



OPERATIONS COMMITTEE

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Agenda Report

File #: 2023-3324

Agenda Date: 12/6/2023

Agenda Item No: 11.

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

SUBJECT:

PROCUREMENT OF CENTRIFUGAL PUMPS FOR SPARE INVENTORY AT PLANT NO. 1

GENERAL MANAGER'S RECOMMENDATION

RECOMMENDATION: Recommend to the Board of Directors to:

- A. Approve a Sole Source Purchase Order Contract to Flo-Systems for the purchase of spare inventory Centrifugal Pumps assemblies: two Clockwise Directional Pumps and two Counterclockwise Directional Pumps, for a total amount not to exceed \$320,453, including applicable sales tax and freight; and
- B. Approve a contingency of \$32,045 (10%).

BACKGROUND

The Orange County Sanitation District (OC San) operates 12 digesters at Plant No. 1 that require one clockwise directional mixing pump and one counterclockwise directional mixing pump per digester. The purpose of the Digester Mixing System is to efficiently digest solids, prevent hardening of sludge, and enhance biogas production. Currently, both mixing pumps, per digester, are operated simultaneously, and spare units are required to maintain process uptime and availability.

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

The digester mixing pumps on all of the Plant No. 1 digesters have been in continuous service with no redundancy. Pump failures have recently occurred on a few of the pumps due to worn and damaged shafts and seals. Procurement lead times for these pump assemblies are long, approximately 29 weeks.

PROPOSED SOLUTION

Purchase four pumps, two in each rotational direction (clockwise and counterclockwise), to add to the warehouse, as spare inventory, to minimize process down-time and increase the availability and reliability of critical assets.

TIMING CONCERNS

N/A

RAMIFICATIONS OF NOT TAKING ACTION

Failure to maintain adequate spare pump units and parts in the inventory could result in extended interruption with the digester mixing systems, potentially impacting the ability to maintain process parameters, sludge retention time, and permit compliance.

PRIOR COMMITTEE/BOARD ACTIONS

N/A

ADDITIONAL INFORMATION

A 10% contingency is being requested to accommodate any delays to execution of the Purchase Order, as some vendors are hesitant to extend beyond the requested date.

CEQA

N/A

FINANCIAL CONSIDERATIONS

This request complies with authority levels of OC San's Purchasing Ordinance. The recommendation will be funded under the Repairs and Maintenance line item for Plant No. 2 Operations and Maintenance Department (Budget Update Fiscal Year 2023-24, Page 39) 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:

N/A