

## **SYSTEM OPERATIONAL REQUEST: #2004-10**

*The following State, Federal, and Tribal Salmon Managers have participated in the preparation and support this SOR: U.S. Fish & Wildlife Service, Idaho Department of Fish and Game, Oregon Department of Fish and Wildlife, the Washington Department of Fish and Wildlife, NOAA Fisheries Service, Shoshone-Bannock Tribes, and the Columbia River Inter Tribal Fish Commission.*

<b>TO:</b>	<b>B. G. Grisoli</b>	<b>COE-NWD</b>
	<b>William Branch</b>	<b>COE-Water Management</b>
	<b>Cindy Henriksen</b>	<b>COE-RCC</b>
	<b>Witt Anderson</b>	<b>COE-P</b>
	<b>LTC Charles S. Markham</b>	<b>COE-Portland District</b>
	<b>LTC Kertis, Jr.</b>	<b>COE-Walla Walla District</b>
	<b>J. William McDonald</b>	<b>USBR-Boise Regional Director</b>
	<b>Stephen J. Wright</b>	<b>BPA-Administrator</b>
	<b>Greg Delwiche</b>	<b>BPA-PG-5</b>



**FROM:** David A. Wills, Chairperson, Salmon Managers

**DATE:** May 18, 2004

**SUBJECT:** Implementation of Full BIOP Spill and Compensation for Reduced BIOP Spill at The Dalles and John Day Dams.

### **SPECIFICATIONS:**

- Assure spill at John Day and The Dalles Dams is provided to the full Biological Opinion Levels (40% of total flow for 24-hours at The Dalles and 60% of total flow for 12-hours at John Day).
- Compensate for spill below the Biological Opinion levels between April 12, 2004 and May 17, 2004 at John Day (295 KAF) and The Dalles Dams (106 KAF)<sup>1</sup>. In order to “true up” the difference in planned and actual spill volumes provided, extend the spill interval at John Day Dam to a 12 hour spill program (6AM to 6PM) until the planned and actual spill volumes are equal.

### **JUSTIFICATION:**

The 2000 BIOP calls for 40% (of total flow) spill for 24 hours at The Dalles and 60% (of total flow) spill at John Day for 12 hours<sup>2</sup>. Spill began at both John Day and The Dalles Dams on

---

<sup>1</sup> NOAA Fisheries does not concur with spill compensation from The Dalles Dam.

<sup>2</sup> Spill is reduced to 11-hours a day after May 15th.

April 12, 2004. For each hour of each day that spill occurred at John Day and The Dalles, the spill amount that corresponded to the BIOP level (40% at TDA and 60% at JDA) of that hourly flow was calculated<sup>3</sup>. The actual hourly spill amount was subtracted from the hourly-calculated BIOP spill value, providing a calculation of the difference between BIOP spill and actual spill, these differences were summed over the entire period between April 12, 2004 and May 17, 2004. Some periods contained more spill than required in the BIOP, during these periods the difference between BIOP spill and actual spill was negative, which when summed, credited the project with spill. Also, TDG exceeded the 115% standard in The Dalles forebay on 5-6-04 and 5-7-04, therefore spill below the BIOP level on 5-8-04 at John Day was not counted in the sum total of differences between BIOP spill and actual spill as spill had to be reduced below BIOP levels to lower TDG at The Dalles forebay.

In total from April 12, 2004 to May 17, 2004:

- Spill was 295 KAF short of that needed to maintain the 60% spill for 12-hours at John Day (11-hours per day after May 15, 2004).
- Spill was 106 KAF short of that needed to maintain the 40% spill for 24-hours at The Dalles

---

<sup>3</sup> The difference between BIOP spill and actual spill at John Day was calculated for 12-hours a day from April 12-May 14, this calculation usually did not include the first hour of transition into spill each day. Beyond May 15, calculations were modified in accordance with the reduction of BIOP spill at John Day to 11-hours per day.