



# Colorado River Aqueduct Auxiliary Power Systems

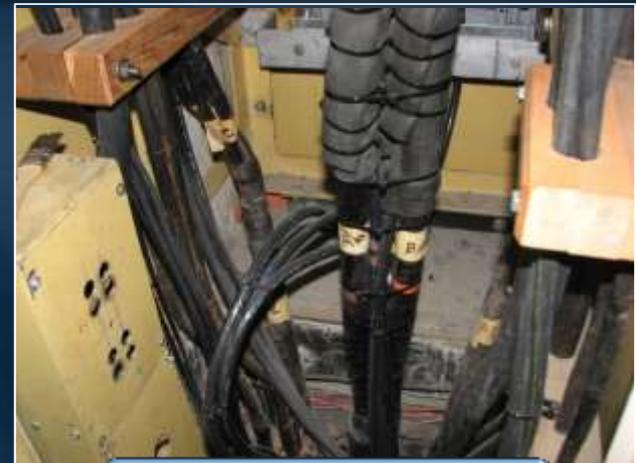
Engineering & Operations Committee  
Item 7-2  
March 7, 2016

# Current Action

- Appropriate \$840,000
- Authorize investigations to rehabilitate the auxiliary power systems at the CRA pumping plants



Iron Mountain Pumping Plant, main panels: 120 VAC & 480 VAC



Back of 480 V panel

# Location Map



# CRA Pumping Plant Auxiliary Power Systems

## ● Background

- Power for critical support systems
- Original 1939 construction
- Panels at full capacity
- Obsolete breakers & wiring

## ● Planned Project

- Replace panels & breakers at all 5 pumping plants
- Replace cables
- Add conduits



1930's breakers



Braided cloth & rubber insulated wiring

# CRA Pumping Plant Auxiliary Power Systems

- Initial Activity – Preliminary Investigations
  - Confirm loads & estimate future needs
  - Conduct detailed field inspections & tracing of 1,000s of circuits
  - Evaluate system for compliance with current codes



Wiring to be traced & replaced

# Requested Funds

## Labor

Field investigations, load analyses,  
cost estimates

\$732,000

Shutdown planning, PM, VE

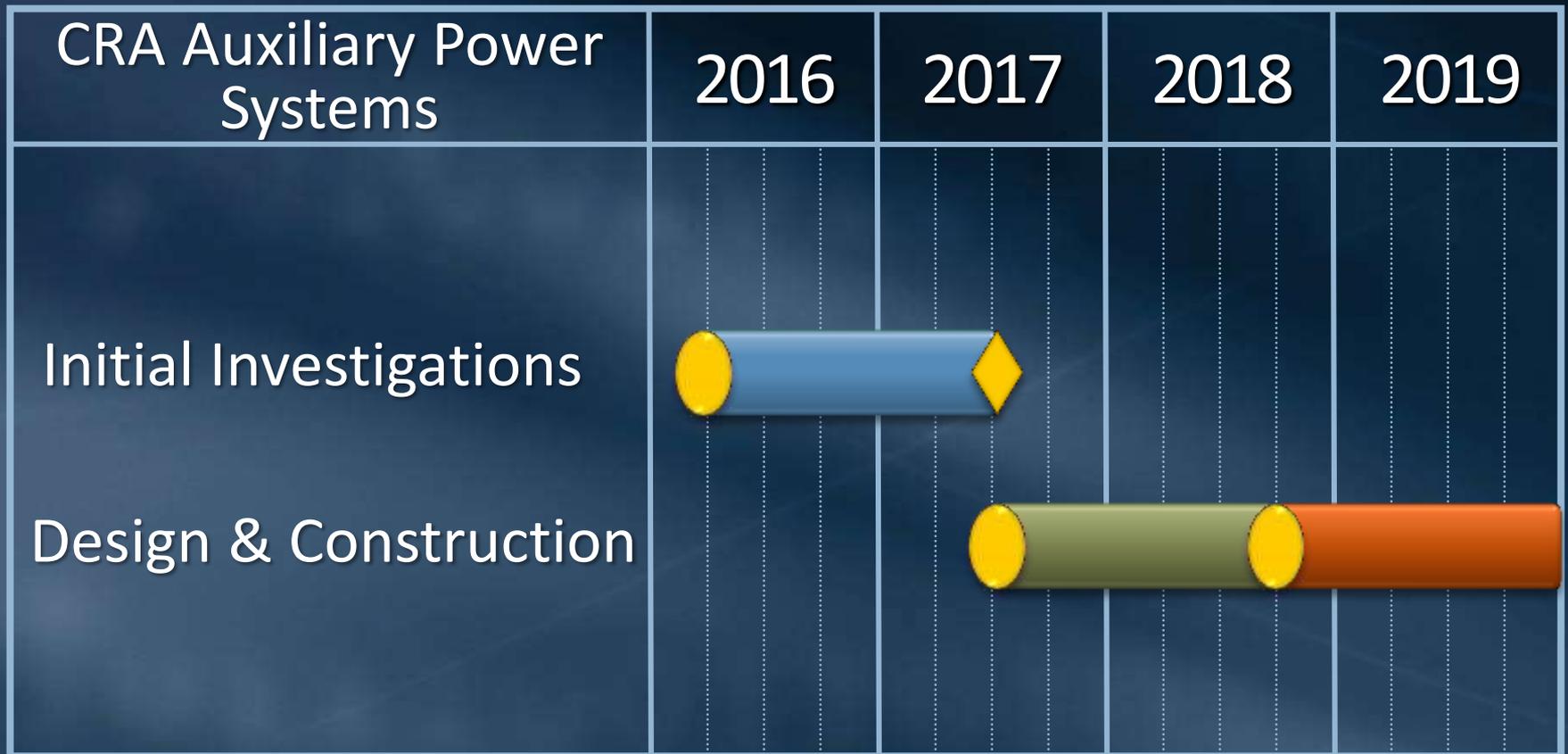
\$108,000

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**Total**

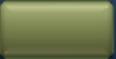
**\$840,000**

# Schedule



 Investigations

 Board Action

 Design

 Completion

 Construction

# Board Options

## ● Option #1

- Adopt CEQA determination that the proposed action is categorically exempt
- Appropriate \$840,000
- Authorize preliminary Investigations to rehabilitate the auxiliary power systems at all CRA pumping plants

## ● Option #2

- Do not proceed with the investigations at this time

# Staff Recommendation

- Option #1

