



Engineering & Operations Committee

Jensen Ozone Power Supply Unit Replacement

Item 7-7

June 13, 2022

Jensen Ozone Power Supply Unit Replacement

Current Action

- Award a \$2,257,897 contract to Leed Electric, Inc. to replace ozone power supply units at the Jensen plant
- Construction contract previously awarded by the Board in Nov. 2021 was terminated

A map of Southern California showing the project area. The map includes the following labels and features:

- Counties:** VENTURA, LOS ANGELES, SAN BERNARDINO, ORANGE, SAN DIEGO, RIVERSIDE, IMPERIAL, and LA PAZ.
- Water Infrastructure:**
 - Jensen Plant:** Located near the Ventura/Orange border.
 - Weymouth Plant:** Located in the Los Angeles area.
 - Diemer Plant:** Located in the Los Angeles area.
 - Mills Plant:** Located in the San Bernardino area.
 - Skinner Plant:** Located in the San Diego area.
 - Project Site:** Indicated by an orange dot and label near the Jensen Plant.
- Lakes:** Castaic Lake, Silverwood Lake, Lake Perris, Lake Mathews, and Diamond Valley Lake.
- Geographic Features:** A north arrow in the top left corner and a dashed line representing the international border with Mexico.

Jensen Plant



Jensen Ozone Generation System



Ozone Generators



Power Supply Unit

Jensen Ozone PSU – Components



Disconnect Switch
with Fuses



Cooling Water
& Feed Section

Power Stage



High Voltage Transformer

Ozone System Rehabilitation

- Placed in operation in 2005
- Five ozone generators and power supply units (PSUs) originally installed – units are obsolete
- PSU replacement
 - Feb. 2020 – Board awarded procurement contract for new PSUs & generator dielectrics
 - Jul. 2022 – Equipment delivery



New Power Supply Unit

Previously Awarded Contract

- November 9, 2021 – Board awarded a \$1,477,000 contract to Minco Construction
 - Single bid
- November 17, 2021 – State notification of Minco debarment
 - Disqualified from public works project
 - Debarred through September 2022
- January 25, 2022 – Notice of Termination issued

Jensen Ozone Power Supply Unit Replacement

Contractor Scope

- Remove existing PSUs
- Install Metropolitan-furnished PSUs
- Install associated electrical, instrumentation & control, and communication equipment
- Modify the cooling water system
- Provide support for PSU start-up and testing

Jensen Ozone Power Supply Unit Replacement

Metropolitan Scope

- Install new fiber optic signal wiring & conduit to each PSU
- Modify plant's SCADA system
- Coordinate shutdown & tie-ins
- Provide construction inspection & submittal review
- Provide project mgmt. & contract admin.

Jensen Ozone Power Supply Unit Replacement

Consultant/Vendor Scope (Previously Authorized)

- Suez Treatment Solutions/Veolia (PSU Manufacturer)
 - Provide start-up, testing, & field assistance under existing procurement contract
- CDM Smith, Inc.
 - Provide support during construction & commissioning
 - Preparation of record drawing

Bid Results

Specifications No. 2001A

Bids Received	April 27, 2022
No. of Bidders	1
Sole Bidder	Leed Electric, Inc.
Bid	\$2,257,897
Engineer's estimate	\$1,860,000
SBE Participation*	100%

*SBE (Small Business Enterprise) participation level set at 25%

Jensen Ozone Power Supply Unit Replacement

Alternatives Considered

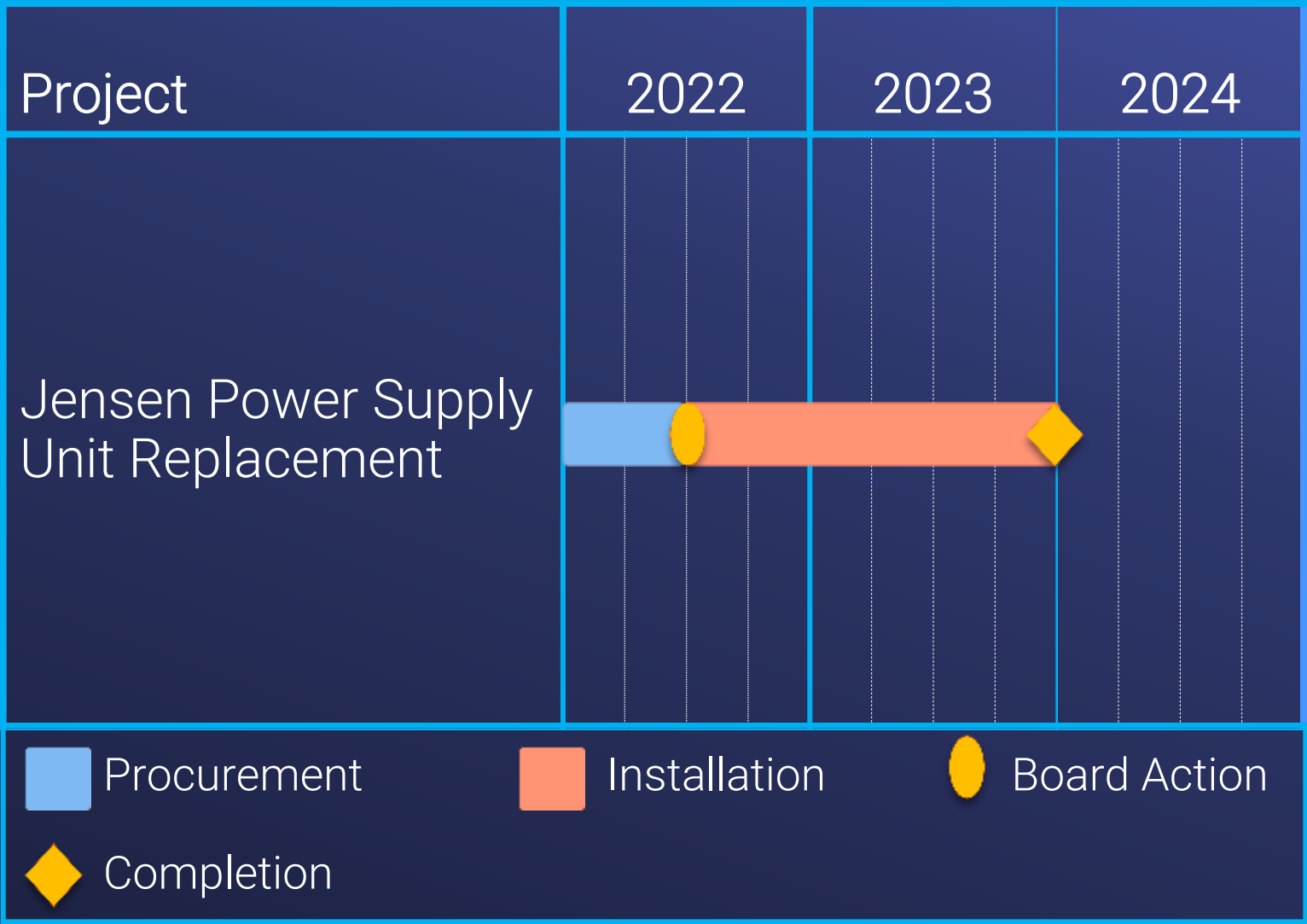
- Reject bid and readvertise the project
 - Six months to repack/rebid/award
 - Uncertain if this would result in more favorable bids
 - Prolongs project schedule
- Award contract at this time (Selected Option)
 - PSU delivery in July 2022
 - Timely installation of PSUs
 - Minimal operational impacts

Allocation of Funds

		Jensen Ozone Power Supply Unit Replacement
Contract		
Leed Electric, Inc.		\$2,257,897
Metropolitan Labor		
Program mgmt. & contract admin.		460,000
Submittal review & record drwgs.		120,000
Construction management/inspection		615,000
Force construction		650,000
Materials & Supplies		20,000
Professional Services		
CDM Smith Inc.		230,000
Remaining Budget		407,103
Total		\$4,760,000

Note: \$4.63 million of the required total was allocated to the project after the November 2021 board action.

Project Schedule



Board Options

- Option #1

Award a \$2,257,897 contract to Leed Electric, Inc. for replacement of ozone power supply units at the Jensen plant.

- Option #2

Reject all bids and advertise/bid the project again in 12 months when economic conditions stabilize, and perform additional contractor outreach.

- Option #3

Do not proceed with the project at this time.

Staff Recommendation

- Option #1

