



Agenda Report Details (With Text)

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Title: BAY BRIDGE PUMP STATION FORCE MAIN ISOLATION VALVE REPLACEMENT, PROJECT NO. FRC-0013

Sponsors: Kathy Millea

Indexes:

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Attachments: 1. Agenda Report

| Date | Ver. | Action By | Action | Result |
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| 12/15/2021 | 1 | BOARD OF DIRECTORS | | |

FROM: James D. Herberg, General Manager
Originator: Kathy Millea, Director of Engineering

SUBJECT:

BAY BRIDGE PUMP STATION FORCE MAIN ISOLATION VALVE REPLACEMENT, PROJECT NO. FRC-0013

GENERAL MANAGER'S RECOMMENDATION

RECOMMENDATION:

Ratify approval of a contingency increase of \$52,118 (18%) to the Emergency Repair Service Contract with Charles King Company for Bay Bridge Pump Station Force Main Isolation Valve Replacement, Project No. FRC-0013, for a total contingency of \$196,911 (68%).

BACKGROUND

The Orange County Sanitation District (OC San) owns and operates pump stations and a force main network along Pacific Coast Highway in Newport Beach. The Bay Bridge Pump Station, Rocky Point Pump Station, and the Lido Pump Station all pump into, and pressurize, this two-pipe force main system. Each pump station has an isolation valve to each force main pipe to allow separation of the internal pump station systems from the other pump stations. This is necessary to isolate suction and discharge headers and common flow elements to be maintained or repaired. These pump station force main isolation valves are also necessary to install temporary bypass pumping systems at the individual pump stations and to stop flow to either force main pipe if it were compromised in some way.

The Bay Bridge Pump Station was originally constructed in 1965 and is near the end of its useful life.

Bay Bridge Pump Station Replacement, Project No. 5-67, is in design and is scheduled to replace the pump station by 2027.

The pump isolation valves at the Bay Bridge Pump Station were in urgent need of replacement. Replacement could not wait until the new pump station is completed. In November 2020, the Board awarded a contract for Bay Bridge Pump Station Valve Replacement, Project No. FRC-0002, to replace the valves within the pump station. The work requires bypass pumping which depends on the two force main isolation valves.

In the course of setting up bypassing for the Bay Bridge Pump Station Valve Replacement, Project No. FRC-0002, these two force main isolation valves would not seal adequately, and therefore, the FRC-0002 contract work could not be performed. In August 2021, the Board ratified an emergency contract to replace the force main isolation valves before the wet season. The work was completed on October 22, 2021.

RELEVANT STANDARDS

- Achieve less than 2.1 sewer spills per 100 miles
- Comply with OC San Policy: Ordinance No. OC SAN-56, Article 5 - Public Works Projects, Section 5.03A - Exceptions, Emergencies and Calamities

PROBLEM

Due to the high risk, complexity, and urgency of the work, some of the costs to complete the work successfully and safely were not foreseen at the time the emergency contract work was negotiated.

Some critical risk mitigation measures, such as multiple pump station bypasses, were implemented to reduce the chance that a failure that could have caused a large sewage spill to the ecologically sensitive Newport Back Bay. To reduce the risk for future bypass work, a valve assembly was fabricated to connect bypass pumps to the force main network. An additional force main isolation valve was also purchased to be used as a spare since the installed valves cannot be maintained in place.

The work itself also turned out to be more complicated, which extended the work duration by approximately three weeks.

As a result, the total cost to complete the work was approximately \$486,496, \$52,118 more than the contract award plus the Board-approved contingency.

PROPOSED SOLUTION

Ratify an increase in contract contingency to fund the additional contract costs.

TIMING CONCERNS

N/A

RAMIFICATIONS OF NOT TAKING ACTION

OC San is obligated to reimburse the construction contractor for the additional costs incurred.

PRIOR COMMITTEE/BOARD ACTIONS

August 2021 - Ratified approval of an Emergency Repair Service Contract to Charles King Company for Bay Bridge Pump Station Force Main Isolation Valve Replacement, Project No. FRC-0013, for an amount not to exceed \$289,585; and approved a contingency of \$144,793.

ADDITIONAL INFORMATION

N/A

CEQA

The project is exempt from CEQA under the Class 1 categorical exemptions set forth in California Code of Regulations Sections 15301. A Notice of Exemption was filed with the OC Clerk-Recorder after OC San's Board of Directors approved the Emergency Repair Service Contract on August 25, 2021.

FINANCIAL CONSIDERATIONS

This request complies with the authority levels of OC San's Purchasing Ordinance. This recommendation will be funded under the Repairs and Maintenance line item for the Operations and Maintenance Department (Budget Update Fiscal Year 2021-2022, Page 45), and the available funding is sufficient for this action

| <u>Date of Approval</u> | <u>Contract Amount</u> | <u>Contingency</u> |
|-------------------------|------------------------|--------------------|
| 08/25/2021 | \$289,585 | \$144,793 |
| 12/15/2021 | | \$ 52,118 |

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

RD:dm