

DENVER BOARD OF WATER COMMISSIONERS

Meeting Date: December 9, 2009

Board Item: V-A-16

**CHANGE ORDER NO. 1
HYDROPOWER GENERATING EQUIPMENT PROCUREMENT
AT WILLIAMS FORK DAM HYDROELECTRIC PROJECT
CONTRACT 10677A**

Action by Consent

Action

Information

On September 12, 2007, the Board approved Contract 10677A with Canyon Hydro for the Hydropower Generating Equipment Procurement at the Williams Fork Dam Hydroelectric Facility. The equipment to be provided consists of a 0.5 MW vertical Francis hydropower turbine, draft tube assembly, synchronous generator, spare parts, and appurtenances.

The design and fabrication of the equipment has been progressing. Throughout this process, a series of miscellaneous design changes to the equipment was agreed upon to improve the design, control, and maintenance of the equipment. To date, 90% payment of this equipment has been approved. The equipment will be stored by the manufacturer until the approximate ship date of March 2011. The 10% final payment will be approved after the equipment has been installed and tested in the summer of 2011.

A contract extension to February 28, 2012 is required to coordinate with the schedule of the Small Hydro/Outlet Works Project. The schedule for the Small Hydro/Outlet Works Project will require Canyon Hydro to store the equipment for a period longer than indicated in their base contract and also to extend the terms of the original contract warranty.

The changes to the contract via Change Order No. 1 are as follows:

• Generator Main Terminal Box:	\$30,620.00
• Additional Current Transformers:	\$ 1,950.00
• Increase Generator Shaft Length:	\$ 6,500.00
• Add Limit Switches to Wicket Gate Actuator:	\$ 1,200.00
• Add Stainless Steel Draft Tube Section:	\$ 7,750.00
• Extended Storage:	\$ 3,700.00
• Extended Warranty:	<u>\$22,068.00</u>
This Equipment Purchase:	\$73,788.00

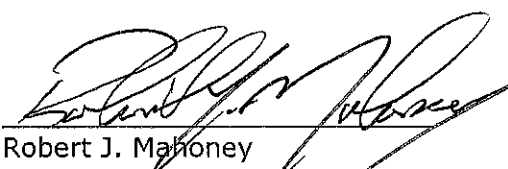
It was determined the equipment purchase consists mainly of specialty work, therefore there is no Minority and Women Business Enterprise (MWBE) goal for this contract. MWBE participation will be realized in the construction contract with Moltz Civil LLC.

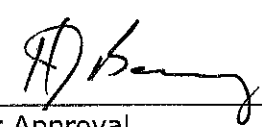
The 2009 Capital Improvement Plan (MPC 1AD0022) includes funds for this project.

RECOMMENDATION

It is recommended that the Board approve Change Order No. 1 to Contract 10677A to Canyon Hydro for \$73,788.00, bringing the total contract amount to \$1,129,188.40 and extending the completion date to February 28, 2012.

Approvals:


Robert J. Mahoney
Director of Engineering


Manager Approval