

**OFFICIAL COORDINATION REQUEST FOR
NON-ROUTINE OPERATIONS AND MAINTENANCE**

COORDINATION TITLE- 18TDA11 MOC Sluiceway Cover Replacement

COORDINATION DATE- 10/22/18

PROJECT- The Dalles Dam

RESPONSE DATE- 11/05/18

Description of the problem

The Dalles ice and trash sluiceway outfall chute has a cover intended to prevent overspray onto the roadway. This overspray poses a safety problem during freezing conditions. The cover has worn through requiring replacement. It's best to replace this cover before freezing conditions return. Ice can build-up the remaining cover and its supports, which could result in concrete anchor failures.



Picture of the current tarp.

Type of outage required

Ice Trash sluiceway

Impact on facility operation (FPP deviations)

Sluiceway closure – Sluiceways 1-1, 1-2, 1-3, 8-2, 8-3 and 18-2 will remain open but the end gate will be closed.

Impact on unit priority

None

Impact on forebay/tailwater operation

None

Impact on spill

None

Dates of impacts/repairs – mid Nov, 2018

Length of time for repairs – 6 – 10 hours (daylight)

Analysis of potential impacts to fish

1. 10-year average passage by run during the period of impact for adults and juvenile listed species, as appropriate for the proposed action and time of year;
There are no 10 year passage data available for sluiceway passage. Battelle research of sluiceway passage from winter of 2009 showed ~18 ‘targets’ per day passing the sluiceway during mid Nov. There is no diel difference.
2. Statement about the current year’s run (e.g., higher or lower than 10-year average)
Current steelhead run is lower than the 10 year average.
3. Estimated exposure to impact by species and age class (i.e., number or percentage of run exposed to an impact by the action);
Exposure is primarily late season overwintering steelhead. Percent of overwintering steelhead could not be found.
4. Type of impact by species and age class (increased delay, exposure to predation, exposure to a route of higher injury/mortality rate, exposure to higher TDG, etc.);
Potential delay of adult steelhead wanting to go downstream this time of year. These are not considered kelts, but rather fall passage that overshoot The Dalles Dam. However, it is unknown how many of these downstream passing steelhead are not volitional (fallbacks).

Summary statement - expected impacts on:

Downstream migrants

Minimal. This work takes place well past peak juvenile summer outmigration. Juvenile passage data for mid Nov is not available.

Upstream migrants (including Bull Trout)

November sluiceway operation is primarily for adult steelhead that volitionally move downstream. Battelle research has shown that downstream passage drops substantially when sluiceway is off, indicating that steelhead prefer not to pass through turbines. It is likely that any volitional downstream passage are steelhead that overshoot The Dalles Dam. These fish spawn in the spring. A 10 hour delay will likely not affect spawning success.

Other adult salmonid species are normally not present this time of year and any sluiceway passage would be considered fallbacks.

Bull trout are rarely sighted in this area of Columbia River.

Lamprey

Minimal. This work takes place past the normal upstream migration period.

Comments from agencies – No comments were received.

Final coordination results – This action will go forward as coordinated.

After Action update

Sluiceway was closed Nov7 from 0845-1549. New cover was successfully installed. A more permanent design is planned for future to prevent this recurring replacement.

Please email or call with questions or concerns.

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