

CITY OF SANTA ROSA  
BOARD OF PUBLIC UTILITIES

TO: BOARD OF PUBLIC UTILITIES  
FROM: MARK KASRAIE, SUPERVISING ENGINEER  
TRANSPORTATION AND PUBLIC WORKS  
SUBJECT: SOLE SOURCE CONTRACT SPECIFICATION FOR ELECTRICAL  
AND MECHANICAL EQUIPMENT FOR LAGUNA TREATMENT  
PLANT DISINFECTION IMPROVEMENTS PROJECT

AGENDA ACTION: RESOLUTION

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RECOMMENDATION

It is recommended by the Transportation and Public Works Department and Santa Rosa Water that the Board of Public Utilities, by resolution, approve a sole source specification for electrical and mechanical equipment for construction contract C00284 - Laguna Treatment Plant Disinfection Improvements Project.

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EXECUTIVE SUMMARY

This resolution will approve a sole source specification of various electrical and mechanical equipment for construction contract C00284 – Laguna Treatment Plant Disinfection Improvements Project.

BACKGROUND

Ultraviolet Light (UV) is the primary disinfection process for the Laguna Treatment Plant (LTP). In 2012, the Division of Drinking Water (DDW) re-evaluated and subsequently re-rated the disinfection system capacity, resulting in deficiency under certain wet weather flow and/or low UV transmittance conditions. Additionally, the existing UV equipment was commissioned in 1998 and is at the end of its useful life. These conditions triggered the need to evaluate disinfection equipment options to ensure that LTP has adequate disinfection capacity up to 67 million gallons per day. Through various analyses, the City determined that replacing the existing UV system with a new UV system is the most feasible approach to address the capacity and reliability deficiencies.

The Laguna Treatment Plant Disinfection Improvements Project will consist of replacement of the UV disinfection system, which includes concrete channels, electrical power distribution facilities and load center, UV modules, and a canopy structure. This project also includes an effluent diversion system, which includes a concrete tank, pump

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station, and pipeline that diverts effluent to the headworks of the LTP for retreatment when necessary. Other improvements include a new sodium hypochlorite system, stormwater pipelines and pump station, and a permanent office trailer.

To match the existing equipment currently in use at the LTP, or to obtain required equipment that is only available by one source, it is necessary to specify proprietary equipment. Approving such a sole source specification will maintain reliability and uniform compatibility with existing equipment and minimize operational impacts.

If approved by the Board of Public Utilities, the contract specifications will be written to sole source the following equipment:

- A. Seepex MD Metering Pump
- B. Hach AS950 Effluent Water Quality Sampler
- C. PolyProcessing Chemical Storage Tank
- D. REXA Electro-Hydraulic Actuator
- E. Rotork Electric Actuator
- F. Spears True Union Plastic-Body Ball Valve
- G. DeZURIK Plug Valve
- H. Henry Pratt Butterfly Valve
- I. Asahi-American Chem Prolock Double Containment Piping
- J. Eaton SPX Variable Frequency Drive
- K. Siemens S7 Programmable Logic Controller
- L. Siemens SIMATIC Local Operator Interface
- M. Siemens SCALANCE Network Equipment
- N. Allen-Bradley 836 Pressure Switch
- O. APC Smart Uninterruptable Power Supply
- P. Sensorex Ultraviolet Transmittance Sensor

PRIOR BOARD OF PUBLIC UTILITIES REVIEW

Not applicable.

ANALYSIS

The project is approaching bid advertisement, however 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 at a lower cost to the taxpayer.

However, Section 3400 includes exceptions that allow the award authority to make a finding that is described in the invitation for bids that a particular material, product, thing, or service is designated by specific brand or trade name for the following reasons: 1) In

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order to match other products in use on a particular public improvement either completed or in the course of completion, 2) In order to obtain a necessary item that is only available from one source, and 3) for other reasons not applicable to this Board action.

Additionally, Santa Rosa City Code Section 3-44.080 Sole Source Procurement allows for sole source procurement if the scope and nature of the contract are such that no more than one contractor is available to meet the specifications, quality considerations, or other valid considerations.

LTP has been systematically replacing obsolete equipment with the equipment listed herein due to reasons of safety, compatibility with other equipment, dependability, staff familiarity and training, ease of locating and storing spare parts, consistency of standard operating procedures, and minimizing service downtime. The continued utilization of this equipment will maintain reliability and uniform compatibility at the LTP. In addition, it will minimize operational impacts and facilitate the ease of replacing parts in the event of an urgent repair.

The total construction cost for the Laguna Treatment Plant Disinfection Improvements Project is currently estimated at \$50M. Of the total construction cost, only \$1.7M (or approximately 3.4%) is attributed to the equipment proposed for sole source.

#### FISCAL IMPACT

Approval of this sole source specification has no additional impact on the budget. Funds for this project were appropriated in the fiscal year 2020-2021, Capital Improvement Program budget.

#### ENVIRONMENTAL IMPACT

This action is exempt from the California Environmental Quality Act (CEQA) because it is not a project which has a potential in resulting in either direct physical change in the environment, or a reasonably foreseeable indirect physical change in the environment, pursuant to CEQA Guideline Section 15378.

#### BOARD/COMMISSION/COMMITTEE REVIEW AND RECOMMENDATIONS

Not applicable.

#### ATTACHMENTS

- Resolution

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