



# CRA 230kV Transmission Relay Coordination System

Engineering and Operations Committee

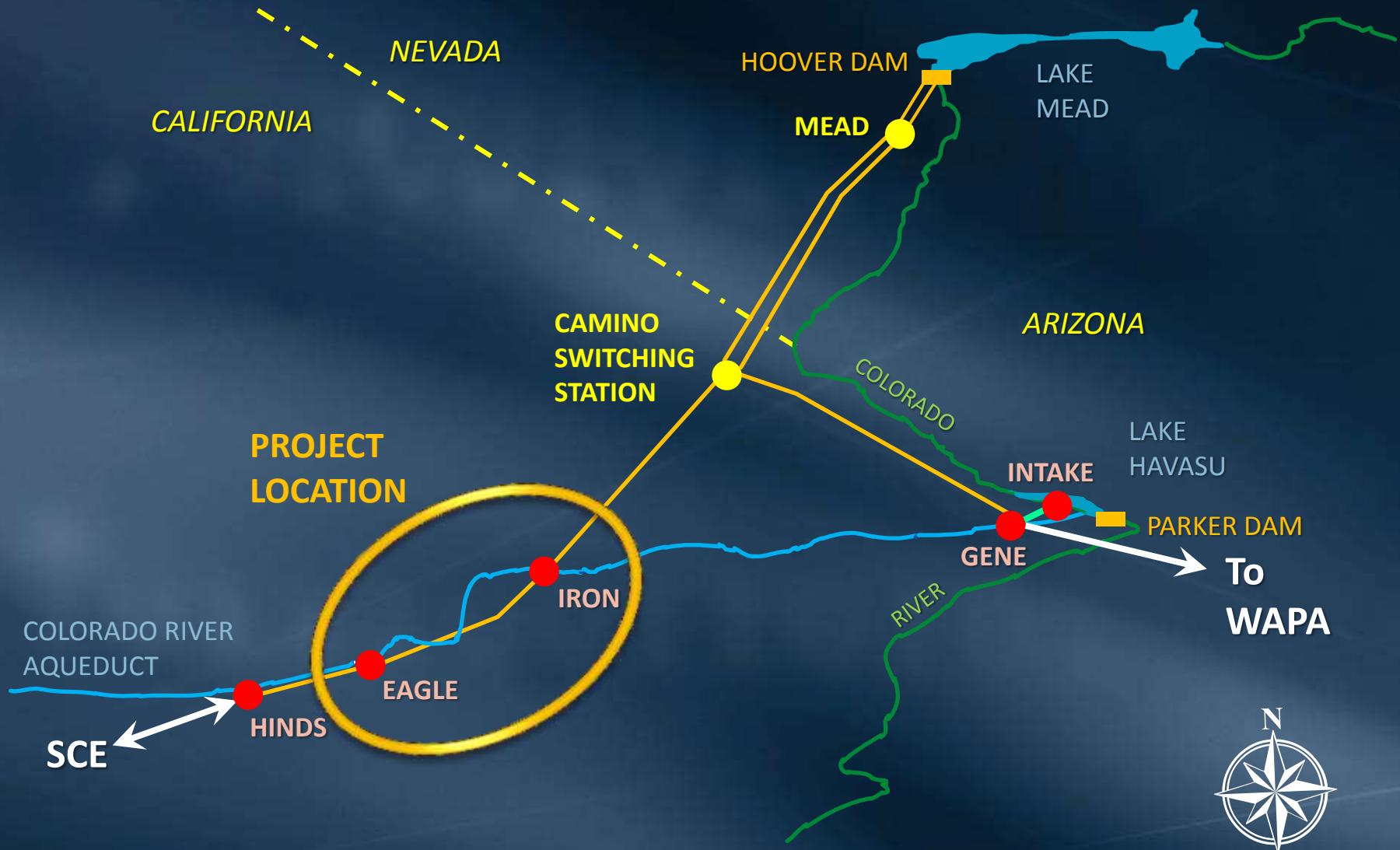
Item 7-3

May 13, 2019

# Current Action

- Authorize agreement with Southern California Edison in an amount not to exceed \$421,932 to implement a relay coordination system on the Eagle Mountain-Iron Mountain 230 kV transmission line to improve the reliability of the Colorado River Aqueduct 230 kV transmission system

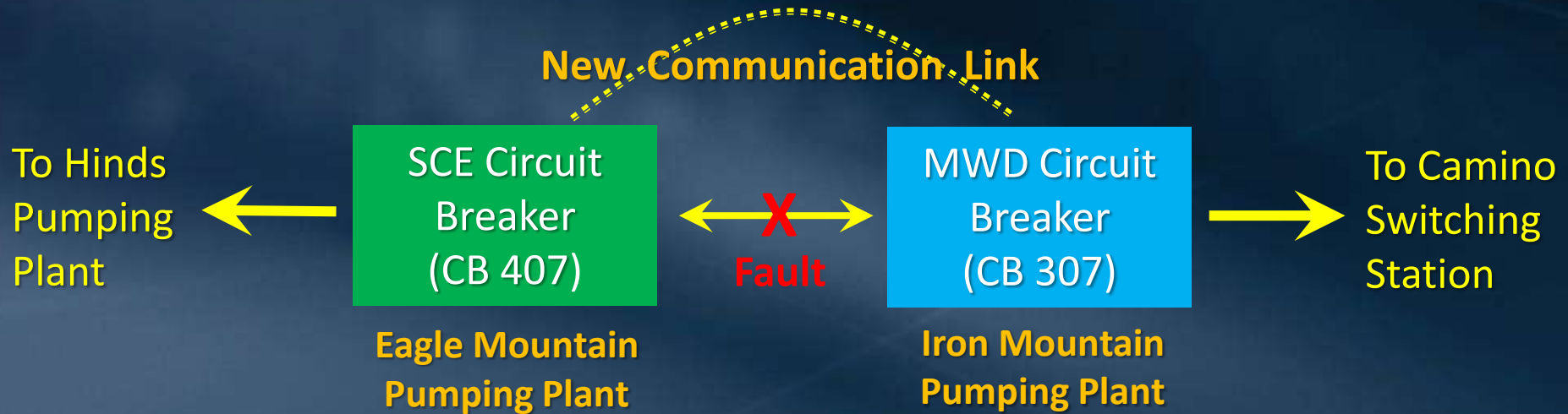
# CRA 230kV Electric Transmission System



# Background

- National Electric Reliability Corporation (NERC) standards require high-voltage electric systems to stabilize following a fault on the system
  - Under more stringent NERC standards, there is potential for system instability in event of a fault on the Eagle Mountain – Iron Mountain transmission line
  - Upgrades to Metropolitan and Southern California Edison (SCE) equipment needed to ensure compliance with NERC standards and maintain reliability of CRA 230kV system

# Eagle Mountain – Iron Mountain 230kV Relay Coordination System



# Scope of Work

- Metropolitan and SCE will jointly implement the Eagle Mtn – Iron Mtn relay coordination system
  - SCE scope includes design and installation of communications equipment on SCE's CB 407 at Eagle Mtn PP
  - Metropolitan scope includes installation of communications equipment on CB 307 at Iron Mtn PP
  - Testing and commissioning of the system will be performed by both Metropolitan and SCE during the 2020 CRA shutdown

# Agreement with SCE

- An agreement with SCE is needed for work associated with SCE equipment for the relay coordination system
- SCE agreement is for a not-to-exceed amount of \$421,923
- Board approval is required for new agreements exceeding \$250,000

# Allocation of Budgeted Funds

## Metropolitan Labor

Program mgmt. & contract admin.	\$21,500
Met. Force Construction	45,500
Submittal review & record drwgs.	16,000

Contract - SCE 421,932


Remaining Budget 20,068

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**Total \$525,000**



# Project Schedule

Relay Coordination System	2019	2020
Metropolitan Work		
SCE Work		
<p>  Board Action   Completion         </p>		

# Board Options

- Option #1

- Adopt the CEQA determination that the proposed action is not subject to CEQA
- Authorize an agreement with SCE for a not-to-exceed amount of \$421,932 to implement a relay coordination system on the Eagle Mountain-Iron Mountain 230kV transmission line

- Option #2

- Do not proceed with the project at this time

# Staff Recommendations

- Option #1

