



City of Grand Island

Tuesday, July 22, 2003

Council Session

Item G8

#2003-200 - Approving Bid Award for Cooling Tower Fan Motor VFD's - Platte Generating Station - Utilities Department

Background:

The current cooling tower fan motor switchgear at the Platte Generating Station was originally purchased in 1977. The switchgear controls the operation of the fan motors and allows operation at two fan speeds and also allows reverse flow operation. Operation of the switchgear has always been marginal, with recurrent relay failures due to unknown overload conditions. Several solutions, including soft-start controls have been tried, but failures still occur. These contact failures pose a fire hazard and should be eliminated. The plant staff has recommended replacing the existing switchgear with an electronic system. The electronic system does not use mechanical contacts or relays and also allows variable speed operation of the fans, which will improve plant efficiency at reduced plant loads and non-summer ambient conditions. The plant outage to inspect the boiler this fall allows an opportunity to replace the system in a planned manner. Specifications were developed for replacing the cooling tower fan motor switchgear with variable frequency drives (VFD's) by our consultant for this project, Black & Veatch, and were issued in accordance with City purchasing procedures.

Discussion:

The specifications for cooling tower fan VFD's were issued for bid and responses were received from the following bidders. The engineer's estimate for this project was \$165,000.

Bidder: 1) Crescent Electric, Grand Island - Bid Price: \$121,285.40 - Adjusted Bid Price: \$122,035.40. 2) Bidder: Hupp Electric, Cedar Rapids, IA - Bid Price: \$133,409 - Adjusted Bid Price: \$133,409. 3) Bidder: Kriz-Davis, Grand Island - Bid Price: \$123,435 - Adjusted Bid Price: \$143,541. 4) Bidder: Northwest Electric, Columbus - Bid Price: \$291,400 - Adjusted Bid Price: \$291,400.

City staff and B&V reviewed the bids for compliance with the City's detailed specifications. The bid from Crescent did not include instruction manuals, the base bid from Kriz-Davis did not include instruction manuals or a spare VFD, and these bids were adjusted using unit prices provided in the bids. The other bids did not require any adjustments and were compliant.

Recommendation:

It is the recommendation of the Utilities Department that Crescent Electric be awarded the contract for this work in the amount of \$122,035.40.

Fiscal Effects:

Expenditure of \$122,035.40 from Enterprise Fund 520.

Alternatives:

None recommended. See attached RESOLUTION.

Staff Contact: Gary R. Mader; Dale Shotkoski

Purchasing Division of Legal Department
INTEROFFICE MEMORANDUM



Dale M. Shotkoski, Assistant City Attorney

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Better Tomorrow, Today*

BID OPENING

BID OPENING DATE: June 19, 2003 at 11:15 a.m.

FOR: Motor Control Equipment

DEPARTMENT: Utilities - PGS

ENGINEER'S ESTIMATE: \$170,000.00

FUND/ACCOUNT: E520

PUBLICATION DATE: June 6, 2003

NO. POTENTIAL BIDDERS: 6

SUMMARY

Bidder:	<u>Crescent Electric</u> Grand Island, NE	<u>Kriz-Davis Co.</u> Grand Island, NE
Bid Security:	American Institute of Architects	St. Paul Fire & Marine Ins.
Exceptions:	Noted	Noted
Bid Price:	<u>\$121,285.40</u>	<u>\$123,435.00</u>
Bidder:	<u>Northwest Electric, Inc.</u> Columbus, NE	<u>Hupp Electric Motors</u> Cedar Rapids, IA
Bid Security:	\$14,570.00	\$6,675.00
Exceptions:	Noted	Noted
Bid Price:	<u>\$291,400.00</u>	<u>\$133,409.00</u>

cc: Gary Mader, Utilities Director
Tim Luchsinger, Assistant Utilities Director

Dale Shotkoski, Purchasing Agent
Laura Berthelsen, Legal Assistant

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RESOLUTION 2003-200

WHEREAS, the City of Grand Island invited sealed bids for Cooling Tower Fan Motor Control Equipment, according to plans and specifications on file with the Purchasing Division of the Legal Department; and

WHEREAS, on June 19, 2003, bids were received, opened and reviewed; and

WHEREAS, Crescent Electric of Grand Island, Nebraska, 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 \$122,035.40; and

WHEREAS, Crescent Electric's bid is less than the engineer's estimate for such project.

NOW, THEREFORE, BE IT RESOLVED BY THE MAYOR AND COUNCIL OF THE CITY OF GRAND ISLAND, NEBRASKA, that the bid of Crescent Electric of Grand Island, Nebraska, in the amount of \$122,035.40 for cooling tower fan motor control equipment is hereby approved as the lowest responsible bid.

BE IT FURTHER RESOLVED, that a contract for such project between the City and such contractor be entered into, and the Mayor is hereby authorized and directed to execute such contract on behalf of the City of Grand Island.

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Adopted by the City Council of the City of Grand Island, Nebraska, July 22, 2003.

RaNae Edwards, City Clerk