**OFFICIAL COORDINATION REQUEST FOR**

**NON-ROUTINE OPERATIONS AND MAINTENANCE**

**COORDINATION TITLE-** *21 JDA 10 Spillway Gate Inspections*

**COORDINATION DATE- 8/23/21**

**PROJECT- John Day Dam**

**RESPONSE DATE- 27 August 2021**

**Description of the problem –** John Day spillway gate inspection contract for bays 3-6 is set for the 30 August through 2 September. Prep for the inspection will start on 30 August in spill bay #3. Prep includes placing bulk heads in spill bays 3-6 for the climbing inspection which limits the ability to use those spill bays during an involuntary spill situation.

**Type of outage required –** Spill gates 3-6

**Impact on facility operation** (FPP deviations) – Bulk heads will be placed in spill bays 3-6 for the climbing inspections which will result in the inability to operate those gates during involuntary spill if needed. This would be a deviation from the FPP spill patterns if involuntary spill is needed 30 and 31 August.

**Impact on unit priority –** None

**Impact on forebay/tailwater operation -** None

**Impact on spill –** Could impact spill if involuntary spill is needed the last two days of August. We won’t be able to remove the bulk heads is water levels require all spill bays be available the last two days of August.

**Dates of impacts/repairs –** 30 August to 2 September.

**Length of time for repairs –** 4 days

**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;

Table 1. Potentially impacted adults on 30 August to 2 September (based on 10-year average passage numbers from Columbia River DART):

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Species | 8/30 | 8/31 | 9/1 | 9/2 |
| Fall Chinook | 2,449 | 3,095 | 3,290 | 4,897 |
| Steelhead | 676 | 776 | 934 | 1,253 |
| Wild Steelhead | 238 | 265 | 318 | 422 |
| Coho | 90 | 126 | 158 | 311 |
| Sockeye | 4 | 5 | 6 | 4 |

Juvenile: The recent John Day sample was 98% sub-yearling Chinook and based on historic run timing, fewer than 5% of the sub-yearling Chinook could be exposed to any impacts during the spill bay outage (Fish Passage Plan Table JDA-2).

1. Statement about the current year’s run (e.g., higher or lower than 10-year average); The NOAA forecast for adult Fall Chinook is less than the 10-year average and the Coho forecast is to exceed the 10-year average.
2. Estimated exposure to impact by species and age class (i.e., number or percentage of run exposed to an impact by the action); Less than 1% of any salmonid run could be impacted by this three-day outage of spill bays 3-6 since they are normally not used during late August.
3. 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.); Spill bays 3-6 are normally not used during the late August period.

**Summary statement –** Both the north and south fish ladders will be operated within criteria so no impacts to fish passing through the ladders is expected during the outage.

**Downstream migrants –** Both TSW’s will be in operation for downstream migrant passage during the fist two days of the outage, then the TSW’s will be removed per the FPP on 1 September.

**Upstream migrants (including Bull Trout)**

Impacts to adult passage could be a slight delay in passage at the north ladder.

The north and south ladders are operating within criteria so any delays on the north would be minimal. No anticipated impacts to bull trout as the 10-year average for bull trout passage is zero.

**Lamprey –** Ten-year average for adult lamprey passage during the outage is about 42 fish per day. The outage should have no impact on adult lamprey passing the north ladder.

**Comments from agencies**

**Final coordination results**

**After Action update -**Work was completed as planned. Spill patterns were followed as per the FPP. In summary, there was no affect to spill operations during the climbing inspections.

Please email or call with questions or concerns.

Thank you,

Nathan

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