



# City of Grand Island

Tuesday, May 02, 2006

Council Session

## Item G9

**#2006-129 - Approving Bid Award - Sixty (60) Circuit Breaker  
Monitoring and Control Modules - Utilities Department**

Staff Contact: Gary R. Mader; Dale Shotkoski

# **Council Agenda Memo**

**From:** Gary R. Mader, Utilities Director  
Dale Shotkoski, Interim City Attorney

**Meeting:** May 2, 2006

**Subject:** Bid Award – Circuit Breaker Monitoring and Control Modules

**Item #'s:** G-9

**Presenter(s):** Gary R. Mader, Utilities Director

## **Background**

The Grand Island Electric System contains 42 distribution feeder circuits with provisions to activate an additional nine feeders. The feeder circuits are those that criss-cross the City connecting to customer services. The original feeder circuit protective relays were installed over the course of building the electric system as the City grew. The oldest of the relays was over 30 years old. These relays did not conform to contemporary levels of performance. For the past five years, the Electrical Engineering Division has been working on a program to upgrade to current industry standard digital protective relays. This upgrade allows a much higher level of monitoring and control of the distribution system through a PC computer based interface.

Separate from the distribution feeder circuits are the transformation, transmission, and generation portions of the electric system. These functions utilize different types of protective relays. The relays provide protection of the systems but do not include control functions. Monitoring and control of the circuit breakers associated with these functions, such as routine open/close operations, remain separate from the protective relay function, on a 15 year old System Control and Data Acquisition (SCADA) system, with limited capabilities. It is the Utilities Department's plan to upgrade the control and protection for the transformation, transmission and generation functions to allow integration into the PC based supervisory system. The Circuit Breaker Monitoring and Control Modules proposed for purchase will perform these integration functions. This upgrade equipment was included in the current Electric Department budget.

An additional consideration is the ability to obtain detailed recordings of fault currents and voltage. Analysis of these data allows system operators to much more accurately determine the source, severity, and location of a problem. This capability has been in

development in the electric industry for several years but has been very expensive. Original protective relaying simply tripped a circuit when a fault occurred and provided a mechanical flag to mark the type of fault that had occurred; overcurrent, ground, phase contact, etc. The advent of digital electronics has made this capability affordable. With the increasing emphasis on reliability, the ability to analyze faults is both critical and an industry expectation. The Circuit Breaker Monitoring and Control Modules will provide the ability to record fault data as well as trending and disturbance information.

## **Discussion**

Specifications for the purchase of Sixty (60) Circuit Breaker Monitoring and Control Modules were prepared and advertised in accordance with City procurement requirements. Specifications were sent to six regional distributors and two local distributors. The engineer's estimate was \$250,000.00. Bids were publicly opened at 11:00 a.m. on April 11, 2006. Listed below is a tabulation of the bids received.

Bidder/Manufacturer and Product	Exceptions	Bid Price
<i>Weisler &amp; Associates, Inc. of Kansas City, MO</i> <i>Satec SA320</i>	<i>No</i>	<i>\$243,318.00</i>
Wesco of Sioux City, IA Electro Industries Nexus 1250	Yes	\$246,691.71
Lynn Elliott Company of Mission, KS Areva M871	No	\$259,539.20

The Areva M871 equipment as bid meets the specifications. Areva also offered a reduced cost option to their bid to provide equipment with less than the specified memory capacity. That option was non-compliant with the specifications. The bid from Weisler and Associates to provide Satec SA320 equipment meets all requirements of the specifications and is the lowest bid to do so.

## **Alternatives**

It appears that the Council has the following alternatives concerning the issue at hand. The Council may:

1. Move to approve
2. Refer the issue to a Committee
3. Postpone the issue to future date
4. Take no action on the issue

## **Recommendation**

City Administration recommends that the Council award the purchase of Sixty (60) Circuit Breaker Monitoring and Control Modules to Weisler & Associates, Inc., in the amount of \$243,318.00.

## **Sample Motion**

Motion to approve award of the purchase of the Circuit Breaker Monitoring and Control Modules from Weisler & Associates, Inc., of Kansas City, Missouri.



Dale M. Shotkoski, Assistant City Attorney

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Better Tomorrow, Today*

**BID OPENING**

**BID OPENING DATE:** April 11, 2006 at 11:00 a.m.  
**FOR:** (60) Circuit Breaker Monitoring and Control Modules  
**DEPARTMENT:** Utilities  
**ESTIMATE:** \$250,000.00  
**FUND/ACCOUNT:** 520  
**PUBLICATION DATE:** March 20, 2006  
**NO. POTENTIAL BIDDERS:** 9

**SUMMARY**

<b>Bidder:</b>	<b><u>SATEC, Inc.</u></b> Union, NJ	<b><u>Areva T &amp; D, Inc.</u></b> Bethlehem, PA	<b><u>Wesco Distribution, Inc.</u></b> Sioux City, IA
<b>Bid Security:</b>	\$12,165.90	Liberty Mutual Ins. Co.	Continental Ins. Co.
<b>Exceptions:</b>	None	None	Noted
<b>Bid Price:</b>	\$243,318.00	\$259,539.20	\$246,691.71
<b>Delivery:</b>	60 days	60 days	90 days

cc: Gary Mader, Utilities Director  
Pat Gericke, Utilities Adm. Assist.  
Gary Greer, City Administrator  
Laura Berthelsen, Legal Assistant

Bob Smith, Assist. Utilities Director  
Travis Burdett, Senior Elect. Eng.  
Dale Shotkoski, Purchasing Agent

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RESOLUTION 2006-129

WHEREAS, the City of Grand Island invited sealed bids for Sixty (60) Circuit Breaker Monitoring and Control Modules, according to plans and specifications on file with the City Clerk; and

WHEREAS, on April 11, 2006, bids were received, opened and reviewed; and

WHEREAS, Weisler & Associates, Inc. of Kansas City, Missouri, submitted a bid in accordance with the terms of the advertisement of bids and plans and specifications and all other statutory requirements contained therein, such bid being in the amount of \$243,318 for Satec SA320 equipment; and

WHEREAS, Weisler & Associates, Inc.'s bid is less than the estimate for such equipment.

NOW, THEREFORE, BE IT RESOLVED BY THE MAYOR AND COUNCIL OF THE CITY OF GRAND ISLAND, NEBRASKA, that the bid of Weisler & Associates, Inc. of Kansas City, Missouri, in the amount of \$243,318 for sixty (60) Satec SA320 circuit breaker monitoring and control modules is hereby approved as the lowest responsible bid.

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Adopted by the City Council of the City of Grand Island, Nebraska, May 2, 2006.

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Jay Vavricek, Mayor

Attest:

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RaNae Edwards, City Clerk