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.