

**COUNCIL ACTION FORM**

**SUBJECT: POWER PLANT SUPERHEATER ATTEMPERATOR REPLACEMENT**

**BACKGROUND:**

This project is for procurement and installation of an attemperator to replace the original attemperator in the superheater of the Power Plant's Unit #8 boiler. Attemperators are assemblies that allow for injection of water into the steam flow to control (cool) the final steam temperature to the turbine. Controlling the temperature of the steam to the turbine is necessary and important to protect the turbine from damage from steam that is too hot.

This particular portion of the project is for design and fabrication of a replacement in-kind primary superheater attemperator.

During the Spring 2013 outage, the attemperator was inspected and the internal liner was found to be dislocated, and the original equipment manufacturer of the boiler recommended replacement. A total failure of this equipment would render Boiler #8 inoperable, while consequential damages from the failed components migrating downstream could result in a very expensive and extended repair outage.

**The Council should note that this bid is for the purchase of the attemperator only. Installation for this attemperator will be bid separately at a later date.**

The engineer's estimate for the purchase of the attemperator is \$155,000. This project will be completed during the Spring 2014 planned outage. Funding is available in the approved FY2013/14 Electric Production operating budget.

**ALTERNATIVES:**

1. Approve the preliminary plans and specifications for the Replacement Superheater Attemperator and set September 11, 2013, as the bid due date and September 24, 2013, as the date of public hearing and award of contract.
2. Delay replacing the superheater attemperator.

**MANAGER'S RECOMMENDED ACTION:**

Unit #8 would be inoperable if attemperator failure occurred, and the consequential damage could be very significant. Funding is included in the Power Plant operating budget. Therefore, it is the recommendation of the City Manager that the City Council adopt Alternative No. 1 as stated above.