

Project Title: Oil Water Separation

Dam and Reservoir Project: Lower Monumental

Estimated Total Cost: \$3-\$7 million

Estimated Schedule for Completion of the Project:

Phase 1a: None for this Project

Phase 1: FY2015-2018

Phase 2: FY2018-2019

Expected Physical Completion: FY2019

Current Status as of 6/8/2017:

Phase 2 (contract bid solicitation)

Summary

This project will reduce the amount of oil that enters the Lower Snake River from the powerhouse at Lower Monumental Dam and Reservoir Project, thus improving water quality and benefitting fish and other aquatic biota. This will be accomplished by installing an oil water separation system at the main hydropower generating unit turbine pits, the open space in the generating unit between the turbine head cover and the generator, and modifying the drainage sumps, which are basins that collect liquid drainage from the operation of a turbine, to allow for operation of a surface (oil) skimmer, a device that removes non-emulsified oil from the surface of the water collected in the sump basin. Once installed, validation testing of the turbine pit oil water separators and drainage sump system will be performed to ensure they work properly. A similar surface (oil) skimmer design has already been successfully deployed at Lower Granite Dam and Reservoir Project. Lessons learned from similar projects will inform the design and construction of this project, recognizing each facility is unique with regard to river inflow and oil.