



CITY OF LODI COUNCIL COMMUNICATION

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AGENDA TITLE: Adopt Resolution Rejecting the Low Bid and Awarding the Contract to the Next Lowest Responsible Bidder to Replace and Upgrade the Existing Utility Supervisory Control and Data Acquisition System to Survalent Technology, of Mississauga Ontario Canada and Appropriate Funds (\$199,600) (EUD)

MEETING DATE: February 6, 2008

PREPARED BY: Electric Utility Director

RECOMMENDED ACTION: Adopt resolution rejecting the low bid and awarding the contract to the next lowest responsible bidder to replace and upgrade the existing Utility Supervisory Control and Data Acquisition System to Survalent Technology, of Mississauga Ontario Canada and appropriate funds not to exceed \$199,600.

BACKGROUND INFORMATION: A critical function of any municipal utility is the ability to control and to monitor the status of its electrical, water, waste water, and storm water systems. A Supervisory Control and Data Acquisition System (SCADA) is used to provide this function through its communication from a central operations office to remote system devices.

On November 7, 2007, the City Council approved the issuance of an Request For Proposal (RFP) for a new utility SCADA system. The City's utility operations are dependent on an adequate, secure and reliable SCADA system. The existing SCADA systems (Siemens supplied) are only marginally operational and no longer supported by the primary or after market suppliers. The proposed system under the RFP will be built with redundant units operating in parallel and will be provided on a "turn-key" basis.

The City received three responses to its SCADA RFP – Siemens (\$114,750), Survalent (\$199,600) and HSQ (\$335,221). The following is a brief overview of the three proposals:

Siemens

The Siemens proposal takes exception to the entire Lodi specification. It states that the software can meet or exceed the needs of the City, however, it does not specifically mention if/how they will provide the features Lodi is looking for in the specification. Pulse Accumulator Data processing, sequence of events DATA Processing, Global Map Display, Draw file format, control panel and other requirements are not mentioned in their proposal. There is no detail as to the functionality and tools in their proposed software solution so it can be evaluated as to sufficiency.

The Siemens system is built on its Spectrum Power TG software. This system is used by one other agency in Northern California -- the Turlock Irrigation District (TID). The only other agency using this system is found back east. TID indicated satisfaction with the system, but indicated a concern with the vendor's lack of support during the early years of the system.

Additionally, Siemens has a long SCADA history with the City of Lodi that has been less than satisfactory. When it comes to system support, they are reluctant to provide support unless it is through a phone or lease line support.

APPROVED: _____
Blair King, City Manager

Survalent

Survalent utilizes World View software which appears to fully meet Lodi's specification. Worldview uses "open architecture" software/ hardware which ensures future compatibility with multi-vendor equipment and software at a reasonable cost.

Northern California Power Agency (NCPA) uses Survalent as their SCADA software, thus it would be easy to exchange data directly with NCPA using the same format, protocols etc. Information such as Volts, Amperage, and Watts related to power deliveries to Lodi can be imported into the SCADA system directly. Standardizing on a common platform allows direct viewing of energy sources affecting Lodi's electrical system and is advantageous to EUD operations. This will also enable EUD personnel to interact with and network with other agencies on a common communications platform. Future upgrades and training cost might also be mitigated due to shared resources. A drawback of the Survalent proposal is that it requires the use of a third party protocol converter to convert the proprietary protocol used by the existing Remote Terminal Units (RTU's) from TG6800 to DNP 3.0 protocol. Although this practice is acceptable, it would require a hardware and software layer between the field devices and the SCADA master. Staff believes, however, that the proposed use of the converter is acceptable and its cost is included in Survalent's bid.

HSQ Technology

HSQ has numerous installations of their software at water agencies in northern California and other states and countries. Their product seems to be sound and easy to use. HSQ also seems to have good customer support for their product (Miser). There is some concern that their only identified SCADA customers are water utilities. The electric utility industry has certain features and requirements that are unique and although these features could possibly be emulated by the software, it was not specifically mentioned in their proposal. Staff is concerned about being the first and only electric utility to have these features installed. Another concern is the proposed method for their software to communicate with the existing RTU's. HSQ proposes to reverse engineer a driver to handle the protocol communications.

Summary: Staff recommends rejection of the bid by Siemens and recommends award of the SCADA bid to Survalent, the second low bidder. The low bid is being rejected due to non-compliance with the bid specification, lack of a customer base with their product, the perception of less than exemplary customer service and poor experience by Lodi of their prior SCADA products. The Survalent bid is recommended for award part due to a good customer base for the product including installation of the system at several other NCPA members, compliance with the specification, use of open architecture and good customer support.

FISCAL IMPACT: The bid price of a turnkey SCADA system installation is \$199,600.

FUNDING: Transfer of funds from unencumbered bond proceeds (Electric Utility Department 2002 Certificate of Participation Series A) to Account No. 161052.

Kirk Evans, Budget Manager

George F. Morrow
Electric Utility Director

PREPARED BY: Able Palacio, EUD Operations Supervisor

RESOLUTION NO. 2008-_____

A RESOLUTION OF THE LODI CITY COUNCIL REJECTING THE
LOW BID AND AWARDING THE CONTRACT TO THE NEXT LOWEST
RESPONSIBLE BIDDER TO REPLACE AND UPGRADE THE EXISTING
UTILITY SUPERVISORY CONTROL AND DATA ACQUISITION SYSTEM
AND APPROPRIATE FUNDS

WHEREAS, in answer to notice duly published in accordance with law and the order of this City Council, sealed bids were received and publicly opened on January 16, 2008 11:00 a.m. for the replacement and upgrade of the existing SCADA system for the Electric Utility Department, described in the specifications therefore approved by the City Council on November 7, 2007; and

WHEREAS, said bids have been compared, checked, and tabulated and a report thereof filed with the City Manager as follows:

Siemens Spectrum Power TG, San Jose, CA	\$114,750*
Survalent Technology,	\$199,600
HSQ Technology, Hayward, CA	\$335,221

Note: The low bid is being rejected due to non-compliance with the bid specification.

WHEREAS, staff recommends that the City Council reject the low bid for non-compliance with the bid specification, and further recommends awarding the bid to the next lowest responsible bidder, Survalent Technology of Mississauga Ontario Canada in the amount of \$199,600.

NOW, THEREFORE, BE IT RESOLVED that the Lodi City Council hereby rejects the low bidder, Siemens Spectrum Power TG of San Jose, California due to non-compliance with the bid specification; and

BE IT FURTHER RESOLVED that the award of the bid for the replacement and upgrade of the existing SCADA system for the Electric Utility Department be and the same is hereby awarded to the next lowest responsible bidder, Survalent Technology of Mississauga Ontario Canada in the amount of \$199,600; and

BE IT FURTHER RESOLVED, that funds be appropriated from the unencumbered bond proceeds from the Electric Utility Department 2002 Certificate of Participation Series A to account number 161051 for this purchase.

Dated: February 6, 2008

I hereby certify that Resolution No. 2008-_____ was passed and adopted by the City Council of the City of Lodi in a regular meeting held February 6, 2008, by the following vote:

- AYES: COUNCIL MEMBERS –
- NOES: COUNCIL MEMBERS –
- ABSENT: COUNCIL MEMBERS –
- ABSTAIN: COUNCIL MEMBERS –

RANDI JOHL
City Clerk