



Orange County Sanitation District

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OPERATIONS COMMITTEE

Agenda Report

File #: 2020-1124

Agenda Date: 7/1/2020

Agenda Item No: 7.

FROM: James D. Herberg, General Manager
Originator: Rob Thompson, Assistant General Manager

SUBJECT:

PLANT NO. 1 SUNFLOWER PUMP NO. 2 GEAR DRIVE REPLACEMENT

GENERAL MANAGER'S RECOMMENDATION

RECOMMENDATION: Recommend to the Board of Directors to:

- A. Award a Sole Source Purchase Order Contract to Nuttall Gear for the purchase of a Nuttall Gear Drive T/25 unit for Plant No. 1 Sunflower Pump Station, for a total amount not to exceed \$198,610, plus applicable tax and freight, and
- B. Approve a contingency of \$9,931 (5%).

BACKGROUND

The Orange County Sanitation District (Sanitation District) operates the Sunflower Pump Station to bring wastewater into Plant No. 1. The station consists of two screw pumps, normally with one pump as the duty pump and the second in stand-by mode. One pump can provide the necessary flow capacity; two pumps are needed for system reliability and to help to provide peak wet weather capacity.

The Nuttall gearbox is the driving gear between the motor and the auger. The complete gearbox assembly and all individual components were specifically designed for use at Sunflower Pump Station. All design details of the gearbox are proprietary to Nuttall Gear.

RELEVANT STANDARDS

- Protect Orange County Sanitation District assets
- Maintain a proactive asset management program
- 24/7/365 treatment plant reliability

PROBLEM

One of the Sunflower pump gearbox units is experiencing a high rate of oil loss and must be pulled out of service and sent for extensive repairs with a long lead time for parts and service, and will limit the critical pump station to a single pump for an extended time period.

PROPOSED SOLUTION

Purchase a new gearbox through Nuttall Gear to serve as a swing unit. This swing gearbox unit will provide the means to repair either existing unit without limiting capacity of the pump station with minimal down-time, now and in the future. The purchase of the Nuttall Gear Drive/T25 provides the least operational risk solution to continued compliance and operation of the Sunflower Pump Station for the Sanitation District.

TIMING CONCERNS

The Sunflower Pump Station has limited redundancy with two installed pumps, both pumps will be required to be operational during peak wet weather events to pump the incoming trunkline flows.

RAMIFICATIONS OF NOT TAKING ACTION

Failure to act increases the risk of pump failure resulting in a disruption of flow to Plant No. 1, impacting process, and the ability to treat wastewater during peak wet weather events.

PRIOR COMMITTEE/BOARD ACTIONS

N/A

ADDITIONAL INFORMATION

N/A

CEQA

N/A

FINANCIAL CONSIDERATIONS

This request complies with authority levels of the Sanitation District's Purchasing Ordinance. This item has been budgeted (Budget FY 2020-21, Section 8 - Page 89, Operations & Maintenance Capital Program line item, M-SM-CAP) and the budget is sufficient for the recommended action.

<u>Date of Approval</u>	<u>Contract Amount</u>	<u>Contingency</u>
7/22/2020	\$198,610	\$9,931 (5%)

ATTACHMENT

The following attachment(s) may be viewed on-line at the OCSD website (www.ocsd.com) with the complete agenda package:

N/A

RM:no:ab:gc