

ITEM #: 27
DATE: 07-09-24
DEPT: W&PC

COUNCIL ACTION FORM

SUBJECT: **FINAL COMPLETION OF WPC FACILITY CATERPILLAR G379
METHANE/NATURAL GAS ENGINE-GENERATOR OVERHAUL**

BACKGROUND:

The Water Pollution Control (WPC) Facility uses methane generated during the wastewater treatment process to power engines that generate electricity. The engines produce heat, which is used in the wastewater treatment process, and generate electricity, which lowers the peak electric demand of the facility and thereby reduces costs. The engines require periodic maintenance and overhauls.

On December 12, 2023, the Ames City Council awarded a contract to Altorfer Power Systems of Cedar Rapids, Iowa in the amount of \$167,655.05 to provide all labor, equipment, materials, and other components necessary to complete the WPC Facility Methane Engine-Generator Overhaul Project.

During disassembly, cracks in the cylinder block were discovered. A change order for \$10,475 was added for completion of the work to repair the cracks, bringing the final contract amount to \$178,130.05. This new contract total is within the \$192,690 authorized funding for the project.

As of June 12, 2024, work for the WPC Facility Methane Engine-Generator Rehabilitation Project was completed in accordance with the contract and City specifications. It is the recommendation of staff to accept completion and authorize payment in accordance with the contract.

ALTERNATIVES:

1. Accept completion of the WPC Facility Caterpillar G379 Methane/Natural Gas Engine Generator Overhaul Project by Altorfer Power Systems of Cedar Rapids, Iowa in the amount of \$178,130.05, and authorize final payment in accordance with the contract documents.
2. Do not accept completion of the WPC Facility Methane Engine-Generator Rehabilitation Project at this time.

CITY MANAGER'S RECOMMENDED ACTION:

Repairs to the engine were completed on June 12, 2024. City staff has operated and inspected the engine for over two weeks and has found no issues with the work. It is the recommendation of the City Manager that the City Council adopt Alternative No. 1 as described above.

ATTACHMENT(S):

[Engineer's Statement of Completion.pdf](#)