



# OPERATIONS COMMITTEE

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## Agenda Report

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**File #:** 2024-3517

**Agenda Date:** 3/27/2024

**Agenda Item No:** 6.

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**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:

- 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](http://www.ocsan.gov)) with the complete agenda package:*

N/A

RZ:ls