

Beaver Creek Diversion Facility Emergency Dredging Project North Fork Stanislaus River Hydroelectric Project



July 7, 2017
Facilities Committee Meeting

Flood Damage

- January-February floods filled the Beaver Creek Facility with sediment and debris
- Prevents hydropower and consumptive water diversions to McKays
- Immediate restorative action is required to avert a multi-year delay in Facility operation



Emergency Permitting of Project

- Agency consultations and permitting
 - United States Army Corps of Engineers (ACOE)
 - United States Fish and Wildlife (USFWS)
 - United States Forest Service (USFS)
 - California Department of Fish and Wildlife (CDFW)
 - California Division of Safety of Dams (DSOD)
 - Regional Water Quality Control Board (RWQCB)
 - State Water Quality Control Board (SWRCB)
 - Federal Environmental Protection Agency (EPA)
 - State Office of Historical Preservation (SHPO)
 - Federal Energy Regulatory Commission (FERC)
 - Sierra Pacific Industries (SPI)

Fiscal Impact – Costs

- Average annual foregone power generation \$1.7M
- Project estimated at ~~\$1.0M~~ < **\$2.5M**
 - Detailed scope and cost were still under development in May when \$1.0M authorization was requested, along with note that staff would will return to the Commission if projected costs increase.
 - Cost increase due to:
 - More debris
 - USFS denial of use of USFS lands and/or reuse of materials on USFS lands
 - Suction dredging costs greater than anticipated
 - Possibility of removing more material than originally included in emergency permits

Fiscal Impact – Funds Available

- Beaver Creek Capital Development Reserve + Current hydro budget = \$0.675M as of July 1
- Remaining needed funds from McKays Cleanout Reserve and/or Hydro Maintenance Reserve Account

Fiscal Impact – Potential Reimbursements

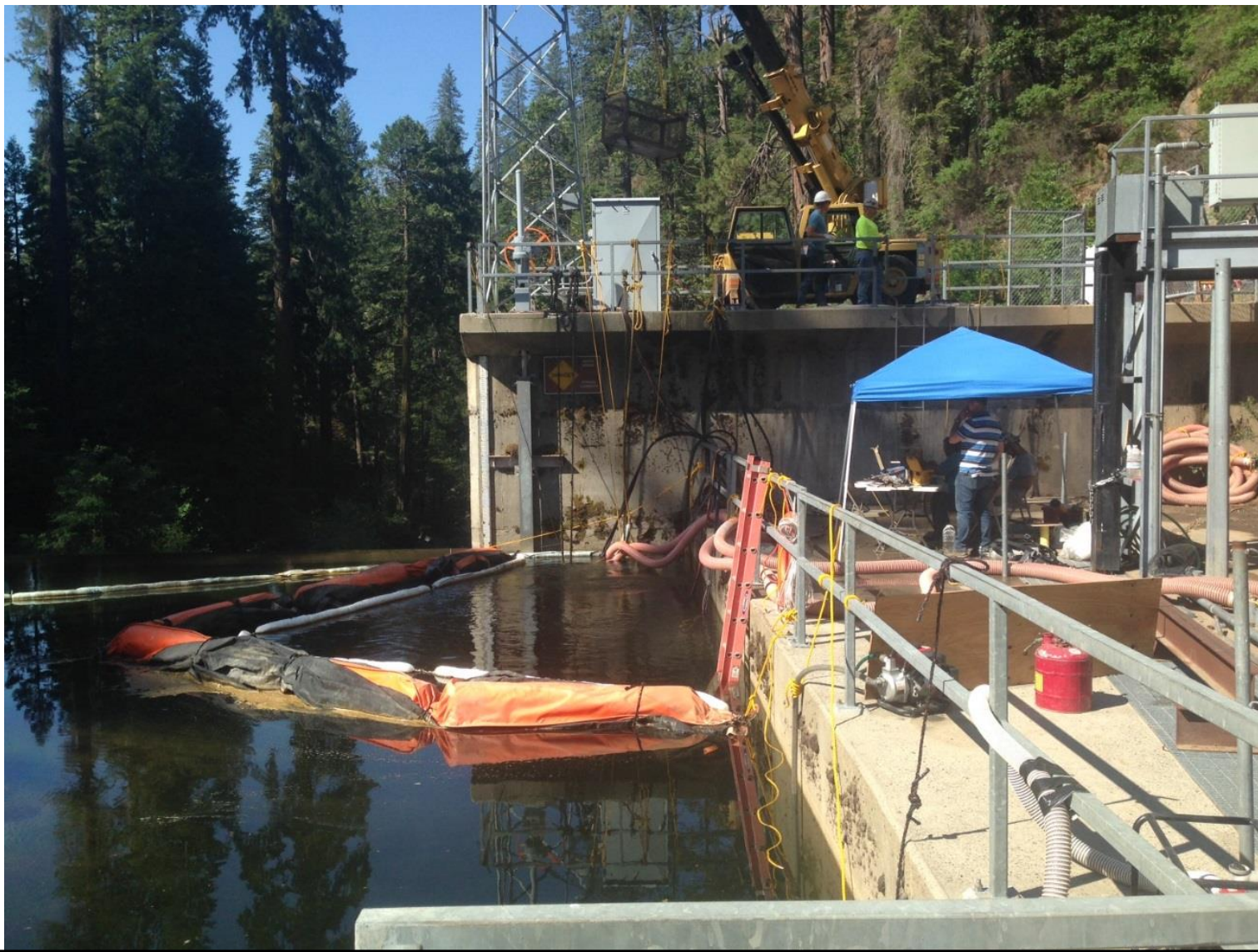
- Insurance Claim Pending
 - (\$500,000 deductible)

- FEMA & CalOES Reimbursement Request Pending
 - FEMA reimburses 75% of eligible costs
 - CalOES reimburses 18.75% of eligible costs
 - NCPA portion includes 6.25% of eligible costs and 10)% of ineligible costs.

Beaver Creek Intake Structure



Beaver Creek Suction Dredging



Debris encountered during suction dredging



Timelines

- February-April: Complete access road bypass
- March-May: Agency consultations/permitting
- April: Reservoir bathymetry
- May: Bidding of suction dredging
- June-July: Suction dredging at Intake
- July: Bidding of excavation & trucking
- August – Sept.: Reservoir dredging

Recommendation

Authorize the General Manager to enter into one or more agreements, with a total not-to-exceed for all agreements of \$2,500,000 for repair, restoration and/or replacement of portions of the Beaver Creek Reservoir and related facilities at the NCPA Hydroelectric Project.