



Colorado River Aqueduct Authorize 4 Rehabilitation Projects

Engineering and Operations Committee
Item 7-1
April 12, 2010

Current Action

- Appropriate \$1.24 million in budgeted funds
- Authorize final design and procurement to replace the standby generator at Hinds P.P.
- Authorize procurement of 4 aqueduct isolation gates
- Authorize preliminary design to rehabilitate Service Connection DW-CV-2T
- Authorize preliminary design of the Intake Power Line Relocation

Location Map

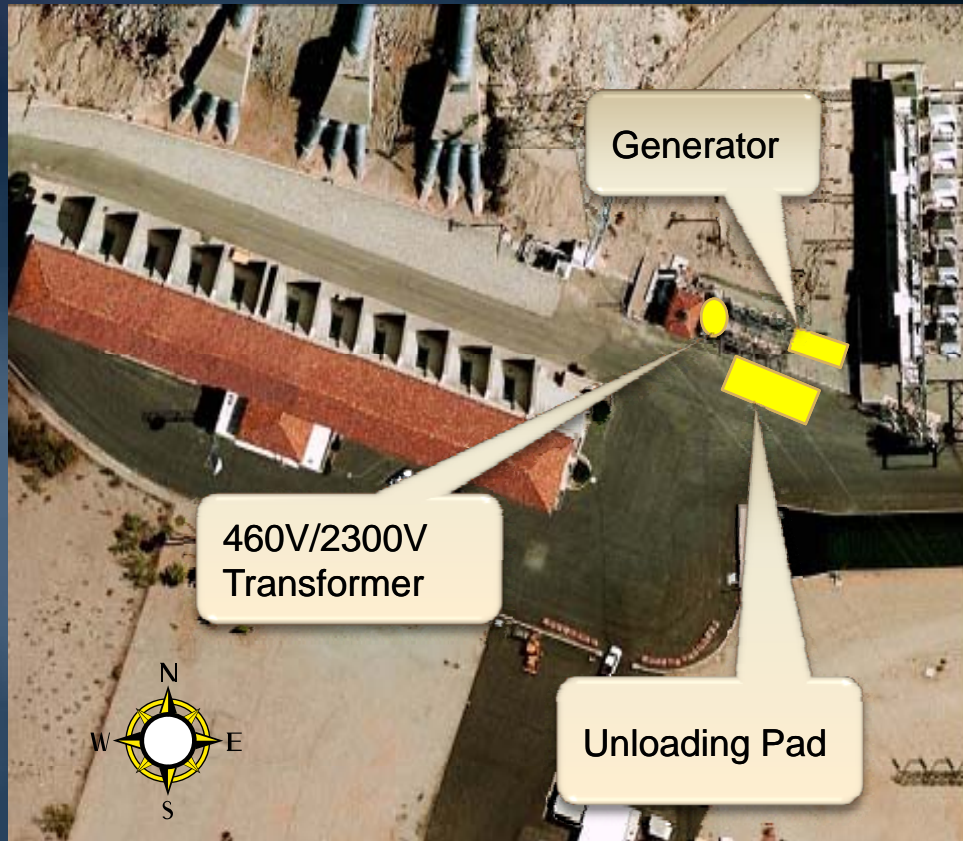


Hinds Standby Generator Replacement Final Design and Procurement

- Background
 - Provides emergency power to critical auxiliary systems
 - Installed in 1960's
 - Final design and procurement of similar generator at Eagle P.P. in progress



Hinds Standby Generator



● Scope of Work

- New 420kW generator
- New generator foundation
- New 460V/2300V transformer
- New fuel unloading pad
- New fire hydrant

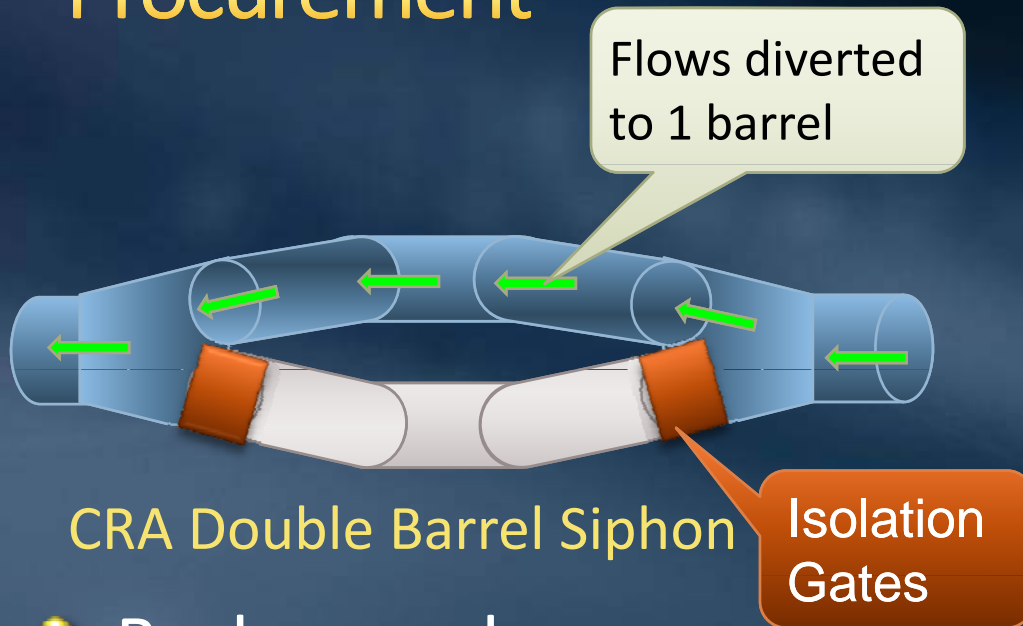
Requested Funds

Hinds Standby Generator Replacement

Owner Costs	\$ 120,000
Final design	334,000
Contracts (Generator & Transformer procurement)	255,000
Remaining Budget	41,000
Total	\$ 750,000

Aqueduct Isolation Gates

Procurement



CRA Double Barrel Siphon

Isolation Gates

Background

- Gates used to isolate siphons
- Existing gates for 13.25 ft. and 13.75 ft. wide siphon slots no longer usable

Scope of Work

- Prepare specs
- Procure 4 gates



Corroded isolation gates

Requested Funds

Aqueduct Isolation Gates

Owner Costs	\$ 18,400
Final design	14,900
Submittal review	2,900
Inspection	6,000
Materials	4,000
Incidentals	900
Contracts (Isolation gate procurement)	120,000
Remaining Budget	2,900
Total	\$ 170,000

Service Connection DW-CV-2T

Preliminary Design



Leaky 1950s gate valve

Background

- Two existing valves in operation since 1950's and 1970's
- Both valves partially inoperable
- Piping corroded

Scope

- Replace 2 valves
- Replace piping
- Modify vaults as required

Requested Funds

Service Connection DW-CV-2T

Owner Costs	\$ 57,500
Preliminary Design	69,600
Incidentals	11,000
Remaining Budget	2,900
Total	\$ 150,000

Intake Power Line Relocation

Final Design



Existing pole
Shored-up

● Background

- 2-mile wood-pole line
Installed in 1950's
- Serves Gene Wash Dam, Black Metal Mtn, Intake access gate & village
- Poles substantially deteriorated
- Limited access to some poles

● Scope

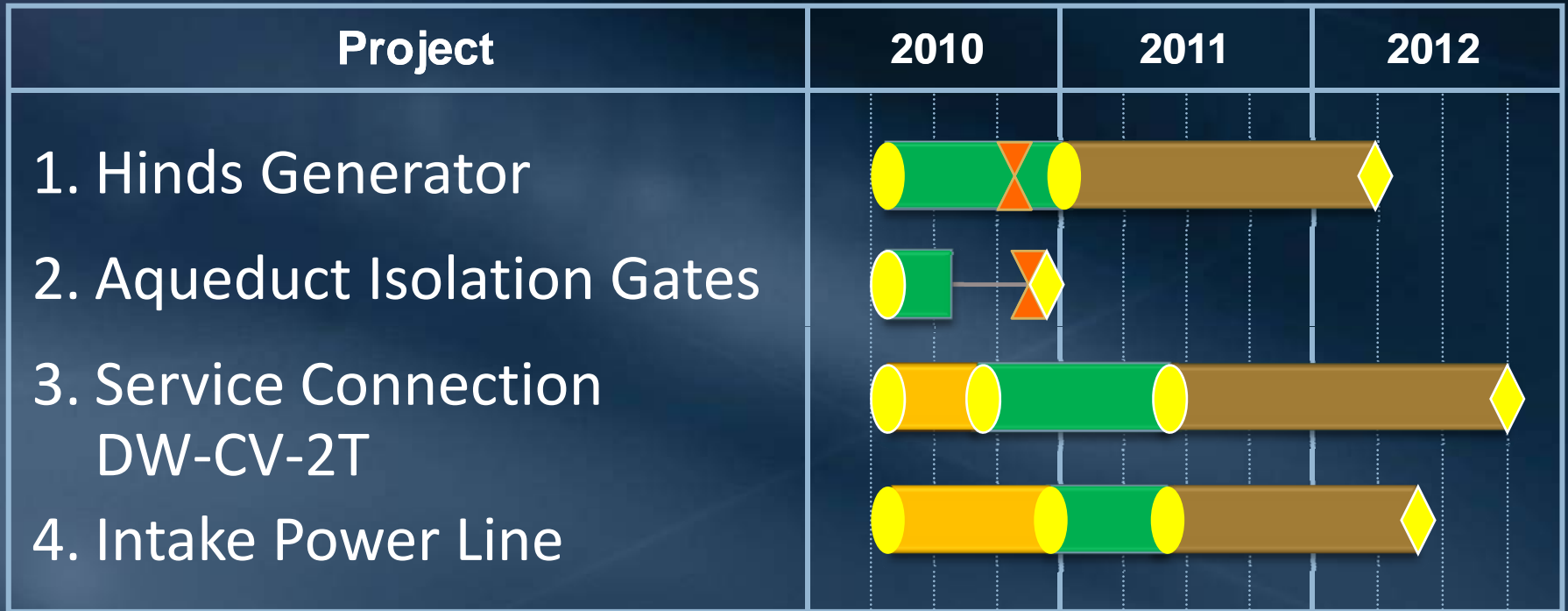
- Replace poles and cables
- Improve alignment

Requested Funds

Intake Power Line Relocation

Owner Costs	\$ 42,500
Preliminary Design	110,000
Incidentals	2,500
Remaining Budget	15,000
Total	\$ 170,000

Schedule



 Study/Prelim. Design

 Final Design

 Construction

 Completion of Procurement

 Completion of Construction

 Board Action

Board Options

- Option #1
 - Adopt CEQA determination
 - Appropriate \$1,240,000 in budgeted funds
 - Authorize final design & equipment procurement to replace the stand-by generator at Hinds P. P.
 - Authorize procurement of aqueduct isolation gates
 - Authorize preliminary design of rehabilitation of service connection DW-CV-2T
 - Authorize preliminary design of the Intake Power Line Relocation

Board Options (Continued)

- Option #2
 - Adopt CEQA determination
 - Appropriate \$320,000 in budgeted funds
 - Authorize preliminary design of Service Connection DW-CV-2T
 - Authorize preliminary design of Intake Power Line Relocation
 - Do not authorize Hinds P.P. standby generator design and procurement
 - Do not authorize aqueduct isolation gates procurement

Board Options (Continued)

- Option #3
 - Do not proceed with four projects

Staff Recommendation

- Option #1