

ITEM #: 40
DATE: 06-25-24
DEPT: ELEC

COUNCIL ACTION FORM

SUBJECT: REFUSE-DERIVED FUEL (RDF) STORAGE BIN REPAIR - PROJECT COMPLETION

BACKGROUND:

The City's Resource Recovery Plant (RRP) converts municipal solid waste (MSW) into refuse derived fuel (RDF). The RDF is then conveyed to the RDF Storage Bin, which provides buffer and storage capacity until the RDF can be metered into the Power Plant boilers for combustion.

The existing RDF Storage Bin has been in service since 1996. The bin was primarily constructed of COR-TEN steel, a weathering steel designed to initially rust and build up an oxide layer that then prevents further rusting of the steel from occurring. The use of COR-TEN steel to construct the RDF Storage Bin proved to be problematic in places where the COR-TEN steel is in regular or constant contact with the RDF. Constant contact with the RDF removed the oxide layer meant to protect the steel underneath, causing the exposed steel to rust anew. This cycle repeated over and over, and eventually removed enough steel that portions of the Bin needed to be repaired or replaced. The COR-TEN steel members that were in regular or constant contact with the RDF were replaced with equivalent stainless steel members. Stainless steel will hold up to the corrosive nature of RDF while maintaining the structural integrity of the RDF Bin.

On April 11, 2023, City Council awarded the contract to Neumann Brothers Inc., of Des Moines, Iowa, in the amount of \$1,428,000, inclusive of sales tax.

There was one change order in the amount of \$180,028.59. This change order was for additional work to remove the old distribution boxes and vents, and source materials, fabricate, and install two (2) new distribution boxes and four (4) exhaust vents. The total of the contract is \$1,608,028.59 (inclusive of sales tax).

All the requirements of the contract have been met by Neumann Brothers Inc. and the Engineer has provided a certificate of completion. The retainage can now be released.

ALTERNATIVES:

1. Accept the Refuse-Derived Fuel (RDF) Storage Bin Repair project as completed by Neumann Brothers Inc, Des Moines, IA, in the amount of \$1,608,028.59 (inclusive of sales tax) and release retainage.
2. Delay the completion of the project and hold the retainage.

CITY MANAGER'S RECOMMENDED ACTION:

The project has now been completed in accordance with the approved plans and specifications. Therefore, it is the recommendation of the City Manager that the City Council adopt Alternative No. 1, as noted above.

ATTACHMENT(S):

Acceptance of Completion Letter_SIGNED.pdf