

**COUNCIL ACTION FORM**

**SUBJECT: UNIT 7 BOILER MODELING REPAIR**

**BACKGROUND:**

The Unit #7 boiler was retrofitted to burn refuse desired fuel (RDF), but in relative terms has been operating relatively inefficiently since converting to burn RDF. Modeling is now proposed as part of the Power Plant Unit #7 boiler tube repair project. This project will model the Unit 7 boiler to provide information on improving the combustion process within the boiler. This improvement is necessary for better processing and handling of RDF ash within the boiler and its associated ash handling equipment. Additionally, better combustion of the RDF will extend boiler tube life. The modeling and subsequent design/tube replacement project will return the boiler to a “like-new” status for future plant reliability.

Bid documents were issued to 14 companies. The bid was also advertised on the Current Bid Opportunities section of the Purchasing webpage and was sent out to one plan room.

On November 17, 2016, three bids were received as shown below.

<b>BIDDER</b>	<b>LUMP SUM COST</b>
Jansen Combustion and Boiler Technologies, Inc. Kirkland, WA	\$69,940
Alstom Power Inc. Windsor, CT	\$99,900
Babcock Power Services, Inc. Worcester, MA	\$153,720

**Staff reviewed the bids and concluded that the apparent low bid submitted by Jansen Combustion and Boiler Technologies, Inc., Kirkland, WA, in the amount of \$69,940 is acceptable.**

The approved FY 2016/17 operating budget for Boiler Tube Repair contains \$3,844,850 which will be utilized to cover this project.

**ALTERNATIVES:**

1. Award a contract to Jansen Combustion and Boiler Technologies, Inc., Kirkland, WA, for the Unit 7 Boiler Modeling in the amount of \$69,940.
2. Reject all bids, which will delay this modeling.

**MANAGER'S RECOMMENDED ACTION:**

This project is crucial for the design of the Unit #7 boiler tube repair project. Information gathered during this phase of the project will be used to make design improvements to the Unit #7 boiler. These modifications will allow the Unit #7 boiler to burn RDF more efficiently, which in turn will reduce maintenance costs and help the Resource Recovery Plant maintain regular operations. Additionally, the overall goal of this project is to return the Unit #7 boiler to a “like-new” state to ensure future reliability of the unit.

Therefore, it is the recommendation of the City Manager that the City Council adopt Alternative No. 1 as stated above.