

DENVER BOARD OF WATER COMMISSIONERS

Meeting Date: October 28, 2009

Board Item: 2-A-6

**CHANGE ORDER NO. 2  
PROVIDE AND INSTALL NEW SWITCHYARD 13,200 VOLT ELECTRICAL  
SERVICE EQUIPMENT TO BROOMFIELD PUMP STATION  
SWITCHGEAR REPLACEMENT PROJECT  
CONTRACT 11773A**

Action by Consent                       Action                       Information

During the construction of the Broomfield Pump Station Switchgear Replacement Project, the project team discovered the existing 13.2kV electrical service equipment posed a large safety and reliability concern. Issues with the equipment include concerns on the transformer's reliability, missing fuses, and the disconnection of lighting/surge arrestors. With the current configuration and existing equipment issues, a problem with the pump station main line No. 1 equipment or the primary feeders to either main power transformer would cause the Xcel overcurrent protection to activate, resulting in a complete loss of power for the pump station. Denver Water Engineering/Operations and Maintenance staff have determined that the pump station main power transformer No. 1 needs to be replaced as soon as possible.

To eliminate this reliability issue, a new 15kV power feed to the pump station transformers is recommended. The new power feed will be installed by Sturgeon Electric under an existing agreement. To complete this work, an extension of the Contract Time is warranted as a result of this Change Order. The Substantial Completion Date will also be changed from November 30, 2009 to May 30, 2010, and the Final Completion Date will be modified from December 30, 2009 to June 30, 2010.

*There is no Small Minority Women Business Enterprise (SMWBE) goal for this portion of the project.*

The 2010 Capital Improvement Plan (MPC 2DB0322) includes funds for this project. Approximately \$225,000 of equipment will be pre-purchased with unused 2009 Capital Funds.

**RECOMMENDATION**

It is recommended that the Board approve Change Order No. 2 for Contract 11773A with Sturgeon Electric in the amount of \$280,950.00 to provide and install new switchyard electrical service equipment.

**Budget Considerations**

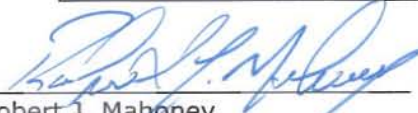
Master Plan Code(s): 2DB0322

● Budgeted Item    ○ Unbudgeted Item    ○ Funds transferred from another project:

**Budget Information**

2010 Budget	\$249,208.00
Amount Requested This Item	\$280,950.00
YTD Expenditures	\$ .00
Additional Expenditures Anticipated	\$193,258.00
Revised 2010 Estimate	\$249,208.00
Variance Required (2009)	\$225,000.00

Approvals:

  
Robert J. Mahoney  
Director of Engineering

  
Manager Approval