

# City of Santa Rosa



## Legislation Details

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**File #:** 20-325BPU    **Version:** 1    **Name:** Sole Source Controller and Radio Upgrades  
**Type:** BPU- Report    **Status:** Agenda Ready  
**File created:** 11/17/2020    **In control:** Board of Public Utilities  
**On agenda:** 12/3/2020    **Final action:**  
**Title:** REPORT - SOLE SOURCE CONTRACT SPECIFICATION FOR TESCO PROGRAMMABLE LOGIC CONTROLLERS AND SCHNEIDER ELECTRIC RADIO TELEMETRY SYSTEM FOR CONTROLLER AND RADIO UPGRADES AT WATER PUMP STATIONS AND SEWER LIFT STATIONS, CONTRACT NO. C02052

**BACKGROUND:** The City of Santa Rosa (City) Water and Wastewater (Local) Operation Division supervisory control and data acquisition (SCADA) and radio telemetry system provides means for remote monitoring, collection and storage of operational data, and control of its water pump stations and sewer lift stations. In August of 2019, a predesign report by Kennedy Jenks identified both the existing SCADA and existing radio telemetry system as being vulnerable to obsolescence. The system is comprised of existing solid-state equipment manufactured in the 1980's and 1990's, and integrated hardware and software from different manufacturers. Non-uniform hardware and software has resulted in an increased frequency of communications errors between various facilities.

Local Operations has standardized its SCADA system with Tesco Controls, Inc. (Tesco) programmable logic controller (PLC) equipment and technology to provide remote management of various processes involved with water and wastewater operations. To support the system, the Water Department is staffed with factory trained instrumentation technicians that control, maintain, monitor and respond to system failure. Local Operations is also proposing to standardize its radio telemetry system with Schneider Electric equipment and technology in an effort to match the Water Reuse Division. The existing telemetry system is subject to obsolete equipment and discontinued manufacturer technical support. Upgraded radios will minimize operational impacts, provide higher data rates, reduce interference, and provide more efficient use of the overly dense existing wireless spectrum. It is for these reasons that Local Operations requires Tesco series PLC equipment and Schneider Electric radio telemetry equipment for the Controller and Radio Upgrades at Water Pump Stations and Sewer Lift Stations (Project). Approving such a proprietary specification will maintain reliability and uniform compatibility with existing equipment and minimize operational impacts to the division.

**RECOMMENDATION:** It is recommended by the Transportation and Public Works Department and the Water Department that the Board of Public Utilities, by resolution, approve the sole source contract specifications for Tesco Controls, Inc. programmable logic controllers and Schneider Electric radio telemetry system for the Controller and Radio Upgrades at Water Pump Stations and Sewer Lift Stations, Contract No. C02052.

**Sponsors:** Board of Public Utilities  
**Indexes:** Exempt Project  
**Code sections:** 15301 - Existing Facilities, 15303 - New Construction or Conversion of Small Structures  
**Attachments:** 1. Staff Report, 2. Attachment 1\_Site Map, 3. Resolution No. 01244, 4. Presentation

Date	Ver.	Action By	Action	Result
12/3/2020	1	Board of Public Utilities	approve as amended	Pass