



# OPERATIONS COMMITTEE

Administration Building  
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## Agenda Report

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**File #:** 2022-2465

**Agenda Date:** 10/5/2022

**Agenda Item No:** 6.

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**FROM:** James D. Herberg, General Manager  
Originator: Riaz Moinuddin, Director of Operations & Maintenance

**SUBJECT:**

**IMPELLER PUMPS FOR GRIT HANDLING AT PLANT NO. 2 HEADWORKS**

**GENERAL MANAGER'S RECOMMENDATION**

RECOMMENDATION:

- A. Approve a Sole Source Purchase Order to Flo-Systems, Inc. for the procurement of two Trillium Pumps USA Inc., WEMCO Impeller Pumps for Plant No. 2 Headworks for a total amount not to exceed \$128,265, plus applicable sales tax and shipping; and
- B. Approve a contingency of \$12,826 (10%).

**BACKGROUND**

There are currently six Fairbanks Twin Pumps in operation at Plant No. 2 Headworks. These pumps are used for grit handling with three pumps matching a clockwise water vortex and three matching a counterclockwise flow vortex. Fairbanks has discontinued the Twin Pumps line and the manufacturing of all related spare parts.

Orange County Sanitation District (OC San) staff identified WEMCO Impeller Pumps, manufactured by Trillium Pumps USA Inc. which are distributed by Flo-Systems, Inc. as like-kind pump replacements. OC San Engineers verified hydraulic requirements and physical fit of replacement pumps.

**RELEVANT STANDARDS**

- 24/7/365 treatment plant reliability
- Maintain a proactive asset management program
- Comply with environmental permit requirements

**PROBLEM**

Existing grit pumps are obsolete and can no longer be reliably maintained. Replacement parts are no longer available for pump repairs.

**PROPOSED SOLUTION**

Approve the purchase of two in-kind replacement pumps: one clockwise rotation pump and one counterclockwise rotation pump as spare inventory to be added to the warehouse.

**TIMING CONCERNS**

Existing pumps are 12 years old and showing signs of wear. Spares will be used to replace pumps in operation, as needed.

**RAMIFICATIONS OF NOT TAKING ACTION**

Extended down time waiting for the purchase of replacement equipment when failures occur.

**PRIOR COMMITTEE/BOARD ACTIONS**

N/A

**ADDITIONAL INFORMATION**

Staff performed extensive research on the compatibility for a direct replacement of the existing obsolete Fairbanks pumps; no other pump manufacturer, other than WEMCO, was deemed able to provide a direct replacement which requires no changes to piping configuration, motor, or base.

**CEQA**

N/A

**FINANCIAL CONSIDERATIONS**

This request complies with authority levels of OC San's Purchasing Ordinance. This recommendation will be funded under the Repairs and Maintenance line item for Plant No. 2 Maintenance Division (Proposed Budget Fiscal Years 2022-2023 and 2023-2024, Adopted June 22, 2022, Section 6, Page 96), and the available funding is sufficient for this action.

<u>Date of Approval</u>	<u>Contract Amount</u>	<u>Contingency</u>
10/05/2022	\$128,265 + sales tax & shipping	\$12,826 (10%)

**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:*

N/A