20	0.00	98.30	100.20	79.20	0.00	99.60	99.70	99.20	0.00	101.00
21	22.50	0.00	97.80	98.40	21.10	0.00	98.50	99.40	78.50	0.00	99.00	99.50	99.20	0.00	100.90
22	22.50	0.00	97.70	98.10	21.50	0.00	98.50	99.30	78.50	0.00	99.10	99.50	99.10	0.00	100.70
23	21.00	0.00	97.70	98.10	21.20	0.00	98.60	99.70	78.60	0.00	99.10	99.60	98.90	0.00	100.70
24	21.30	0.00	97.40	97.90	22.70	0.00	98.60	99.10	68.90	0.00	99.00	99.50	98.80	0.00	100.50

11 SEP 2003

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

11 SEP 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.			
1	6.00	0.00	98.60	100.40	100.00	100.50	17.30	0.00	99.10	97.60	15.90	0.00	95.40	95.80	
2	6.00	0.00	98.60	100.20	99.80	100.30	15.00	0.00	99.20	97.70	14.30	0.00	95.40	95.60	
3	6.10	0.00	98.60	100.30	99.90	100.10	14.80	0.00	99.00	97.60	14.20	0.00	95.20	95.50	
4	6.00	0.00	98.60	100.30	99.70	99.90	14.80	0.00	99.10	97.60	14.20	0.00	95.20	95.50	
5	6.00	0.00	98.60	100.20	99.70	99.60	14.80	0.00	99.00	97.60	14.30	0.00	95.20	95.50	
6	6.10	0.00	98.60	100.10	99.70	99.50	17.20	0.00	98.90	97.40	19.50	0.00	95.20	95.40	
7	8.40	0.00	98.70	100.20	99.90	99.30	17.90	0.00	98.80	97.50	19.80	0.00	95.10	95.50	
8	8.30	0.00	98.60	100.30	100.00	99.60	28.30	0.00	98.80	98.70	19.70	0.00	95.00	95.30	
9	8.30	0.00	98.60	100.50	100.30	100.10	28.00	0.00	98.90	98.30	19.80	0.00	94.80	95.30	
10	8.50	0.00	98.70	100.80	100.70	100.50	28.00	0.00	99.00	97.90	19.70	0.00	94.70	95.50	
11	8.30	0.00	98.80	101.10	101.10	101.40	28.10	0.00	98.90	97.80	19.70	0.00	94.70	95.70	
12	8.30	0.00	99.00	101.40	101.50	102.10	18.50	0.00	98.90	98.00	17.20	0.00	94.80	95.80	
13	8.50	0.00	99.10	101.70	101.70	102.90	16.80	0.00	98.50	98.10	17.10	0.00	94.90	95.90	
14	8.30	0.00	99.20	102.00	102.60	103.20	16.80	0.00	98.70	98.00	18.50	0.00	95.00	96.10	
15	8.30	0.00	99.10	102.10	102.60	103.30	16.80	0.00	99.00	98.10	17.50	0.00	95.20	96.20	
16	8.50	0.00	99.10	102.50	102.40	103.40	16.70	0.00	98.90	98.00	17.10	0.00	95.50	96.80	
17	8.30	0.00	99.10	102.70	101.80	103.20	17.00	0.00	99.10	98.10	17.10	0.00	95.80	96.90	
18	8.30	0.00	99.10	102.60	101.60	102.90	19.40	0.00	99.20	99.50	17.00	0.00	95.70	96.80	
19	8.50	0.00	99.10	102.20	101.40	102.70	30.30	0.00	99.00	99.40	17.50	0.00	95.90	96.70	
20	7.80	0.00	99.10	101.80	101.10	102.20	33.40	0.00	98.90	98.80	32.10	0.00	96.10	98.00	
21	5.70	0.00	99.00	101.50	100.80	101.80	33.20	0.00	98.90	98.50	32.90	0.00	96.20	97.00	
22	4.40	0.00	99.20	101.30	100.50	101.50	33.50	0.00	99.10	98.30	34.30	0.00	96.30	96.70	
23	2.50	0.00	99.50	100.90	100.40	101.30	28.90	0.00	99.20	98.10	31.20	0.00	96.30	96.60	
24	2.40	0.00	99.70	100.60	100.30	101.10	18.10	0.00	99.00	97.80	28.20	0.00	96.10	96.50	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT
1	21.00	0.00	97.60	97.80	0.00	98.50	98.90	67.90	0.00	99.00	99.40	98.70	100.20		
2	21.00	0.00	97.50	97.60	21.20	0.00	98.00	99.20	68.80	0.00	99.00	99.40	98.80		99.90
3	20.90	0.00	97.50	97.40	21.50	0.00	97.80	99.00	67.80	0.00	98.80	99.30	98.80		99.70
4	21.40	0.00	97.50	97.40	22.70	0.00	98.20	99.50	67.90	0.00	98.70	99.20	98.60		99.60
5	21.00	0.00	97.30	97.40	21.50	0.00	98.50	98.70	68.50	0.00	98.70	99.20	98.40		99.50
6	21.10	0.00	97.10	97.30	22.90	0.00	98.30	98.70	78.00	0.00	98.70	99.30	98.50		99.40
7	21.10	0.00	97.00	97.20	21.60	0.00	98.10	98.80	77.70	0.00	98.80	99.30	98.50		99.40
8	25.10	0.00	97.20	97.30	28.10	0.00	98.40	99.30	69.70	0.00	98.50	99.00	98.40		99.30
9	29.20	0.00	97.10	98.90	26.40	0.00	98.20	98.80	68.70	0.00	98.50	99.20	98.50		99.50
10	27.20	0.00	97.10	99.30	26.30	0.00	98.10	99.40	57.80	0.00	98.50	99.20	98.70		99.60
11	28.60	0.00	97.30	98.70	26.10	0.00	98.50	99.20	57.50	0.00	98.50	99.30	99.20		99.90
12	19.60	0.00	97.40	98.60	18.20	0.00	98.00	99.40	57.50	0.00	98.50	99.20	99.50		100.20
13	18.40	0.00	97.60	98.10	16.10	0.00	97.60	99.60	57.20	0.00	98.40	99.00	99.60		100.60
14	17.20	0.00	97.70	98.90	12.50	0.00	97.70	99.80	57.00	0.00	99.20	99.00	99.60		101.00
15	16.80	0.00	97.80	99.00	10.80	0.00	97.70	100.20	56.90	0.00	99.40	99.20	99.60		101.30
16	18.40	0.00	97.70	98.50	10.70	0.00	97.60	101.10	56.90	0.00	99.10	99.10	99.50		101.70
17	17.30	0.00	98.00	99.30	12.20	0.00	97.90	100.40	63.50	0.00	99.20	99.20	99.50		102.00
18	16.90	0.00	98.00	99.10	10.90	0.00	97.90	101.30	60.80	0.00	99.10	99.20	99.50		102.20
19	16.80	0.00	98.00	101.00	12.30	0.00	97.60	100.00	58.40	0.00	99.00	99.20	99.40		102.10
20	20.30	0.00	97.70	98.50	11.00	0.00	97.30	99.60	62.10	0.00	99.00	99.10	99.10		101.90
21	30.90	0.00	97.40	97.80	15.80	0.00	97.20	100.00	63.40	0.00	98.90	98.80	98.80		101.90
22	31.30	0.00	97.50	97.30	17.90	0.00	97.60	100.10	57.00	0.00	98.80	98.80	98.70		101.50
23	31.90	0.00	97.40	97.10	16.10	0.00	97.40	99.10	57.10	0.00	98.80	98.70	98.60		101.10
24	27.60	0.00	97.30	96.90	16.00	0.00	96.90	98.80	58.30	0.00	98.60	98.70	98.40		100.80

12 SEP 2003

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

12 SEP 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.			
1	2.50	0.00	99.60	100.40	100.40	100.80	17.50	0.00	98.80	97.90	21.30	0.00	96.00	96.20	
2	2.50	0.00	99.60	100.20	100.40	100.60	17.80	0.00	98.70	97.70	14.90	0.00	95.90	96.30	
3	2.40	0.00	99.50	100.00	100.10	100.20	15.10	0.00	98.50	97.60	13.90	0.00	95.80	96.00	
4	2.50	0.00	99.30	99.90	99.90	100.00	15.00	0.00	98.40	97.40	13.90	0.00	95.60	95.70	
5	2.40	0.00	99.20	99.90	99.50	99.70	14.90	0.00	98.20	97.20	13.90	0.00	95.50	95.60	
6	2.80	0.00	99.10	99.80	99.10	99.50	14.90	0.00	98.10	97.10	14.60	0.00	95.40	95.50	
7	5.00	0.00	100.90	99.60	99.00	99.00	14.80	0.00	97.70	96.90	14.50	0.00	95.50	95.40	
8	5.90	0.00	99.70	99.40	99.30	98.90	14.80	0.00	97.70	96.70	14.60	0.00	95.20	95.30	
9	5.90	0.00	98.90	99.60	99.70	99.80	16.50	0.00	97.40	97.60	14.60	0.00	95.10	95.40	
10	6.00	0.00	98.90	99.90	101.00	100.90	15.00	0.00	97.50	97.50	14.70	0.00	95.10	95.50	
11	5.90	0.00	98.90	100.30	101.40	102.10	15.10	0.00	97.80	97.20	14.70	0.00	94.90	95.60	
12	5.90	0.00	99.00	101.10	101.70	103.20	14.80	0.00	98.30	97.30	14.50	0.00	95.00	95.60	
13	6.10	0.00	99.10	101.80	102.20	104.20	16.50	0.00	97.90	97.60	14.50	0.00	95.10	95.70	
14	5.90	0.00	99.20	102.20	102.50	105.00	14.80	0.00	97.90	98.10	14.50	0.00	95.00	95.70	
15	5.90	0.00	99.20	102.40	103.10	105.20	15.00	0.00	97.90	97.50	14.50	0.00	95.10	95.80	
16	6.00	0.00	99.10	102.40	103.10	104.80	26.70	0.00	97.80	98.60	14.60	0.00	95.10	95.80	
17	5.90	0.00	98.80	102.10	102.90	104.40	29.40	0.00	97.30	97.80	14.90	0.00	95.10	95.70	
18	5.90	0.00	98.60	101.90	102.40	103.90	27.70	0.00	97.70	97.10	27.00	0.00	95.20	95.90	
19	6.10	0.00	98.30	101.30	101.80	102.90	28.30	0.00	97.70	97.00	31.00	0.00	95.20	95.70	
20	5.90	0.00	98.10	100.70	101.00	101.90	27.70	0.00	97.70	96.90	31.20	0.00	95.30	95.40	
21	5.60	0.00	98.00	100.40	100.40	101.10	28.00	0.00	97.60	96.90	31.30	0.00	95.30	95.40	
22	4.30	0.00	98.10	100.10	99.80	100.40	34.00	0.00	97.60	97.00	36.30	0.00	95.30	95.30	
23	2.50	0.00	98.40	99.90	99.40	100.10	34.30	0.00	97.50	96.90	36.00	0.00	95.30	95.30	
24	2.40	0.00	98.60	99.90	99.00	99.90	30.70	0.00	97.20	97.00	25.40	0.00	95.30	95.10	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT
1	23.00	0.00	97.20	97.40	0.00	96.70	98.60	58.00	0.00	98.50	98.60	98.30	0.00	100.40	
2	14.60	0.00	97.10	96.70	13.40	0.00	96.60	98.90	57.40	0.00	98.30	98.50	98.00	0.00	100.10
3	13.90	0.00	97.10	96.70	15.50	0.00	96.90	98.60	60.90	0.00	98.00	98.40	97.80	0.00	99.70
4	14.10	0.00	97.00	96.40	15.10	0.00	97.30	98.30	69.30	0.00	97.90	98.30	97.70	0.00	99.40
5	13.80	0.00	96.90	96.30	14.70	0.00	97.10	98.20	75.90	0.00	97.90	98.10	97.60	0.00	99.10
6	13.90	0.00	96.60	96.00	15.00	0.00	96.80	98.10	84.00	0.00	98.00	98.10	97.70	0.00	98.90
7	13.80	0.00	96.60	95.90	14.00	0.00	96.40	99.00	83.90	0.00	98.00	97.90	98.20	0.00	98.70
8	13.90	0.00	96.50	95.80	14.30	0.00	96.00	99.20	83.30	0.00	97.90	98.00	97.90	0.00	98.70
9	14.00	0.00	96.50	95.80	14.10	0.00	96.30	98.30	78.10	0.00	97.80	98.00	97.90	0.00	98.80
10	14.60	0.00	96.50	96.10	15.60	0.00	96.40	98.20	77.30	0.00	98.10	97.90	98.10	0.00	99.00
11	14.40	0.00	96.40	96.60	14.10	0.00	96.10	98.60	78.30	0.00	98.10	97.90	98.30	0.00	99.30
12	14.40	0.00	96.40	96.80	14.10	0.00	96.30	98.90	76.30	0.00	98.00	98.00	98.30	0.00	99.60
13	14.40	0.00	96.40	97.00	14.30	0.00	96.20	99.60	67.90	0.00	97.90	97.80	98.40	0.00	100.20
14	14.40	0.00	96.30	97.10	14.10	0.00	96.00	99.90	59.80	0.00	99.10	97.90	98.40	0.00	100.80
15	14.70	0.00	96.20	97.10	14.10	0.00	95.90	99.70	58.20	0.00	99.40	97.90	98.40	0.00	101.10
16	15.90	0.00	96.60	97.10	15.60	0.00	95.90	99.60	59.10	0.00	99.60	98.10	98.50	0.00	101.50
17	17.10	0.00	96.10	101.40	14.20	0.00	97.20	99.60	58.00	0.00	100.00	98.00	98.40	0.00	101.80
18	14.40	0.00	96.10	107.20	16.90	0.00	97.60	99.40	58.40	0.00	99.90	98.00	98.50	0.00	101.70
19	16.10	0.00	96.20	101.10	18.30	0.00	97.40	99.10	57.90	0.00	99.90	98.00	98.50	0.00	101.30
20	14.30	0.00	96.20	98.90	16.90	0.00	96.90	99.10	58.50	0.00	99.60	97.80	98.30	0.00	101.30
21	14.70	0.00	96.30	97.20	17.30	0.00	96.60	98.10	57.40	0.00	98.10	98.00	98.10	0.00	100.90
22	27.00	0.00	96.30	96.70	25.90	0.00	97.40	98.30	57.30	0.00	98.10	97.80	97.90	0.00	100.50
23	37.70	0.00	96.40	96.60	33.40	0.00	97.30	98.30	57.90	0.00	99.00	97.80	97.70	0.00	100.40
24	37.60	0.00	96.10	95.90	33.50	0.00	97.00	97.90	58.70	0.00	98.40	97.70	97.80	0.00	100.40

13 SEP 2003

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

13 SEP 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	LOWER GRANITE	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.		
1	2.40	0.00	98.60	99.80	98.50	99.70	17.80	0.00	97.20	96.70	26.30	0.00	95.20	95.00	
2	2.40	0.00	98.40	99.70	98.30	99.30	17.70	0.00	97.20	97.50	20.60	0.00	95.20	94.80	
3	2.40	0.00	98.30	99.70	98.40	99.20	17.70	0.00	97.20	96.90	19.10	0.00	95.10	94.90	
4	2.50	0.00	98.30	99.70	98.30	98.90	17.90	0.00	96.90	96.80	19.10	0.00	95.10	95.10	
5	2.40	0.00	98.30	99.50	98.00	98.60	17.50	0.00	96.90	96.70	19.10	0.00	95.10	95.10	
6	2.90	0.00	98.20	99.40	97.60	98.40	17.50	0.00	96.90	96.50	19.20	0.00	94.90	95.00	
7	4.90	0.00	99.90	99.40	97.70	98.10	17.40	0.00	96.60	96.30	19.10	0.00	94.80	94.90	
8	6.00	0.00	98.80	99.30	98.20	98.20	17.50	0.00	96.60	96.30	18.50	0.00	94.80	94.90	
9	5.90	0.00	98.10	99.60	98.50	99.10	17.50	0.00	96.90	96.30	18.20	0.00	94.80	95.00	
10	6.00	0.00	98.10	100.10	99.90	100.30	19.10	0.00	97.20	96.20	18.30	0.00	94.80	95.20	
11	5.90	0.00	98.40	100.70	100.50	101.80	17.40	0.00	97.50	97.10	18.30	0.00	94.80	95.20	
12	5.90	0.00	98.70	101.30	101.10	103.30	17.60	0.00	97.80	4.20	18.30	0.00	94.80	95.50	
13	6.00	0.00	98.90	102.00	101.70	104.40	19.10	0.00	97.90	96.70	19.70	0.00	95.00	95.70	
14	5.90	0.00	99.00	102.50	102.30	105.20	17.40	0.00	98.10	97.80	18.10	0.00	95.00	95.80	
15	6.00	0.00	99.20	-999.00	103.00	106.00	17.40	0.00	98.50	97.00	16.60	0.00	95.10	96.00	
16	5.90	0.00	99.10	103.50	103.30	106.10	19.10	0.00	99.30	96.80	16.60	0.00	95.00	96.10	
17	6.00	0.00	99.00	103.40	103.20	105.90	17.40	0.00	99.40	97.30	16.60	0.00	95.10	96.20	
18	5.90	0.00	99.00	103.20	102.90	105.40	17.60	0.00	99.30	96.90	16.50	0.00	95.20	96.10	
19	6.00	0.00	98.70	102.70	102.30	104.50	27.00	0.00	99.30	97.30	16.80	0.00	95.30	95.90	
20	5.90	0.00	98.60	102.10	101.60	103.40	30.80	0.00	99.90	97.50	28.80	0.00	95.30	96.00	
21	5.70	0.00	98.40	101.70	100.90	102.40	32.70	0.00	100.10	97.20	39.60	0.00	95.40	96.10	
22	4.30	0.00	98.50	101.30	100.30	101.60	33.20	0.00	100.30	97.20	40.00	0.00	95.50	96.00	
23	2.40	0.00	98.80	100.90	99.90	101.10	33.40	0.00	100.40	97.20	39.10	0.00	95.60	96.00	
24	2.50	0.00	99.10	100.70	99.60	100.70	29.90	0.00	100.30	97.20	33.60	0.00	95.70	96.00	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB	WA TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB	GAS %SAT	
1	36.40	0.00	96.00	95.60	0.00	97.10	97.50	58.90	0.00	98.80	97.70	97.60	0.00	100.20	
2	18.80	0.00	95.90	95.40	31.40	0.00	97.00	97.30	60.30	0.00	99.00	97.70	97.60	0.00	100.00
3	17.90	0.00	96.00	95.50	17.20	0.00	96.50	97.10	70.30	0.00	99.00	97.60	97.60	0.00	100.00
4	17.90	0.00	96.00	95.50	16.80	0.00	96.20	97.00	65.00	0.00	98.90	97.50	97.80	0.00	99.80
5	17.80	0.00	96.00	95.50	16.80	0.00	96.10	97.00	84.00	0.00	98.30	97.50	97.80	0.00	99.70
6	18.30	0.00	95.90	95.40	17.00	0.00	95.90	97.20	76.00	0.00	98.00	97.40	97.60	0.00	99.50
7	18.60	0.00	95.90	95.20	16.20	0.00	95.80	97.20	61.60	0.00	97.70	97.40	97.70	0.00	99.20
8	18.40	0.00	95.90	95.60	18.00	0.00	95.50	97.30	97.70	0.00	97.80	97.40	97.40	0.00	99.10
9	18.50	0.00	95.60	95.20	16.30	0.00	94.70	97.20	101.40	0.00	97.80	97.40	97.40	0.00	99.00
10	21.00	0.00	96.00	95.30	17.60	0.00	94.90	97.50	99.60	0.00	97.60	98.70	97.60	0.00	99.30
11	23.20	0.00	95.90	97.50	16.20	0.00	95.70	98.30	101.90	0.00	99.20	98.90	97.80	0.00	99.50
12	22.40	0.00	95.90	96.40	17.50	0.00	96.40	98.50	98.10	0.00	99.60	98.00	98.00	0.00	100.00
13	20.30	0.00	95.50	96.60	16.50	0.00	96.70	98.60	85.70	0.00	99.10	97.80	98.10	0.00	100.40
14	18.70	0.00	95.60	97.90	16.20	0.00	96.40	99.60	84.20	0.00	98.40	97.60	98.50	0.00	101.00
15	18.70	0.00	96.30	97.10	16.20	0.00	96.00	99.20	86.00	0.00	98.50	97.60	98.50	0.00	101.30
16	20.50	0.00	96.20	97.10	17.70	0.00	95.80	99.70	76.20	0.00	98.80	97.80	98.80	0.00	101.60
17	18.70	0.00	96.50	98.00	16.10	0.00	96.00	0.00	75.50	0.00	98.90	97.80	98.50	0.00	102.00
18	18.60	0.00	96.40	97.10	16.40	0.00	96.10	0.00	76.20	0.00	99.00	98.40	98.50	0.00	101.90
19	20.50	0.00	96.50	96.70	17.70	0.00	98.00	0.00	103.70	0.00	101.80	101.00	98.40	0.00	102.00
20	28.80	0.00	96.40	96.50	27.80	0.00	100.10	0.00	101.50	0.00	101.00	101.20	98.20	0.00	101.90
21	40.20	0.00	96.30	96.20	31.90	0.00	101.00	0.00	93.20	0.00	100.30	100.60	98.20	0.00	101.80
22	40.50	0.00	96.40	96.00	32.00	0.00	100.90	0.00	88.50	0.00	98.90	100.00	98.20	0.00	101.80
23	40.60	0.00	96.20	95.90	32.80	0.00	100.60	0.00	98.70	0.00	98.70	100.20	98.30	0.00	101.60
24	38.90	0.00	96.10	95.70	33.80	0.00	100.20	0.00	79.10	0.00	98.30	100.30	98.30	0.00	101.50

14 SEP 2003

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

14 SEP 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.			
1	2.50	0.00	99.00	100.50	99.20	100.50	17.70	0.00	100.00	97.10	30.30	0.00	95.70	95.80	
2	2.40	0.00	99.00	100.50	99.10	100.10	17.70	0.00	99.90	96.80	24.80	0.00	96.00	95.80	
3	2.50	0.00	98.90	100.60	99.20	99.90	18.60	0.00	99.80	96.80	16.90	0.00	96.00	95.70	
4	2.40	0.00	98.90	100.40	99.10	99.60	16.80	0.00	99.70	97.70	16.60	0.00	95.70	95.70	
5	2.50	0.00	99.00	100.30	98.60	99.30	17.10	0.00	99.60	96.90	17.40	0.00	95.80	95.70	
6	2.80	0.00	98.90	100.30	98.50	98.90	16.80	0.00	99.40	96.70	18.90	0.00	95.80	95.80	
7	4.90	0.00	100.60	100.20	98.40	98.70	16.10	0.00	99.10	96.70	16.30	0.00	95.80	95.80	
8	5.90	0.00	99.70	100.10	98.70	99.00	15.90	0.00	99.00	96.60	18.40	0.00	95.90	95.80	
9	6.10	0.00	99.20	100.40	99.40	99.90	16.00	0.00	99.20	96.80	17.40	0.00	95.80	96.00	
10	5.90	0.00	99.20	100.90	100.70	101.10	17.60	0.00	99.30	97.10	19.10	0.00	96.00	96.40	
11	6.10	0.00	99.50	101.40	101.20	102.50	15.60	0.00	99.50	98.30	14.60	0.00	96.20	96.30	
12	5.90	0.00	99.70	102.10	102.10	103.80	15.00	0.00	99.50	97.60	14.40	0.00	96.30	96.50	
13	5.90	0.00	99.90	102.80	102.60	104.80	16.70	0.00	99.50	98.10	14.50	0.00	96.30	96.80	
14	6.00	0.00	100.00	103.30	103.10	105.70	15.20	0.00	99.60	98.60	14.50	0.00	96.20	96.90	
15	6.10	0.00	100.10	103.90	103.30	105.70	14.90	0.00	100.00	98.30	14.50	0.00	96.50	97.20	
16	5.90	0.00	100.10	104.00	103.40	105.30	15.50	0.00	100.40	98.30	15.80	0.00	96.60	97.30	
17	6.00	0.00	100.00	104.00	103.40	104.70	15.70	0.00	100.40	98.30	14.40	0.00	96.50	97.00	
18	6.00	0.00	99.90	103.80	103.10	104.20	18.00	0.00	100.50	98.30	14.40	0.00	96.40	97.20	
19	6.00	0.00	99.80	103.20	102.60	103.60	27.60	0.00	100.30	99.40	17.20	0.00	96.30	97.00	
20	6.00	0.00	99.60	102.80	102.00	102.60	31.80	0.00	100.30	98.90	20.70	0.00	96.30	97.00	
21	5.70	0.00	99.60	102.40	101.40	101.90	33.20	0.00	100.30	98.70	20.60	0.00	96.60	96.90	
22	4.30	0.00	99.60	102.00	101.10	101.40	17.90	0.00	100.30	98.70	17.40	0.00	96.60	96.80	
23	2.30	0.00	99.90	101.70	100.80	101.20	17.60	0.00	100.40	98.00	17.20	0.00	96.50	96.60	
24	1.60	0.00	100.00	101.30	100.50	100.80	17.60	0.00	100.20	98.10	18.70	0.00	96.60	96.60	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT
1	33.00	0.00	95.80	95.70	0.00	99.70	0.00	88.10	0.00	98.60	100.30	98.40	0.00	101.40	
2	29.20	0.00	96.30	95.60	0.00	99.20	0.00	71.30	0.00	99.10	100.10	98.30	0.00	101.30	
3	30.00	0.00	96.40	95.80	0.00	98.70	0.00	69.00	0.00	99.70	99.60	98.20	0.00	101.30	
4	30.30	0.00	96.20	95.80	0.00	98.10	0.00	67.60	0.00	100.90	99.80	98.10	0.00	101.20	
5	30.50	0.00	96.90	96.80	0.00	97.60	0.00	70.90	0.00	101.00	100.00	98.20	0.00	101.10	
6	28.10	0.00	96.70	95.60	0.00	97.70	0.00	77.90	0.00	100.80	99.80	98.20	0.00	101.00	
7	16.70	0.00	96.60	95.50	0.00	97.50	0.00	83.90	0.00	99.70	99.60	98.20	0.00	100.90	
8	16.70	0.00	96.60	96.00	0.00	97.30	0.00	90.60	0.00	99.10	99.40	98.40	0.00	100.80	
9	16.30	0.00	97.00	96.20	0.00	97.80	0.00	82.80	0.00	98.90	99.70	98.50	0.00	100.90	
10	16.00	0.00	97.20	96.30	0.00	98.40	0.00	77.80	0.00	98.90	99.90	98.90	0.00	101.10	
11	13.80	0.00	97.50	96.90	0.00	98.40	0.00	69.10	0.00	100.10	99.80	99.10	0.00	101.50	
12	13.90	0.00	97.20	97.30	0.00	98.10	0.00	67.20	0.00	101.20	100.60	99.40	0.00	101.80	
13	15.20	0.00	97.20	97.50	0.00	97.90	0.00	66.80	0.00	102.00	100.20	99.70	0.00	102.20	
14	13.70	0.00	97.20	98.70	0.00	97.80	0.00	67.70	0.00	102.50	99.90	100.00	0.00	102.60	
15	13.70	0.00	97.30	98.40	0.00	97.80	0.00	58.40	0.00	103.90	99.90	100.10	0.00	102.70	
16	15.20	0.00	97.40	98.30	0.00	98.20	0.00	70.40	0.00	104.10	100.20	100.00	0.00	102.80	
17	13.90	0.00	97.40	98.30	0.00	98.40	0.00	79.40	0.00	105.40	100.10	99.90	0.00	102.80	
18	13.70	0.00	97.40	97.90	0.00	99.00	0.00	82.10	0.00	104.60	99.90	99.90	0.00	102.90	
19	17.60	0.00	97.40	97.60	0.00	99.90	0.00	86.00	0.00	103.20	99.70	99.80	0.00	103.10	
20	20.80	0.00	97.20	97.40	0.00	100.00	0.00	83.90	0.00	103.00	99.80	99.70	0.00	102.90	
21	21.40	0.00	97.20	97.10	0.00	99.00	0.00	79.30	0.00	102.70	100.90	99.60	0.00	102.90	
22	17.30	0.00	97.20	96.90	0.00	98.40	0.00	71.20	0.00	101.70	100.10	99.50	0.00	102.70	
23	17.10	0.00	97.30	96.80	0.00	98.00	0.00	62.30	0.00	100.70	99.80	99.40	0.00	102.50	
24	16.80	0.00	97.10	96.80	0.00	97.90	0.00	56.50	0.00	102.80	99.50	99.20	0.00	102.30	

15 SEP 2003

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

15 SEP 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.			
1	1.60	0.00	100.20	101.10	99.70	100.50	15.10	0.00	99.90	98.10	13.60	0.00	96.50	96.50	
2	1.60	0.00	102.00	100.90	99.10	100.40	16.90	0.00	99.60	97.90	20.70	0.00	96.30	96.40	
3	1.60	0.00	102.90	100.70	99.00	100.00	17.40	0.00	99.40	97.80	21.40	0.00	96.20	96.40	
4	1.60	0.00	103.20	100.70	99.30	99.90	17.30	0.00	99.20	97.80	21.20	0.00	96.10	96.40	
5	1.60	0.00	103.50	100.60	98.80	99.60	17.50	0.00	98.90	97.80	21.40	0.00	96.10	96.40	
6	1.60	0.00	103.60	100.40	98.40	99.20	15.30	0.00	98.70	97.70	18.00	0.00	96.10	96.20	
7	1.60	0.00	103.70	100.40	98.10	98.90	16.60	0.00	98.50	97.60	17.30	0.00	96.00	96.10	
8	1.60	0.00	104.00	100.40	98.80	99.30	16.60	0.00	98.40	97.60	16.80	0.00	95.90	96.10	
9	1.60	0.00	104.10	100.60	99.90	100.10	16.50	0.00	98.40	97.70	16.80	0.00	95.80	96.30	
10	1.60	0.00	104.60	100.80	101.00	101.60	16.50	0.00	98.40	97.80	16.70	0.00	95.90	96.30	
11	1.60	0.00	105.10	101.50	101.80	103.30	16.60	0.00	98.60	98.00	16.90	0.00	95.90	96.60	
12	1.60	0.00	105.60	102.10	103.40	105.00	17.20	0.00	98.70	98.00	16.80	0.00	96.00	96.70	
13	1.60	0.00	106.20	102.70	105.00	106.40	17.40	0.00	99.10	98.40	16.80	0.00	96.10	96.70	
14	1.60	0.00	106.60	103.30	106.10	107.70	17.40	0.00	99.10	98.50	16.90	0.00	96.20	96.90	
15	1.60	0.00	106.70	103.70	107.30	108.40	17.40	0.00	99.00	98.50	16.90	0.00	96.30	96.90	
16	1.60	0.00	106.80	103.70	108.60	108.10	25.50	0.00	99.10	99.40	21.50	0.00	96.40	97.00	
17	1.60	0.00	106.90	103.60	108.30	107.50	28.20	0.00	99.20	99.60	24.50	0.00	96.60	97.00	
18	1.60	0.00	106.60	103.10	108.50	106.70	32.30	0.00	99.20	99.20	29.70	0.00	96.70	97.00	
19	1.60	0.00	106.30	102.80	107.80	105.50	34.70	0.00	99.30	99.10	37.70	0.00	96.60	97.00	
20	1.60	0.00	106.00	102.20	106.70	104.30	28.90	0.00	99.30	99.10	29.00	0.00	96.60	96.90	
21	1.60	0.00	105.70	101.70	105.40	103.20	17.30	0.00	99.40	105.20	33.90	0.00	96.70	96.70	
22	1.60	0.00	105.30	101.20	103.90	102.20	18.60	0.00	99.40	100.10	33.80	0.00	96.80	96.80	
23	1.60	0.00	105.30	100.90	102.90	101.50	14.70	0.00	99.40	101.20	20.40	0.00	96.80	96.80	
24	1.60	0.00	105.10	100.80	102.10	100.80	14.70	0.00	99.10	100.00	14.20	0.00	96.80	96.70	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT
1	14.10	0.00	97.00	96.60	0.00	97.60	0.00	59.00	0.00	102.50	99.30	99.00	102.10		
2	20.90	0.00	97.30	96.60	0.00	97.90	0.00	58.70	0.00	101.80	99.20	98.80	102.00		
3	21.30	0.00	97.20	96.30	0.00	98.00	0.00	64.00	0.00	101.50	99.40	98.70	101.90		
4	22.60	0.00	97.00	97.40	0.00	98.40	0.00	64.50	0.00	101.20	99.30	98.60	101.70		
5	21.00	0.00	97.00	96.20	0.00	98.30	0.00	70.50	0.00	100.50	99.30	98.70	101.50		
6	17.40	0.00	96.70	96.00	0.00	98.00	0.00	65.60	0.00	100.10	99.20	98.80	101.30		
7	17.00	0.00	96.70	95.90	0.00	97.70	0.00	71.50	0.00	100.10	99.20	98.80	101.00		
8	17.20	0.00	96.60	95.80	0.00	97.50	0.00	70.70	0.00	99.80	99.30	99.10	100.90		
9	16.90	0.00	96.60	96.00	0.00	97.20	0.00	67.60	0.00	98.90	99.10	99.40	100.80		
10	16.90	0.00	96.50	96.50	0.00	97.00	0.00	67.30	0.00	99.40	99.80	99.40	101.00		
11	16.80	0.00	96.70	96.90	0.00	96.80	0.00	67.30	0.00	100.00	100.30	99.40	101.30		
12	18.60	0.00	96.80	97.40	0.00	97.50	0.00	67.10	0.00	100.20	100.00	99.70	101.60		
13	16.80	0.00	96.50	98.10	0.00	98.10	0.00	66.80	0.00	99.90	99.90	99.90	102.00		
14	16.90	0.00	96.80	97.80	0.00	98.10	0.00	67.00	0.00	99.20	99.90	100.10	102.20		
15	16.90	0.00	96.90	98.00	0.00	98.00	0.00	66.70	0.00	99.00	99.90	100.20	102.30		
16	22.70	0.00	97.10	98.00	0.00	98.70	0.00	65.40	0.00	102.40	99.80	100.10	102.40		
17	22.70	0.00	97.10	98.00	0.00	99.80	0.00	66.10	0.00	101.30	100.00	100.20	102.60		
18	36.20	0.00	97.10	98.20	0.00	99.20	0.00	64.50	0.00	100.10	99.80	100.10	102.70		
19	38.90	0.00	97.30	97.40	0.00	103.60	0.00	65.50	0.00	99.50	99.90	100.00	102.70		
20	28.80	0.00	97.10	97.00	0.00	102.80	0.00	67.20	0.00	99.20	99.90	99.80	102.80		
21	34.10	0.00	97.00	97.00	0.00	102.40	0.00	64.70	0.00	98.80	99.90	99.70	102.80		
22	35.40	0.00	98.30	96.80	0.00	102.40	0.00	63.10	0.00	99.90	99.90	99.80	102.80		
23	15.10	0.00	97.80	96.80	0.00	99.50	0.00	60.20	0.00	100.10	100.20	99.80	102.70		
24	14.10	0.00	97.30	97.30	0.00	98.20	0.00	61.00	0.00	99.60	100.30	99.70	102.60		

16 SEP 2003

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

16 SEP 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.			
1	1.60	0.00	105.00	100.80	101.10	100.20	14.60	0.00	98.80	99.70	15.70	0.00	96.90	96.70	
2	1.60	0.00	105.00	100.80	100.40	99.80	14.40	0.00	98.70	99.70	14.30	0.00	96.80	96.50	
3	1.60	0.00	104.90	100.70	100.00	99.20	14.40	0.00	98.50	99.70	14.30	0.00	96.60	96.60	
4	1.60	0.00	104.80	100.60	99.50	98.60	14.60	0.00	98.60	99.40	14.50	0.00	96.60	96.60	
5	1.60	0.00	104.60	100.50	98.90	98.10	17.20	0.00	98.40	99.10	21.00	0.00	96.60	96.60	
6	1.60	0.00	104.60	100.30	98.60	97.80	17.70	0.00	97.80	99.00	17.30	0.00	96.60	96.60	
7	1.60	0.00	104.50	100.20	98.30	97.50	17.60	0.00	97.90	99.00	18.70	0.00	96.50	96.50	
8	1.60	0.00	104.50	100.10	98.40	97.80	27.50	0.00	97.90	100.30	25.70	0.00	96.50	96.80	
9	1.60	0.00	104.60	100.20	99.80	98.70	31.40	0.00	97.90	99.50	25.50	0.00	96.50	96.90	
10	1.60	0.00	104.90	100.30	101.20	99.90	30.80	0.00	98.10	99.20	25.60	0.00	96.40	96.80	
11	1.60	0.00	105.20	100.70	102.50	100.80	30.60	0.00	99.00	99.00	24.90	0.00	96.30	96.60	
12	1.60	0.00	105.70	100.90	103.60	100.80	19.00	0.00	98.80	99.70	17.90	0.00	96.40	96.80	
13	1.60	0.00	105.60	101.30	103.20	101.10	17.70	0.00	98.90	99.50	18.90	0.00	96.30	96.90	
14	1.60	0.00	105.60	101.50	104.20	102.10	17.70	0.00	98.90	99.00	17.60	0.00	96.30	97.00	
15	1.60	0.00	105.90	101.80	104.80	102.70	17.60	0.00	99.00	99.50	17.50	0.00	96.20	97.10	
16	1.60	0.00	106.30	102.10	105.20	103.30	17.50	0.00	99.00	99.80	17.40	0.00	96.20	97.00	
17	1.60	0.00	106.20	101.90	105.40	103.30	19.20	0.00	98.70	99.50	17.40	0.00	96.30	96.90	
18	1.60	0.00	106.00	101.60	105.70	102.70	17.80	0.00	98.40	100.60	17.30	0.00	96.30	96.70	
19	1.60	0.00	105.60	101.30	105.20	101.90	17.40	0.00	98.30	99.30	17.50	0.00	96.10	96.70	
20	1.60	0.00	105.10	100.80	104.20	101.00	19.20	0.00	98.30	99.50	21.90	0.00	96.20	96.60	
21	1.60	0.00	104.80	100.50	103.10	100.10	17.40	0.00	98.20	99.40	21.80	0.00	96.30	96.30	
22	1.60	0.00	104.60	100.20	102.20	99.50	17.40	0.00	98.00	98.70	18.00	0.00	96.00	96.30	
23	1.60	0.00	104.50	100.00	101.40	98.90	17.50	0.00	98.00	98.50	17.90	0.00	96.00	96.30	
24	1.60	0.00	104.40	99.80	100.70	98.60	15.10	0.00	97.80	98.20	16.10	0.00	95.90	96.30	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO				
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT	
1	14.10	0.00	97.20	96.90	0.00	97.80	0.00	61.50	0.00	98.30	100.00	99.50	0.00	102.40		
2	14.30	0.00	97.20	96.60	0.00	97.80	0.00	61.70	0.00	97.70	99.80	99.70	0.00	102.30		
3	20.90	0.00	97.20	96.60	18.20	0.00	97.50	0.00	63.20	0.00	98.70	99.90	99.60	0.00	102.00	
4	22.00	0.00	97.40	96.40	17.00	0.00	97.80	0.00	63.70	0.00	99.20	100.00	99.40	0.00	101.70	
5	21.50	0.00	97.20	96.30	17.00	0.00	97.50	0.00	74.20	0.00	99.00	100.00	99.20	0.00	101.40	
6	16.40	0.00	97.00	96.00	16.20	0.00	97.20	0.00	77.40	0.00	99.20	99.90	99.30	0.00	101.20	
7	17.90	0.00	96.70	96.10	18.00	0.00	96.60	0.00	79.10	0.00	99.40	99.90	99.10	0.00	101.10	
8	27.70	0.00	96.80	96.60	25.40	0.00	97.00	0.00	99.40	0.00	99.10	99.90	99.30	0.00	100.90	
9	26.60	0.00	96.80	96.40	25.00	0.00	97.10	0.00	98.90	0.00	99.30	100.00	99.20	0.00	100.70	
10	27.90	0.00	96.60	96.40	25.00	0.00	97.00	0.00	99.50	0.00	99.30	100.00	99.40	0.00	100.70	
11	26.20	0.00	96.70	96.70	25.00	0.00	97.10	0.00	99.30	0.00	98.90	100.00	99.60	0.00	100.90	
12	18.00	0.00	96.50	97.10	18.40	0.00	97.10	0.00	99.00	0.00	98.90	100.10	99.90	0.00	101.00	
13	17.60	0.00	96.70	97.30	16.90	0.00	97.50	0.00	90.10	0.00	99.00	100.20	99.90	0.00	101.30	
14	17.80	0.00	96.70	97.40	16.90	0.00	97.40	0.00	89.50	0.00	99.10	100.30	100.00	0.00	101.60	
15	17.50	0.00	96.60	97.40	18.30	0.00	97.60	0.00	90.40	0.00	99.10	100.10	100.00	0.00	101.90	
16	17.50	0.00	96.70	97.30	18.70	0.00	97.50	101.60	90.40	0.00	99.10	100.20	100.00	0.00	101.90	
17	17.50	0.00	96.70	97.40	16.80	0.00	97.40	100.00	110.00	0.00	99.30	100.30	99.90	0.00	102.00	
18	17.70	0.00	96.70	97.30	16.80	0.00	97.40	99.80	122.00	0.00	99.30	100.20	99.70	0.00	101.90	
19	17.50	0.00	96.60	96.90	16.90	0.00	97.80	99.80	115.30	0.00	99.40	100.30	99.60	0.00	101.80	
20	20.90	0.00	96.50	96.60	21.50	0.00	98.10	99.10	124.00	0.00	99.40	100.00	99.70	0.00	101.70	
21	21.20	0.00	96.30	96.30	21.20	0.00	98.10	98.80	124.40	0.00	99.40	99.90	99.40	0.00	101.30	
22	21.00	0.00	96.40	96.20	21.20	0.00	97.90	99.20	123.50	0.00	99.20	99.90	99.20	0.00	100.90	
23	21.50	0.00	96.50	96.10	21.20	0.00	97.60	98.70	105.80	0.00	99.20	99.80	99.00	0.00	100.50	
24	21.10	0.00	96.60	95.90	21.10	0.00	97.70	98.30	86.70	0.00	98.90	99.70	98.90	0.00	100.20	

17 SEP 2003

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

17 SEP 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.			
1	1.60	0.00	104.30	99.60	100.20	98.40	14.90	0.00	97.60	98.10	14.70	0.00	95.90	96.10	
2	1.60	0.00	104.20	99.60	99.60	98.20	15.20	0.00	97.50	98.10	14.60	0.00	95.80	96.00	
3	1.60	0.00	104.10	99.40	99.00	98.10	14.90	0.00	97.40	97.90	14.60	0.00	95.70	95.90	
4	1.60	0.00	104.00	99.30	98.70	97.90	14.90	0.00	97.40	97.80	14.60	0.00	95.60	95.90	
5	1.60	0.00	103.90	99.10	98.80	97.90	14.90	0.00	97.30	97.70	14.60	0.00	95.50	95.70	
6	1.60	0.00	103.80	99.10	98.50	97.60	15.00	0.00	97.10	97.50	14.70	0.00	95.40	95.60	
7	1.60	0.00	103.80	99.00	98.30	97.50	14.90	0.00	96.90	97.50	14.70	0.00	95.30	95.60	
8	1.60	0.00	103.80	99.00	98.50	97.80	18.90	0.00	96.90	98.00	17.30	0.00	95.30	95.50	
9	1.60	0.00	103.90	99.10	99.10	98.50	17.30	0.00	96.80	97.70	17.30	0.00	95.20	95.60	
10	1.60	0.00	104.20	99.30	100.20	99.90	17.40	0.00	96.70	97.40	17.50	0.00	95.10	95.50	
11	1.60	0.00	104.60	99.50	101.20	101.20	17.70	0.00	96.90	97.40	17.80	0.00	95.10	95.60	
12	1.60	0.00	104.90	100.00	102.00	102.20	17.40	0.00	96.80	97.50	17.30	0.00	95.10	95.70	
13	1.70	0.00	105.10	100.30	104.20	103.40	17.30	0.00	97.00	97.50	17.40	0.00	95.10	95.80	
14	1.60	0.00	105.10	100.90	104.90	104.10	17.30	0.00	97.00	97.50	17.40	0.00	95.10	95.80	
15	1.60	0.00	105.20	101.30	105.30	104.50	17.30	0.00	97.00	97.50	18.00	0.00	95.10	95.80	
16	1.60	0.00	105.20	101.60	105.70	105.00	17.40	0.00	96.90	97.50	19.00	0.00	95.20	95.90	
17	1.60	0.00	105.00	101.60	105.40	105.00	17.40	0.00	96.80	97.50	18.00	0.00	95.30	96.20	
18	1.60	0.00	104.80	101.60	105.10	104.60	17.40	0.00	96.80	97.40	16.80	0.00	95.30	96.30	
19	1.60	0.00	104.70	101.40	104.90	103.60	19.40	0.00	96.80	98.30	18.10	0.00	95.20	96.60	
20	1.60	0.00	104.30	101.00	103.80	102.30	18.00	0.00	96.70	97.70	16.80	0.00	95.20	96.10	
21	1.60	0.00	104.00	100.70	102.80	101.30	27.60	0.00	96.80	98.20	20.80	0.00	95.00	96.00	
22	1.60	0.00	103.80	100.30	101.30	100.60	27.80	0.00	96.90	97.70	21.00	0.00	95.10	95.80	
23	1.60	0.00	103.70	100.10	100.50	99.90	27.00	0.00	96.90	97.50	21.00	0.00	95.20	95.70	
24	1.60	0.00	103.70	99.90	100.00	99.40	17.60	0.00	96.80	98.70	22.10	0.00	95.10	95.60	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL OR FB	GAS %SAT. WA FB	TAILW.	GAS %SAT	
1	22.60	0.00	96.40	96.20	0.00	97.60	98.30	0.00	98.60	99.60	98.80	0.00	99.70		
2	22.10	0.00	96.20	96.40	0.00	97.50	98.20	0.00	98.30	99.60	98.80	0.00	99.50		
3	14.60	0.00	95.90	95.60	0.00	97.40	98.10	0.00	98.30	99.40	98.70	0.00	99.30		
4	14.40	0.00	95.90	95.30	0.00	97.50	97.90	0.00	98.40	99.20	98.80	0.00	99.00		
5	14.30	0.00	95.90	95.30	0.00	97.30	97.80	0.00	98.30	99.00	99.00	0.00	98.80		
6	14.20	0.00	95.80	95.20	0.00	97.20	98.30	0.00	98.10	99.00	98.60	0.00	98.70		
7	19.40	0.00	95.50	95.20	0.00	97.10	97.60	0.00	97.90	98.80	98.20	0.00	98.60		
8	18.10	0.00	95.80	95.20	0.00	97.00	98.20	0.00	98.80	99.20	98.40	0.00	98.40		
9	18.30	0.00	95.50	95.30	0.00	97.10	97.90	0.00	98.10	98.60	98.30	0.00	98.60		
10	18.00	0.00	95.50	95.50	0.00	97.00	98.00	0.00	98.60	98.60	98.50	0.00	98.70		
11	18.00	0.00	95.50	95.90	0.00	97.10	99.00	0.00	98.90	98.90	98.60	0.00	99.10		
12	19.50	0.00	95.50	96.10	0.00	96.90	98.90	0.00	99.50	99.00	98.60	0.00	99.50		
13	19.50	0.00	95.40	96.50	0.00	97.00	98.50	0.00	99.70	99.00	98.90	0.00	99.90		
14	18.40	0.00	95.50	97.70	0.00	97.30	99.30	0.00	99.70	99.90	99.50	0.00	100.30		
15	19.60	0.00	95.50	98.10	0.00	97.70	98.80	0.00	99.40	99.90	99.90	0.00	100.70		
16	18.00	0.00	95.50	97.00	0.00	97.40	98.70	0.00	99.60	99.00	99.20	0.00	101.10		
17	18.00	0.00	95.40	96.70	0.00	96.70	98.50	0.00	100.00	99.10	98.90	0.00	101.30		
18	17.90	0.00	95.40	96.40	0.00	96.20	98.40	0.00	100.00	98.90	98.80	0.00	101.30		
19	18.30	0.00	95.40	96.00	0.00	95.70	98.20	0.00	100.20	99.10	98.60	0.00	100.90		
20	18.10	0.00	95.30	95.60	0.00	95.90	97.90	0.00	100.10	98.90	98.30	0.00	100.40		
21	21.00	0.00	95.40	95.30	0.00	95.90	97.70	0.00	100.00	98.70	98.20	0.00	100.20		
22	21.20	0.00	95.30	95.10	0.00	95.70	97.50	0.00	99.90	98.70	98.00	0.00	99.90		
23	21.50	0.00	95.50	95.00	0.00	96.10	98.40	0.00	99.90	98.70	98.00	0.00	99.80		
24	21.50	0.00	95.50	95.00	0.00	96.10	97.90	0.00	99.60	98.80	98.20	0.00	99.80		

18 SEP 2003

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

18 SEP 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	LITTLE GOOSE	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.		
1	1.60	0.00	103.50	100.00	99.60	99.10	15.20	0.00	97.00	97.60	15.10	0.00	95.10	95.60	
2	1.60	0.00	103.60	99.90	99.10	98.70	15.00	0.00	97.00	97.30	13.50	0.00	95.20	95.70	
3	1.60	0.00	103.60	99.90	98.90	98.50	15.10	0.00	97.10	97.20	13.40	0.00	95.10	95.50	
4	1.60	0.00	103.60	99.90	98.60	98.20	15.30	0.00	97.10	97.10	13.40	0.00	95.20	95.50	
5	1.60	0.00	103.60	99.80	98.40	98.00	15.10	0.00	97.10	97.00	13.40	0.00	95.00	95.40	
6	1.60	0.00	103.60	99.80	98.40	97.80	15.10	0.00	97.00	96.90	13.50	0.00	95.00	95.40	
7	1.60	0.00	103.70	99.70	98.20	97.70	15.00	0.00	97.10	96.80	13.50	0.00	95.00	95.40	
8	1.60	0.00	103.70	99.80	98.60	97.90	14.90	0.00	97.10	96.80	14.80	0.00	95.10	95.40	
9	1.60	0.00	103.90	100.10	99.40	99.00	17.20	0.00	97.10	97.00	14.00	0.00	95.10	95.60	
10	1.60	0.00	104.20	100.50	100.70	100.20	17.50	0.00	97.30	97.20	15.30	0.00	95.10	95.90	
11	1.60	0.00	104.70	101.00	101.60	101.60	17.50	0.00	97.50	97.30	15.50	0.00	95.30	95.90	
12	1.60	0.00	105.30	101.50	103.20	103.00	19.30	0.00	97.80	97.40	15.50	0.00	95.60	96.10	
13	1.60	0.00	105.80	102.20	104.20	104.30	17.80	0.00	98.10	97.60	15.50	0.00	95.80	96.20	
14	1.60	0.00	106.20	102.80	105.10	105.30	17.50	0.00	98.20	97.70	15.50	0.00	95.60	96.40	
15	1.60	0.00	106.40	103.30	105.70	106.00	17.50	0.00	98.70	97.80	16.80	0.00	95.80	96.50	
16	1.60	0.00	106.60	103.60	106.20	106.50	17.40	0.00	99.00	97.70	15.40	0.00	95.70	96.40	
17	1.60	0.00	106.60	103.60	106.90	106.50	17.40	0.00	99.40	97.80	15.40	0.00	95.90	96.50	
18	1.60	0.00	106.40	103.30	107.20	106.00	17.90	0.00	99.80	97.90	19.30	0.00	96.00	96.60	
19	1.60	0.00	105.90	103.10	106.50	105.10	29.10	0.00	99.70	98.70	27.60	0.00	95.90	97.00	
20	1.60	0.00	105.30	102.70	105.00	103.90	29.30	0.00	99.20	98.60	28.10	0.00	95.90	97.00	
21	1.60	0.00	104.90	102.10	103.80	102.90	28.00	0.00	99.40	98.60	26.50	0.00	95.90	96.80	
22	1.60	0.00	104.60	101.80	103.00	102.00	27.60	0.00	99.20	98.40	26.40	0.00	95.90	96.50	
23	1.60	0.00	104.50	101.40	102.10	101.30	17.60	0.00	99.30	98.30	28.70	0.00	95.90	96.40	
24	1.60	0.00	104.40	101.30	101.50	100.90	17.40	0.00	99.50	98.20	17.70	0.00	96.20	96.20	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	PASCO	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	GAS % SAT	
1	14.10	0.00	95.50	95.00	12.20	0.00	95.80	97.70	68.90	99.60	100.00	98.70	98.50	99.60	
2	13.90	0.00	95.40	94.90	12.30	0.00	95.80	97.50	69.10	99.50	99.90	99.50	98.60	99.70	
3	13.90	0.00	95.40	94.80	12.20	0.00	95.90	97.50	69.00	99.50	99.30	99.50	98.60	99.50	
4	13.90	0.00	95.40	94.90	12.40	0.00	95.80	97.60	69.90	99.50	99.00	99.50	98.40	99.40	
5	15.70	0.00	95.40	95.70	12.40	0.00	96.10	97.60	74.80	99.50	98.60	99.50	98.30	99.30	
6	15.40	0.00	95.30	96.20	12.50	0.00	96.20	97.60	78.10	99.50	98.60	99.50	98.60	99.20	
7	14.00	0.00	95.20	95.30	12.50	0.00	95.70	97.60	79.00	99.50	98.60	99.40	98.80	99.00	
8	13.90	0.00	95.30	94.90	16.40	0.00	96.00	97.60	78.90	99.50	98.60	99.30	98.50	99.00	
9	14.00	0.00	95.40	95.00	16.80	0.00	95.70	97.70	78.80	99.50	98.60	99.30	98.60	99.20	
10	14.20	0.00	95.90	95.50	17.00	0.00	96.40	98.40	79.10	99.50	98.60	99.40	99.10	99.30	
11	14.00	0.00	96.20	96.00	15.00	0.00	97.10	98.90	79.10	99.50	99.50	99.40	99.40	99.60	
12	15.40	0.00	96.60	96.50	17.40	0.00	97.00	99.30	80.10	99.50	99.90	99.90	99.50	100.00	
13	13.90	0.00	96.40	97.90	15.30	0.00	96.40	99.90	79.90	99.40	100.40	99.70	99.40	100.40	
14	13.90	0.00	95.90	97.40	13.90	0.00	96.00	100.20	79.60	99.40	100.30	99.80	99.60	100.80	
15	15.60	0.00	95.90	97.30	14.40	0.00	95.50	99.50	79.60	99.40	100.00	100.10	99.70	101.00	
16	13.90	0.00	96.60	97.90	13.80	0.00	96.10	100.40	85.20	99.40	100.70	100.00	100.00	101.20	
17	15.50	0.00	96.40	97.80	15.30	0.00	96.20	100.80	80.80	99.40	101.40	99.80	100.40	101.30	
18	15.10	0.00	96.30	97.40	13.80	0.00	96.80	99.70	86.20	99.40	100.20	99.90	100.30	101.50	
19	18.70	0.00	96.40	96.90	15.10	0.00	96.80	99.80	85.60	99.40	100.30	100.20	100.10	101.30	
20	27.40	0.00	96.40	96.70	27.70	0.00	97.60	99.50	85.00	99.40	101.30	100.60	100.00	101.20	
21	27.90	0.00	96.30	96.60	27.40	0.00	97.80	98.80	84.70	99.40	101.80	100.40	99.60	101.10	
22	27.60	0.00	97.10	96.40	26.90	0.00	98.30	98.20	79.70	99.40	101.90	100.60	99.40	101.00	
23	29.20	0.00	97.80	96.20	26.80	0.00	98.20	98.60	79.30	99.40	101.70	100.50	99.20	101.00	
24	27.20	0.00	96.50	96.10	22.90	0.00	97.60	98.00	78.20	99.40	101.10	100.20	99.20	100.90	

19 SEP 2003

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

19 SEP 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	LOWER GRANITE	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.		
1	1.60	0.00	104.40	101.00	100.80	100.40	15.20	0.00	99.40	98.20	16.50	0.00	96.30	96.20	
2	1.60	0.00	104.30	101.00	100.50	100.00	14.90	0.00	98.90	98.00	14.90	0.00	96.20	96.10	
3	1.60	0.00	104.20	100.90	100.40	99.60	14.90	0.00	98.80	97.90	13.60	0.00	96.10	96.20	
4	1.60	0.00	104.10	100.70	100.20	99.30	14.90	0.00	98.80	97.80	12.30	0.00	96.00	96.00	
5	1.60	0.00	104.20	100.80	100.30	99.20	16.60	0.00	98.90	98.80	14.20	0.00	96.00	96.10	
6	1.60	0.00	104.20	100.60	100.00	98.90	17.60	0.00	98.90	98.50	16.70	0.00	95.80	96.10	
7	1.60	0.00	104.10	100.50	99.80	98.80	17.50	0.00	98.70	98.10	16.80	0.00	95.80	95.70	
8	1.60	0.00	104.10	100.40	99.90	98.80	17.40	0.00	98.60	98.00	16.90	0.00	95.80	95.80	
9	1.60	0.00	104.30	100.70	100.80	99.80	17.40	0.00	98.60	97.90	16.80	0.00	95.80	95.90	
10	1.60	0.00	104.60	101.10	101.60	101.00	17.40	0.00	98.60	97.90	16.80	0.00	95.60	96.00	
11	1.60	0.00	105.00	101.50	102.60	102.50	17.40	0.00	98.80	97.90	16.90	0.00	95.70	96.00	
12	1.60	0.00	105.50	102.00	104.00	103.70	17.40	0.00	98.90	97.90	17.80	0.00	95.90	96.20	
13	1.60	0.00	106.20	102.70	104.90	105.00	17.40	0.00	98.70	98.10	17.20	0.00	95.80	96.40	
14	1.60	0.00	106.50	-999.00	106.40	106.00	17.40	0.00	98.90	98.30	17.00	0.00	96.00	96.60	
15	1.60	0.00	106.70	0.00	107.40	106.70	28.00	0.00	99.20	99.20	16.90	0.00	96.10	96.60	
16	1.60	0.00	106.70	-999.00	108.40	106.70	28.40	0.00	99.10	99.30	17.80	0.00	96.20	96.80	
17	1.70	0.00	106.70	-999.00	108.60	106.30	29.00	0.00	98.70	98.90	30.60	0.00	96.10	-999.00	
18	1.60	0.00	106.40	0.00	108.10	105.30	30.70	0.00	-999.00	-999.00	32.50	0.00	-999.00	10.30	
19	1.60	0.00	106.00	-999.00	107.00	103.90	28.90	0.00	-999.00	-999.00	30.40	0.00	-999.00	7.60	
20	1.60	0.00	105.50	-999.00	105.50	102.50	32.10	0.00	-999.00	-999.00	30.50	0.00	-999.00	-999.00	
21	1.60	0.00	105.00	101.60	104.00	101.60	17.50	0.00	-999.00	-999.00	30.50	0.00	-999.00	0.00	
22	1.60	0.00	104.70	101.00	102.80	100.70	16.00	0.00	97.90	98.30	30.40	0.00	95.90	95.90	
23	1.60	0.00	104.40	100.70	102.00	100.10	15.00	0.00	97.80	97.70	23.40	0.00	96.00	95.80	
24	1.60	0.00	104.30	100.40	101.10	99.80	15.00	0.00	97.40	97.50	14.10	0.00	95.60	95.80	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB	WA TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB	GAS %SAT	
1	17.60	0.00	96.20	95.90	0.00	97.10	98.00	78.90	0.00	100.40	101.10	99.10	0.00	100.90	
2	13.80	0.00	96.00	96.10	13.50	0.00	96.50	98.10	68.10	0.00	100.60	102.00	99.00	0.00	100.90
3	13.80	0.00	96.30	96.00	13.20	0.00	96.60	97.90	67.70	0.00	100.40	102.10	99.10	0.00	100.70
4	13.90	0.00	96.30	95.70	11.40	0.00	96.50	97.90	57.60	0.00	100.30	101.70	99.20	0.00	100.70
5	14.40	0.00	96.20	95.80	13.50	0.00	96.50	97.90	86.30	0.00	100.40	101.00	99.40	0.00	100.60
6	16.40	0.00	96.10	95.80	13.50	0.00	96.00	98.00	98.80	0.00	100.00	100.90	99.20	0.00	100.40
7	18.10	0.00	96.00	95.70	16.20	0.00	96.30	98.00	102.00	0.00	99.10	100.80	99.20	0.00	100.40
8	16.60	0.00	96.00	96.60	17.80	0.00	96.10	98.00	102.00	0.00	98.90	100.90	99.30	0.00	100.20
9	16.60	0.00	96.20	95.90	16.40	0.00	96.10	98.10	100.80	0.00	98.80	100.80	99.40	0.00	100.30
10	16.90	0.00	96.30	96.20	16.70	0.00	96.10	98.20	99.50	0.00	98.70	100.60	99.50	0.00	100.40
11	16.70	0.00	96.00	96.50	17.90	0.00	96.30	99.00	94.60	0.00	98.90	100.50	99.70	0.00	100.70
12	16.70	0.00	96.00	97.10	16.40	0.00	96.40	99.20	94.00	0.00	99.00	100.20	99.90	0.00	101.10
13	16.60	0.00	96.00	97.90	18.10	0.00	96.20	99.90	85.90	0.00	99.10	100.00	99.70	0.00	101.50
14	16.40	0.00	96.10	-999.00	18.50	0.00	395.70	101.10	85.10	0.00	99.80	100.10	100.00	0.00	102.00
15	16.70	0.00	96.10	-999.00	16.50	0.00	-999.00	101.50	84.70	0.00	100.70	99.80	100.00	0.00	102.50
16	16.60	0.00	96.10	-999.00	16.60	0.00	0.006224.10	101.10	80.40	0.00	100.80	99.80	99.90	0.00	102.60
17	20.70	0.00	95.70	-999.00	16.70	0.00	96.50	101.50	81.90	0.00	100.50	99.50	99.90	0.00	102.90
18	27.40	0.00	-999.00	-999.00	19.40	0.00	0.00	-999.00	80.90	0.00	-999.00	-999.00	99.60	0.00	-999.00
19	31.70	0.00	-999.00	-999.00	19.90	0.00	0.00	-999.00	80.30	0.00	-999.00	-999.00	99.10	0.00	-999.00
20	32.60	0.00	-999.00	-999.00	20.00	0.00	1.50	-999.00	81.00	0.00	-999.00	-999.00	98.90	0.00	-999.00
21	37.00	0.00	-999.00	-999.00	26.30	0.00	0.0013210.40	98.50	75.80	0.00	-999.00	-999.00	98.60	0.00	-999.00
22	37.00	0.00	96.10	95.70	27.20	0.00	96.10	97.80	76.00	0.00	99.40	98.80	98.50	0.00	101.30
23	38.30	0.00	95.90	97.30	31.00	0.00	97.00	97.30	74.70	0.00	99.30	98.60	98.60	0.00	101.10
24	27.90	0.00	95.80	95.40	34.50	0.00	97.10	97.60	74.40	0.00	99.10	98.60	98.60	0.00	100.90

20 SEP 2003

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

20 SEP 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.			
1	1.60	0.00	104.10	100.40	100.40	99.40	14.30	0.00	97.40	13.30	0.00	95.60	95.70		
2	1.60	0.00	104.00	100.20	99.70	99.00	14.40	0.00	97.20	13.50	0.00	95.30	95.40		
3	1.60	0.00	103.90	100.10	99.20	98.70	15.50	0.00	97.00	12.60	0.00	95.30	95.40		
4	1.60	0.00	103.80	100.00	98.90	98.40	14.20	0.00	96.90	13.60	0.00	95.20	95.20		
5	1.60	0.00	103.60	99.90	98.50	98.00	14.80	0.00	96.80	13.90	0.00	95.20	95.20		
6	1.60	0.00	103.60	99.80	98.30	97.70	17.40	0.00	96.70	16.40	0.00	95.20	95.10		
7	1.60	0.00	103.40	99.60	98.20	97.50	17.90	0.00	96.60	15.70	0.00	95.10	95.10		
8	1.60	0.00	103.50	99.60	98.60	97.70	18.60	0.00	96.80	16.50	0.00	95.00	95.10		
9	1.60	0.00	103.60	99.80	99.40	98.50	34.40	0.00	97.10	16.50	0.00	95.00	95.20		
10	1.60	0.00	103.80	100.10	100.40	99.90	33.70	0.00	97.40	17.30	0.00	95.00	95.40		
11	1.60	0.00	104.20	100.70	101.90	101.30	33.60	0.00	97.50	32.70	0.00	95.20	96.20		
12	1.60	0.00	104.70	101.30	103.60	102.70	33.40	0.00	97.60	33.40	0.00	95.20	96.10		
13	1.60	0.00	105.40	101.90	104.60	104.10	17.80	0.00	97.70	34.70	0.00	95.40	96.10		
14	1.60	0.00	105.70	102.60	105.30	105.00	17.60	0.00	97.70	32.80	0.00	95.40	96.10		
15	1.60	0.00	105.90	103.00	106.20	105.70	17.60	0.00	97.50	18.30	0.00	95.50	96.20		
16	1.60	0.00	106.10	103.20	107.10	106.20	17.70	0.00	97.40	17.40	0.00	95.60	96.20		
17	1.60	0.00	106.00	103.20	107.30	106.10	17.50	0.00	97.40	17.40	0.00	95.60	96.20		
18	1.60	0.00	105.90	102.80	107.10	105.60	17.50	0.00	97.40	17.50	0.00	95.80	96.20		
19	1.60	0.00	105.50	102.40	106.50	104.70	17.80	0.00	97.40	18.30	0.00	95.60	95.90		
20	1.60	0.00	105.00	101.90	104.90	103.40	27.50	0.00	97.70	26.90	0.00	95.50	96.00		
21	1.60	0.00	104.60	101.50	103.30	102.30	30.50	0.00	97.60	27.00	0.00	95.60	96.00		
22	1.60	0.00	104.30	101.10	102.40	101.30	30.80	0.00	98.20	27.20	0.00	95.60	95.80		
23	1.60	0.00	104.10	100.60	101.70	100.60	32.60	0.00	97.80	33.80	0.00	95.50	95.80		
24	1.60	0.00	103.90	100.40	100.90	100.20	18.10	0.00	97.50	15.10	0.00	95.40	95.60		

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB	WA	TAILW.	GAS % SAT			
1	14.50	0.00	96.10	95.10	0.00	97.10	97.40	0.00	99.10	98.50	98.50	100.70			
2	13.40	0.00	95.80	95.10	30.40	0.00	96.80	97.30	0.00	99.00	98.60	98.20	100.60		
3	15.00	0.00	95.90	95.50	14.40	0.00	96.40	97.20	0.00	98.90	98.60	98.10	100.30		
4	15.10	0.00	95.90	95.60	12.70	0.00	95.80	97.00	0.00	98.70	98.20	98.00	100.10		
5	13.70	0.00	95.80	96.60	14.60	0.00	96.10	97.00	0.00	98.70	98.20	98.00	100.00		
6	16.30	0.00	95.60	95.00	13.50	0.00	95.90	97.10	0.00	98.40	98.20	98.00	99.90		
7	15.60	0.00	95.60	94.90	15.50	0.00	95.30	97.70	0.00	98.20	98.10	97.90	99.80		
8	16.70	0.00	95.40	95.00	15.20	0.00	95.20	98.20	0.00	98.20	98.20	98.00	99.60		
9	16.90	0.00	95.20	95.00	13.60	0.00	95.30	98.60	0.00	98.30	98.30	98.10	99.60		
10	16.90	0.00	95.40	95.30	13.70	0.00	94.90	98.10	0.00	98.70	98.20	98.70	99.70		
11	17.60	0.00	95.40	95.70	13.60	0.00	95.30	99.00	0.00	98.60	98.30	99.30	100.00		
12	31.60	0.00	95.50	96.40	15.10	0.00	95.40	99.10	0.00	98.90	98.60	99.30	100.40		
13	32.90	0.00	95.40	96.10	13.60	0.00	95.10	99.50	0.00	99.10	98.60	99.10	100.90		
14	32.80	0.00	95.50	96.30	15.30	0.00	95.30	99.10	0.00	99.00	99.40	99.20	101.40		
15	34.50	0.00	95.60	96.40	13.60	0.00	95.40	99.30	0.00	99.00	99.30	99.20	101.60		
16	27.90	0.00	95.60	97.10	13.50	0.00	95.20	100.20	0.00	98.50	0.00	99.20	101.90		
17	14.90	0.00	95.70	96.70	13.50	0.00	94.90	99.40	0.00	98.90	99.40	99.40	102.00		
18	16.30	0.00	95.70	96.60	15.00	0.00	95.50	99.90	0.00	98.50	99.60	99.70	101.90		
19	17.20	0.00	95.80	96.50	14.40	0.00	95.60	99.20	0.00	98.70	99.40	99.90	101.80		
20	27.60	0.00	96.00	96.70	26.20	0.00	95.70	98.60	0.00	98.90	99.80	99.80	101.50		
21	28.20	0.00	95.90	95.90	24.20	0.00	95.30	98.80	0.00	99.80	99.50	99.60	101.40		
22	27.80	0.00	95.90	95.60	26.50	0.00	95.40	97.70	0.00	101.00	99.40	99.70	101.10		
23	33.80	0.00	95.90	95.50	27.40	0.00	95.80	97.10	0.00	100.60	99.60	99.70	101.00		
24	15.00	0.00	95.80	95.00	13.60	0.00	95.60	97.10	0.00	100.20	100.40	99.60	100.90		

21 SEP 2003

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

21 SEP 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS FB %SAT.	TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB %SAT.	TAILW.	
1	1.60	0.00	103.90	100.20	100.20	99.60	14.30	0.00	97.40	99.00	13.00	0.00	95.40	95.60	
2	1.60	0.00	103.80	100.20	99.50	99.20	14.10	0.00	97.30	97.70	12.90	0.00	95.30	95.40	
3	1.60	0.00	103.60	100.10	99.00	98.70	14.00	0.00	97.20	97.40	12.90	0.00	95.10	95.30	
4	1.60	0.00	103.50	100.00	98.80	98.30	14.00	0.00	97.30	97.30	12.90	0.00	95.10	95.30	
5	1.60	0.00	103.50	99.90	98.50	98.10	14.10	0.00	97.10	97.30	12.80	0.00	95.10	95.10	
6	1.60	0.00	103.50	99.80	98.20	97.90	14.00	0.00	97.10	97.20	12.90	0.00	94.90	95.10	
7	1.60	0.00	103.40	99.80	98.00	97.60	14.00	0.00	96.90	97.10	13.00	0.00	94.80	95.10	
8	1.60	0.00	103.50	99.70	98.30	97.70	14.00	0.00	96.90	97.20	16.80	0.00	94.80	95.00	
9	1.60	0.00	103.60	99.80	99.20	98.50	13.90	0.00	96.90	97.00	18.30	0.00	94.90	95.10	
10	1.60	0.00	103.80	100.20	100.10	99.80	17.30	0.00	97.10	97.10	18.40	0.00	94.90	95.10	
11	1.60	0.00	104.30	100.80	101.50	101.10	17.30	0.00	97.50	97.10	18.40	0.00	94.90	95.40	
12	1.60	0.00	104.70	101.40	102.90	102.60	17.20	0.00	98.10	97.20	18.40	0.00	94.80	95.40	
13	1.60	0.00	105.30	102.20	103.80	103.90	17.30	0.00	97.80	97.40	18.40	0.00	94.90	95.50	
14	1.60	0.00	105.70	102.70	105.10	105.00	17.20	0.00	98.30	97.70	18.30	0.00	95.00	95.60	
15	1.60	0.00	106.00	103.20	106.00	105.80	17.20	0.00	98.60	97.90	18.40	0.00	94.90	95.70	
16	1.60	0.00	106.00	103.50	106.80	106.10	17.30	0.00	98.30	97.90	21.10	0.00	95.00	-999.00	
17	1.60	0.00	105.90	103.40	107.10	106.10	17.20	0.00	98.40	98.00	18.30	0.00	95.00	95.60	
18	1.60	0.00	105.80	103.10	107.00	105.60	17.90	0.00	98.70	97.90	18.30	0.00	95.00	95.70	
19	1.60	0.00	105.40	102.60	106.30	104.50	27.60	0.00	98.60	99.00	21.90	0.00	95.00	95.60	
20	1.60	0.00	104.80	102.10	104.60	103.30	29.70	0.00	99.10	98.40	27.50	0.00	95.10	95.90	
21	1.60	0.00	104.50	101.60	103.30	102.10	35.60	0.00	99.20	98.40	34.10	0.00	95.30	96.10	
22	1.60	0.00	104.20	101.10	102.40	101.20	28.80	0.00	99.20	98.30	28.10	0.00	95.20	95.80	
23	1.60	0.00	104.00	100.80	101.60	100.60	15.00	0.00	99.20	98.90	18.30	0.00	95.40	95.70	
24	1.60	0.00	103.90	100.60	101.10	100.10	14.50	0.00	99.50	98.90	14.40	0.00	95.60	98.50	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH KCFS	SPILL KCFS	GAS FB %SAT.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB %SAT.	TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS FB %SAT.	WA TAILW.	TOTAL DISCH KCFS	SPILL OR KCFS	GAS FB %SAT.	
	KCFS	KCFS	KCFS	KCFS	KCFS	KCFS		KCFS	KCFS	KCFS		KCFS	KCFS	KCFS	SAT
1	13.90	0.00	95.90	94.90	0.00	95.70	97.00	65.60	0.00	99.10	99.70	99.30	0.00	100.70	
2	14.20	0.00	95.70	95.10	0.00	96.30	96.70	67.50	0.00	98.70	100.40	99.10	0.00	100.50	
3	13.80	0.00	95.60	94.70	0.00	96.10	96.70	67.00	0.00	98.70	100.00	98.90	0.00	100.40	
4	13.90	0.00	95.60	94.80	0.00	95.80	97.20	63.00	0.00	98.70	100.30	99.00	0.00	100.40	
5	13.90	0.00	95.60	94.70	0.00	95.60	97.40	62.90	0.00	98.60	100.40	99.10	0.00	100.20	
6	13.90	0.00	95.50	94.70	0.00	95.50	97.30	58.80	0.00	98.40	100.20	98.70	0.00	100.10	
7	14.30	0.00	95.40	94.50	0.00	95.40	97.50	60.80	0.00	98.50	99.00	98.60	0.00	99.90	
8	16.70	0.00	95.40	94.50	0.00	94.80	97.50	83.90	0.00	98.30	98.50	98.60	0.00	99.50	
9	17.20	0.00	95.40	94.60	0.00	94.70	97.60	86.30	0.00	98.30	98.20	98.40	0.00	99.50	
10	20.80	0.00	95.60	94.90	0.00	95.10	98.70	86.20	0.00	98.10	98.10	98.50	0.00	99.40	
11	21.10	0.00	95.60	95.30	0.00	95.40	98.90	85.90	0.00	97.60	98.20	98.50	0.00	99.80	
12	23.10	0.00	95.30	95.70	0.00	95.70	98.40	86.00	0.00	97.50	98.10	98.70	0.00	100.10	
13	22.60	0.00	95.70	96.00	0.00	95.40	98.20	85.10	0.00	97.80	98.30	98.80	0.00	100.60	
14	21.20	0.00	95.30	96.60	0.00	95.20	98.80	84.50	0.00	97.90	98.70	99.20	0.00	101.00	
15	21.10	0.00	95.40	96.30	0.00	95.30	98.30	84.50	0.00	97.90	98.80	99.30	0.00	101.40	
16	21.50	0.00	95.60	96.40	0.00	97.70	98.10	84.70	0.00	98.30	99.30	99.20	0.00	101.50	
17	21.50	0.00	95.60	96.50	0.00	96.50	98.10	84.40	0.00	98.00	99.70	99.10	0.00	101.90	
18	21.80	0.00	95.60	96.40	0.00	95.80	98.00	84.10	0.00	98.70	100.70	99.30	0.00	101.90	
19	21.50	0.00	95.60	96.00	0.00	95.70	97.80	85.40	0.00	99.50	103.20	99.50	0.00	102.00	
20	27.20	0.00	96.00	97.00	0.00	95.80	97.40	103.40	0.00	98.20	103.00	99.40	0.00	101.90	
21	27.40	0.00	95.80	95.60	0.00	95.80	97.30	102.70	0.00	97.90	102.50	99.40	0.00	101.70	
22	27.50	0.00	95.80	95.50	0.00	96.00	97.00	79.10	0.00	97.90	101.90	99.30	0.00	101.70	
23	14.90	0.00	96.00	95.30	0.00	95.90	96.80	65.30	0.00	97.90	101.40	99.10	0.00	101.60	
24	14.10	0.00	95.80	95.20	0.00	95.90	96.90	58.10	0.00	102.10	101.60	99.00	0.00	101.40	

22 SEP 2003

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

22 SEP 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.			
1	1.60	0.00	103.70	100.40	100.30	99.70	14.50	0.00	99.50	98.40	12.90	0.00	95.50	97.50	
2	1.60	0.00	103.70	100.30	99.70	99.30	14.80	0.00	99.00	98.30	12.90	0.00	95.30	96.70	
3	1.60	0.00	103.70	100.40	99.30	98.90	14.60	0.00	99.00	98.30	13.10	0.00	95.30	96.40	
4	1.60	0.00	103.80	100.40	98.90	98.60	14.60	0.00	99.00	98.20	13.10	0.00	95.40	96.30	
5	1.60	0.00	103.70	100.40	98.90	98.40	14.50	0.00	99.00	97.90	13.10	0.00	95.40	96.00	
6	1.60	0.00	103.70	100.30	98.70	98.10	14.60	0.00	98.90	98.10	13.90	0.00	95.30	95.90	
7	1.60	0.00	103.60	100.20	98.90	98.00	14.50	0.00	98.70	97.80	14.00	0.00	95.30	95.70	
8	1.60	0.00	103.70	100.20	99.20	98.10	16.70	0.00	99.00	97.80	17.70	0.00	95.30	95.70	
9	1.60	0.00	103.80	100.40	100.10	98.90	16.90	0.00	99.40	97.90	18.00	0.00	95.30	95.70	
10	1.60	0.00	104.10	100.70	101.00	100.10	16.90	0.00	99.70	98.10	18.00	0.00	-999.00	-999.00	
11	1.60	0.00	104.60	101.30	102.20	101.60	17.30	0.00	100.00	98.10	18.10	0.00	-999.00	-999.00	
12	1.60	0.00	105.10	102.10	103.40	103.00	29.00	0.00	100.50	99.40	21.10	0.00	-999.00	-999.00	
13	1.60	0.00	105.70	102.70	104.40	104.30	28.00	0.00	101.00	99.60	27.40	0.00	-999.00	-999.00	
14	1.60	0.00	106.10	103.30	105.00	105.50	28.10	0.00	101.50	99.70	28.00	0.00	-999.00	-999.00	
15	1.60	0.00	106.30	103.80	105.90	106.30	28.20	0.00	102.20	99.60	33.80	0.00	-999.00	-999.00	
16	1.60	0.00	106.40	104.10	107.30	106.70	28.10	0.00	0.00	100.00	30.40	0.00	-999.00	-999.00	
17	1.60	0.00	106.60	104.00	107.80	106.60	29.80	0.00	104.10	99.90	28.10	0.00	-999.00	-999.00	
18	1.60	0.00	106.40	103.70	107.70	106.20	28.10	0.00	103.70	100.00	28.10	0.00	-999.00	-999.00	
19	1.60	0.00	105.90	103.30	107.20	105.10	28.10	0.00	103.70	99.90	28.20	0.00	-999.00	-999.00	
20	1.60	0.00	105.30	102.70	105.50	103.80	28.70	0.00	103.90	99.70	29.60	0.00	-999.00	-999.00	
21	1.60	0.00	104.80	102.10	104.00	102.60	28.20	0.00	104.30	99.70	29.60	0.00	-999.00	-999.00	
22	1.60	0.00	104.70	101.60	103.00	101.60	23.40	0.00	103.80	99.70	28.00	0.00	-999.00	-999.00	
23	1.60	0.00	104.50	101.30	102.30	100.90	18.30	0.00	104.50	100.30	27.80	0.00	-999.00	-999.00	
24	1.60	0.00	104.40	101.20	101.40	100.40	16.60	0.00	104.00	100.30	18.10	0.00	-999.00	-999.00	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. WA FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT
1	14.10	0.00	95.70	95.40	0.00	96.60	96.70	57.90	0.00	102.40	102.20	98.70	14.10	0.00	101.30
2	14.00	0.00	95.60	95.20	0.00	97.20	96.60	62.70	0.00	101.60	101.90	98.80	14.20	0.00	101.20
3	14.20	0.00	95.30	95.20	0.00	97.30	96.70	60.50	0.00	101.10	102.30	98.80	14.20	0.00	101.10
4	15.30	0.00	96.30	95.20	0.00	97.20	96.90	66.60	0.00	100.30	101.90	98.80	15.30	0.00	101.10
5	13.40	0.00	96.00	96.30	0.00	97.00	97.30	78.70	0.00	99.20	101.70	99.00	13.40	0.00	101.00
6	14.20	0.00	96.00	95.20	0.00	96.40	97.80	97.30	0.00	98.60	101.70	99.00	14.20	0.00	100.90
7	14.40	0.00	96.00	95.10	0.00	96.30	98.10	118.40	0.00	98.40	101.40	99.10	14.40	0.00	100.70
8	20.80	0.00	96.10	95.20	0.00	96.30	98.50	118.10	0.00	98.40	101.20	99.10	20.80	0.00	100.40
9	23.20	0.00	96.00	95.30	0.00	96.20	98.30	114.70	0.00	98.20	100.90	99.20	23.20	0.00	100.50
10	21.40	0.00	-999.00	-999.00	0.00	96.40	99.60	112.60	0.00	98.30	101.10	99.40	21.40	0.00	100.50
11	21.40	0.00	-999.00	-999.00	0.00	97.00	98.30	114.50	0.00	99.20	100.70	99.80	21.40	0.00	100.80
12	21.40	0.00	-999.00	-999.00	0.00	97.00	98.40	115.30	0.00	101.90	100.40	99.80	21.40	0.00	101.30
13	21.30	0.00	-999.00	-999.00	0.00	97.30	98.60	104.50	0.00	103.40	100.40	100.10	21.30	0.00	101.90
14	26.50	0.00	-999.00	-999.00	0.00	98.60	99.20	103.40	0.00	103.80	100.30	100.10	26.50	0.00	102.40
15	30.20	0.00	-999.00	-999.00	0.00	98.90	98.80	103.40	0.00	104.20	100.80	100.30	30.20	0.00	102.70
16	28.60	0.00	-999.00	-999.00	0.00	98.70	98.70	103.20	0.00	105.00	100.70	100.60	28.60	0.00	103.00
17	28.80	0.00	-999.00	-999.00	0.00	98.80	98.30	103.10	0.00	104.70	101.60	100.80	28.80	0.00	103.30
18	28.80	0.00	-999.00	-999.00	0.00	98.80	98.90	103.00	0.00	105.20	101.00	100.60	28.80	0.00	103.50
19	29.40	0.00	-999.00	-999.00	0.00	98.90	97.90	103.50	0.00	105.10	100.60	100.90	29.40	0.00	103.60
20	28.90	0.00	-999.00	-999.00	0.00	99.20	97.70	103.70	0.00	104.00	100.80	100.80	28.90	0.00	103.60
21	28.80	0.00	-999.00	-999.00	0.00	99.50	97.60	103.00	0.00	102.30	100.70	100.30	28.80	0.00	103.40
22	28.60	0.00	-999.00	-999.00	0.00	99.70	97.70	101.90	0.00	100.10	103.90	100.20	28.60	0.00	103.10
23	28.10	0.00	-999.00	-999.00	0.00	98.20	97.90	107.50	0.00	99.30	103.90	100.10	28.10	0.00	103.00
24	19.80	0.00	-999.00	-999.00	0.00	97.40	97.70	114.10	0.00	99.00	103.20	100.10	19.80	0.00	102.80

23 SEP 2003

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

23 SEP 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	LOWER GRANITE	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.		
1	1.60	0.00	104.30	101.00	100.70	99.80	16.80	0.00	103.60	99.90	17.60	0.00	-999.00	-999.00	
2	1.60	0.00	104.20	100.80	100.30	99.40	16.80	0.00	102.10	99.50	17.60	0.00	-999.00	-999.00	
3	1.60	0.00	104.30	100.70	99.90	99.00	16.80	0.00	101.70	99.30	17.60	0.00	-999.00	-999.00	
4	1.60	0.00	104.30	100.70	99.50	98.70	16.60	0.00	102.30	99.10	18.90	0.00	-999.00	-999.00	
5	1.60	0.00	104.30	100.60	99.00	98.40	17.00	0.00	102.40	99.00	17.50	0.00	-999.00	-999.00	
6	1.60	0.00	104.20	100.30	-999.00	-999.00	28.30	0.00	101.40	100.50	17.70	0.00	-999.00	-999.00	
7	1.60	0.00	103.50	100.30	-999.00	-999.00	31.10	0.00	101.50	99.30	17.50	0.00	-999.00	-999.00	
8	1.60	0.00	104.30	100.30	-999.00	-999.00	28.90	0.00	101.50	99.30	19.60	0.00	-999.00	-999.00	
9	1.60	0.00	106.80	100.40	-999.00	-999.00	30.20	0.00	101.10	99.30	19.70	0.00	-999.00	-999.00	
10	1.60	0.00	107.90	-999.00	-999.00	-999.00	28.60	0.00	101.50	99.50	19.50	0.00	-999.00	-999.00	
11	1.60	0.00	107.00	-999.00	-999.00	-999.00	20.00	0.00	101.70	99.70	19.40	0.00	-999.00	-999.00	
12	1.60	0.00	106.90	-999.00	-999.00	-999.00	17.50	0.00	101.80	100.40	20.90	0.00	-999.00	-999.00	
13	1.60	0.00	107.30	-999.00	-999.00	-999.00	17.50	0.00	101.60	100.00	19.40	0.00	-999.00	-999.00	
14	1.60	0.00	107.40	-999.00	-999.00	-999.00	17.70	0.00	102.50	100.10	20.80	0.00	-999.00	-999.00	
15	1.60	0.00	107.40	-999.00	-999.00	-999.00	19.10	0.00	101.50	100.90	19.40	0.00	-999.00	-999.00	
16	1.50	0.00	107.30	-999.00	-999.00	-999.00	18.20	0.00	101.30	100.70	19.40	0.00	-999.00	-999.00	
17	1.60	0.00	107.20	-999.00	-999.00	-999.00	16.40	0.00	100.40	101.00	19.50	0.00	-999.00	-999.00	
18	1.50	0.00	106.60	-999.00	-999.00	-999.00	16.40	0.00	99.60	99.70	19.30	0.00	-999.00	-999.00	
19	1.50	0.00	105.90	-999.00	-999.00	-999.00	16.50	0.00	101.70	99.30	20.10	0.00	-999.00	-999.00	
20	1.60	0.00	105.30	-999.00	-999.00	-999.00	26.20	0.00	100.30	99.70	27.10	0.00	-999.00	-999.00	
21	1.50	0.00	104.90	-999.00	-999.00	-999.00	28.40	0.00	99.80	99.50	27.30	0.00	-999.00	-999.00	
22	1.50	0.00	104.90	-999.00	-999.00	-999.00	28.10	0.00	99.60	99.00	27.20	0.00	-999.00	-999.00	
23	1.60	0.00	104.80	-999.00	-999.00	-999.00	17.70	0.00	99.30	99.50	26.60	0.00	-999.00	-999.00	
24	1.50	0.00	104.70	-999.00	-999.00	-999.00	15.30	0.00	99.10	98.80	15.20	0.00	-999.00	-999.00	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB	MCNARY	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	PASCO	
1	19.10	0.00	-999.00	-999.00	24.10	0.00	97.10	97.70	0.00	98.80	103.00	99.90	102.60		
2	17.60	0.00	-999.00	-999.00	21.50	0.00	96.70	97.80	0.00	98.90	102.60	99.70	102.40		
3	17.60	0.00	-999.00	-999.00	22.80	0.00	96.80	97.60	0.00	99.50	102.20	99.70	102.10		
4	17.70	0.00	-999.00	-999.00	22.90	0.00	97.00	97.80	0.00	99.20	101.80	99.70	101.80		
5	17.90	0.00	-999.00	-999.00	21.20	0.00	97.10	98.00	0.00	98.90	101.20	99.70	101.50		
6	17.40	0.00	-999.00	-999.00	12.10	0.00	96.80	98.30	0.00	98.60	101.10	99.80	101.40		
7	17.30	0.00	-999.00	-999.00	14.10	0.00	97.20	97.70	0.00	98.70	101.20	99.80	101.20		
8	22.30	0.00	-999.00	-999.00	11.00	0.00	97.00	98.70	0.00	98.70	101.00	99.90	101.00		
9	22.70	0.00	-999.00	-999.00	11.60	0.00	97.40	98.00	0.00	98.80	100.70	100.00	101.00		
10	21.50	0.00	-999.00	-999.00	20.20	0.00	97.50	98.60	0.00	99.50	101.20	100.20	101.20		
11	22.20	0.00	-999.00	-999.00	20.50	0.00	97.60	99.40	0.00	100.60	100.80	100.50	101.40		
12	20.60	0.00	-999.00	-999.00	20.70	0.00	97.80	99.80	0.00	101.30	101.70	100.80	101.70		
13	22.20	0.00	-999.00	-999.00	21.00	0.00	97.70	99.30	0.00	102.10	101.90	100.90	102.10		
14	20.70	0.00	-999.00	-999.00	20.40	0.00	97.30	99.70	0.00	103.70	101.90	101.10	102.50		
15	22.50	0.00	-999.00	-999.00	20.40	0.00	97.10	100.00	0.00	104.50	101.70	101.40	102.80		
16	20.80	0.00	-999.00	-999.00	20.60	0.00	96.80	101.30	0.00	104.60	101.40	101.40	102.70		
17	21.40	0.00	-999.00	-999.00	21.90	0.00	97.00	99.50	0.00	105.70	100.90	101.10	102.70		
18	22.20	0.00	-999.00	-999.00	22.40	0.00	96.80	99.00	0.00	105.90	100.70	100.80	102.60		
19	22.40	0.00	-999.00	-999.00	22.10	0.00	96.30	99.40	0.00	105.70	100.50	100.50	102.40		
20	27.20	0.00	-999.00	-999.00	22.10	0.00	96.30	98.30	0.00	106.10	100.30	100.10	102.30		
21	27.20	0.00	-999.00	-999.00	27.90	0.00	96.50	98.00	0.00	105.40	100.50	99.90	102.00		
22	27.30	0.00	-999.00	-999.00	26.40	0.00	97.40	98.10	0.00	105.10	100.30	99.90	101.80		
23	27.50	0.00	-999.00	-999.00	26.70	0.00	97.80	98.30	0.00	104.30	102.00	99.80	101.60		
24	15.90	0.00	-999.00	-999.00	20.30	0.00	98.90	98.00	0.00	102.80	103.60	99.80	101.60		

24 SEP 2003

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

24 SEP 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	LOWER GRANITE	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.		
1	1.60	0.00	104.70	-999.00	-999.00	-999.00	15.10	0.00	99.20	98.60	13.80	0.00	-999.00	-999.00	
2	1.60	0.00	104.60	-999.00	-999.00	-999.00	15.20	0.00	98.80	98.40	13.70	0.00	-999.00	-999.00	
3	1.60	0.00	104.50	-999.00	-999.00	-999.00	15.10	0.00	98.90	98.30	14.00	0.00	-999.00	-999.00	
4	1.60	0.00	104.30	-999.00	-999.00	-999.00	15.60	0.00	98.80	98.30	14.20	0.00	-999.00	-999.00	
5	1.60	0.00	104.30	-999.00	-999.00	-999.00	28.40	0.00	99.80	98.50	15.20	0.00	-999.00	-999.00	
6	1.60	0.00	104.20	-999.00	-999.00	-999.00	28.60	0.00	100.40	98.50	27.60	0.00	-999.00	-999.00	
7	1.60	0.00	104.10	-999.00	-999.00	-999.00	29.00	0.00	99.90	98.30	27.50	0.00	-999.00	-999.00	
8	1.60	0.00	104.30	-999.00	-999.00	-999.00	28.40	0.00	100.00	98.60	27.50	0.00	-999.00	-999.00	
9	1.60	0.00	104.50	-999.00	-999.00	-999.00	28.30	0.00	100.10	98.70	27.60	0.00	-999.00	-999.00	
10	1.60	0.00	105.00	-999.00	-999.00	-999.00	28.20	0.00	100.50	98.70	27.60	0.00	-999.00	-999.00	
11	1.60	0.00	105.50	-999.00	-999.00	-999.00	28.30	0.00	101.30	98.70	27.60	0.00	-999.00	-999.00	
12	1.60	0.00	106.30	-999.00	-999.00	-999.00	28.30	0.00	102.20	99.10	29.00	0.00	-999.00	-999.00	
13	1.60	0.00	106.60	-999.00	-999.00	-999.00	27.50	0.00	103.10	99.10	27.50	0.00	-999.00	-999.00	
14	1.60	0.00	107.20	-999.00	-999.00	-999.00	17.60	0.00	103.30	99.90	27.60	0.00	-999.00	-999.00	
15	1.60	0.00	107.30	-999.00	-999.00	-999.00	17.60	0.00	104.50	99.90	27.50	0.00	-999.00	-999.00	
16	1.60	0.00	107.10	-999.00	-999.00	-999.00	17.80	0.00	105.10	100.00	27.50	0.00	-999.00	-999.00	
17	1.60	0.00	106.70	-999.00	-999.00	-999.00	17.30	0.00	105.10	100.00	27.90	0.00	-999.00	-999.00	
18	1.60	0.00	106.10	-999.00	-999.00	-999.00	17.00	0.00	104.80	100.00	27.80	0.00	-999.00	-999.00	
19	1.60	0.00	105.30	-999.00	-999.00	-999.00	17.00	0.00	104.40	99.80	29.20	0.00	-999.00	-999.00	
20	1.60	0.00	104.70	-999.00	-999.00	-999.00	17.40	0.00	104.70	99.70	25.30	0.00	-999.00	-999.00	
21	1.60	0.00	104.50	-999.00	-999.00	-999.00	30.10	0.00	104.20	101.10	27.30	0.00	-999.00	-999.00	
22	1.60	0.00	104.50	-999.00	-999.00	-999.00	28.00	0.00	104.00	99.90	27.00	0.00	-999.00	-999.00	
23	1.60	0.00	104.40	-999.00	-999.00	-999.00	15.40	0.00	104.30	101.40	15.30	0.00	-999.00	-999.00	
24	1.60	0.00	104.30	-999.00	-999.00	-999.00	15.20	0.00	103.70	100.20	16.20	0.00	-999.00	-999.00	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB	WA TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB	GAS %SAT	
1	14.30	0.00	-999.00	-999.00	13.00	0.00	99.00	97.90	0.00	101.00	103.90	99.90	0.00	101.40	
2	13.90	0.00	-999.00	-999.00	9.90	0.00	97.90	97.90	0.00	99.70	103.70	99.70	0.00	101.30	
3	13.80	0.00	-999.00	-999.00	10.00	0.00	97.50	97.90	0.00	100.10	103.50	99.80	0.00	101.10	
4	13.80	0.00	-999.00	-999.00	11.70	0.00	97.70	98.00	0.00	101.10	102.90	99.80	0.00	101.00	
5	14.50	0.00	-999.00	-999.00	10.80	0.00	98.10	98.10	0.00	100.60	103.10	99.70	0.00	100.80	
6	15.30	0.00	-999.00	-999.00	10.60	0.00	98.30	98.20	0.00	100.40	101.90	99.70	0.00	100.50	
7	27.00	0.00	-999.00	-999.00	14.00	0.00	98.10	98.50	0.00	100.00	101.60	99.60	0.00	100.30	
8	27.10	0.00	-999.00	-999.00	21.90	0.00	98.10	98.60	0.00	99.60	101.60	99.70	0.00	100.10	
9	27.20	0.00	-999.00	-999.00	25.80	0.00	98.00	99.20	0.00	99.40	101.60	99.80	0.00	100.10	
10	31.00	0.00	-999.00	-999.00	27.00	0.00	98.00	98.70	0.00	99.20	101.50	99.90	0.00	100.30	
11	28.10	0.00	-999.00	-999.00	28.70	0.00	97.80	99.30	0.00	100.80	102.70	100.10	0.00	100.60	
12	27.50	0.00	-999.00	-999.00	27.10	0.00	97.80	98.80	0.00	101.70	103.30	100.30	0.00	101.20	
13	27.60	0.00	-999.00	-999.00	28.70	0.00	97.70	99.60	0.00	102.40	103.60	100.70	0.00	101.60	
14	29.60	0.00	-999.00	-999.00	28.40	0.00	101.90	99.10	0.00	102.00	104.20	100.80	0.00	102.10	
15	30.90	0.00	-999.00	-999.00	29.80	0.00	101.90	99.30	0.00	102.90	104.70	101.00	0.00	102.60	
16	32.90	0.00	-999.00	-999.00	30.40	0.00	102.10	99.20	0.00	101.90	105.10	101.40	0.00	102.90	
17	30.90	0.00	-999.00	-999.00	29.80	0.00	100.90	99.40	0.00	101.30	105.20	101.60	0.00	103.10	
18	30.40	0.00	-999.00	-999.00	31.30	0.00	100.40	100.30	0.00	100.60	105.20	101.60	0.00	103.20	
19	30.30	0.00	-999.00	-999.00	29.90	0.00	99.10	99.10	0.00	100.20	105.10	101.30	0.00	103.00	
20	30.40	0.00	-999.00	-999.00	29.90	0.00	98.10	99.10	0.00	97.90	0.00	99.80	104.30	101.20	0.00
21	35.00	0.00	-999.00	-999.00	29.90	0.00	100.20	98.20	0.00	97.50	0.00	99.60	103.80	100.90	0.00
22	33.60	0.00	-999.00	-999.00	29.30	0.00	100.90	98.20	0.00	97.80	0.00	100.30	103.20	100.80	0.00
23	15.00	0.00	-999.00	-999.00	13.50	0.00	98.20	98.20	0.00	97.90	0.00	101.40	102.90	100.40	0.00
24	15.70	0.00	-999.00	-999.00	13.00	0.00	97.10	98.00	0.00	97.40	0.00	101.10	102.40	100.50	0.00

25 SEP 2003

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

25 SEP 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.			
1	1.60	0.00	104.40	-999.00	-999.00	-999.00	15.90	0.00	102.70	99.80	14.00	0.00	-999.00	-999.00	
2	1.60	0.00	104.50	-999.00	-999.00	-999.00	14.10	0.00	102.90	100.60	13.40	0.00	-999.00	-999.00	
3	1.60	0.00	104.40	-999.00	-999.00	-999.00	14.20	0.00	102.40	100.30	12.60	0.00	-999.00	-999.00	
4	1.60	0.00	104.40	-999.00	-999.00	-999.00	14.20	0.00	102.30	99.70	13.10	0.00	-999.00	-999.00	
5	1.60	0.00	104.30	-999.00	-999.00	-999.00	14.80	0.00	102.00	98.90	16.10	0.00	-999.00	-999.00	
6	1.60	0.00	104.30	-999.00	-999.00	-999.00	29.70	0.00	101.80	100.40	15.80	0.00	-999.00	-999.00	
7	1.60	0.00	104.20	-999.00	-999.00	-999.00	30.80	0.00	101.20	99.50	30.10	0.00	-999.00	-999.00	
8	1.60	0.00	104.40	-999.00	-999.00	-999.00	30.60	0.00	101.30	99.20	30.30	0.00	-999.00	-999.00	
9	1.60	0.00	104.70	-999.00	-999.00	-999.00	30.40	0.00	102.10	99.40	29.60	0.00	-999.00	-999.00	
10	1.60	0.00	105.00	-999.00	-999.00	-999.00	27.90	0.00	101.90	99.50	28.70	0.00	-999.00	-999.00	
11	1.60	0.00	105.60	-999.00	-999.00	-999.00	17.60	0.00	102.40	99.30	25.20	0.00	-999.00	-999.00	
12	1.60	0.00	106.30	-999.00	-999.00	-999.00	17.60	0.00	102.00	99.50	21.90	0.00	-999.00	-999.00	
13	1.60	0.00	106.90	-999.00	-999.00	-999.00	17.50	0.00	101.20	99.50	20.00	0.00	-999.00	-999.00	
14	1.60	0.00	107.30	-999.00	-999.00	-999.00	17.50	0.00	100.70	99.40	21.50	0.00	-999.00	-999.00	
15	1.60	0.00	107.40	-999.00	-999.00	-999.00	17.50	0.00	100.30	99.50	20.00	0.00	-999.00	-999.00	
16	1.60	0.00	107.40	-999.00	-999.00	-999.00	17.50	0.00	100.60	99.40	20.00	0.00	-999.00	-999.00	
17	1.60	0.00	107.00	-999.00	-999.00	-999.00	17.40	0.00	100.20	99.10	21.30	0.00	-999.00	-999.00	
18	1.60	0.00	106.40	-999.00	-999.00	-999.00	19.50	0.00	99.80	100.00	21.20	0.00	-999.00	-999.00	
19	1.60	0.00	105.40	-999.00	-999.00	-999.00	17.40	0.00	99.40	99.40	19.00	0.00	-999.00	-999.00	
20	1.60	0.00	104.80	-999.00	-999.00	-999.00	15.10	0.00	99.80	98.90	13.50	0.00	-999.00	-999.00	
21	1.60	0.00	104.40	-999.00	-999.00	-999.00	14.80	0.00	99.70	98.60	13.20	0.00	-999.00	-999.00	
22	1.60	0.00	104.40	-999.00	-999.00	-999.00	18.80	0.00	99.70	99.40	13.20	0.00	-999.00	-999.00	
23	1.60	0.00	104.30	-999.00	-999.00	-999.00	16.80	0.00	99.70	99.40	13.20	0.00	-999.00	-999.00	
24	1.60	0.00	104.40	-999.00	-999.00	-999.00	14.80	0.00	99.70	99.30	13.30	0.00	-999.00	-999.00	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. WA FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.			
1	14.40	0.00	-999.00	-999.00	9.40	0.00	98.60	97.80	78.40	0.00	102.00	102.70	100.30	:	101.90
2	13.90	0.00	-999.00	-999.00	9.10	0.00	99.50	97.70	73.50	0.00	102.40	102.50	100.10	:	101.70
3	13.40	0.00	-999.00	-999.00	9.10	0.00	99.80	97.90	68.00	0.00	102.50	102.20	100.10	:	101.60
4	13.50	0.00	-999.00	-999.00	9.30	0.00	98.50	98.30	69.10	0.00	102.00	102.20	100.10	:	101.40
5	16.30	0.00	-999.00	-999.00	10.70	0.00	98.20	98.30	83.30	0.00	101.90	101.70	100.20	:	101.10
6	14.40	0.00	-999.00	-999.00	12.60	0.00	98.70	98.40	90.60	0.00	101.60	101.40	100.00	:	101.00
7	15.00	0.00	-999.00	-999.00	13.70	0.00	99.30	98.90	98.10	0.00	101.40	101.70	99.80	:	100.70
8	29.60	0.00	-999.00	-999.00	20.30	0.00	99.70	99.10	99.80	0.00	100.20	101.10	99.70	:	100.70
9	30.70	0.00	-999.00	-999.00	30.60	0.00	99.80	99.90	100.30	0.00	99.90	100.90	100.00	:	100.60
10	30.70	0.00	-999.00	-999.00	32.90	0.00	99.30	99.00	100.60	0.00	100.40	100.60	100.20	:	100.90
11	30.60	0.00	-999.00	-999.00	30.30	0.00	99.00	98.80	100.30	0.00	100.30	100.40	100.10	:	101.20
12	29.90	0.00	-999.00	-999.00	31.00	0.00	98.10	99.10	100.40	0.00	101.20	100.80	100.20	:	101.70
13	27.80	0.00	-999.00	-999.00	29.30	0.00	97.10	99.40	100.40	0.00	102.70	100.50	100.40	:	102.10
14	35.90	0.00	-999.00	-999.00	29.10	0.00	96.50	99.70	100.30	0.00	103.70	100.30	100.70	:	102.60
15	33.90	0.00	-999.00	-999.00	28.90	0.00	96.60	98.90	100.40	0.00	103.40	100.50	100.90	:	102.90
16	34.10	0.00	-999.00	-999.00	30.30	0.00	96.70	98.50	105.60	0.00	103.80	100.30	100.90	:	103.10
17	21.80	0.00	-999.00	-999.00	26.40	0.00	96.50	98.40	119.60	0.00	104.90	100.40	100.70	:	103.10
18	20.40	0.00	-999.00	-999.00	24.10	0.00	96.10	98.90	119.40	0.00	104.80	100.50	100.30	:	103.30
19	18.50	0.00	-999.00	-999.00	20.30	0.00	97.30	98.10	120.90	0.00	105.70	100.40	100.10	:	103.10
20	14.20	0.00	-999.00	-999.00	20.00	0.00	97.50	97.90	134.50	0.00	105.10	101.30	100.00	:	102.90
21	14.30	0.00	-999.00	-999.00	21.60	0.00	97.40	97.80	135.40	0.00	104.50	101.00	100.00	:	102.70
22	14.30	0.00	-999.00	-999.00	19.90	0.00	97.00	97.80	125.10	0.00	102.60	101.70	100.00	:	102.50
23	14.10	0.00	-999.00	-999.00	10.20	0.00	97.20	97.80	95.90	0.00	101.20	102.30	100.00	:	102.40
24	15.20	0.00	-999.00	-999.00	9.20	0.00	97.60	98.30	61.20	0.00	100.70	103.40	99.80	:	102.20

26 SEP 2003

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

26 SEP 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	LOWER GRANITE	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.		
1	1.60	0.00	104.30	-999.00	-999.00	-999.00	14.80	0.00	99.60	98.90	13.10	0.00	-999.00	-999.00	
2	1.60	0.00	104.30	-999.00	-999.00	-999.00	14.90	0.00	99.80	98.60	13.30	0.00	-999.00	-999.00	
3	1.60	0.00	104.30	-999.00	-999.00	-999.00	15.10	0.00	100.10	98.40	14.60	0.00	-999.00	-999.00	
4	1.60	0.00	104.30	-999.00	-999.00	-999.00	14.80	0.00	100.60	98.50	13.30	0.00	-999.00	-999.00	
5	1.60	0.00	104.20	-999.00	-999.00	-999.00	16.60	0.00	100.50	98.50	13.40	0.00	-999.00	-999.00	
6	1.60	0.00	104.20	-999.00	-999.00	-999.00	14.90	0.00	100.20	99.20	14.00	0.00	-999.00	-999.00	
7	1.60	0.00	104.10	-999.00	-999.00	-999.00	17.20	0.00	100.00	98.60	17.10	0.00	-999.00	-999.00	
8	1.60	0.00	104.20	-999.00	-999.00	-999.00	31.90	0.00	100.10	99.70	17.30	0.00	-999.00	-999.00	
9	1.60	0.00	104.40	-999.00	-999.00	-999.00	30.30	0.00	100.40	98.60	18.60	0.00	-999.00	-999.00	
10	1.60	0.00	104.70	-999.00	-999.00	-999.00	29.80	0.00	100.70	98.50	30.20	0.00	-999.00	-999.00	
11	1.60	0.00	105.30	-999.00	-999.00	-999.00	30.00	0.00	102.10	98.70	30.60	0.00	-999.00	-999.00	
12	1.60	0.00	105.90	-999.00	-999.00	-999.00	30.40	0.00	103.20	98.80	30.50	0.00	-999.00	-999.00	
13	1.60	0.00	106.60	-999.00	-999.00	-999.00	30.00	0.00	104.10	99.10	32.40	0.00	-999.00	-999.00	
14	1.60	0.00	107.10	-999.00	-999.00	-999.00	30.00	0.00	104.60	99.00	32.60	0.00	-999.00	-999.00	
15	1.60	0.00	107.30	-999.00	-999.00	-999.00	29.60	0.00	104.40	99.20	31.90	0.00	-999.00	-999.00	
16	1.60	0.00	107.30	-999.00	-999.00	-999.00	17.40	0.00	104.80	99.60	31.30	0.00	-999.00	-999.00	
17	1.60	0.00	107.00	-999.00	-999.00	-999.00	17.00	0.00	104.00	99.20	16.60	0.00	-999.00	-999.00	
18	1.60	0.00	106.30	-999.00	-999.00	-999.00	15.40	0.00	104.60	98.80	16.20	0.00	-999.00	-999.00	
19	2.00	0.00	105.50	-999.00	-999.00	-999.00	14.80	0.00	104.40	98.70	16.30	0.00	-999.00	-999.00	
20	2.90	0.00	104.20	-999.00	-999.00	-999.00	16.10	0.00	104.30	98.30	16.90	0.00	-999.00	-999.00	
21	4.80	0.00	101.00	-999.00	-999.00	-999.00	16.10	0.00	100.30	99.80	32.10	0.00	-999.00	-999.00	
22	3.50	0.00	99.70	-999.00	-999.00	-999.00	16.10	0.00	104.10	99.70	32.20	0.00	-999.00	-999.00	
23	2.50	0.00	100.00	-999.00	-999.00	-999.00	14.40	0.00	104.20	98.90	17.20	0.00	-999.00	-999.00	
24	1.60	0.00	99.80	-999.00	-999.00	-999.00	14.40	0.00	104.10	98.20	14.50	0.00	-999.00	-999.00	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	MCNARY	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.		
1	13.70	0.00	-999.00	-999.00	9.10	0.00	97.20	98.40	58.70	0.00	102.00	102.40	99.60	102.10	
2	13.80	0.00	-999.00	-999.00	9.10	0.00	96.90	97.70	65.80	0.00	102.00	102.50	99.60	101.90	
3	13.90	0.00	-999.00	-999.00	10.60	0.00	98.20	97.40	71.10	0.00	101.90	102.80	99.50	101.70	
4	13.90	0.00	-999.00	-999.00	10.00	0.00	98.80	97.70	75.60	0.00	102.00	102.20	99.50	101.50	
5	14.20	0.00	-999.00	-999.00	12.90	0.00	98.60	98.30	88.60	0.00	101.60	101.90	99.30	101.40	
6	14.50	0.00	-999.00	-999.00	14.80	0.00	98.60	98.50	119.50	0.00	100.80	102.10	99.30	101.30	
7	17.70	0.00	-999.00	-999.00	13.60	0.00	98.60	99.10	120.30	0.00	101.10	101.70	99.40	101.10	
8	17.70	0.00	-999.00	-999.00	13.40	0.00	99.00	98.80	120.50	0.00	101.60	101.70	99.50	100.90	
9	19.80	0.00	-999.00	-999.00	13.80	0.00	99.10	98.40	120.60	0.00	101.40	101.30	99.60	101.00	
10	18.10	0.00	-999.00	-999.00	24.30	0.00	99.40	98.80	117.50	0.00	101.40	101.10	99.80	101.00	
11	19.70	0.00	-999.00	-999.00	25.10	0.00	98.90	99.00	115.70	0.00	101.80	102.00	100.10	101.30	
12	32.20	0.00	-999.00	-999.00	30.70	0.00	97.80	98.80	111.20	0.00	100.40	102.50	100.30	101.70	
13	32.80	0.00	-999.00	-999.00	28.60	0.00	97.60	98.80	110.70	0.00	99.90	102.80	100.60	102.10	
14	32.90	0.00	-999.00	-999.00	27.60	0.00	97.80	98.70	110.60	0.00	102.10	103.60	100.90	102.60	
15	32.60	0.00	-999.00	-999.00	27.00	0.00	97.20	98.90	114.10	0.00	103.30	104.70	101.10	102.80	
16	31.80	0.00	-999.00	-999.00	28.60	0.00	97.60	99.00	113.90	0.00	101.30	105.60	101.40	103.00	
17	31.00	0.00	-999.00	-999.00	26.90	0.00	98.80	98.60	113.70	0.00	100.30	105.50	101.70	102.90	
18	16.70	0.00	-999.00	-999.00	25.10	0.00	99.20	99.10	113.50	0.00	101.30	105.50	101.70	102.90	
19	15.60	0.00	-999.00	-999.00	25.30	0.00	99.30	98.40	118.80	0.00	100.90	105.20	101.80	102.60	
20	16.90	0.00	-999.00	-999.00	21.00	0.00	99.10	98.30	105.70	0.00	100.70	104.60	101.60	102.70	
21	32.40	0.00	-999.00	-999.00	32.60	0.00	99.80	98.00	118.20	0.00	102.00	103.90	101.60	102.50	
22	33.00	0.00	-999.00	-999.00	33.00	0.00	101.60	98.40	106.00	0.00	104.60	103.90	101.30	102.40	
23	15.70	0.00	-999.00	-999.00	20.90	0.00	100.00	97.80	87.80	0.00	104.30	103.80	100.90	102.30	
24	14.30	0.00	-999.00	-999.00	13.50	0.00	98.90	97.60	86.00	0.00	104.00	103.90	100.80	102.10	

27 SEP 2003

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

27 SEP 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	LOWER GRANITE	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.		
1	1.60	0.00	100.00	-999.00	-999.00	-999.00	14.40	0.00	103.30	97.90	15.80	0.00	-999.00	-999.00	
2	1.60	0.00	102.20	-999.00	-999.00	-999.00	14.40	0.00	104.10	97.90	14.40	0.00	-999.00	-999.00	
3	1.60	0.00	103.20	-999.00	-999.00	-999.00	16.30	0.00	103.90	99.20	15.80	0.00	-999.00	-999.00	
4	1.60	0.00	103.60	-999.00	-999.00	-999.00	14.40	0.00	103.10	98.80	14.50	0.00	-999.00	-999.00	
5	1.60	0.00	103.60	-999.00	-999.00	-999.00	16.70	0.00	103.20	98.20	19.10	0.00	-999.00	-999.00	
6	1.60	0.00	103.70	-999.00	-999.00	-999.00	14.70	0.00	103.20	98.00	14.60	0.00	-999.00	-999.00	
7	1.60	0.00	103.70	-999.00	-999.00	-999.00	16.50	0.00	103.30	97.90	17.80	0.00	-999.00	-999.00	
8	1.60	0.00	103.80	-999.00	-999.00	-999.00	27.70	0.00	102.80	98.40	22.50	0.00	-999.00	-999.00	
9	1.60	0.00	104.10	-999.00	-999.00	-999.00	29.70	0.00	102.00	98.50	29.60	0.00	-999.00	-999.00	
10	1.60	0.00	104.40	-999.00	-999.00	-999.00	27.90	0.00	102.30	98.60	29.70	0.00	-999.00	-999.00	
11	1.60	0.00	104.90	-999.00	-999.00	-999.00	28.10	0.00	103.30	99.00	29.80	0.00	-999.00	-999.00	
12	1.60	0.00	105.50	-999.00	-999.00	-999.00	28.50	0.00	103.80	99.00	31.20	0.00	-999.00	-999.00	
13	1.60	0.00	106.30	-999.00	-999.00	-999.00	28.00	0.00	104.20	99.20	29.80	0.00	-999.00	-999.00	
14	1.60	0.00	106.50	-999.00	-999.00	-999.00	28.00	0.00	105.40	99.20	31.40	0.00	-999.00	-999.00	
15	1.60	0.00	106.80	-999.00	-999.00	-999.00	24.70	0.00	106.50	99.30	29.80	0.00	-999.00	-999.00	
16	1.60	0.00	106.70	-999.00	-999.00	-999.00	16.90	0.00	107.80	101.90	29.80	0.00	-999.00	-999.00	
17	1.60	0.00	106.40	-999.00	-999.00	-999.00	17.10	0.00	107.20	100.50	29.50	0.00	-999.00	-999.00	
18	1.60	0.00	105.90	-999.00	-999.00	-999.00	16.20	0.00	104.90	99.80	16.20	0.00	-999.00	-999.00	
19	1.60	0.00	105.20	-999.00	-999.00	-999.00	16.30	0.00	104.10	99.70	15.50	0.00	-999.00	-999.00	
20	1.60	0.00	104.50	-999.00	-999.00	-999.00	14.80	0.00	104.60	100.10	15.40	0.00	-999.00	-999.00	
21	1.60	0.00	104.10	-999.00	-999.00	-999.00	14.40	0.00	104.80	99.50	15.30	0.00	-999.00	-999.00	
22	1.60	0.00	104.00	-999.00	-999.00	-999.00	14.50	0.00	106.50	99.30	16.80	0.00	-999.00	-999.00	
23	1.60	0.00	104.00	-999.00	-999.00	-999.00	14.60	0.00	106.70	99.10	13.80	0.00	-999.00	-999.00	
24	1.60	0.00	104.00	-999.00	-999.00	-999.00	14.50	0.00	104.70	99.20	13.70	0.00	-999.00	-999.00	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	MCNARY	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	PASCO	
1	14.60	0.00	-999.00	-999.00	13.50	0.00	98.00	97.60	77.30	0.00	103.60	104.20	100.60	: 101.90	
2	14.30	0.00	-999.00	-999.00	13.50	0.00	96.80	97.50	84.70	0.00	102.90	103.80	100.60	: 101.70	
3	15.80	0.00	-999.00	-999.00	12.20	0.00	96.00	97.50	88.10	0.00	101.90	103.30	100.40	: 101.60	
4	14.40	0.00	-999.00	-999.00	14.00	0.00	95.60	97.90	89.90	0.00	101.20	102.90	100.40	: 101.50	
5	19.20	0.00	-999.00	-999.00	21.20	0.00	97.90	98.10	88.70	0.00	100.90	102.50	100.30	: 101.40	
6	14.70	0.00	-999.00	-999.00	19.90	0.00	99.90	98.10	102.70	0.00	101.40	102.20	100.20	: 101.20	
7	17.70	0.00	-999.00	-999.00	22.30	0.00	99.00	98.20	122.80	0.00	101.50	102.00	100.10	: 101.00	
8	27.50	0.00	-999.00	-999.00	24.60	0.00	98.20	98.20	126.00	0.00	101.30	101.80	100.30	: 101.00	
9	29.20	0.00	-999.00	-999.00	24.40	0.00	98.90	97.50	126.10	0.00	100.90	101.70	100.40	: 101.00	
10	29.80	0.00	-999.00	-999.00	26.20	0.00	98.70	97.70	126.00	0.00	101.10	102.10	100.40	: 101.00	
11	31.60	0.00	-999.00	-999.00	29.80	0.00	97.70	98.00	127.30	0.00	101.00	101.70	100.70	: 101.40	
12	31.00	0.00	-999.00	-999.00	31.60	0.00	96.90	98.60	125.50	0.00	101.40	101.40	100.70	: 101.70	
13	30.50	0.00	-999.00	-999.00	30.20	0.00	96.60	98.30	124.50	0.00	103.90	101.80	101.00	: 102.10	
14	30.10	0.00	-999.00	-999.00	30.60	0.00	98.70	99.00	125.40	0.00	103.00	101.60	101.20	: 102.70	
15	30.30	0.00	-999.00	-999.00	30.20	0.00	99.30	98.50	125.50	0.00	102.90	102.00	101.30	: 102.90	
16	31.70	0.00	-999.00	-999.00	31.70	0.00	98.90	98.60	129.40	0.00	103.00	104.00	101.50	: 103.20	
17	30.50	0.00	-999.00	-999.00	30.10	0.00	100.50	98.40	129.70	0.00	102.30	104.20	101.40	: 103.00	
18	29.80	0.00	-999.00	-999.00	31.60	0.00	100.70	98.80	128.80	0.00	100.70	104.00	101.50	: 103.00	
19	34.10	0.00	-999.00	-999.00	36.50	0.00	104.00	98.20	129.30	0.00	101.60	103.60	101.30	: 102.90	
20	26.60	0.00	-999.00	-999.00	34.60	0.00	104.60	99.00	128.90	0.00	101.20	103.30	101.20	: 102.90	
21	26.40	0.00	-999.00	-999.00	34.60	0.00	105.80	98.70	129.60	0.00	101.30	103.20	101.30	: 102.70	
22	26.60	0.00	-999.00	-999.00	34.20	0.00	106.00	98.00	129.00	0.00	101.30	103.50	101.30	: 102.60	
23	14.00	0.00	-999.00	-999.00	20.60	0.00	101.30	97.80	105.50	0.00	100.80	102.80	101.10	: 102.40	
24	14.90	0.00	-999.00	-999.00	13.20	0.00	98.10	97.80	101.90	0.00	101.40	102.60	101.20	: 102.30	

28 SEP 2003

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

28 SEP 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. TAILW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	LOWER GRANITE	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.		
1	1.60	0.00	103.90	-999.00	-999.00	-999.00	14.50	0.00	105.00	99.30	13.60	0.00	-999.00	-999.00	
2	1.60	0.00	103.90	-999.00	-999.00	-999.00	14.50	0.00	104.90	99.60	13.80	0.00	-999.00	-999.00	
3	1.60	0.00	104.00	-999.00	-999.00	-999.00	14.50	0.00	104.50	99.60	13.70	0.00	-999.00	-999.00	
4	1.60	0.00	103.90	-999.00	-999.00	-999.00	14.60	0.00	103.80	99.60	13.70	0.00	-999.00	-999.00	
5	1.60	0.00	103.90	-999.00	-999.00	-999.00	14.80	0.00	102.70	99.40	13.70	0.00	-999.00	-999.00	
6	1.60	0.00	103.90	-999.00	-999.00	-999.00	14.60	0.00	103.10	99.40	13.80	0.00	-999.00	-999.00	
7	1.60	0.00	103.90	-999.00	-999.00	-999.00	14.60	0.00	102.70	99.30	13.80	0.00	-999.00	-999.00	
8	1.60	0.00	103.90	-999.00	-999.00	-999.00	14.60	0.00	102.50	99.40	13.80	0.00	-999.00	-999.00	
9	1.60	0.00	104.30	-999.00	-999.00	-999.00	14.60	0.00	102.60	99.50	13.80	0.00	-999.00	-999.00	
10	1.60	0.00	104.70	-999.00	-999.00	-999.00	14.60	0.00	103.00	99.50	13.60	0.00	-999.00	-999.00	
11	1.60	0.00	105.20	-999.00	-999.00	-999.00	14.60	0.00	103.20	99.70	13.60	0.00	-999.00	-999.00	
12	1.60	0.00	105.80	-999.00	-999.00	-999.00	14.60	0.00	103.20	99.90	13.70	0.00	-999.00	-999.00	
13	1.60	0.00	106.40	-999.00	-999.00	-999.00	14.60	0.00	106.40	100.10	13.70	0.00	-999.00	-999.00	
14	1.60	0.00	106.90	-999.00	-999.00	-999.00	14.80	0.00	106.40	100.50	15.10	0.00	-999.00	-999.00	
15	1.60	0.00	107.10	-999.00	-999.00	-999.00	14.50	0.00	106.50	100.80	13.70	0.00	-999.00	-999.00	
16	1.60	0.00	107.10	-999.00	-999.00	-999.00	14.50	0.00	108.20	100.90	13.70	0.00	-999.00	-999.00	
17	1.60	0.00	106.80	-999.00	-999.00	-999.00	14.50	0.00	106.60	101.10	13.70	0.00	-999.00	-999.00	
18	1.60	0.00	106.20	-999.00	-999.00	-999.00	16.20	0.00	104.90	101.20	13.70	0.00	-999.00	-999.00	
19	1.60	0.00	105.50	-999.00	-999.00	-999.00	14.50	0.00	106.70	101.70	13.70	0.00	-999.00	-999.00	
20	1.60	0.00	104.70	-999.00	-999.00	-999.00	14.50	0.00	105.90	101.40	13.70	0.00	-999.00	-999.00	
21	1.60	0.00	104.60	-999.00	-999.00	-999.00	16.20	0.00	106.20	101.10	13.70	0.00	-999.00	-999.00	
22	1.60	0.00	104.40	-999.00	-999.00	-999.00	14.70	0.00	106.80	100.80	13.60	0.00	-999.00	-999.00	
23	1.60	0.00	104.30	-999.00	-999.00	-999.00	14.50	0.00	106.30	100.70	13.60	0.00	-999.00	-999.00	
24	1.60	0.00	104.30	-999.00	-999.00	-999.00	14.50	0.00	105.50	100.40	12.90	0.00	-999.00	-999.00	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB	MCNARY	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	PASCO	
1	13.40	0.00	-999.00	-999.00	12.80	0.00	96.60	97.70	0.00	102.60	102.70	101.00	0.00	102.10	
2	13.40	0.00	-999.00	-999.00	14.00	0.00	96.30	97.50	0.00	102.40	102.40	100.60	0.00	-999.00	
3	13.70	0.00	-999.00	-999.00	12.40	0.00	96.30	97.50	0.00	102.40	102.30	100.60	0.00	-999.00	
4	13.40	0.00	-999.00	-999.00	12.20	0.00	96.40	97.90	0.00	102.00	102.10	100.40	0.00	-999.00	
5	13.40	0.00	-999.00	-999.00	9.90	0.00	97.20	98.30	0.00	101.90	102.00	100.40	0.00	-999.00	
6	13.50	0.00	-999.00	-999.00	11.10	0.00	98.50	98.20	0.00	101.70	101.60	100.40	0.00	101.30	
7	13.40	0.00	-999.00	-999.00	9.80	0.00	99.70	98.80	0.00	101.60	101.50	100.20	0.00	101.20	
8	13.70	0.00	-999.00	-999.00	9.70	0.00	99.90	98.70	0.00	100.90	101.20	100.40	0.00	101.10	
9	13.90	0.00	-999.00	-999.00	9.70	0.00	99.80	98.20	0.00	101.10	101.50	100.70	0.00	101.10	
10	13.90	0.00	-999.00	-999.00	9.70	0.00	99.80	98.40	0.00	101.40	101.60	100.90	0.00	101.30	
11	13.90	0.00	-999.00	-999.00	9.70	0.00	99.50	99.70	0.00	101.90	102.10	101.10	0.00	101.50	
12	15.40	0.00	-999.00	-999.00	11.40	0.00	99.90	99.70	0.00	101.80	103.30	101.30	0.00	101.90	
13	14.20	0.00	-999.00	-999.00	9.70	0.00	99.70	99.90	0.00	101.60	104.10	101.40	0.00	102.40	
14	13.90	0.00	-999.00	-999.00	9.90	0.00	100.20	100.30	0.00	101.40	104.40	101.80	0.00	102.70	
15	13.90	0.00	-999.00	-999.00	9.90	0.00	100.50	100.60	0.00	101.90	104.90	101.80	0.00	103.10	
16	13.90	0.00	-999.00	-999.00	11.50	0.00	101.10	100.80	0.00	101.10	105.20	101.60	0.00	103.40	
17	13.90	0.00	-999.00	-999.00	9.80	0.00	101.20	101.70	0.00	102.40	100.50	105.10	0.00	103.60	
18	14.20	0.00	-999.00	-999.00	11.20	0.00	100.60	101.10	0.00	100.60	104.90	102.00	0.00	103.60	
19	14.00	0.00	-999.00	-999.00	9.70	0.00	100.20	100.40	0.00	100.70	104.90	101.70	0.00	103.50	
20	14.00	0.00	-999.00	-999.00	9.70	0.00	99.70	100.00	0.00	100.60	103.90	101.60	0.00	103.40	
21	13.90	0.00	-999.00	-999.00	9.80	0.00	100.00	100.40	0.00	103.00	103.40	101.80	0.00	103.30	
22	13.90	0.00	-999.00	-999.00	11.10	0.00	99.40	99.80	0.00	103.70	102.70	101.70	0.00	103.10	
23	14.20	0.00	-999.00	-999.00	9.60	0.00	99.10	99.40	0.00	103.10	103.00	101.40	0.00	102.80	
24	13.90	0.00	-999.00	-999.00	9.50	0.00	98.70	99.70	0.00	102.90	102.90	101.20	0.00	102.70	

29 SEP 2003

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

29 SEP 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. TAI LW.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAI LW.	LOWER GRANITE	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAI LW.		
1	1.60	0.00	104.30	-999.00	-999.00	-999.00	14.50	0.00	105.10	100.30	13.00	0.00	-999.00	-999.00	
2	1.60	0.00	104.20	-999.00	-999.00	-999.00	14.50	0.00	103.80	100.30	13.90	0.00	-999.00	-999.00	
3	1.60	0.00	104.20	-999.00	-999.00	-999.00	14.60	0.00	103.40	100.20	13.10	0.00	-999.00	-999.00	
4	1.60	0.00	104.20	-999.00	-999.00	-999.00	14.50	0.00	104.30	100.20	13.20	0.00	-999.00	-999.00	
5	1.60	0.00	104.20	-999.00	-999.00	-999.00	14.60	0.00	103.80	100.00	13.20	0.00	-999.00	-999.00	
6	1.60	0.00	104.40	-999.00	-999.00	-999.00	14.60	0.00	102.50	99.80	13.30	0.00	-999.00	-999.00	
7	1.60	0.00	104.50	-999.00	-999.00	-999.00	14.80	0.00	102.30	99.70	13.20	0.00	-999.00	-999.00	
8	1.60	0.00	104.40	-999.00	-999.00	-999.00	14.50	0.00	102.20	99.50	13.80	0.00	-999.00	-999.00	
9	1.60	0.00	104.70	-999.00	-999.00	-999.00	14.50	0.00	102.30	99.40	15.10	0.00	-999.00	-999.00	
10	1.60	0.00	105.00	-999.00	-999.00	-999.00	14.50	0.00	102.10	99.30	13.20	0.00	-999.00	-999.00	
11	1.60	0.00	105.50	-999.00	-999.00	-999.00	14.50	0.00	102.00	99.30	13.10	0.00	-999.00	-999.00	
12	1.60	0.00	105.90	-999.00	-999.00	-999.00	14.50	0.00	102.00	99.50	13.10	0.00	-999.00	-999.00	
13	1.60	0.00	106.40	-999.00	-999.00	-999.00	16.20	0.00	102.20	100.20	13.00	0.00	-999.00	-999.00	
14	1.60	0.00	107.20	-999.00	-999.00	-999.00	14.50	0.00	103.20	100.40	14.40	0.00	-999.00	-999.00	
15	1.60	0.00	107.30	-999.00	-999.00	-999.00	14.70	0.00	103.00	100.30	13.00	0.00	-999.00	-999.00	
16	1.60	0.00	107.30	-999.00	-999.00	-999.00	14.50	0.00	102.70	100.20	14.40	0.00	-999.00	-999.00	
17	1.60	0.00	107.10	-999.00	-999.00	-999.00	19.50	0.00	104.10	100.20	12.90	0.00	-999.00	-999.00	
18	1.60	0.00	106.40	-999.00	-999.00	-999.00	16.10	0.00	102.60	100.70	12.90	0.00	-999.00	-999.00	
19	1.60	0.00	105.70	-999.00	-999.00	-999.00	14.50	0.00	104.50	100.50	13.10	0.00	-999.00	-999.00	
20	1.60	0.00	104.90	-999.00	-999.00	-999.00	16.20	0.00	105.30	100.50	14.40	0.00	-999.00	-999.00	
21	1.60	0.00	104.50	-999.00	-999.00	-999.00	15.20	0.00	106.60	100.70	13.00	0.00	-999.00	-999.00	
22	1.60	0.00	104.30	-999.00	-999.00	-999.00	15.90	0.00	105.20	100.60	12.90	0.00	-999.00	-999.00	
23	1.60	0.00	104.30	-999.00	-999.00	-999.00	15.10	0.00	104.40	100.50	13.00	0.00	-999.00	-999.00	
24	1.60	0.00	104.20	-999.00	-999.00	-999.00	14.50	0.00	104.10	100.40	12.90	0.00	-999.00	-999.00	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT. FB TAI LW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAI LW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAI LW.	MCNARY	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAI LW.		
1	15.50	0.00	-999.00	-999.00	10.70	0.00	98.40	99.00	59.40	0.00	102.50	103.20	100.90	102.50	
2	14.00	0.00	-999.00	-999.00	12.10	0.00	98.70	98.80	58.30	0.00	103.00	103.20	101.00	102.40	
3	13.90	0.00	-999.00	-999.00	10.50	0.00	99.00	99.60	56.10	0.00	102.70	103.10	101.00	102.40	
4	15.60	0.00	-999.00	-999.00	10.10	0.00	98.90	99.10	57.90	0.00	102.70	102.70	101.10	102.20	
5	13.70	0.00	-999.00	-999.00	10.60	0.00	100.20	98.80	75.10	0.00	102.20	102.60	101.00	102.00	
6	15.30	0.00	-999.00	-999.00	13.40	0.00	99.00	98.90	76.00	0.00	102.10	102.30	101.00	101.90	
7	13.70	0.00	-999.00	-999.00	13.60	0.00	97.80	99.00	81.20	0.00	101.90	102.70	100.90	101.60	
8	14.10	0.00	-999.00	-999.00	12.20	0.00	96.80	98.70	96.00	0.00	101.70	102.60	100.80	101.30	
9	14.30	0.00	-999.00	-999.00	12.00	0.00	97.30	98.80	96.10	0.00	101.70	102.50	101.00	101.10	
10	15.60	0.00	-999.00	-999.00	13.30	0.00	99.30	99.70	96.50	0.00	101.40	103.20	101.10	101.20	
11	14.10	0.00	-999.00	-999.00	13.30	0.00	99.40	100.10	96.00	0.00	102.70	102.50	101.40	101.50	
12	14.10	0.00	-999.00	-999.00	13.30	0.00	98.60	100.10	82.30	0.00	103.10	102.10	101.70	101.70	
13	13.90	0.00	-999.00	-999.00	12.00	0.00	99.30	100.10	81.50	0.00	102.50	102.40	101.50	102.20	
14	15.30	0.00	-999.00	-999.00	12.20	0.00	100.10	100.20	80.70	0.00	102.90	102.90	101.60	102.70	
15	13.70	0.00	-999.00	-999.00	12.00	0.00	100.00	100.30	81.50	0.00	102.60	102.50	101.50	103.10	
16	15.70	0.00	-999.00	-999.00	12.00	0.00	99.30	100.40	81.40	0.00	102.60	102.40	101.60	103.60	
17	15.80	0.00	-999.00	-999.00	13.40	0.00	98.80	100.20	95.60	0.00	102.10	104.90	101.60	103.80	
18	14.10	0.00	-999.00	-999.00	12.00	0.00	98.00	99.90	124.70	0.00	102.30	104.50	101.60	104.00	
19	13.60	0.00	-999.00	-999.00	12.30	0.00	98.40	99.60	125.40	0.00	103.20	103.90	101.50	103.80	
20	13.60	0.00	-999.00	-999.00	13.10	0.00	98.20	99.30	125.00	0.00	102.60	103.70	101.30	103.60	
21	13.50	0.00	-999.00	-999.00	26.80	0.00	98.20	99.60	124.10	0.00	102.10	102.90	101.20	103.30	
22	13.50	0.00	-999.00	-999.00	28.20	0.00	98.10	99.00	122.10	0.00	101.40	103.00	101.20	102.90	
23	13.50	0.00	-999.00	-999.00	21.40	0.00	99.00	98.30	106.30	0.00	101.80	103.50	101.10	102.60	
24	13.40	0.00	-999.00	-999.00	10.50	0.00	98.60	97.70	96.50	0.00	100.90	102.50	101.10	102.30	

30 SEP 2003

**WALLA WALLA DISTRICT HYDRO PROJECTS
HOURLY OPERATIONAL REPORT**

30 SEP 2003

DWORSHAK				STREAMFLOW				LOWER GRANITE				LITTLE GOOSE			
HOUR:	TOTAL DISCH. KCFS	SPILL KCFS	GAS %SAT.	ANATONE GAS %SAT	PECK GAS %SAT	LEWISTON GAS %SAT	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.			
1	1.60	0.00	104.10	-999.00	-999.00	-999.00	14.70	0.00	103.40	100.20	13.10	0.00	-999.00	-999.00	
2	1.60	0.00	104.10	-999.00	-999.00	-999.00	14.70	0.00	102.80	100.00	14.40	0.00	-999.00	-999.00	
3	1.60	0.00	104.10	-999.00	-999.00	-999.00	14.60	0.00	103.10	99.90	13.00	0.00	-999.00	-999.00	
4	1.60	0.00	104.10	-999.00	-999.00	-999.00	14.60	0.00	102.00	99.80	13.00	0.00	-999.00	-999.00	
5	1.60	0.00	104.00	-999.00	-999.00	-999.00	14.60	0.00	101.70	99.60	13.00	0.00	-999.00	-999.00	
6	1.60	0.00	104.00	-999.00	-999.00	-999.00	14.50	0.00	101.80	99.40	12.90	0.00	-999.00	-999.00	
7	1.60	0.00	103.90	-999.00	-999.00	-999.00	14.50	0.00	101.30	99.00	13.60	0.00	-999.00	-999.00	
8	1.60	0.00	104.00	-999.00	-999.00	-999.00	14.70	0.00	100.70	98.60	13.60	0.00	-999.00	-999.00	
9	1.60	0.00	104.10	-999.00	-999.00	-999.00	14.40	0.00	100.40	98.40	15.00	0.00	-999.00	-999.00	
10	1.60	0.00	-999.00	-999.00	-999.00	-999.00	14.50	0.00	100.30	-999.00	13.60	0.00	-999.00	-999.00	
11	1.60	0.00	-999.00	-999.00	-999.00	-999.00	16.10	0.00	100.50	-999.00	13.60	0.00	-999.00	-999.00	
12	1.60	0.00	-999.00	-999.00	-999.00	-999.00	14.40	0.00	101.10	-999.00	13.70	0.00	-999.00	-999.00	
13	1.60	0.00	-999.00	-999.00	-999.00	-999.00	18.50	0.00	100.80	-999.00	17.60	0.00	-999.00	-999.00	
14	-999.00	-999.00	-999.00	-999.00	-999.00	-999.00	-999.00	-999.00	-999.00	-999.00	-999.00	-999.00	-999.00	-999.00	
15	-999.00	-999.00	-999.00	-999.00	-999.00	-999.00	-999.00	-999.00	-999.00	-999.00	-999.00	-999.00	-999.00	-999.00	
16	-999.00	-999.00	-999.00	-999.00	-999.00	-999.00	-999.00	-999.00	-999.00	-999.00	-999.00	-999.00	-999.00	-999.00	
17	-999.00	-999.00	-999.00	-999.00	-999.00	-999.00	-999.00	-999.00	-999.00	-999.00	-999.00	-999.00	-999.00	-999.00	
18	-999.00	-999.00	-999.00	-999.00	-999.00	-999.00	-999.00	-999.00	-999.00	-999.00	-999.00	-999.00	-999.00	-999.00	
19	-999.00	-999.00	-999.00	-999.00	-999.00	-999.00	-999.00	-999.00	-999.00	-999.00	-999.00	-999.00	-999.00	-999.00	
20	-999.00	-999.00	-999.00	-999.00	-999.00	-999.00	-999.00	-999.00	-999.00	-999.00	-999.00	-999.00	-999.00	-999.00	
21	-999.00	-999.00	-999.00	-999.00	-999.00	-999.00	-999.00	-999.00	-999.00	-999.00	-999.00	-999.00	-999.00	-999.00	
22	-999.00	-999.00	-999.00	-999.00	-999.00	-999.00	-999.00	-999.00	-999.00	-999.00	-999.00	-999.00	-999.00	-999.00	
23	-999.00	-999.00	-999.00	-999.00	-999.00	-999.00	-999.00	-999.00	-999.00	-999.00	-999.00	-999.00	-999.00	-999.00	
24	-999.00	-999.00	-999.00	-999.00	-999.00	-999.00	-999.00	-999.00	-999.00	-999.00	-999.00	-999.00	-999.00	-999.00	

LOWER MONUMENTAL				ICE HARBOR				MCNARY				PASCO			
HOUR:	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.	TOTAL DISCH KCFS	SPILL KCFS	GAS %SAT. FB TAILW.			
1	14.80	0.00	-999.00	-999.00	9.60	0.00	98.60	97.60	88.30	0.00	100.90	101.90	101.00		102.00
2	13.30	0.00	-999.00	-999.00	11.00	0.00	99.50	97.30	85.50	0.00	101.40	101.80	100.80		101.80
3	13.70	0.00	-999.00	-999.00	10.70	0.00	99.50	97.50	96.20	0.00	101.60	101.40	100.90		101.50
4	13.80	0.00	-999.00	-999.00	10.80	0.00	99.00	97.80	97.90	0.00	101.40	101.60	100.70		101.20
5	13.90	0.00	-999.00	-999.00	12.30	0.00	98.00	97.90	109.10	0.00	100.80	101.40	100.70		101.00
6	13.70	0.00	-999.00	-999.00	13.90	0.00	96.90	98.30	110.10	0.00	100.50	101.10	100.50		100.90
7	15.20	0.00	-999.00	-999.00	12.10	0.00	96.20	98.80	119.50	0.00	100.40	101.30	100.30		100.70
8	13.70	0.00	-999.00	-999.00	13.30	0.00	96.70	97.40	120.10	0.00	100.70	101.00	100.30		100.50
9	13.90	0.00	-999.00	-999.00	14.80	0.00	96.50	97.90	117.50	0.00	100.30	100.90	100.30		100.40
10	15.30	0.00	-999.00	-999.00	13.40	0.00	-999.00	-999.00	116.50	0.00	100.70	-999.00	100.30		-999.00
11	14.50	0.00	-999.00	-999.00	13.60	0.00	-999.00	-999.00	106.70	0.00	101.10	-999.00	100.30		-999.00
12	14.50	0.00	-999.00	-999.00	13.30	0.00	-999.00	-999.00	101.30	0.00	101.30	-999.00	100.60		-999.00
13	16.10	0.00	-999.00	-999.00	13.40	0.00	-999.00	-999.00	97.50	0.00	100.80	-999.00	100.70		-999.00
14	-999.00	-999.00	-999.00	-999.00	-999.00	-999.00	-999.00	-999.00	-999.00	-999.00	-999.00	-999.00	-999.00	-999.00	-999.00
15	-999.00	-999.00	-999.00	-999.00	-999.00	-999.00	-999.00	-999.00	-999.00	-999.00	-999.00	-999.00	-999.00	-999.00	-999.00
16	-999.00	-999.00	-999.00	-999.00	-999.00	-999.00	-999.00	-999.00	-999.00	-999.00	-999.00	-999.00	-999.00	-999.00	-999.00
17	-999.00	-999.00	-999.00	-999.00	-999.00	-999.00	-999.00	-999.00	-999.00	-999.00	-999.00	-999.00	-999.00	-999.00	-999.00
18	-999.00	-999.00	-999.00	-999.00	-999.00	-999.00	-999.00	-999.00	-999.00	-999.00	-999.00	-999.00	-999.00	-999.00	-999.00
19	-999.00	-999.00	-999.00	-999.00	-999.00	-999.00	-999.00	-999.00	-999.00	-999.00	-999.00	-999.00	-999.00	-999.00	-999.00
20	-999.00	-999.00	-999.00	-999.00	-999.00	-999.00	-999.00	-999.00	-999.00	-999.00	-999.00	-999.00	-999.00	-999.00	-999.00
21	-999.00	-999.00	-999.00	-999.00	-999.00	-999.00	-999.00	-999.00	-999.00	-999.00	-999.00	-999.00	-999.00	-999.00	-999.00
22	-999.00	-999.00	-999.00	-999.00	-999.00	-999.00	-999.00	-999.00	-999.00	-999.00	-999.00	-999.00	-999.00	-999.00	-999.00
23	-999.00	-999.00	-999.00	-999.00	-999.00	-999.00	-999.00	-999.00	-999.00	-999.00	-999.00	-999.00	-999.00	-999.00	-999.00
24	-999.00	-999.00	-999.00	-999.00	-999.00	-999.00	-999.00	-999.00	-999.00	-999.00	-999.00	-999.00	-999.00	-999.00	-999.00