The Dalles Dam[1]

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.

2. Studies.

2.1. Adult Lamprey Studies. Half-duplex PIT will be operational to monitor adult lamprey passage no later than mid-May. Access to 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 The Dalles Dam.

Underwater video cameras and red or infared 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 cutting small access holes in grating for deployment and operation of video equipment, no special modifications to fishways or fishway operations are needed for this study. These grating modifications will occur during the 2010-2011 IWW period.

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. Steelhead Ice Trash Sluiceway Passage Study. Hydroacoustic data collection may occur from February 15 – April 1, pending regional prioritization of this study and operation of the Ice and Trash Sluiceway (ITS) from March 1 – April 1. If the ITS remains closed from March 1 – April 1, all main units may be monitored for passage of adult steelhead and kelt-sized targets.

Another evaluation is being planned for November 15 – December 15, during which hydroacoustic equipment would be used to monitor passage via both the ITS (open sluice gates) and turbines. If outages are required for unforeseen problems, they will be

[1] 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.

coordinated through regional managers. As of January 15, dates and specific operations for either evaluation have not been determined. Specific operations will be coordinated with regional managers and The Dalles Dam Project. All equipment removal will occur by modified hoist and should not require main unit, fish unit and sluiceway outages.

2.4 BiOp Performance Standard Testing. In 2011, PNNL will conduct the second 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 powerhouse. Autonomous receivers will be deployed in both the Forebay and tailrace each approximately two kilometers from the dam.

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.