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CITY OF SANTA BARBARA

COUNCIL AGENDA REPORT

AGENDA DATE: July 23, 2019

TO: Mayor and Councilmembers

FROM: Water Resources Division, Public Works Department

SUBJECT: Sole Source Contract For SCADA Computer System Maintenance

RECOMMENDATION: That Council:

- A. Authorize the sole source purchase of services as authorized by Santa Barbara Municipal Code 4.52.070(K); and
- B. Authorize the Public Works Director to execute a professional services contract with Pacific Rim Automation, Inc., in the amount of \$426,000 to provide SCADA computer system maintenance services; and authorize the Public Works Director to approve up to \$40,000 in extra services for Pacific Rim Automation, Inc., to provide additional unanticipated SCADA computer system maintenance.

DISCUSSION:

The City owns and operates the Cater Water Treatment Plant (Cater), which is a regional surface water treatment plant that treats drinking water for the City of Santa Barbara, as well as the Montecito and Carpinteria Valley Water Districts. The City also owns and operates the Ortega Groundwater Treatment Plant (Ortega), which treats groundwater to drinking water standards for the City's downtown area. The City's water distribution system is comprised of approximately 307 miles of water mains, 13 reservoirs and pump stations, and 17 pressure zones. Cater and the water distribution system are T5 and D5 systems respectively, which are state designations for treatment and distribution systems having the greatest levels of complexity.

The City's two treatment plants and distribution system are controlled using Supervisory Control and Data Acquisition (SCADA) control, which is a sophisticated computer system that uses software to enable staff to remotely control the water treatment plants and distribution system, including devices such as sensors, valves, pumps, and motors. SCADA also provides for the recording, gathering, and processing of real-time data for state reporting requirements and for equipment and process monitoring to minimize system disruptions. SCADA is essential for maintaining system efficiencies. Because of the remote capabilities, SCADA systems are kept separate from City's internet and are highly secured with limited access via a VPN two-factor authentication process.

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Pacific Rim Automation, Inc. (PRA), has designed and installed the majority of the City's water treatment and water distribution SCADA systems. PRA has the best understanding of the programmable logic that runs these systems, as well as the configuration and architecture of the software, hardware, and related electronic components. Such intimate and extensive knowledge and experience with the City's SCADA systems make PRA best suited to provide the needed SCADA system maintenance support services.

Staff has negotiated an acceptable proposal with PRA to provide the needed SCADA system maintenance support services. Staff recommends that Council authorize the sole source purchase of services as authorized by Santa Barbara Municipal Code Section 4.52.070(K); authorize the Public Works Director to execute a professional services contract with PRA in the amount of \$426,000 to provide SCADA computer system maintenance services for the City's water treatment plants and water distribution facilities; and authorize the Public Works Director to approve additional expenditures of up to \$40,000 for extra services of PRA for additional unanticipated SCADA computer system maintenance.

BUDGET/FINANCIAL INFORMATION:

Below is an estimate of costs associated with needed SCADA maintenance and software support for the City's water treatment and distribution facilities for Fiscal Year 2020.

Facility	Amount
Cater Water Treatment Plant	\$ 192,000
Ortega Groundwater Treatment Plant	\$ 114,000
Water Distribution Reservoir and Pump Stations	\$ 120,000
Extra Services for Unanticipated SCADA Maintenance	\$ 40,000
TOTAL RECOMMENDED AUTHORIZATION	\$ 466,000

There are sufficient funds in the Water Fund for these expenditures.

SUSTAINABILITY IMPACT:

SCADA enables the City's water treatment plants and distribution system to be operated remotely for the reliable delivery of safe drinking water to the Santa Barbara community.

A copy of the contract/agreement is available for public review in the City Clerk's Office.

ENVIRONMENTAL REVIEW:

This contract for SCADA computer system maintenance services is not subject to the California Environmental Quality Act.

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PREPARED BY: Catherine Taylor, PE, Water System Manager/CT/kts

SUBMITTED BY: Rebecca J. Bjork, Public Works Director

APPROVED BY: City Administrator's Office