**456609 LGO Adult Fish Ladder Cooling**

CRFM Work Plan

June 2017

**1. Project Information**

* **Purpose/Objective**. The objective of this project is to design, fabricate and install a permanent system to provide cool water to the Little Goose fish ladder during low flow/high temperature conditions.

**Description**. Adult passage delays have been experienced historically at the Little Goose adult fishway and were exacerbated in the summer of 2015 due to low flow and high temperatures within the Snake River. A policy decision was made in 2016 to move ahead with a system similar to the one recently installed at Lower Granite to cool the upper portions of the fish ladder. In 2017, pumps for the system were purchased, a construction contract was awarded to provide sufficient electrical power to the site to run the pump and a design/build contract was awarded to complete design and fabricate and install a 100-foot deep chimney at the ladder diffuser 13 intake in the forebay and a custom nozzle and associated piping to delivery approximately 50 cfs of cool water to the vicinity of the fish ladder exit in the Little Goose forebay. The power supply that will be provided in 2018 is configured such that a one-week outage is needed in August of each year for doble testing. A modification to the power supply will be designed and a contract awarded in FY18 such that pump operation would be unaffected by doble testing in 2019 and beyond.

**2. Major Activities/Tasks**. FY18 – complete fabrication and installation of the permanent cooling system at the fish ladder exit. Complete design on plans for a power supply unaffected by doble testing, solicit and make contract award. FY19 – complete work on uninterruptable power supply.

**3. Cost Estimate**.

FY17 Final Obligations - $2,570,623

FY18 Budget- $900,000

**4. Information and Issues**.