

PROPOSED AFRP GRANT FY2000
Real-Time Flow Monitoring Related To Spring-Run Chinook Salmon

Scope of Project

Project Location: Antelope, Mill, Deer, Big Chico, and Butte Creeks

Objective: Provide real-time flow and water quality data to monitor stream conditions during the upstream migration of spring-run chinook salmon and the downstream migration of juvenile spring-run and late fall-run chinook salmon and steelhead for the lower portions of Antelope, Mill, Deer, Big Chico, and Butte Creeks. The monitoring system will also be used to verify surface or ground water purchases or exchanges necessary to ensure adequate flows for anadromous fish passage.

Background: AFRP Grant C-1 (FY 1997-1999) provided funds to purchase and retrofit real-time telemetry and water quality equipment at eleven existing stream gaging stations. Funding was also provided to purchase the equipment, install, and operate seven additional stream gaging stations with real-time telemetry. The stations and type of telemetry data are shown in Table 1. A total of \$391,500 was provided by Grant C-1 for the purchase installation, operation, and maintenance of the new equipment and stations.

Work to be Performed and Deliverables

Proposed Grant FY2000 C-9 would provide for the continued operation and maintenance of the eighteen stream gaging stations and telemetry equipment for one year (FY2000) including both field and office activities. Field activities would include travel, general inspection, maintenance, and replacement of failed station equipment, flow measurements, datalogger download, and sensor calibration. Office activities would include datalogger upload to database, review and corrections to collected data such as sensor drift or malfunction, review and updating of stage vs. flow relationships, and maintenance of database.

Funding

Total funding for the continued OM&R of the 18 stream gaging stations for FY 2000 totals about \$207,500. This includes about \$85,000 expected to be provided by other sources such as DWR, USGS, and PG&E under their current stream gaging programs. Proposed AFRP funding totals about \$122,500. Table 2 shows the specific proposed AFRP costs for each station.

Proposal Coordinators

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