



Preliminary Design for Rehabilitation Projects at Foothill & Sepulveda Canyon Hydroelectric Plants

Engineering & Operations Committee
Item 7-3
November 9, 2010

Current Action

- Appropriate \$370,000 in budgeted funds
- Authorize preliminary design of mechanical & electrical rehabilitation projects at Foothill & Sepulveda Canyon Hydroelectric Plants

Metropolitan Hydroelectric Plants



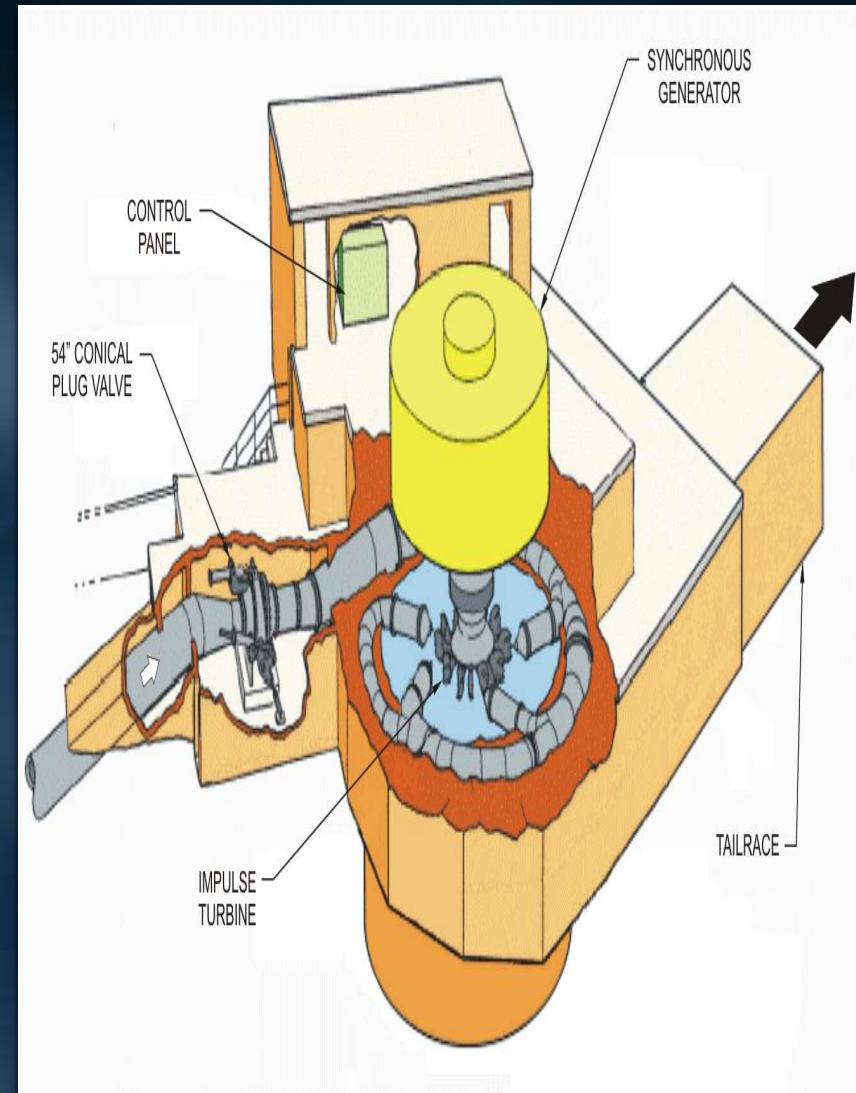
Foothill Hydroelectric Plant Rehabilitation

- Background
 - 9.1 MW constructed 1981
 - Daily revenues \$3k- \$7.5k
 - Corroded copper piping
 - Deteriorated electrical components
- Scope of Work
 - Prepare preliminary design
 - Detailed physical inspection
 - Review code requirements
 - Establish design criteria
 - Reviewing vendor specs



Sepulveda Hydroelectric Plant Rehabilitation

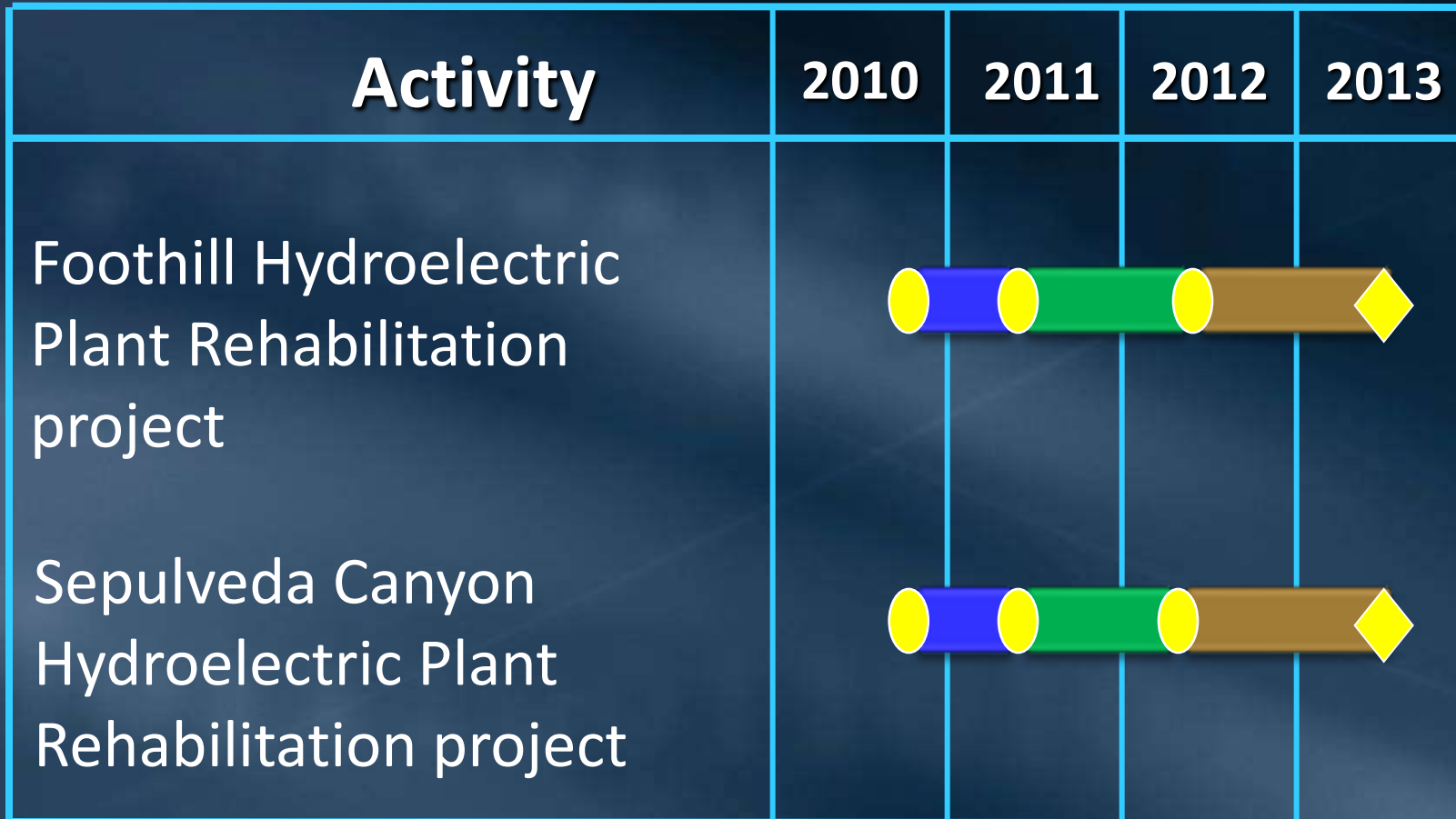
- Background
 - 8.6 MW built 1982
 - Daily revenues \$2k- \$4.5k
 - Transformer end of useful life
 - Scroll case & tailrace metal pitted & corroded
- Scope of Work
 - Prepare preliminary design
 - Detailed physical inspection
 - Review code requirements
 - Establish design criteria
 - Reviewing vendor specs
 - Specs for scroll case & tailrace rehabilitation



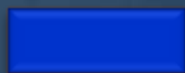
Requested Funds

	Foothill HEP	Sepulveda HEP
Preliminary Design	\$ 134,000	\$ 123,000
Owner Costs (environ. Doc, Project mgmt	42,000	42,000
Remaining Budget	14,000	15,000
Total	\$ 190,000	\$180,000

Project Schedule



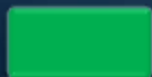
 Board Action



Prelim. Design



Completion of Construction



Final Design



Construction

Board Options

- Option # 1
 - Adopt the CEQA determinations
 - Appropriate \$370,000 in budgeted funds
 - Authorize preliminary design of rehabilitation projects at Foothill & Sepulveda Canyon HEP's
- Option # 2
 - Adopt the CEQA determinations
 - Appropriate \$190,000 in budgeted funds
 - Authorize preliminary design for Foothill HEP
 - Do not authorize preliminary design for Sepulveda
- Option # 3
 - Do not authorize the two projects at this time

Staff Recommendation

- Option # 1

