



OPERATIONS COMMITTEE

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Agenda Report

File #: 2024-3487

Agenda Date: 3/6/2024

Agenda Item No: 4.

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

SUBJECT:

PRIMARY EFFLUENT PUMP STATION PUMP #3 REBUILD AT PLANT NO. 1

GENERAL MANAGER'S RECOMMENDATION

RECOMMENDATION: Recommend to the Board of Directors to:

- A. Approve additional funds of \$244,601 to Sole Source Purchase Order 161427-OS, to DXP Enterprises, Inc. (formerly Cortech Engineering, Inc.), to rebuild Primary Effluent Pump Station Pump #3 at Plant No. 1, for a new total amount not to exceed \$322,061; and
- B. Approve a contingency of \$32,206 (10%).

BACKGROUND

Orange County Sanitation District (OC San) Plant No. 1 Primary Effluent Pump Station (PEPS) has three vertical pumps that were installed during Project No. P1-16 in 1973. Primary effluent is pumped through Primary Sedimentation Basins to the secondary treatment at the activated sludge facility, AS-1, at Plant No. 1. Additional flows that enter the PEPS wet well include Central Generation cooling water, plant water strainers, and dissolved air flotation thickeners.

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

PEPS Pump No. 3 has been operating at a diminishing output and requires overhaul. As a result, primary effluent flow capacity is limited to Secondary Basins for treatment. The pump was shipped to the service facility and torn down for diagnosis under a purchase order contract. This diagnosis revealed the need for additional parts and rework than what was anticipated, including a new impeller which must be cast and machined to original specifications.

PROPOSED SOLUTION

Approve an additional \$244,601 to Purchase Order 161427-OS for DXP Enterprises, Inc. to rebuild the PEPS Pump #3 based on their previous inspection report that identified major part replacements to restore pump performance.

TIMING CONCERNS

Delays in approving this work may result in treatment plant secondary treatment capacity limitations for additional wet weather (high flow) seasons.

RAMIFICATIONS OF NOT TAKING ACTION

If PEPS Pump No. 3 cannot operate per design, primary effluent treatment will potentially be impacted at Plant No. 1 during wet weather events.

PRIOR COMMITTEE/BOARD ACTIONS

N/A

ADDITIONAL INFORMATION

DXP Enterprises, Inc. is the Original Equipment Manufacturer and is the authorized service provider within OC San’s geographical region. PEPS Pump No. 3 was removed and shipped to the service provider for teardown, inspection, and assessment. Based on the assessment, approval of additional funds are required to repair and refurbish the pump.

CEQA

N/A

FINANCIAL CONSIDERATIONS

This request complies with authority levels of OC San’s Purchasing Ordinance. This recommendation will be funded under the Plant No. 1 and Plant No. 2 Maintenance Department, Budget Update 2023-2024, Page 39. The available funding is sufficient for this action.

<u>Date of Approval</u>	<u>Contract Amount</u>	<u>Contingency</u>
03/27/2024	\$322,061	\$32,206 (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

RZ:ls