



Orange County Sanitation District

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Agenda Report Details (With Text)

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Title: MP2-0010 PRIMARY EFFLUENT PUMP STATION PUMP NOS. 1, 2, AND 3 OVERHAUL AT PLANT NO. 2

Sponsors: Riaz Moinuddin

Indexes:

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Attachments: 1. Agenda Report, 2. Services Contract, 3. Supplemental Attachment

Date	Ver.	Action By	Action	Result
9/6/2023	1	OPERATIONS COMMITTEE		

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

SUBJECT:

MP2-0010 PRIMARY EFFLUENT PUMP STATION PUMP NOS. 1, 2, AND 3 OVERHAUL AT PLANT NO. 2

GENERAL MANAGER'S RECOMMENDATION

RECOMMENDATION: Recommend to the Board of Directors to:

- A. Approve a Sole Source Services Contract for MP2-0010 Primary Effluent Pump Station (PEPS) Pump Nos. 1, 2, and 3 Overhaul at Plant No. 2 to Vaughan’s Industrial Repair Co., Inc. to rebuild three (3) Fairbanks Morse vertical pumps, for a total amount not to exceed \$619,774; and
- B. Approve a contingency of \$61,977 (10%).

BACKGROUND

The Orange County Sanitation District (OC San) Plant No. 2 PEPS conveys non-reclaimable primary-treated wastewater to the Activated Sludge (AS) process for secondary treatment prior to discharge through the ocean outfall. The PEPS Pump Station is comprised of four pumps that were originally installed over 40 years ago by Project P1-16 in 1981.

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

A recent rebuild of the PEPS Pump No. 4 at OC San Plant No. 2 found degradation and damage that needed repairs on the discharge elbow, pump impeller, and suction bell. PEPS Pump Nos. 1, 2, and 3 have been in service for the same amount of time and require removal and repair before any major parts are damaged beyond repair.

PROPOSED SOLUTION

Approve a Sole Source Service Contract with a fixed 3-year contract, one pump per year, to Vaughan's Industrial Repair Co., Inc. to rebuild the Fairbanks Morse PEPS Pumps. The pumps need to be overhauled to give units a longer life cycle and before damaged parts become obsolete.

TIMING CONCERNS

The existing three PEPS Pumps are 40 years old and are showing signs of degradation.

RAMIFICATIONS OF NOT TAKING ACTION

Failure to overhaul and recondition the PEPS Pumps would result in the reduction of secondary treatment capacity if failure were to occur. Additionally, a pump failure would severely handicap the ability to pump primary effluent to the AS Plant, thus affecting the ability to process peak wet weather flows and maintain permit capacity.

PRIOR COMMITTEE/BOARD ACTIONS

August 2019 - Fairbanks Morse added to the OEM (Original Equipment Manufacturer) Board sole source list.

ADDITIONAL INFORMATION

Vaughan's Industrial Repair Co., Inc. is the sole authorized service center for OC San's Fairbanks Morse pumps. A contingency of 10% is requested to cover additional costs for labor and materials should further damage be discovered once the influent pumps have been removed.

CEQA

The repair of the Primary Effluent Pumps is categorically exempt from CEQA under the Class 1 categorical exemptions set forth in California Code of Regulations Section 15301. Section 15301 (Class 1) exempts from CEQA "the operation, repair, maintenance, permitting, leasing, licensing, or minor alteration of existing public or private structures, facilities, mechanical equipment, or topographical features, involving negligible or no expansion of existing or former use", including "(b) Existing facilities of both investor and publicly owned utilities used to provide electric power, natural gas, sewerage, or other public utility services".

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). 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:

- Services Contract
- Photos/Supplemental Attachment