



CITY OF SANTA BARBARA

COUNCIL AGENDA REPORT

AGENDA DATE: July 16, 2013

TO: Mayor and Councilmembers

FROM: Water Resources Division, Public Works Department

SUBJECT: Extension Of Pre-Qualified Providers List For Supervisory Control And Data Acquisition Services At Water And Wastewater Facilities

RECOMMENDATION:

That Council review and extend the pre-qualified providers list for Supervisory Control and Data Acquisition Services at Water and Wastewater Facilities.

DISCUSSION:

The Supervisory Control And Data Acquisition (SCADA) system 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 requires the work of highly qualified, specialized contractors.

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 at facilities located throughout the water distribution and wastewater collection systems. SCADA provides data recordation required 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 pre-set ranges, SCADA will notify staff via remotely sent alarms, thus eliminating the need to staff the treatment plants during a graveyard shift, and improving emergency response time during equipment failures at facilities located throughout the water distribution and wastewater collection systems.

The Water Resources Division routinely contracts with professional SCADA service providers for maintenance projects and emergency support, such as an equipment failure. Water Resources also has many upcoming Capital Improvement Projects that include new

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SCADA systems, which will require the services of a SCADA contractor to design, install, and integrate new SCADA programs into existing systems.

In 2010, the Water Resources Division conducted a Request for Proposals/Qualifications process and, with the assistance of a Water Commissioner, the following seven firms were determined to be qualified to provide SCADA design, integration, and installation and support services:

1. AIA Automation, Inc. (Irvine, CA)
2. Pacific Rim Automation, Inc. (Huntington Beach, CA)
3. HiTech Concepts, Inc. (Anaheim, CA)
4. Wunderlich-Malec Systems (Pleasanton, CA)
5. DLT&V Systems Engineering (Irvine, CA)
6. Minot Enterprises, Inc. (Santa Barbara, CA)
7. Systems Integrated (San Diego, CA)

On April 13, 2010, Council approved the recommended SCADA services provider list for three years and authorized the General Services Manager to issue purchase order contracts to firms on the approved list, in accordance with approved budgets.

Staff proposes to extend the existing SCADA services provider list for an additional three years because: a) the consultants currently listed have generally demonstrated the ability to provide high quality SCADA services on time, within budget, and with minimal direction, supervision, and assistance; b) most of the listed SCADA firms will remain on the SCADA services provider list when the list is renewed; c) all the firms on the list are viable and are interested in remaining on the list; and, d) the time and effort spent in administering a new selection process is anticipated to yield a list similar to the current one. Additionally, SCADA firms that continually work for the City become more efficient in meeting City contractual and insurance requirements, and time is saved by both the City and the consultant in processing purchase orders or contracts.

BUDGET/FINANCIAL INFORMATION:

Expenditures for SCADA were anticipated 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 more efficient operation of water and wastewater facilities and improved response times to equipment failures, thus preventing 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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