

## COUNCIL ACTION FORM

**SUBJECT: APPROVAL OF PRELIMINARY PLANS AND SPECIFICATIONS FOR POWER PLANT UNIT #7 STACK REPAIR**

### **BACKGROUND:**

This project is for the repair of the Unit #7 stack located at the City's Power Plant. This stack carries the exhaust combustion products from the boiler and disperses them at a safe height. Cracks in the upper outer shell were observed in 2007 and two steel bands were installed to reinforce the shell. A professional inspection of the stack was made in late 2011 and several additional defects were found that need correction to make the stack safe and secure.

The purpose of this stack repair project is to correct the deficiencies found during the 2011 inspection. The scope of the project includes: installing steel reinforcing rings, replacing the grating on the elevated platforms, replacing the top ring, repairing the upper five courses of brick liner, painting the ladder and platforms, cleaning the interior, repairing cracks in the concrete, and coating the stack with a waterproof coating.

The Engineer's estimate of the cost of the repair is \$214,000. There are currently no funds available in the FY 2012/13 operating budget for Unit #7 stack repair. Funding for this repair will come from the FY 2011/12 operating budget amount designated for the Unit #7 air heater project, which will be re-prioritized for a time in the future. If this stack repair cannot be completed before July 1, 2012, the \$214,000 will be carried forward to the FY 2012/13 budget, and that budget will be amended at the appropriate time after July 1.

**This is a priority project, and staff will delay work on the Unit #7 air heater in the current FY 2011/12 budget period to set aside the funds necessary to complete this repair. Staff's goal is to have this entire project completed before next winter, however timing of the project depends on when the unit can be taken out of service without forcing us to go to the grid, at a time of warm weather. If summer arrives early, we may need to delay the work until fall.**

### **ALTERNATIVES:**

1. Approve the preliminary plans and specifications for the Unit #7 Stack Repair and set May 23, 2012, as the bid due date and June 12, 2012, as the date of hearing and award of contract.
2. Delay the repair of the Unit #7 stack.

**MANAGER'S RECOMMENDED ACTION:**

This project will address the cracked and broken liner in the Unit #7. It is crucial to have this work done because the stack is at risk of failing prematurely due to the cracks. The Unit cannot operate without a functioning stack to transport the exhaust away from the boiler. Therefore, it is the recommendation of the City Manager that the City Council adopt Alternative No. 1, as stated above.