



Agenda Report Details (With Text)

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Title: PLANT NO. 2 DISTRIBUTION CENTER H, 480V SWITCHGEAR UNDERVOLTAGE RELAY UPGRADE PROJECT

Sponsors: Rob Thompson

Indexes:

Code sections:

Attachments: 1. Agenda Report

Date	Ver.	Action By	Action	Result
12/15/2021	1	BOARD OF DIRECTORS		
12/1/2021	1	OPERATIONS COMMITTEE	Recommended for Approval	

FROM: James D. Herberg, General Manager
Originator: Rob Thompson, Assistant General Manager

SUBJECT:

PLANT NO. 2 DISTRIBUTION CENTER H, 480V SWITCHGEAR UNDERVOLTAGE RELAY UPGRADE PROJECT

GENERAL MANAGER'S RECOMMENDATION

RECOMMENDATION:

- A. Approve a Purchase Order Contract with Miron Electric Construction Corp. for Plant No. 2 Distribution Center H, 480V Switchgear Undervoltage Relay Upgrade Project, per Specification No. S-2021-1280, for a total amount not to exceed \$198,200; and
- B. Approve a contingency of \$19,820 (10%).

BACKGROUND

The Orange County Sanitation District (OC San) uses undervoltage relays in the electrical protection scheme and to automatically transfer loads to safely distribute 480 volt power. The undervoltage relays provide circuit protection in the event of voltage drop or short circuit condition.

RELEVANT STANDARDS

- Protect OC San assets
- 24/7/365 treatment plant reliability

- Maintain a proactive asset management program

PROBLEM

Plant No. 2 Distribution Center H was designed with three 480V switchgear lineups that utilize six GE MIV II/IV undervoltage relays. These GE Relays are now obsolete and replacement components are difficult to procure, which impacts the reliability of the switchgear to perform load protection and load transfer functions of critical loads at the Plant No. 2 Headworks. During an unplanned power loss/interruption event, critical process loads need to be relay-protected and automatically transferred to emergency power sources.

PROPOSED SOLUTION

Staff recommends awarding a Purchase Order Contract to Miron Electric Construction Corp. to replace two obsoleted GE MIV II and four obsoleted GE MIV legacy relays with six Schweitzer SEL 751 Feeder Protection Relays consistent with OC San engineering specifications.

TIMING CONCERNS

Proceeding expeditiously is desired to address obsolescence issues within critical switchgear equipment.

RAMIFICATIONS OF NOT TAKING ACTION

Not taking action impacts OC San's ability to auto transfer critical loads to stable power sources in the event of a voltage drop or if a short circuit condition occurs.

PRIOR COMMITTEE/BOARD ACTIONS

N/A

ADDITIONAL INFORMATION

A 10% contingency has been recommended to cover any unforeseen issues during replacement.

A Notice Inviting Bids was issued on September 21, 2021, via PlanetBids. A non-mandatory pre-bid meeting was conducted virtually on October 5, 2021. Bids were due on October 26, 2021. OC San received five bids valid for 180 calendar days from the bid opening date.

The following is a list of the firms who submitted a bid.

Company Name	Bid	Determination
Inter-Pacific, Inc.	\$59,088.49	Withdrew Bid
Houalla Enterprises, Ltd.	\$65,140.00	Withdrew Bid
Miron Electric Construction Corp.	\$198,200.00	Responsive

Shimmick Construction Inc.	\$245,500.00	Responsive
Baker Electric	\$335,513.00	Responsive

Two firms withdrew their bids due to estimating errors when additional costs of rental equipment and labor were later discovered. Staff recommends awarding a Service Contract to the lowest responsive and responsible bidder, Miron Electric Construction Corp., for the Plant No. 2 Distribution Center H, 480V Switchgear Undervoltage Relay Upgrade Project.

CEQA

Relay replacement is categorically exempt from CEQA under the Class 1 categorical exemptions set forth in California Code of Regulations Section 15301. Section 15301 (Class 1) exempts from CEQA “the operation, repair, maintenance, permitting, leasing, licensing, or minor alteration of existing public or private structures, facilities, mechanical equipment, or topographical features, involving negligible or no expansion of existing or former use,” including “(b) Existing facilities of both investor and publicly-owned utilities used to provide electric power, natural gas, sewerage, or other public utility services”.

FINANCIAL CONSIDERATIONS

This request complies with authority levels of the OC San Purchasing Ordinance. This recommendation will be funded under the Repair and Maintenance line item for Operations and Maintenance Department (Budget Update - Fiscal Year 2021-2022, Page 45). The available funding is sufficient for this action.

<u>Date of Approval</u>	<u>Contract Amount</u>	<u>Contingency</u>
12/15/2021	\$198,200	\$19,820 (10%)

ATTACHMENT

The following attachment(s) may be viewed on-line at the OC San website (www.ocsan.gov) with the complete agenda package:

N/A