

OPERATIONS COMMITTEE

Agenda Report

File #: 2024-3694

Agenda Date: 9/4/2024

Agenda Item No: 4.

FROM: Robert Thompson, General Manager
Originator: Mike Dorman, Director of Engineering

SUBJECT:

CONTROL ROOM RECONFIGURATION AT PLANT NO. 1, CONTRACT NO. J-120A.1

GENERAL MANAGER'S RECOMMENDATION

RECOMMENDATION: Recommend to the Board of Directors to:

- A. Approve Task Order No. 2 under the Master Services Agreement with ABB, Inc. to provide services and furnish Operator Workstations for Control Room Reconfiguration at Plant No. 1, Contract No. J-120A.1, as part of Process Control Systems Upgrades, Project No. J-120, for a total amount not to exceed \$356,623; and
- B. Approve a contingency of \$35,662 (10%).

BACKGROUND

The Control Room Reconfiguration at Plant No. 1, Contract No. J-120A, will reconfigure the existing Plant No.1 Operations Control Room at the Orange County Sanitation District (OC San) to accommodate new workstations for the Distributed Control System to provide plant operations staff a user-friendly, ergonomic workstation configuration. This includes the replacement of the existing consoles, computers, and displays, as well as necessary infrastructure improvements to the existing control room to support the design and functionality of the new workstations. This integration is only feasible through the procurement and installation of the ABB Intelligent Operator Workplace (EOWx3).

RELEVANT STANDARDS

- Ensure that investment proposals and decisions are based on clearly defined standards
- Ensure the public's money is wisely spent
- Commitment to safety & reducing risk in all operations

PROBLEM

The existing control system furniture and configuration in the Plant No. 1 Control Room is outdated with a horse-shoe configuration and large displays on an adjacent wall. A new user-friendly, collaborative, and ergonomic workstation configuration with computers, monitors, and large displays is required to meet plant operation's needs.

PROPOSED SOLUTION

Approve Task Order No. 2 for Control Room Reconfiguration at Plant No. 1, Contract No. J-120A.1, in accordance with the current SP-196 Master Service Agreement for the Design, Installation, Implementation, and Maintenance of Process Control System (MSA Agreement), fully executed between OC San and ABB, Inc. on July 28, 2021. This Task Order will furnish and install the ABB EOWx3 as a comprehensive solution that includes consoles, computers, smart keyboards, monitors, and large displays.

TIMING CONCERNS

Delays in issuing the Task Order and placing the order for the ABB EOWx3 could impact the overall project schedule and delay the timing of having the new control room operational.

RAMIFICATIONS OF NOT TAKING ACTION

Plant operations staff will need to continue to use the existing furniture and outdated workstation configuration.

PRIOR COMMITTEE/BOARD ACTIONS

July 2021 - Approved Task Order No. 1 under the Master Services Agreement with ABB Inc. to provide services, software, and equipment for Process Control Systems Upgrades, Project No. J-120, for an amount not to exceed \$11,818,480; and approved a contingency of \$1,181,848 (10%).

July 2021 - Approved Master Services Agreement with ABB Inc. for the design, installation, implementation, and maintenance of a process control system; authorized staff to specify ABB Inc. as the sole source provider for equipment, materials, software, and services for control systems on current and future projects; ratified the addition of ABB Inc. to the list of pre-approved Original Equipment Manufacturers for procurements under \$100,000 for equipment, materials, software, and services for control systems; and authorized the General Manager to approve and execute the 3-way Escrow Intellectual Property Agreement (Exhibit "E" to the Master Services Agreement with ABB Inc.) with Escrow Agent NCC Group Software Resilience (NA) LLC, at a cost not to exceed \$100,000, in a form approved by General Counsel, for escrow setup and validation.

ADDITIONAL INFORMATION

The J-120A consultant evaluated ABB, Inc. and other workstation furniture vendors and determined that having ABB, Inc. provide their standard integrated configuration would provide the best overall solution instead of trying to integrate the ABB, Inc. system with another furniture vendor. It was confirmed that the solution provided by ABB, Inc. was competitively priced. OC San staff further negotiated the pricing with ABB, Inc. and secured a \$20,000 discount which is reflected in the agreement amount.

CEQA

The project is exempt from CEQA under the Class 1 categorical exemptions set forth in California Code of Regulations Section 15301. A Notice of Exemption has been filed with the OC Clerk-Recorder (July 2021).

FINANCIAL CONSIDERATIONS

This request complies with authority levels of OC San's Purchasing Ordinance. This item has been budgeted (Budget FY 2024-25 and 2025-26, Section 8, Page 38, Process Control System Upgrades, Project No. J-120) and the budget is sufficient for the recommended action.

ATTACHMENT

The following attachment(s) may be viewed on-line at the OC San website (www.ocsan.gov) with the complete agenda package:

- Task Order No. 2

GR:lb