



OPERATIONS COMMITTEE

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Agenda Report

File #: 2021-1457

Agenda Date: 3/3/2021

Agenda Item No: 2.

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

SUBJECT:

PURCHASE OF INVENTORY REPLACEMENT PUMPS FOR PLANT NO. 1 DIGESTER HIGH-RATE PUMPS

GENERAL MANAGER'S RECOMMENDATION

RECOMMENDATION:

- A. Approve a Sole Source Purchase Order to Flo-Systems for the purchase of two Hidrostal I16K-SS pumps for Plant No. 1 Digesters, for a total amount not to exceed \$158,728, including taxes and freight; and
- B. Approve a contingency of \$15,873 (10%).

BACKGROUND

Digesters stabilize organic solids from primary and secondary treatment processes and produce biosolids and digester gas to fuel the Orange County Sanitation District's (Sanitation District) Central Generation facilities. There are 10 working digesters with two high-rate mix pumps per digester. Both high-rate pumps are needed for proper mixing of the co-thickened sludge at Plant No. 1. Failure of any one pump will result in degradation of the mixing process and loss of gas production.

RELEVANT STANDARDS

- 24/7/365 treatment plant reliability
- Maintain a proactive asset management program
- Maintain a culture of improving efficiency to reduce the cost to provide the current service level or standard

PROBLEM

The requirement to operate two pumps to maintain full operation inhibits the ability to pull pumps for maintenance prior to failure. This leads to long turnaround times, and process outages, for repair due to long lead time parts requirements for these specialty pumps.

PROPOSED SOLUTION

Procure two spare Hidrostal high-rate mix pumps, one clockwise rotation and one counterclockwise rotation, to provide ready spare assets for removal and repair of pumps prior to failures. This will ensure asset availability and maintain proper mixing of the digester sludge. These two assets will serve as replacements for all ten Plant No.1 working digester high-rate pumps.

RAMIFICATIONS OF NOT TAKING ACTION

Failure to obtain spare pumps to provide for pump swapping will result in extended equipment downtime which could lead to insufficient mixing of the thicker digester sludge, causing treatment upsets in the digestion process and loss of gas production.

ADDITIONAL INFORMATION

Hidrostal is the original equipment manufacturer and Flo-Systems is the sole authorized equipment and parts distributor for the Southern California region. A 10% contingency is requested in the event of pricing changes due to tariffs, delays in placing the order beyond the quote availability, or other unforeseeable changes.

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 Plant No. 1 Maintenance Department (Budget Fiscal Year 2020-21, Section 6, Page 92). The available funding is sufficient for this action.

<u>Date of Approval</u>	<u>Contract Amount</u>	<u>Contingency</u>
03/03/2021	\$158,728	\$15,873 (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

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