**461410 Snake River Sockeye Initiatives**

CRFM Work Plan

June 2017

**1. Project Information**

* **Purpose/Objective**. The overall objective of this project is to adequately address recommendations made in the NOAA Fisheries 2015 Adult Sockeye Salmon Passage Report which are deemed USACE responsibilities.

**Description**. This project has four objectives. 1) Develop Snake River temperature models to assess alternative project operations at Lower Granite and Little Goose Dams; 2) Prepare an alternatives study to assess potential facilities to trap and haul adult SR sockeye at Lower SR dams; 3) Investigate methods to reduce max temperatures and temperature differentials at adult ladders in NWW; 4) Improve monitoring and reporting of temperatures within adult ladders at NWW projects.

We currently have a contract in place for a 3-D CFD model of the Lower Granite forebay to assess the influence of thermoclines and project operations on each other and funding has been provided to NOAA Fisheries to update the sockeye salmon passage and conversion model. These efforts are ongoing into FY18. Lower Granite has adequate temperature probes in place and efforts are underway to outfit Little Goose dam with similar arrays.

**2. Major Activities/Tasks**. FY18 activities will include follow-up for the contract and MIPR, adding a forebay temperature string to Lower Monumental and Ice Harbor dams, maintenance of existing temperature arrays, adding temperature monitoring at McNary, looking at possibilities for improving temperature regimes at Lower Monumental and Ice Harbor ladders and assessing possibilities for trap and haul locations/facilities on Lower Snake River projects.

**3. Cost Estimate**. FY17 Final Obligations – $656,695

FY18 Budget - $300,000

**4. Information and Issues**.