

Project Title: Headgate Repair Pit Upgrade

Dam and Reservoir Project: Little Goose

Estimated Total Cost: \$1-\$3 million

Estimated Schedule for Completion of the Project:

Phase 1a: None for this Project

Phase 1: FY2016-2017

Phase 2: FY2018-2019

Expected Physical Completion: FY2019

Current Status as of 6/8/2017:

Phase 1 (design)

Summary

This project will modernize the headgate repair pit within the Little Goose Dam and Reservoir Project powerhouse by upgrading all scaffolding, lighting, drainage, and ventilation in the area where repairs are conducted on the headgates and fish screens. This project is necessary because of upcoming headgate maintenance (non-capital) work that will occur at Little Goose to replace various hardware on the headgates over the next few years. A headgate is a structure that is lowered in front of a hydroelectric generating unit to block off the flow of water into the unit so that maintenance can be performed. The headgate repair pit contains original plant equipment installed in the late 1960s. The existing features within the headgate repair pit are past their design life and do not meet current capacity and safety needs, including providing storage for necessary hydraulic cylinders, which are lifting mechanisms used to raise and lower the headgates, and proper ventilation and explosion proof lighting needed to perform required painting and welding operations. In addition, the upgrades will provide additional capacity to address anticipated increases in the amount of work within the headgate repair pit due to the upcoming headgate maintenance work. The headgate repair pit is also used for maintenance of fish screens, and without repairs, their ability to guide juvenile salmon and steelhead away from turbines would be impacted. Because this project is being done concurrently with upgrades at McNary Dam and Reservoir Project's headgate repair pit, which is experiencing similar capacity and safety issues, the Corps expects to realize substantial design and contract savings by eliminating redundant efforts.