



# Orange County Sanitation District

Administration Building  
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(714) 593-7433

## OPERATIONS COMMITTEE

### Agenda Report

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**File #:** 2020-1044

**Agenda Date:** 6/3/2020

**Agenda Item No:** 3.

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

**SUBJECT:**

**TOSHIBA 12KV CIRCUIT BREAKER PURCHASE**

**GENERAL MANAGER'S RECOMMENDATION**

RECOMMENDATION: Recommend to the Board of Directors to:

- A. Award a Purchase Order Contract to Superior Electric Motor Services for the purchase of eight Toshiba HVK 12kV circuit breakers for Plant No. 1 Electrical Distribution System, per Specification No. E-2020-1162BD, for a total amount not to exceed \$195,072, including sales tax and freight; and
- B. Approve a contingency of \$9,754 (5%).

**BACKGROUND**

The Orange County Sanitation District (Sanitation District) Plant No. 1 Power Building 5 12 kV circuit breakers are over 20 years old and have reached the end of their useful life. The Toshiba VK type 1 circuit breakers currently in service are obsolete and no longer supported nor repairable by Toshiba's field service repair shop. Replacement parts are also not available. Toshiba redesigned the circuit breakers and changed their designation to HVK. The Toshiba HVK circuit breakers are the only circuit breakers compatible with 12 kV switchgear in Power Building 5.

**RELEVANT STANDARDS**

- Protect Orange County Sanitation District assets
- Maintain a proactive asset management program
- Sustain 1, 5, 20-year planning horizons
- 24/7/365 treatment plant reliability

**PROBLEM**

Toshiba model VK circuit breakers have reached the end of their useful life. Preventive maintenance performed identified contact wear at their maximum allowable limit. Toshiba no longer supports repair services because parts are unavailable for these circuit breakers.

**PROPOSED SOLUTION**

Competitively bid and subsequently approve a purchase order to the lowest responsive and responsible bidder, for the purchase of eight new Toshiba HVK 12 kV circuit breakers for Plant No. 1 Power Building 5.

**TIMING CONCERNS**

The replacement of 12 kV circuit breakers are required for reliably switching power to the Plant No. 1 Digester Facilities. A delay in procurement may impact the ability to switch power from multiple sources due to risk of a circuit breaker failure which impacts reliability for processing solids.

**RAMIFICATIONS OF NOT TAKING ACTION**

Failure to act increases the risk of circuit breaker failure resulting in a disruption of power distribution throughout Plant No. 1, impacting process and our ability to treat wastewater.

**PRIOR COMMITTEE/BOARD ACTIONS**

N/A

**ADDITIONAL INFORMATION**

Six bids were received. Below are the responsive bidders and their corresponding bids plus additional sales tax. The lowest responsive and responsible bidder is Superior Electric Motor Services.

| <b>Bidder</b>                    | <b>Amount of Bid Plus Sales Tax</b> |
|----------------------------------|-------------------------------------|
| Superior Electric Motor Services | \$195,071.40                        |
| Turtle & Hughes                  | \$200,535.00                        |
| Romac Supply                     | \$201,405.00                        |
| Sulzer EMS                       | \$212,527.95                        |
| CHW Enterprises, Inc.            | \$227,191.80                        |
| B&H International                | \$247,478.68                        |

**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 the 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> |
|-------------------------|------------------------|--------------------|
| 06/24/2020              | \$195,072              | \$9,754 (5%)       |

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**ATTACHMENT**

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

N/A

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