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Department of Utilities
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TO: Chairperson Kathy Plank and Members of the Finance Committee

CC: Chairperson Joe Martin and Members of the Utilities Committee

FROM: Utilities Director Chris Shaw

DATE: September 5, 2014

RE: *Award Contract for the AWTF PAC Fire Suppression and Monitoring Project to Pieper Electric in the amount of \$173,800 with a 15 % of contingency of \$26,070 for a project total not to exceed \$199,870*

Request to approve the following 2014 Budget adjustment: PAC Fire Monitoring project \$86,750 Security Camera Equipment project -\$58,100 Tower Mixer-North Reservoir project - \$28,650. To transfer funds for the additional cost to complete the PAC Fire Monitoring project.

BACKGROUND:

Powdered Activated Carbon (PAC) is fed seasonally at the AWTF to control taste and odor compounds. The existing PAC storage and feed system has a capacity of 95,000 pounds and consists of a single dry storage silo with a chemical delivery system. The fourteen foot diameter PAC silo is fitted with a baghouse, pressure/vacuum relief valves, and compressed air fluidizing equipment.

The AWTF has experienced problems with PAC oxidizing inside the storage silo. This oxidation results in product combustion and poses risk to employees and equipment. AWTF staff commissioned a study to identify and recommend improvements to the PAC storage system. The report recommended engineering and constructing the following:

- Installation of gas monitoring equipment (oxygen, carbon monoxide, carbon dioxide)
- Installation of a carbon monoxide gas and temperature sensors

- Installation of piping, valves, and controls to safely interconnect the AWTF carbon dioxide gas system with the PAC silo to allow intermittent purging of the PAC silo with carbon dioxide gas for fire prevention and suppression.

ENGINEERING:

Donohue and Associates were authorized to create the bidding documents. In the process the firm also incorporated electrical grounding systems which would reduce static ignition sources in the silo. The project drawings and bidding documents were completed in July 2014.

BID PROCESS:

A pre-bid meeting was held on August 12, 2014 and the bids were opened on August 26, 2014. There were two responsive bidders, Elmstar Electric Corporation and Pieper Electric, Inc. The table below identifies the contractors' bids. Pieper Electric, Inc provided the least cost quote. The project engineer, Donohue and Associates recommends Pieper Electric, Inc. for this project.

CONTRACTOR	BID
Elmstar Electric Corporation	\$196,975
Pieper Electric, Inc.	\$173,800

RECOMMENDATION:

I recommend an award for the construction phase of the AWTF PAC Fire Suppression and Monitoring Project to Pieper Electric, Inc., in the amount of \$173,800 with a 15 % of contingency of \$26,070 for a project total not to exceed \$199,870.

The capital budget for this project was \$140,000. In order to provide funding I request the following: To approve the following 2014 Budget adjustment: PAC Fire Monitoring project \$86,750 Security Camera Equipment project -\$58,100 Tower Mixer-North Reservoir project - \$28,650. Funds transferred will provide funding for the additional cost to complete the PAC Fire Monitoring project.

If you have any questions regarding this project please contact me at ph: 832-5945.