

Agenda Report

File #: 2019-671, **Version:** 1

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

SUBJECT:

PLANT NO. 1 EMERGENCY GENERATOR BREAKER PURCHASE, PROJECT NO. MP-641

GENERAL MANAGER'S RECOMMENDATION

RECOMMENDATION:

- A. Approve a purchase order contract to Romac Supply Co., Inc. for the purchase of ten critical circuit breakers for Plant No.1 Project No. MP-641 per Specification No. E-2019-1091BD-R (Rebid), for a total amount not to exceed \$102,326, plus applicable sales tax; and
- B. Approve a contingency of \$5,117 (5%).

BACKGROUND

Circuit breakers are a critical part of the power distribution infrastructure and serve as protective devices to quickly isolate faults in an electrical power system. Emergency generators are protected by a single circuit breaker between the generator and the distribution system. This design creates a single point of failure on this critical back-up system. If the circuit breaker fails, the result is an emergency system that cannot function, placing plant operations at risk.

RELEVANT STANDARDS

- Protect Orange County Sanitation District assets
- 24/7/365 treatment plant reliability
- Maintain a proactive asset management program

PROBLEM

Several of the Plant No. 1 emergency generator circuit breakers have been in service for many years. Many of these large circuit breakers are no longer manufactured and not readily available. If spare units are not available at the time of failure, service outages of up to eight weeks are possible while faulty units are repaired.

PROPOSED SOLUTION

Purchase dedicated spare breakers to mitigate the impact of single points of failure between generators and generator bus.

TIMING CONCERNS

Proceeding in a timely fashion is desired to prevent operational delays and to sustain a safe working environment during an emergency.

RAMIFICATIONS OF NOT TAKING ACTION

Not taking action will potentially cause disruption or prolonged outage. Prolonged outages are costly, requiring bypass and temporary power set-up as the circuit breakers are considered critical electrical assets for normal operation and for protecting and isolating electrical faults in power distribution equipment.

PRIOR COMMITTEE/BOARD ACTIONS

N/A

ADDITIONAL INFORMATION

The Orange County Sanitation District (Sanitation District) advertised for bids on September 27, 2019. Two sealed bids were received on October 22, 2019. The bids were evaluated in accordance with the Sanitation District's policies and procedures. Staff recommends awarding a purchase order to the lowest responsive and responsible bidder, Romac Supply Co., Inc., for purchase of ten critical circuit breakers.

Summary information on the bid opening is as follows:

Bidder	Amount of bid (not including sales tax)
Romac Supply Co., Inc.	\$102,326
Advanced Electrical & Motor Controls	\$146,000

A contingency of 5% is recommended to address the potential need for additional breaker components or breaker trip units.

CEQA

N/A

FINANCIAL CONSIDERATIONS

This request complies with authority levels of the Sanitation District's Purchasing Ordinance. This recommendation will be funded under the Repair and Maintenance line item for Operations and Maintenance Department (Budget Update Fiscal Year 2019-20, Page 47). The available funding is sufficient for this action.

<u>Date of Approval</u>	<u>Contract Amount</u>	<u>Contingency</u>
12/04/2019	\$102,326	\$5,117 (5%)

ATTACHMENT

The following attachment(s) may be viewed on-line at the OCSD website (www.ocsd.com) with the complete agenda package:

N/A

RM:sh:ab:qc