Orange County Sanitation District

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Agenda Report Details (With Text)

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File created:	3/2/2020			**In control:**	BOARD OF DIRECTORS
On agenda:	4/22/2020			**Final action:**	4/22/2020
Title:	PLANT NO. 1 PEPS PUMP NO. 2 REPAIR				
Sponsors:	Rob Thompson				
Indexes:					
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Attachments:	1. Agenda Report				

Date	Ver.	Action By	Action	Result
4/22/2020	1	BOARD OF DIRECTORS		

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

SUBJECT:

PLANT NO. 1 PEPS PUMP NO. 2 REPAIR

GENERAL MANAGER'S RECOMMENDATION

RECOMMENDATION:

A. Approve a Sole Source Purchase Order for Cortech Engineering to rebuild Primary Effluent Pump Station Pump No. 2 at Plant No. 1 for a total amount not to exceed $150,888, plus applicable tax and shipping; and

B. Approve a contingency of $15,089 (10%).

BACKGROUND

The Orange County Sanitation District (Sanitation District) Plant No. 1 Primary Effluent Pump Station (PEPS) lifts primary effluent from the East Side Primary Sedimentation Basins to the activated sludge facility, AS-1, at Plant No. 1. Additional flows that enter the PEPS wet well are from Central Generation cooling water, plant water strainers, and Dissolved Air Flotation Thickener systems. The PEPS wet well contains three vertical pumps and one submersible pump. Each of the vertical pumps have a nominal pumping capacity of approximately 45 MGD. The PEPS pumps were originally installed over 40 years ago by Project P1-16.

RELEVANT STANDARDS

- 24/7/365 treatment plant reliability

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- Maintain a proactive asset management program
- Comply with environmental permit requirements

PROBLEM

PEPS No. 2 pump operates at a significantly reduced capacity due to long-term wear and requires a rebuild. This reduced pumping capacity limits the use of East Side Primary Sedimentation Basins.

PROPOSED SOLUTION

Rebuild PEPS Pump No. 2 through Cortech Engineering (Cortech) who is the sole authorized service repair company for Patterson pumps. Cortech will deliver, install, and assist in pump commissioning and start-up.

TIMING CONCERNS

The proposed repair needs to be completed prior to the next wet weather season to provide sufficient primary treatment redundancy and reliability at Plant No. 1.

RAMIFICATIONS OF NOT TAKING ACTION

If PEPS Pump No. 2 cannot operate per design, primary effluent treatment will potentially be impacted at Plant No. 1 during wet weather events.

PRIOR COMMITTEE/BOARD ACTIONS

N/A

ADDITIONAL INFORMATION

A contingency of 10% is requested for unforeseen conditions during removal, disassembly, rebuild, installation, or performance testing.

CEQA

The repair of the PEPS pump 2 is categorically exempt from CEQA under the Class 1 categorical exemptions set forth in California Code of Regulations Section 15301. Section 15301 (Class 1) exempts from CEQA “the operation, repair, maintenance, permitting, leasing, licensing, or minor alteration of existing public or private structures, facilities, mechanical equipment, or topographical features, involving negligible or no expansion of existing or former use,” including “(b) Existing facilities of both investor and publicly-owned utilities used to provide electric power, natural gas, sewerage, or other public utility services”.

FINANCIAL CONSIDERATIONS

This request complies with authority levels of the Sanitation District’s Purchasing Ordinance. This

recommendation would be funded under the Repairs and Maintenance line item for Operations and Maintenance Department (Budget Update Fiscal Year 2019-20, Page 47). The available funding is sufficient for this action.

Date of Approval	Contract Amount	Contingency
04/22/2020	$150,887.75	$15,089 (10%)

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:jg:st:ab

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