



OPERATIONS COMMITTEE

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Agenda Report

File #: 2023-2907

Agenda Date: 5/3/2023

Agenda Item No: 7.

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

SUBJECT:

TRICKLING FILTER A AND B CENTER ROTATING ASSEMBLIES REPLACEMENT AT PLANT NO. 2, PROJECT NO. MP2-005

GENERAL MANAGER'S RECOMMENDATION

RECOMMENDATION: Recommend to the Board of Directors to:

- A. Approve a sole source General Services Contract to Jamison Engineering Contractors, Inc. for Trickling Filter A and B Center Rotating Assemblies Replacement at Plant No. 2, Project No. MP2-005, for a total amount not to exceed \$494,600; and
- B. Approve a contingency of \$49,460 (10%).

BACKGROUND

The Orange County Sanitation District (OC San) trickling filters at Plant No. 2 consist of three 150-foot diameter rotating assemblies. This trickling filter process provides secondary treatment rated at 60 MGD average during dry weather and approximately 182 MGD during peak wet weather capacities. The trickling filters are engineered to remove the organic content in wastewater utilizing micro-organisms living on the filter media. Each trickling filter is equipped with a motor-operated rotary distributor assembly to uniformly distribute the primary treated flow over the media.

Following structural failures in Trickling Filter A, fabrication of a new Center Mast Assembly for Trickling Filter A was approved in June 2022. Subsequently, similar structural deficiencies were identified in the Trickling Filter B Center Mast Assembly and fabrication of replacement pieces was approved in July 2022. The equipment is scheduled to be shipped to Plant No. 2 for installation in May 2023.

RELEVANT STANDARDS

- Maintain a proactive asset management program

PROBLEM

Trickling Filters A and B Center Mast structures have been fabricated and will be delivered to Plant No. 2. The new structural elements need to be installed in Trickling Filters A and B.

PROPOSED SOLUTION

Replace Trickling Filters A and B Center Mast structures provided by Ovivo USA, LLC (Ovivo), the original equipment manufacturer (OEM), using the exclusive OEM qualified installation contractor in our service area, Jamison Engineering Contractors, Inc.

TIMING CONCERNS

The Trickling Filters at Plant No. 2 are critical assets that support secondary treatment requirements. There exists a higher risk of not being able to reliably provide required secondary treatment at Plant No. 2. Additionally, this trickling filter process provides all secondary treatment for the GWRS from Plant No. 2.

RAMIFICATIONS OF NOT TAKING ACTION

Failure to act increases the risk of providing required secondary treatment at the Plant No. 2 trickling filter process and to providing water to the GWRS.

PRIOR COMMITTEE/BOARD ACTIONS

July 2022 - Board approved a Sole Source Purchase Order Contract to Ovivo USA, LLC (Ovivo) for a direct replacement Center Mast assembly for the Plant No. 2 Trickling Filter B solids contact, Secondary Treatment, in an amount not to exceed \$507,272, plus applicable sales tax and shipping; and approved a contingency of \$50,727 (10%).

June 2022 - Board approved a Sole Source Purchase Order Contract to Ovivo USA, LLC (Ovivo) for a direct replacement Center Mast assembly for the Plant No. 2 Trickling Filter A solids contact, Secondary Treatment, in an amount not to exceed \$461,500, plus applicable sales tax and shipping; and approved a contingency of \$46,150 (10%).

ADDITIONAL INFORMATION

Ovivo USA, LLC is the Board of Directors approved OEM for Plant No. 2 Trickling Filter parts. Jamison Engineering Contractors, Inc. is the Board of Directors approved sole source contractor for Trickling Filter repairs.

CEQA

N/A

FINANCIAL CONSIDERATIONS

This request complies with authority levels of OC San's Purchasing Ordinance. This item will be funded by the FY 2022-23 and 2023-24 approved budget for Plant No. 2 Maintenance Division. (Line item: Repairs and Maintenance, Section 6, Page 96).

<u>Date of Approval</u>	<u>Contract Amount</u>	<u>Contingency</u>
05/24/2023	\$494,600	\$49,460

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