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**THE DALLES FISHWAY PROTECTION FOR UPSTREAM OIL SPILLS**

With increasing transport of oil by rail along the Columbia River, concern was raised for fishway protection in the event of a catastrophic oil spill. Initially the plan was to deploy temporary skirted boom when a spill occurs via project spill response team. However, after several drills, timing and feasibility showed unlikely success. Therefore a permanent boom was chosen as a protection measure for the east fishladder exit. This is the same protection method used for Bonneville. The plan for this installation was coordinated with FPOM. Installation is planned for 2016. The north fishway has a steel debris guard that may work, but evaluation of need for more booms will follow.

On a larger scale, oil containment and recovery is preferred. The dam is considered a barrier for containment. Therefore, multiple operational changes may be required. The following are possible operational changes and considerations for each. These changes may be made prior to the formation of unified command. Unified command will make decisions once formed.

**Fishladders** - monitor for oil entrainment; deploy secondary absorbent boom; partially close the exit bulkhead if needed; fully close exit bulkhead and dewater fishway if needed. Considerations are run timing, oil type, and staff availability.

**Fishways AWS** –deploy boom PUD intake, monitor for oil entrainment; reduce unit loads if needed; shut down units if needed. Considerations are run timing and oil type.

**Spillway** –monitor oil entrainment; reduce spill volume in 20% increments; close spillway. Considerations are run timing, oil type, and downstream progression of spill.

**Sluiceway** –monitor oil entrainment; close sluicegates if needed; possible endgate closure if needed, quickly. Considerations are run timing, oil type, and downstream progression of spill.

**Powerhouse priority** –adjust turbine load as specified by unified command. Considerations are load requirements and fish operation priority.