



OPERATIONS COMMITTEE

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Agenda Report

File #: 2021-1748

Agenda Date: 12/1/2021

Agenda Item No: 2.

FROM: James D. Herberg, General Manager
Originator: Kathy Millea, Director of Engineering

SUBJECT:

TRICKLING FILTER 480 VOLT CABLE REPLACEMENT AT PLANT NO. 1, PROJECT NO. FR1-0008

GENERAL MANAGER'S RECOMMENDATION

RECOMMENDATION: Recommend to the Board of Directors to:

- A. Receive and file Bid Tabulation and Recommendation for Trickling Filter 480 Volt Cable Replacement at Plant No. 1, Project No. FR1-0008;
- B. Award a Service Contract to Baker Electric, Inc. for Trickling Filter 480 Volt Cable Replacement at Plant No. 1, Project No. FR1-0008 for an amount not to exceed \$251,586; and
- C. Approve a contingency of \$50,317 (20%).

BACKGROUND

The Trickling Filters at Orange County Sanitation District (OC San) Plant No. 1, which were completed in 2006, provide approximately 20% of the plant's secondary treatment capacity.

RELEVANT STANDARDS

- 24/7/365 treatment plant reliability
- Maintain a proactive asset management program

PROBLEM

Recently, a number of electrical cables in the Trickling Filter process have shorted out due to a failure with the cables' insulation. The equipment driven by these cables cannot be operated until the cables are replaced. Repairing the cables is typically not feasible because the location of the short cannot be determined. These failures have significantly impacted the reliability of the trickling filter process.

PROPOSED SOLUTION

Award a Service Contract for Trickling Filter 480 Volt Cable Replacement at Plant No. 1, Project No. FR1-0008. This project will install new power and control cables for 14 affected pieces of equipment.

Staff has found from similar projects that additional cables may fail by the time this work is completed. In those cases, it is more cost effective to replace the cable at the time the contractor is mobilized than initiating a new contract. For this reason, staff is requesting a higher-than-usual contingency of 20% to replace additional cables in the same area, should the need arise.

TIMING CONCERNS

14 pieces of equipment cannot be utilized until these cables are replaced. Until then, the Trickling Filters process reliability will continue to be reduced.

RAMIFICATIONS OF NOT TAKING ACTION

The failed equipment would remain out of service which would greatly reduce treatment reliability.

PRIOR COMMITTEE/BOARD ACTIONS

N/A

ADDITIONAL INFORMATION

OC San advertised Project No. FR1-0008 for bids on September 2, 2021, and two sealed bids were received on September 21, 2021. A summary of the bid opening follows:

Engineer's Estimate	\$ 337,680
<u>Bidder</u>	<u>Amount of Bid</u>
Baker Electric, Inc.	\$ 251,586
Mass Electric Construction Co.	\$ 323,000

The bids were evaluated in accordance with OC San policies and procedures. A notice was sent to all bidders on October 11, 2021, informing them of the intent of OC San staff to recommend award of the Service Contract to Baker Electric, Inc.

Staff recommends awarding a Service Contract to the lowest responsive, responsible bidder, Baker Electric, Inc., for a total amount not to exceed \$251,586.

CEQA

This project is exempt from CEQA under the Class 1 categorical exemptions set forth in California Code of Regulations Section 15301 because the project involves minor replacement of existing facilities involving no expansion of use or capacity. A Notice of Exemption will be filed with the OC Clerk-Recorder after OC San Board of Directors approval of the Service Contract.

FINANCIAL CONSIDERATIONS

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

ATTACHMENT

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

- Service Contract

SP:dm:gc