



City of Grand Island

Tuesday, June 11, 2002

Council Session

Item G28

#2002-170 - Approving Change Order #1 - Turbine Generator Control Engineering Services - Platte Generating Station

The engineering firm of Black & Veatch was awarded an engineering contract to design replacement turbine and generator relaying at Platte Generating Station. The contract was awarded on March 12, 2002 for an amount not to exceed \$260,000. B&V was selected from three firms that responded to the City RFP.

This project was undertaken because the control and protective systems associated with the PGS turbine generator are of late 70's design. That equipment is obsolete and no longer supported by the manufacturers. The Utilities Department intends to replace these critical systems during the scheduled 2002 fall outage. Funds are budgeted in the '01-'02 budget for this project. Three main systems are included; turbine electro-hydraulic control, generator voltage control, and generator protective relaying.

Discussion:

There are two large transformers directly associated with power supply to the power plant; the Normal Supply which is fed directly from the generator when it is on line; and the Reserve Supply which provides station power when the generator is off line and is energized for emergency supply when the plant experiences an unplanned outage. Both of these critical transformers are equipped with protective and control relaying which, like the turbine generator relaying, is of 25 year old design and obsolete.

The extended plant shutdown planned for this fall would be an optimal time to also replace and/or upgrade the transformers' systems since other protective relaying is being upgraded, and the transformer systems work in concert with the turbine generator systems. Black & Veatch was asked to provide a proposal adding this design work to their project scope. B&V has quoted a price of \$27,500 for additional engineering services to upgrade the normal and reserve transformer protective relaying. The attached Change Order #1 outlines the addition to the original contract for a net addition of \$27,500, for a final contract price of \$287,500.

Recommendation:

The Utilities Department recommends authorizing this Change Order #1 to the Turbine/Generator Engineering Services project at the Platte Generating Station for a net addition not to exceed \$27,500.

Fiscal Effects:

Expenditure of \$27,500 from Enterprise Fund 520. There are sufficient funds available.

Alternatives:

None recommended.

Staff Contact: Gary R. Mader;Dale Shotkoski



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CHANGE ORDER # 1

TO: Black & Veatch
8400 Ward Parkway
P.O. Box 8405
Kansas City, MO 64114

Project: PGS Unit 1 Turbine/Generator Control Engineering Services

You are hereby directed to make the following work addition to the project. Provide additional engineering services for design, specification, bidding, and engineering support for installation for the replacement and upgrade of the control and protective relaying systems for the Normal Supply and Reserve Supply transformers at Platte Generating Station:

- 1. Additional payment of
ADD: \$27,500.00 or DELETE: \$

Table with 2 columns: Description and Amount. Rows include: The original Contract Sum (\$260,000.00), Previous Change Order Amounts (\$), The contract Sum is increased by this Change Order (\$27,500.00), and The total modified Contract Sum to date (\$287,500.00).

Approval and acceptance of this Change Order acknowledges understanding and agreement that the cost and time adjustments included represent the complete values arising out of and/or incidental to the Work described therein. Additional claims will not be considered.

APPROVED: CITY OF GRAND ISLAND

By: _____ Date _____
Attest: _____
Approved as to Form, City Attorney

ACCEPTED: BLACK & VEATCH

By: _____ Date _____

RESOLUTION 2002-170

WHEREAS, on March 12, 2002, by Resolution 2002-64, the City Council for the City of Grand Island awarded the proposal for turbine generator control engineering services to Black & Veatch; and

WHEREAS, it has been determined that additional engineering services for design, specification, bidding and engineering support for installation for the replacement and upgrade of the control and protective relaying systems of the reserve and normal supply transformer is necessary to ensure that it operates optimally with the replacement turbine and generator relaying work currently being completed at Platte Generating Station; and

WHEREAS, such modification has been incorporated into Change Order No. 1; and

WHEREAS, the result of such modification for this project will increase the contract amount by \$27,500, for a revised contract amount of \$287,500.

NOW, THEREFORE, BE IT RESOLVED BY THE MAYOR AND COUNCIL OF THE CITY OF GRAND ISLAND, NEBRASKA, that the Mayor be, and hereby is, authorized and directed to execute a Change Order between the City of Grand Island and Black & Veatch to provide additional engineering services for design, specification, bidding and engineering support for installation for the replacement and upgrade of the control and protective relaying systems for the Normal Supply and Reserve Supply transformers at Platte Generating Station for the amount of \$27,500.

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Adopted by the City Council of the City of Grand Island, Nebraska on June 11, 2002.

RaNae Edwards, City Clerk

Approved as to Form	?
June 6, 2002	? City Attorney