



CITY OF SANTA BARBARA

COUNCIL AGENDA REPORT

AGENDA DATE: June 21, 2016

TO: Mayor and Councilmembers

FROM: Water Resources Division, Public Works Department

SUBJECT: Approval Of Three-Year Pre-Qualified Supervisory Control And Data Acquisition Vendors

RECOMMENDATION: That Council:

- A. Approve a pre-qualified vendor list to provide support for Water Resources' Supervisory Control And Data Acquisition systems for a three-year period; and
- B. Authorize the General Services Manager to issue purchase orders to vendors on the approved list, in accordance with approved budgets, through June 21, 2019.

DISCUSSION:

Supervisory Control And Data Acquisition (SCADA) is a sophisticated computer system that has become a water and wastewater industry standard for collecting and monitoring system data in real time. SCADA systems consist of specialized computer hardware and software equipment that is operated through Programmable Logic Control via computer networks. These integrated SCADA systems have elements of computer programming, fiber optic networks, and database design and management. The unique structure of individual SCADA systems lends each system to being supported by highly qualified SCADA vendors.

Water Resources staff depend on SCADA systems to monitor and control system equipment and processes at the Cater Water Treatment Plant, El Estero Wastewater Treatment Plant, and facilities located throughout the water distribution and wastewater collection systems. SCADA collects and records data needed for regulatory permit compliance, and allows staff to remotely monitor system equipment and operations. In the event of an equipment failure or system operations outside of desired ranges, SCADA has the ability to notify staff via remotely sent alarms, thus eliminating the need for continuous staffing at Water Resources' facilities, and improving emergency response time to equipment failures throughout the water distribution and wastewater collection systems.

Water Resources routinely contracts with professional SCADA vendors for maintenance, upgrades, and emergency support. Water Resources has many upcoming projects that

will require the services of a SCADA vendor to design, install, and integrate new SCADA programs into existing systems. Water Resources staff has historically created a list of pre-qualified SCADA vendors from which they solicited proposals for specific SCADA projects, and issued purchase orders for SCADA support. The current list expires in July 2016.

In an effort to create a new pre-qualified SCADA vendor list, staff conducted a Request for Qualifications process. As a result, the following vendors have been determined to be qualified to provide SCADA planning, design, integration, installation, and support services.

1. Aspect Engineering Group (Bakersfield, CA)
2. HiTech Concepts, Inc. (Calabasas, CA)
3. Pacific Rim Automation, Inc. (Huntington Beach, CA)
4. ProUsys (Bakersfield, CA)
5. Systems Integrated (San Diego, CA)
6. Wunderlich-Malec Systems (Calabasas, CA)

Pacific Rim Automation, Inc., Hi-Tech Concepts, Inc., and Systems Integrated are SCADA vendors who have been instrumental in developing the City's water and wastewater SCADA systems and have proven to be capable vendors. Wunderlich-Malec Systems continues their availability as a pre-qualified vendor, but has yet to be used in the described capacity. Aspect Engineering Group and ProUsys are new to Water Resources' SCADA systems. Each vendor has a solid SCADA team with vast experience and good references. Staff believes this group of SCADA vendors would provide diverse approaches and competitive bidding on Water Resources' SCADA projects for the next three years.

BUDGET/FINANCIAL INFORMATION:

Expenditures for SCADA continue to be planned for projects and have been budgeted in the Water and Wastewater Funds. Costs for SCADA integration particular to an individual capital project are included with the specific project's costs.

SUSTAINABILITY IMPACT:

SCADA systems allow for remote monitoring and operation of critical equipment, which provides for the efficient operation of water and wastewater facilities, and improved response times to equipment failures. This prevents sewer overflows and fewer truck trips for routine facility inspections. SCADA systems have also eliminated the need for around-the-clock staffing at the treatment plants, resulting in reduced labor costs.

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SUBMITTED BY: Rebecca J. Bjork, Public Works Director

APPROVED BY: City Administrator's Office