



OPERATIONS COMMITTEE

Administration Building
10844 Ellis Avenue
Fountain Valley, CA 92708
(714) 593-7433

Agenda Report

File #: 2024-3469

Agenda Date: 2/28/2024

Agenda Item No: 7.

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

SUBJECT:

COOPER BESSEMER PISTONS FOR SPARE INVENTORY

GENERAL MANAGER'S RECOMMENDATION

RECOMMENDATION:

- A. Approve a Sole Source Purchase Order to Cooper Machinery Services LLC for the procurement of 16 spare piston assemblies for the Central Generation (CenGen) engines, for a total amount not to exceed \$367,931 including applicable sales tax & freight; and
- B. Approve a contingency of \$36,793 (10%).

BACKGROUND

The Orange County Sanitation District (OC San) operates eight internal combustion engines, three 12-cylinder engines, and five 16-cylinder engines manufactured by Cooper Bessemer at the CenGen facilities at Plant Nos. 1 and 2. These engines play a vital role in OC San's emissions reduction and SCAQMD permit compliance by converting biogas into electricity and process heat. To maximize efficiency and meet emission requirements, CenGen engine components must meet specifications set by the original equipment manufacturer (OEM). These parts are critical spares and need to be inventoried by OC San.

RELEVANT STANDARDS

- 24/7/365 treatment plant reliability
- Maintain a proactive asset management program
- Operate and maintain facilities to minimize impacts on surrounding communities, including odor, noise, and lighting

PROBLEM

OC San does not have spare replacement piston assemblies in inventory. Pistons are subject to normal wear and are not readily available. As the engines continue to age, the availability of these parts are becoming difficult to resource. Lead time to procure these pistons can take up to one year.

PROPOSED SOLUTION

Approve a Sole Source Purchase Order to procure 16 spare piston assemblies for the Cooper Bessemer engines to maintain asset availability and minimize process downtime. These spares are suitable to use at either plant in any of the eight engines.

TIMING CONCERNS

N/A

RAMIFICATIONS OF NOT TAKING ACTION

Failure to maintain adequate spare parts in inventory could result in extended equipment downtime, affecting electrical power supplied to both treatment plants and the ability to maintain operational permits.

PRIOR COMMITTEE/BOARD ACTIONS

N/A

ADDITIONAL INFORMATION

Cooper Machinery Services LLC is a Board of Directors approved OEM vendor for all CenGen engine components. A 10% contingency is requested in the event of pricing changes due to tariffs, delays in placing the order beyond the quote availability, or other unforeseeable changes.

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 37. The available funding is sufficient for this action.

<u>Date of Approval</u>	<u>Contract Amount</u>	<u>Contingency</u>
02/28/2024	\$367,931	\$36,793

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

BG:ls