

**COUNCIL ACTION FORM**

**SUBJECT: RESOURCE RECOVERY PLANT SECONDARY FEED SYSTEM**

**BACKGROUND:**

The City's Resource Recovery Plant annually processes 50,000 tons of municipal solid waste (MSW), recovering approximately 72% of all materials received. As the MSW travels through the processing system, several rotary disc screens intended to remove sand, glass, dirt, and grit also sort out smaller burnable material. In an effort to reclaim as much refuse derived fuel (RDF) as possible and reduce the amount of waste that is landfilled, staff identified a location for a secondary feed system to bypass traditional processing. This system feeds pre-processed, boiler-ready fuel directly from a truck into the underground pipeline that leads to the storage facility in the Power Plant's coal yard. Some examples of locally generated materials that could be inserted are sawdust or wood chips, shelled corn, and crumb rubber.

In the past, these smaller preprocessed materials were sent directly to the Boone County Landfill, since if they were traditionally processed through the Plant, they would mechanically be sorted out and ultimately still be transferred to the landfill. This additional feed system allows staff to unload and transfer boiler-ready fuel with a 100% recovery rate to the Power Plant for combustion, thereby reducing both the amount of coal consumed and the amount of material sent to the landfill.

On March 27, 2012 Council awarded a contract for this work to A-Lert Construction Services of Fredonia, Kansas, in the amount of \$62,040.00. Construction was completed in that same amount.

This project is funded by a Solid Waste Alternative Program (SWAP) Grant of \$24,950 from the Iowa Department of Natural Resources as a forgivable loan. Because the terms of the contract have been met, those funds will not need to be repaid. City Council approved local funding of \$37,090 from Resource Recovery System Fund, bringing total available funding to \$62,040.

**ALTERNATIVES:**

1. Accept the Secondary Feed System for Pre-processed Boiler Fuel as completed by A-Lert Construction Services of Fredonia, Kansas, in the amount of \$62,040.
2. Direct staff to pursue modifications to the project.

**MANAGER'S RECOMMENDED ACTION:**

The installation of this secondary feed system has allowed Resource Recovery to reclaim more refuse derived fuel (RDF) and to reduce the amount of waste sent to the landfill. This 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, thereby accepting the Secondary Feed System for Pre-processed Boiler Fuel as completed by A-Lert Construction Services of Fredonia, Kansas, in the amount of \$62,040.