



# OPERATIONS COMMITTEE

Headquarters  
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## Agenda Report

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**File #:** 2024-4007

**Agenda Date:** 12/18/2024

**Agenda Item No:** 12.

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**FROM:** Robert Thompson, General Manager  
Originator: Riaz Moinuddin, Director of Operations & Maintenance

**SUBJECT:**

**PROTECTIVE RELAY AND CIRCUIT BREAKER TESTING, SPECIFICATION NO. S-2024-636BD**

**GENERAL MANAGER'S RECOMMENDATION**

RECOMMENDATION:

- A. Approve a General Services Contract to Electric Power Systems International, Inc. to provide Protective Relay and Circuit Breaker Testing, Specification No. S-2024-636BD, for a total amount not to exceed \$426,395 for a three-year period; and
- B. Approve a contingency of \$106,598 (25%).

**BACKGROUND**

Orange County Sanitation District's (OC San) electrical relays and circuit breakers are protective devices essential in protecting low and medium voltage electrical distribution systems from catastrophic failure during transient, overload or short circuit conditions. ANSI/NFPA 70B recommends that protective relay devices and circuit breakers be verified, tested, and set at intervals of one to three years to confirm accuracy. Testing these devices ensures the reliability and safety of our electrical distribution system and staff working in these areas.

**RELEVANT STANDARDS**

- 24/7/365 treatment plant reliability
- Comply with environmental permit requirements
- Maintain a proactive asset management program
- Operate and maintain facilities to minimize impacts on surrounding communities, including odor, noise, and lighting

**PROBLEM**

OC San has circuit breakers and relays that have not been verified within the recommended timeframe. With over 1,250 protective relays and circuit breakers, supplemental support from an InterNational Electrical Testing Association certified contractor helps ensure reliable operation and safety.

**PROPOSED SOLUTION**

Staff recommends a three-year General Services Contract to Electric Power Systems International, Inc. to provide Protective Relay and Circuit Breaker Testing Services for Treatment Plant Nos. 1, 2, and Pump Stations.

**TIMING CONCERNS**

Approval by the Board of Directors is essential to confirm that the Orange County Sanitation District (OC San) can test the treatment plant’s power systems to ensure it is safe, reliable, and compliant with NFPA 70B (National Fire Protection Association) standards.

**RAMIFICATIONS OF NOT TAKING ACTION**

If the testing services are not performed soon, the operational status of protective relays and circuit breakers will remain unverified, increasing the risk of potential injury, equipment damage, loss of power, and unscheduled plant shutdowns.

**PRIOR COMMITTEE/BOARD ACTIONS**

September 2018 - Awarded a Service Contract to Western Electrical Services for Protective Relay and Circuit Breaker Testing at Plant Nos. 1 and 2, Specification No. S-2018-940-BD, for a total amount not to exceed \$437,670 and approved a contingency of \$87,534 (20%).

**ADDITIONAL INFORMATION**

A Notice Inviting Bids was issued on September 19, 2024, via PlanetBids. OC San received three bids which are valid for 180 calendar days from the bid opening/proposal due date. Summary information of the bids received is as follows:

Company Name	Bid	Determination
Electric Power Systems International, Inc.	\$ 426,395.00	Responsive/ Responsible
Hampton Tedder Technical Services, Inc.	\$1,175,026.00	Non-Responsive
VISTAM, Inc.	\$1,405,898.00	Responsive/ Responsible
Engineer’s Estimate: \$ 440,112.67		

A 25% contingency is being requested to accommodate potential schedule conflicts with other construction projects that may limit access to equipment.

**CEQA**

N/A

**FINANCIAL CONSIDERATIONS**

This request complies with authority levels of OC San’s Purchasing Ordinance. This item has been budgeted (Budget FY 2024-25 and 2025-26, Section 6, Page 112, Repair & Maintenance) and the budget is sufficient for the recommended action.

<u>Date of Approval</u>	<u>Contract Amount</u>	<u>Contingency</u>
12/18/2024	\$426,395	\$106,598 (25%)

**ATTACHMENT**

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

- General Services Contract