OFFICIAL COORDINATION REQUEST FOR
NON-ROUTINE OPERATIONS AND MAINTENANCE

COORDINATION TITLE- 16BON122
COORDINATION DATE- 27 December 2016
PROJECT- Bonneville Dam
RESPONSE DATE- 06 January 2017

Note: This MOC is almost identical to one sent out 25 January 2016. The difference is that the work is in the Washington Shore fishway, instead of Bradford Island. The facilities are functionally identical to each other.

Description of the problem- The crowder at Bonneville's Washington Shore Count Station has a gap of approximately 1.5" underneath it. The crowder is cycled through its range daily and operated by the counters on an as-needed basis during passage season. Lamprey have regularly been observed suctioned to the ladder floor immediately in front of the crowder. They then get run over by it during routine crowder operations, causing injury or death. Lamprey have a tendency to wiggle under the crowder and then get trapped. In addition to injuring lamprey, fish counters report that lamprey suctioned to the ladder floor in the crowder area interfere with their ability to count accurately.

To address these issues, we will be installing 1/8" thick perforated aluminum plating to the bottom of the fishway in front of the crowder, and a plastic strip to the forward bottom and downstream edges of the crowder. The plating prevents lamprey from being able to suction to the bottom. Thus they will have to swim through the counter window area, ameliorating the counting issue and preventing lamprey from laying in the path of the crowder. The plastic strip will prevent lamprey from getting underneath the crowder.

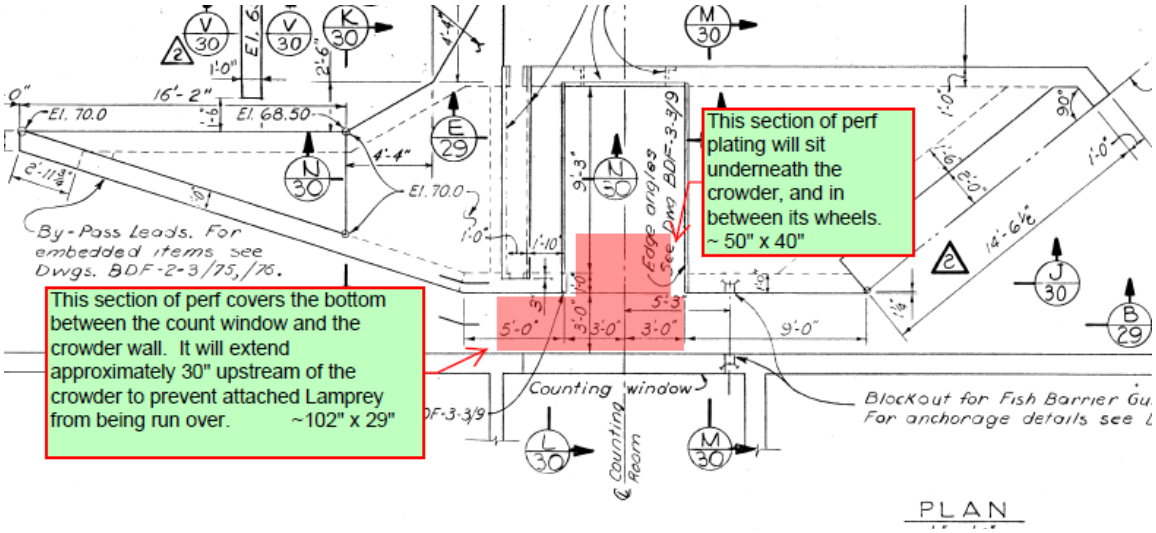

Figure 1. Area where the Washington Shore count station modifications will be occurring.

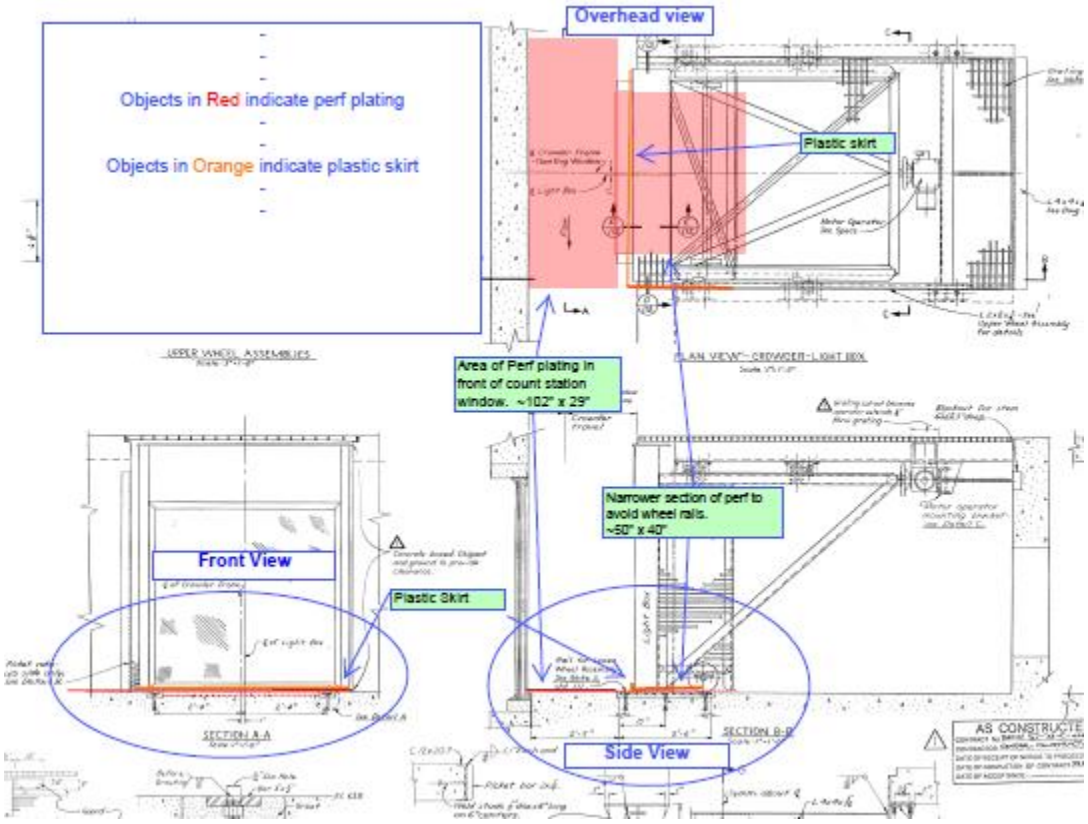

Figure 2: Close-up view of the proposed count station modifications.

Type of outage required- None. The Washington Shore ladder is already dewatered as part of regular winter maintenance.

Impact on facility operation- Neither the perforated plate, nor the plastic strip will impact the operation of the count station crowder or brush. The hydrology of the area will also not be affected (Stephen Schlenker, pers. comm.).

Dates of impacts/repairs- Work will be completed by the time Washington Shore Ladder gets watered up in late February.

Length of time for repairs- Estimated three days.

Expected impacts on fish passage- The modifications will have no anticipated impact on salmonids. For lamprey, the intent is that the changes will prevent unnecessary mortalities both below the crowder due to crushing and behind it due to blocked egress.

Comments from agencies-

Final results-