

CITY OF SANTA ROSA
BOARD OF PUBLIC UTILITIES

TO: CHAIR AND BOARD MEMBERS
FROM: TRACY DUENAS, SUPERVISING ENGINEER
TRANSPORTATION AND PUBLIC WORKS DEPARTMENT
SUBJECT: APPROVAL OF SOLE SOURCE CONTRACT SPECIFICATIONS
FOR VARIOUS ELECTRICAL EQUIPMENT AND SERVICES FOR
THE WATER PUMP STATION 9 ELECTRICAL UPGRADES
PROJECT, CONTRACT NO. C02438

AGENDA ACTION: RESOLUTION

RECOMMENDATION

It is recommended by the Transportation and Public Works Department and Santa Rosa Water that the Board of Public Utilities, by resolution, approve the sole source contract specifications for various electrical equipment and services for the Water Pump Station 9 Electrical Upgrades Project, Contract No. C02438.

EXECUTIVE SUMMARY

This resolution will approve the sole source contract specifications for the ASCO Power Technologies 7000 Series Automatic Transfer Switch, ABB ACQ Series Active Front End/Ultra-Low Harmonic Variable Frequency Drives, Electro Industries Shark250 Power Monitor, Rosemount 8750W Magnetic Flowmeter and Transmitters, Scala Yagi Antenna, and Tesco Controls programming services for the Water Pump Station 9 Electrical Upgrades Project, Contract No. C02438.

BACKGROUND

Water Pump Station 9 is a critical facility serving customers within the R9, R9R1, and R10 pressure zones of the City's water system, maintained and operated by the City of Santa Rosa (City) Water and Wastewater (Local) Operations Division. Within the station, three 300 horsepower (HP) vertical turbine pumps provide means to fill water reservoirs R9A and R9B, and two 75 HP vertical turbine pumps feed directly into pressure zone R9R1. One of the 300 HP pumps and both 75 HP vertical turbine pumps are connected to variable frequency drives (VFDs). The pump station building has separate rooms to house pumps and motors, electrical equipment, and a 1,000kW on-site backup generator.

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The station has no safe or reliable method to connect and operate an external portable generator for redundant backup power. As a critical facility, operation in times of emergencies such as natural disasters or power outages is necessary. A redundant operating pump station with the ability to be powered by backup power facilities will enhance reliable water supply for emergency firefighting responders and residents without interruption.

This project will replace aging equipment that is nearing the end of its usability as well as incorporate new equipment to increase the safety and reliability of the facility. Improvements will include enhancing the current power supply of the station with the installation of a new mechanically interlocked portable generator breaker, an 800 AMP portable generator connection, and a main power PG&E disconnect. These improvements will provide the means to operate two pumps with one large portable generator, as well as provide the means to facilitate maintenance of the facility. The project will also include replacing the variable frequency drives for one of the 300 HP pumps and the variable frequency drives for both 75 HP pumps, and the 8" and 18" magnetic flowmeters and transmitters. Upgrades to the station building, HVAC system, overall electrical system, antenna, and ancillary utility piping will also be required as part of the project.

The construction contract is anticipated to be presented to the Board for approval in the Fall of 2024. There will be a long equipment procurement period that will result in an anticipated construction start date of Fall 2026. The estimated construction cost is \$2.1 Million.

The project contract specifications propose to explicitly sole source the following:

- One (1) ASCO Power Technologies, 7000 Series Automatic Transfer Switch, 2,000 Amp
- Two (2) ABB ACQ Series Active Front End / Ultra-Low Harmonic Variable Frequency Drives, 75 Hp
- One (1) ABB ACQ Series Active Front End / Ultra-Low Harmonic Variable Frequency Drive, 300 Hp
- One (1) Electro Industries, Shark250 Power Monitor
- One (1) Rosemount 8750W Magnetic Flowmeter and Transmitter, 18"
- One (1) Rosemount 8750W Magnetic Flowmeter and Transmitter, 8"
- One (1) Scala Yagi Antenna Model YA7-155
- Tesco Controls services for Programmable Logic Controller programming

PRIOR BOARD OF PUBLIC UTILITIES REVIEW

N/A

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ANALYSIS

The authority to approve the proposed sole source items lies with the Board of Public Utilities. Section 3400 of the California Public Contract Code requires that when a specific brand or trade name product is called for in connection with the construction or repair of a public works project, the contract specification must be followed by the words "*or equal*" so that bidders may furnish any equal product or service. However, Section 3400 allows the awarding authority to make a finding that allows a specific brand or trade name for a particular product or service to match other products in use on a particular public improvement either completed or in the course of completion.

Local Operations uses the proposed equipment and programming services at various facilities throughout the City. This equipment has been selected due to its dependability, staff familiarity, ease of locating spare parts, consistency of standard operating procedures, minimization of service downtime, and compatibility with other equipment. In addition, use of the proposed equipment will minimize operational impacts and facilitate the ease of replacing parts in the event of an urgent repair. Approving a proprietary specification will maintain reliability and uniform compatibility at Water Pump Station 9.

FISCAL IMPACT

Funds for this project were previously appropriated in the Water Department Capital Improvement Program budget.

ENVIRONMENTAL IMPACT

This project is categorically exempt from California Environmental Quality Act (CEQA), pursuant to CEQA Guidelines Sections 15301 Existing Facilities, which applies to projects that consist of the operation, repair, maintenance, permitting, leasing, licensing, or minor alteration of the existing public or private structures, facilities, mechanical equipment, or topographical features, involving negligible or no expansion of existing or former use. Section 15301(d) applies to projects in which restoration or rehabilitation of deteriorated or damaged structures, facilities, or mechanical equipment to meet current standards of public health and safety, unless it is determined that the damage was substantial and resulted from an environmental hazard such as an earthquake, landslide, or flood. Specifically, the project consists of minor alterations of existing facilities to improve public health and safety by allowing the station to be de-energized safely and independent of PG&E and allowing the station to be connected to a portable generator for emergency power. These project improvements are a negligible expansion of existing or former use to improve public health and safety. Additionally, the project qualifies for Section 15303, which consists of the construction and location of small new equipment and facilities in small structures.

BOARD/COMMISSION/COMMITTEE REVIEW AND RECOMMENDATIONS

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N/A

NOTIFICATION

N/A

ATTACHMENTS

- Resolution

PRESENTER

Tracy Duenas, Supervising Engineer, Transportation and Public Works