

COUNCIL ACTION FORM

SUBJECT: SPRING 2014 POWER PLANT BOILER REPAIRS

BACKGROUND:

This project is for labor and materials for replacement of the primary superheater attemperator, disassembly/reassembly of the boiler ash grates, replacement of the boiler water seal box/trough and box/trough seal plates, ash grate shafts and bearings, ash hopper refractory, undergrate air metal bellows expansion joint, and designated undergrate air ductwork. Purchase of the attemperator itself was approved by Council on Oct. 8, 2013.

When the attemperator was inspected last year, the liner was found loose and the boiler manufacturer recommended replacement. If the liner breaks it would flow downstream and cause significant tube or turbine damage. The boiler bottom is subject to extreme operating conditions due to the RDF and the wet bottom ash environment. Repair and rebuilding these areas is required to keep the boiler operating and burning refuse derived fuel.

The engineer's estimate for this project (labor and materials other than the attemperator) is \$461,000. Funding is available in the approved FY2013/14 Electric Production operating budget, which contains \$475,000 in the Unit #8 Boiler Maintenance account.

Upon City Council approval and receipt of favorable bids, the work would begin during the 2014 spring outage, which is scheduled to start on or about April 1, 2014.

ALTERNATIVES:

1. Approve the preliminary plans and specifications for the Spring 2014 Boiler Repairs and set November 27, 2013, as the bid due date and December 10, 2013, as the date of public hearing and award of contract.
2. Delay the boiler work and risk turbine damage and unreliable and potentially unsafe boiler operation.

MANAGER'S RECOMMENDED ACTION:

This budgeted boiler work is needed to continue Unit #8 operation without unnecessary risk of serious equipment damage. Therefore, it is the recommendation of the City Manager that the City Council adopt Alternative No. 1 as stated above.