

## John Day Dam<sup>1</sup>

### 1. Special Project Operations.

**1.1. Spill.** Spill for fish passage will be provided during the spring and summer outmigration seasons in accordance with spill specifications in Appendix E Fish Operations Plan (FOP) and as coordinated through TMT. The precise spill level (30 or 40%) is currently under discussion within the regional forum. The FPP will be updated once a final decision is made. Alternative spill patterns to control dissolved gas levels or change fish passage conditions will be coordinated through the FPOM. Planning dates for spill are from April 10 through August 31 for spring and summer migrants as required in the 2008 BiOp.

### 2. Studies.

**2.1. Adult Lamprey Studies.** Half-duplex PIT antennas and receivers will be operational to monitor adult lamprey passage no later than mid-May. Access to PIT antennas and receivers for downloading and maintenance will be needed from March until August. Any new antenna or receiver installations will be completed during the 2010-2011 IWW period. JSATS-tagged adult lamprey will be released in the Bonneville Dam forebay and mobile tracked by boat through the reservoir reaches, tributary mouths, and tailraces of upstream dams. This work may require a permit for access to the tailrace BRZ of John Day Dam.

Underwater video cameras and red or infrared LED lighting will be operated behind picket leads at both count stations to estimate the number of adult Pacific lamprey that bypass fish count stations through picketed leads. Cameras will be operated 24 hours/day from April 1 – October 31. Aside from providing personnel access for deployment and operation of video equipment, no special modifications to the fishway or fishway operations are needed for this study.

**2.2. Adult Salmon Studies.** No adult salmon passage studies are planned for the 2011 adult passage season. Any new radiotelemetry antenna or receiver installations or maintenance will be completed during the 2010-2011 IWW period.

**2.3. BiOp Performance Standard Compliance Test.** In 2011, PNNL will conduct the first year of a two year study to assess compliance with the BiOp Juvenile Salmon Performance Standard. This test will utilize acoustic telemetry to estimate dam passage survival for yearling and subyearling Chinook salmon and juvenile steelhead. Hydrophones will be deployed on the upstream face of the dam to monitor all major routes of passage available to juvenile salmon. In addition, hydrophones will be deployed in the forebays of the spillway and first and second powerhouse. Autonomous receivers will be deployed in both the Forebay and tailrace each approximately two kilometers from the dam.

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<sup>1</sup> The purpose of this section is to notify regional interests of planned activities that will or may affect fish passage. Further coordination may occur as needed.

**2.4. Out of Criteria Operations Related to Research.** Emergency outages may be requested for replacement or repair of damaged equipment during the study. These will be coordinated through FFDRWG/FPOM and RCC. Approximately every two weeks from May through July, battery changes will be necessary for hydrophones located in the JDA forebay.

**2.5. Summary.** All dates shown are approximate and could be advanced or delayed by a week or so depending on various factors such as river flows, contractor schedules, and equipment failures, etc. Some evaluations may not proceed. Therefore, a final description of studies and outages being conducted will be coordinated with the region through AFEP (FFDRWG and SRWG), prior to April 1. All special operation requests or schedule changes will be coordinated with the fisheries agencies and tribes through the AFEP and with RCC and BPA.