

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

COORDINATION TITLE- 17TDA23 2017 Navlock Shoal Removal

COORDINATION DATE- 26 July 2017

PROJECT- The Dalles Dam

RESPONSE DATE- 10 August 2017

Description of the problem

The Corps will dredge the shoal at river mile 191.5 of the Columbia River, within the approach to the locks. The shoal is a 150ft by 85ft mound, and it is 7ft about the 17-foot authorized depth. In some parts of the shoal, the river is as shallow as 10 ft. The Corps will place the dredged shoal directly downstream, at river mile 190.7 of the Columbia River, in a deep scour hole. The scour hole is within the Columbia River Federal Navigation Channel (FNC). The work will be conducted during the in-water work window for this reach, which is from 1 December to 28 February.

The Corps will dredge the shoal with a barge-mounted crane or excavator fitted with a clamshell bucket. The bucket will be maneuvered vertically through the water column to the shoal. When the bucket is full and closed, the bucket will be pulled vertically through the water column and maneuvered to a bottom-dump scow situated nearby. An estimated 5,000 cubic yards (cy) of material will be removed.

The Corps will place the dredged material in the Columbia River FNC flow lane via a bottom-dumping scow approximately 1,500 ft downstream of the dredging area. When the bottom-dump scow reaches carrying capacity or the shoal has been removed, the Corps will move the scow to the dredged material placement area. When over the placement area, the Corps will release the material through the bottom of the scow, through either a split-hull or a series of doors. The Corps will distribute the material evenly throughout the placement site. The Corps estimates that the dredging and placement will take approximately 16 hours. No upland mobilization of equipment is required. It is expected that the mechanical barge and scow will be floated to the project site from another project site or moorage.

Type of outage required

A clamshell dredge would likely remove the shoal in a few hours, no outage would be required. The contractor may be able to work around the operation of the navigation lock schedule to move out of the way of traffic if needed.

Impact on facility operation (FPP deviations)

None, we can coordinate the contractor with the facility to ensure that dredging operations do not impact facility operation.

Impact on unit priority - None

Impact on forebay/tailwater operation - None

Impact on spill - None

Dates of impacts/repairs

Within the in-water work window, which is from 1 December to 28 February. Only one day.

Length of time for repairs

The Corps estimates that the dredging and placement will take approximately 16 hours.

Analysis of potential impacts to fish

Due to the work being confined to the nav lock channel and being completed during the in-water work window, the impacts on salmonids (upstream or downstream migrants), bull trout and lamprey are expected to be minimal.

Comments from agencies – No comments were received

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

After Action update (After action statement stating what the effect of the action was on listed species. This statement could simply state that the MOC analysis was correct and the action went as expected, or it could explain how the actual action changed the expected effect (e.g., you didn't need to close that AWS valve after all, so there was no impact of the action). List any actual mortality noted as a result of the action)

Please email or call with questions or concerns.

Thank you,

Erin

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