

City of Columbia

701 East Broadway, Columbia, Missouri 65201



Agenda Item Number: R 219-14

Department Source: Water & Light

To: City Council

From: City Manager & Staff

Council Meeting Date: December 1, 2014

Re: Controls Upgrade at the Columbia Energy Center

Documents Included With This Agenda Item

Council memo, Resolution/Ordinance

Supporting documentation includes: None

Executive Summary

Staff has prepared for Council consideration a resolution setting a public hearing on December 15, 2014 and an ordinance authorizing bidding through the Purchasing Agent for the controls upgrade project at the Columbia Energy Center. The estimated cost of this project is \$2,500,000 and partial funding has been appropriated in the 2014 Capital Improvement Program under project EL0186.

Discussion

Water & Light owns and operates the Columbia Energy Center (CEC); a 144 MW natural gas fired peaking electrical generating plant located at 4902 Peabody Road. The plant consists of four (4) GE frame 6B combustion turbines each having a nominal capacity of 36 MW. Water & Light purchased the plant from Ameren in 2011. The plant was originally constructed and placed into service in 2001. The original existing control systems are nearing end of useful life and are in need of updating to ensure high levels of reliability. In 2012, Sega Engineers were retained to review control systems at the plant. Sega recommended that turbine controls, balance of plant controls, and generator excitation controls be upgraded to ensure maintainability and high reliability for the plant.

The project will be constructed within the CEC grounds and structures. Water & Light held an interested parties meeting on September 18, 2014 at City Hall, and no comments were received.

Fiscal Impact

Short-Term Impact: Partial funds for the project have already been appropriated in the 2014 Capital Improvement Program under project EL0186. Future appropriations will be required to complete the project.

Long-Term Impact: Improved reliability and maintainability of the CEC.

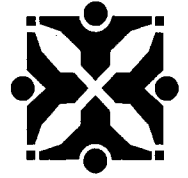
Vision, Strategic & Comprehensive Plan Impact

Vision Impact: Development

Strategic Plan Impact: Infrastructure

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Comprehensive Plan Impact: Utilities

Suggested Council Action

Approval of the resolution setting a Public Hearing for December 15, 2014. After public comment, approve the ordinance authorizing bidding and construction of the project.

Legislative History

September 18, 2014 – Interested Parties meeting held.


Department Approved


City Manager Approved

Introduced by _____ Council Bill No. R 219-14

A RESOLUTION

declaring the necessity for construction of an upgrade to the existing control systems at the Columbia Energy Center; stating the nature of and the estimate of the cost of the improvement; providing for payment for the improvement; providing for compliance with the prevailing wage law; and setting a public hearing.

BE IT RESOLVED BY THE COUNCIL OF THE CITY OF COLUMBIA, MISSOURI, AS FOLLOWS:

SECTION 1. The City Council deems the construction of an upgrade to the existing control systems at the Columbia Energy Center, more specifically to include the upgrade of the turbine controls, balance of plant controls and generator excitation controls, necessary to the welfare and improvement of the City.

SECTION 2. The nature and scope of the improvement shall consist of furnishing all labor, materials, transportation, insurance and all other items, accessories and incidentals thereto necessary for the complete construction of the improvements.

SECTION 3. The estimated cost of this improvement is \$2,500,000.00.

SECTION 4. Payment for this improvement shall be made from the Water and Electric Fund using funds appropriated in Capital Improvement Project No. EL0186 and such other funds as may be lawfully appropriated.

SECTION 5. Any work done in connection with the construction of the improvement specified above shall be in compliance with the provisions of the prevailing wage laws of the State of Missouri.

SECTION 6. A public hearing in respect to this improvement will be held in the Council Chamber of the City Hall Building, 701 E. Broadway, Columbia, Missouri, at 7:00 p.m. on December 15, 2014. The City Clerk shall cause notice of this hearing to be published in a newspaper published in the City.

ADOPTED this _____ day of _____, 2014.

ATTEST:

City Clerk

Mayor and Presiding Officer

APPROVED AS TO FORM:

City Counselor