

Agenda Report

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SUBJECT:

HEADWORKS REHABILITATION AT PLANT NO. 1, PROJECT NO. P1-105

GENERAL MANAGER'S RECOMMENDATION

RECOMMENDATION:

Adopt Resolution No. OCSD 20-05 entitled, "A Resolution of the Board of Directors of the Orange County Sanitation District, making findings pursuant to Public Contract Code Section 3400 in support of the sole source specification of SUEZ Water Technologies & Solutions for refurbishing four existing bar screens and for furnishing two new bar screens for Headworks Rehabilitation at Plant No. 1, Project No. P1-105".

BACKGROUND

The headworks facilities are the first treatment process at a wastewater treatment plant and protect downstream equipment by removing large objects and abrasive materials. Large objects are removed by bar screens which are racks of bars placed in a channel with a mechanical rake to remove the collected material from the channel.

Headworks Rehabilitation at Plant No. 1, Project No. P1-105, is a complete renovation of the existing headworks, including the bar screens.

RELEVANT STANDARDS

- Ensure the public's money is wisely spent
- Comply with Public Contract Code Section 3400
- Comply with OCSD Policy - Purchasing Ordinance No. OCSD-52, Section 1.07.A Sole Source Procurement

PROBLEM

The existing bar screen facility at Orange County Sanitation District's (Sanitation District) Plant No. 1 includes six bar screen channels. Four are currently equipped with bar screens; two with 5/8-inch clear spacing and two with 1-inch clear spacing. All four screens were manufactured by Infilco Degremont, Inc., which has since been acquired by SUEZ Water Technologies & Solutions (Suez).

The two existing 5/8-inch screens are in poor condition and need complete refurbishment. The 1-inch bar screens are used only under high flow conditions because the larger material they allow to pass causes plugging in downstream equipment. This project will refurbish the two 5/8-inch screens, replace the two 1-inch screens with 5/8-inch screens, and install two additional 5/8-inch screens in the remaining channels. The additional screens are needed because the 5/8-inch screens have a lower hydraulic capacity than the 1-inch screens.

Refurbishing the four existing bar screens is estimated to save approximately \$2 million instead of replacing them. Replacing the bar screens would also require channel modifications that would likely reduce the hydraulic capacity of the channels. To ensure efficient and reliable operation, all six bar screens should be of the same design and manufacture. Only Suez can supply the parts and material to refurbish the four existing bar screens. Therefore, only Suez can supply bar screens that match the four existing bar screens.

PROPOSED SOLUTION

Adopt a resolution supporting sole sourcing of the refurbishment of the four existing bar screens and furnishing two new screens.

Suez has committed to a price of approximately \$3.8 million for the scope of this work. The design consultant has confirmed that this price is fair and reasonable based on a review of prices for similar installations.

TIMING CONCERNS

Without this sole source approval, staff cannot advertise this project for bids. That would delay the start of construction and potentially result in construction cost escalation.

RAMIFICATIONS OF NOT TAKING ACTION

Not approving Suez as a sole source manufacturer would require more destructive replacement and retrofitting to accommodate competing bar screen manufacturers. Design and construction costs would also increase.

PRIOR COMMITTEE/BOARD ACTIONS

N/A

ADDITIONAL INFORMATION

The Sanitation District and the Design Consultant completed a condition assessment and performed evaluation studies to investigate the screening mechanism, replacement of existing bar screens, and installing new bar screens.

The Sanitation District determined that the four rehabilitated bar screens and two new bar screens should be of the same technology and manufacturer so that all six bar screens share materials of construction, design, and spare parts. This approach is the most cost-effective solution.

CEQA

To comply with CEQA, as the lead agency, the Sanitation District Board of Directors adopted Resolution No. OCSD 19-07 on July 24, 2019 certifying a Mitigation Negative Declaration that was prepared for this project.

FINANCIAL CONSIDERATIONS

This request complies with authority levels of the Sanitation District's Purchasing Ordinance. This item has been budgeted (Adopted Budget Fiscal Years 2020-2021 and 2021-2022, Section 8, Page 54) and the budget is sufficient for the recommended action.

ATTACHMENT

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

- Resolution No. OCSD 20-05
- 7/1/2020 Operations Committee PowerPoint Presentation

GR:dm:gc