
File #: 2025-4454

Agenda Date: 9/10/2025

Agenda Item No: 3.

FROM: Robert Thompson, General Manager
Originator: Wally Ritchie, Director of Finance

SUBJECT:

PLANT NO. 2 INDUSTRIAL CONTROL SYSTEM INDUSTRIAL ETHERNET SWITCH NETWORK REFRESH

GENERAL MANAGER'S RECOMMENDATION

RECOMMENDATION: Recommend to the Board of Directors to:

- A. Approve a Purchase Order Contract to World Wide Technology, LLC for the purchase of Network Infrastructure Hardware for the Plant No. 2 Industrial Control System Industrial Ethernet Switch Network Refresh utilizing the OMNIA Cooperative Purchasing Agreement, Contract No. R210407, for a total amount not to exceed \$224,939 (Includes Sales Tax); and
- B. Approve a contingency in the amount of \$22,494 (10%).

BACKGROUND

The current Orange County Sanitation District (OC San) Plant No. 2 industrial switch network has been in use for over 10 years. There are 26 switches in operation that need to be replaced as they have reached the end of their life and are no longer supported by the vendor.

RELEVANT STANDARDS

- Protect OC San assets
- Ensure the public's money is wisely spent
- 24/7/365 treatment plant reliability
- Maintain a culture of improving efficiency to reduce the cost to provide the current service level or standard

PROBLEM

The existing equipment poses a high risk of failure and cybersecurity vulnerabilities due to outdated software. Upgrading the network will ensure reliability and security for Plant No. 2 operations.

PROPOSED SOLUTION

The Cisco Catalyst Industrial Ethernet 3300 series offers reliable and secure connectivity, delivering high performance, low latency, and enhanced security features. The network equipment provided by World Wide Technology, LLC meets all of OC San's Industrial Control System network performance and resiliency requirements.

TIMING CONCERNS

It is crucial to replace the Plant No. 2 industrial switch network infrastructure equipment to prevent potential end-of-life failures. Such failures could severely impact the Plant No. 2 Supervisory Control and Data Acquisition (SCADA) systems, compromising their functionality and reliability.

RAMIFICATIONS OF NOT TAKING ACTION

OC San's IT infrastructure team has faced increasing equipment failures recently due to outdated hardware. A failure within the core switches could lead to a total network outage, disrupting business continuity and operations.

PRIOR COMMITTEE/BOARD ACTIONS

N/A

ADDITIONAL INFORMATION

Based on network hardware review, staff recommends approving the Purchase Order Contract to World Wide Technology, LLC utilizing the OMNIA Cooperative Purchasing Agreement, Contract No. R210407. The term of this Purchase Order Contract will begin upon effective date of Notice to Proceed.

CEQA

N/A

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 Line item: Section 8, Page 10) and the budget is sufficient for this action.

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