**USACE Portland District (NWP) FFDRWG Update Form**  
**June 8, 2016**

**PROJECT INFORMATION**

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| Project Title | Bonneville Dam Major Rehab |
| SCT Reference Number |  |
| Project Manager (PM) | Matt Cutts (NWP, 503-808-4697) |
| Technical Lead (TL) | Amy Lynn (NWP, 503-808-4831) |
| Biologist/Coordination | Jon Rerecich (NWP, 503-808-4779) |

**PROJECT DESCRIPTION**

In 2013, the Portland District reported a number of dam safety related issues for the Bonneville Dam Spillway. In particular, the report noted that the hydrologic capacity of the Project is inadequate to pass the Probable Maximum Flood (PMF) event. In addition, previous reports have documented significant issues related to the spillway, fish ladders, navigation locks, and bridges. It is anticipated that funding requirements to complete upgrades and replacement of these components will be large, beyond Operation and Maintenance funding authorities, and would require Construction authorization. A strategic, comprehensive long-term plan is needed to make sure that the work is done to improve reliability of the Project incrementally and efficiently.

A Major Rehabilitation Report (MRR) and possibly several Major Maintenance Reports (MMR) will be completed in order to address numerous deficiencies at Bonneville Project. All Bonneville Project features, with the exception of the two powerhouses, will be considered.

**PROGRESS AND KEY ISSUES (List)**

Establish the overall engineering condition, risks, consequences and reliability of selected project features that would be included in a Major Rehabilitation Report or Major Maintenance Reports; Identify the operational and/or potential reliability problems and/or opportunities for risk reduction and efficiency improvement.

*(Matt Cutts provided FFDRWG a Powerpoint presentation on 3 Dec 2015.)*

Summary of issues:

* Major Rehabilitation Report
  + Spillway

The spillway gates at Bonneville have exceeded their fatigue life. No changes are proposed at this time but once a gate fails due to fatigue, spillway operations will be significantly impacted. What those impacts will be are not clear and will depend on the type of failure, its severity, and how far along we are in the Major Rehab effort.

* + Fish Ladders

Effort recently initiated to compile engineering reports, O&M history, operations, etc… to characterize exiting conditions.

**CURRENT SCHEDULE**

ACTIVITIES FOR FY16: Data gathering and information development to continue Major Rehabilitation Report continues. 30% Draft report at the end of FY16. (could see major changes between 30% and completion) Bonneville Major Rehab Report will be competing for funding with other major rehabilitation projects nationwide, and it will be a number of years before we see funding arrive, even if our report recommendations compete very well compared to other needed construction throughout the Corps of Engineers.

PROPOSED ACTIVITIES FOR FY17: Comprehensive Draft Major Rehab Report.

**FFDRWG REVIEW NEEDED AT MEETING? (If YES, list discussion topics below)**

Not at this time. Progress updates will continue to be provided. Appropriate FPOM and FFDRWG coordination and consultations will be identified and incorporated into future design phases.