

**APPENDIX A: THE DALLES**

## The Dalles Dam<sup>1</sup>

### 1. Special Project Operations

RCC will coordinate needed changes with the project and authorize operations changes with issuance of a teletype describing the regulations.

**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 (FOP) and as coordinated through TMT. Alternative spill patterns to control dissolved gas levels or change fish passage conditions will be coordinated through the FPOM.

**1.2. Spillwall Construction.** Construction of a spillway training wall (spillwall) extending downstream from the spillway between spillbays 8 and 9 will be completed during the in-water work period of 2009-10. As in 2008, a hard constraint for a 76.5' msl working hours and 76.0' all other hours tailwater elevation at The Dalles Dam will be needed for the entire construction period (8 September 2009 – 1 April 2010) to prevent construction barges from grounding in the shallow tailrace. The Corps has been and will continue to work with RCC, TMT, and the construction contractor to look for flexibility in this constraint and coordinate activities. New spill patterns developed for the new configuration will be coordinated through FFDRWG, FPOM, and RCC and included in this document.

### 2. Studies.

**2.1. Adult Lamprey Studies.** Half-duplex PIT and radio-telemetry antennas and receivers will be operational to monitor adult lamprey passage no later than mid-May. Access to RT antenna and receivers for downloading and maintenance will be needed from March until August. Any new antenna or receiver installations will be completed during the 2009-2010 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 The Dalles Dam.

**2.2. Adult Salmon Studies.** Half-duplex PIT and radio-telemetry tagged adult Spring Chinook salmon (tagged at Bonneville Dam) will be used to evaluate adult salmon passage, with particular emphasis on assessing the effects of the new 8/9 spillwall and associated spill pattern. Radio-telemetry antennas and receivers will be operational to monitor adult Spring Chinook salmon passage no later than the end of March. Access to radio-telemetry 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 2009-2010 IWW period.

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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.

**2.3. Steelhead Ice Trash Sluiceway Passage Study.** Hydroacoustic data collection in the sluiceway and at turbine intakes will continue through April 10. All main units and sluice gates will be monitored for passage of adult steelhead kelts and kelt-sized targets. Equipment removal will occur by modified hoist and should not require main unit, fish unit and sluiceway outages. If outages are required for unforeseen problems, they will be coordinated through regional managers.

**2.4 Lower Columbia River Survival Study.** A project survival study will be conducted in the Spring of 2010. This acoustic telemetry study will serve as a post-construction evaluation of the new spillwall and as the first year of 2008 BiOp Performance Standard testing for yearling and subyearling Chinook salmon and steelhead. Data will include standard survival and passage behavior metrics. The study period runs from approximately 20 April to 20 July depending on fish availability at John Day Dam. 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 TD forebay. This may require a BRZ permit for forebay access which may impact the level of spill allowed.

**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. All special operation requests or schedule changes will be coordinated with the fisheries agencies and tribes through the AFEP and with RCC, TMT, and BPA.