
File #: 2024-3961

Agenda Date: 12/4/2024

Agenda Item No: 7.

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

SUBJECT:

**CENTRIFUGE DEWATERING LUBRICATION RING PUMP REPLACEMENT AT PLANT NO. 2,
PROJECT NO. MP2-015**

GENERAL MANAGER'S RECOMMENDATION

RECOMMENDATION:

- A. Approve a Sole Source General Services Contract with DXP Enterprises, Inc. for the Centrifuge Dewatering Lubrication Ring Pump Replacement at Plant No. 2, Project No. MP2-015, for a total amount not to exceed \$211,158; and
- B. Approve a contingency of \$21,116 (10%).

BACKGROUND

The Orange County Sanitation District (OC San) Centrifuge Dewatering facility at Plant No. 2 dewateres digested sludge, converts the sludge to biosolids cake and conveys biosolids to the Truck Loading facility for removal using piston pumps capable of operating at 1500 psi discharge pressure. To reduce pumping pressure in the biosolids cake headers, a lubrication ring system was supplied by the piston pump manufacturer. The lubrication ring pumping system supplies lubricant to the biosolids cake headers at various points between the Centrifuge Building and the Truck Loading facility to reduce friction.

The current lubrication ring pumps manufactured by OBL are of foreign origin, costly, and are difficult to procure replacement units or parts for from the manufacturer. OC San staff and the original system design engineer performed an assessment to evaluate alternative pumps that can perform the design function and are readily available. The assessment identified a Milton Roy pump that will perform the intended function with minimal tubing modifications and a similar pressure rating without the need for electrical power or controls upgrades.

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 current lubrication ring pumps manufactured by OBL are of foreign origin, costly, subject to long lead times, and difficult to procure replacement units or parts from the original equipment manufacturer (OEM).

PROPOSED SOLUTION

Replace the original lubrication pumps with the Milton Roy lube pumps provided by DXP Enterprises, Inc. identified by the engineering assessment.

TIMING CONCERNS

N/A

RAMIFICATIONS OF NOT TAKING ACTION

If the lubrication pump system fails on the same cake transfer pipe, the increase in backpressure could potentially result in costly damage or premature wear of the cake transfer pumps resulting in extended downtimes.

PRIOR COMMITTEE/BOARD ACTIONS

N/A

ADDITIONAL INFORMATION

Milton Roy is the OEM board approved sole source (9/29/21 Board Award M.O. 17(B)). DXP Enterprises, Inc. is the sole authorized distributor of Milton Roy pumps, and the OEM Sole Source List will be updated next quarter to reflect this change.

CEQA

N/A

FINANCIAL CONSIDERATIONS

This request complies with authority levels of OC San's Purchasing Ordinance. This item has been budgeted (Budget FY 2024-25 and 2025-26, Section 6, Page 112, Repair & Maintenance) and the budget is sufficient for the recommended action.

<u>Date of Approval</u>	<u>Contract Amount</u>	<u>Contingency</u>
12/04/2024	\$211,158	\$21,116 (10%)

ATTACHMENT

The following attachment(s) may be viewed on-line at the OC San website (www.ocsan.gov) with the complete agenda package:

- General Services Contract