



**COMMISSION FILE NO:** 24-127-10 **DATE INTRODUCED:** October 14, 2024

**INTRODUCED BY:** Executive Director (Signature on File in the Office of the Commission)

**REFERRED BY COMMISSION CHAIRPERSON TO:** Operations Committee

**RELATING TO:** Contract TS-2723, Rockwell Hardware Purchase Agreement

**SUMMARY:**

The Commission is requested to authorize the Executive Director to execute on behalf of the District Contract TS-2723, Rockwell Hardware Purchase Agreement, with Revere Electric Supply Company (Revere) in an amount not to exceed \$7,500,000. This is a sole source procurement.

At the Jones Island Water Reclamation Facility (WRF) and the South Shore WRF, Supervisory Control and Data Acquisition (SCADA) systems monitor and control equipment and processes in real time. Programmable Logic Controllers (PLC's) are essential components of this system, directly controlling the machinery based on sensor inputs and programmed logic. This control hardware is critical to the operation of the WRF's. The WRF SCADA systems have approximately 250 PLC's.

In the early 2000's, through a competitive selection process, the District selected Rockwell Automation's Allen Bradley PLC's as its standard hardware platform at the WRF's. The District completed a major upgrade in 2007, with most of the existing PLC's installed by that time. The District is finalizing an Instrumentation and Control Master Plan (Master Plan), which staff will present to the Commission for approval in the near future. This draft Master Plan includes evaluations and long-term recommendations for the SCADA system. The recommendations include replacing PLC's and continuing to use Allen Bradley PLC's as the standard hardware platform at the WRF's. The primary reason for this recommendation is that changing to a different manufacturer's PLC hardware platform would cost roughly three times as much as continuing to utilize the Allen Bradley PLC's. Other manufacturers platforms do not provide any significant gains in control system function or reliability.

**ATTACHMENTS:** **BACKGROUND**  **KEY ISSUES**  **RESOLUTION**   
**FISCAL NOTE**  **S/W/MBE**  **OTHER**  \_\_\_\_\_

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**COMMITTEE ACTION:** \_\_\_\_\_ **DATE:** \_\_\_\_\_

**COMMISSION ACTION:** \_\_\_\_\_ **DATE:** \_\_\_\_\_

## **SUMMARY (Cont'd)**

### **Contract TS-2723, Rockwell Hardware Purchase Agreement**

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Most of the existing PLC's are between 15 and 19 years old and are reaching the end of their useful service lives. As existing PLC's fail, it is critical that they be repaired or replaced quickly to keep the existing control system operating. The District also has several capital projects in its 10-year capital plan that include replacing or upgrading PLC's.

The District currently has a purchase agreement for Rockwell hardware, including PLC's, with Revere (Rockwell's authorized distributor). This agreement has a five-year term and expires in November 2024. It identifies discounts off Rockwell's list price with those discounts ranging from 20% to 50%.

Given the ongoing need to repair or replace existing PLC's, planned projects that will need to install new PLC's, and the Master Plan's recommendation to continue to utilize Allen Bradley PLC's, staff recommends entering into a new Rockwell Hardware Purchase Agreement with Revere. Revere is the only authorized distributor of Rockwell hardware for the District's region and is considered a sole source supplier.

Consistent with the existing purchase agreement, this new agreement identifies discounts off Rockwell's standard price list with discounts ranging from 20% to 50%. The agreement also does not require a minimum purchase but identifies a maximum total purchase of \$7,500,000. Staff developed this amount based on estimates for known future projects, replacement and spare parts, and a contingency for projects with unknown hardware needs. This agreement has a three-year term.

## RESOLUTION

Contract TS-2723, Rockwell Hardware Purchase Agreement

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**RESOLVED**, by the Milwaukee Metropolitan Sewerage Commission, that the Executive Director is authorized to execute Contract TS-2723, Rockwell Hardware Purchase Agreement, with Revere Electric Supply Company in an amount not to exceed \$7,500,000.