ITEM # __17__
DATE: 07-13-10

COUNCIL ACTION FORM

SUBJECT: **AWARD OF CONTRACT FOR ENGINEERING SERVICES FOR UNITS 7 & 8 COOLING TOWER REPAIRS**

BACKGROUND:

This project is for the repair and replacement of the internal and structural components of the main Power Plant cooling towers. These towers have deteriorated from erosion and decay from near continuous operation. Cooling towers are used to cool the water that condenses the steam into water after power is generated in the steam turbine. This project is crucial because the Power Plant turbines cannot operate without functioning cooling towers. Deficient cooling tower operation directly effects power production and lowers plant operating efficiency.

Staff contacted a cooling tower firm to perform an inspection on both cooling towers in fall of 2009. Based on the inspection report it was determined that both towers were in need of significant repairs. These needed repairs must be completed in the near future in order for the facility to continue operating in a reliable and safe manner.

This portion of the project is for engineering services. The scope of work requires the engineering firm to provide detailed technical specifications and detailed engineer's estimates; a potential bidders list for all major equipment purchases; bid evaluation assistance to the staff; post contract award administration of the contract; and field management of the contract and contractor during periods of field work.

On May 26, 2010, the bid document was issued to eight (8) firms for proposals. On June 15, 2010, staff received competitive proposals for engineering services from seven (7) firms. These proposals were then sent to a committee for evaluation. The committee consisted of a Power Plant Engineer, the Power Plant Manager and Water and Pollution Control Department Environmental Engineer.

The committee members independently evaluated and scored all seven (7) of the proposals in two separate steps. In the first step the proposals were evaluated based on compliance with proposal documents and ability to meet the schedule. Each of those two criteria was rated on a Pass / Fail basis. In the second step the evaluations were based on price and rates; knowledge, capabilities, skills and abilities of the proposed team based on resumes submitted; the firm's experience list with similar projects; and the described work approach.

Based on the matrix, the averaged scores for the responding firms are:

BIDDERS	AVERAGED SCORE
Brown Engineering Company	755.67
Stanley Consultants, Inc.	742.33
Burns & McDonnell	685.67
Black & Veatch Corporation	644.67
Sargent & Lundy LLC.	599.33
Sega, Inc.	588.33
Bibb Engineers Architects & Constructors	555.00

Each score was based on a scale of 1 to 10, with a maximum of 1,000 points possible.

Based on the averaged scores and a unanimous decision by the evaluation committee, staff recommends that a contract be awarded to Brown Engineering Company, Des Moines, Iowa, for an amount not to exceed $49,600.

The approved FY2011/12 CIP includes $750,000 and the approved FY2012/13 CIP includes $300,000 for a total of $1,050,000 for construction. For the engineering portion of the project, $50,000 remaining from the approved FY2009/10 #7 Steam Turbine Generator Maintenance operating budget will be amended into the approved FY2010/11 #7 Steam Turbine Generator Maintenance operating budget at the appropriate time. This will result in a total budget of $110,000 in the 2010/11 #7 Steam Turbine Generator Maintenance budget. This account includes a section for cooling tower repairs, and covers emergency repairs to the towers.

ALTERNATIVES:

1. Award a contract to Brown Engineering Company, Des Moines, Iowa, for the engineering of Unit's 7 & 8 cooling tower repairs, and related bid evaluation and contract management services, in an amount not to exceed $49,600.

2. Reject all proposals and delay the engineering for the Unit's 7 & 8 cooling tower repairs.

MANAGER'S RECOMMENDED ACTION:

This project is necessary to maintain the integrity and efficiency of the cooling towers. The tower structure is made from wood which erodes and decays over time with the constant flow of air and water. Wooden towers require partial wood replacement periodically. In addition, this project will remove the asbestos in the towers that could become airborne in case of a fire or collapse. When a cooling tower operates inefficiently, the amount of coal required per kilowatt of electricity increases. The schedule for this project is crucial to prevent a catastrophic failure that would stop the production of electricity and to maintain the overall tower effectiveness.

Therefore, it is the recommendation of the City Manager that the City Council adopt Alternative No. 1 awarding a contract to Brown Engineering Company, Des Moines,

Iowa, for the engineering of Unit's 7 & 8 cooling tower repairs and related contract services, in an amount not to exceed $49,600.

Engineering for Unit's 7 and 8 Cooling Tower Repairs Cost Analysis

	REQUEST FOR PROPOSAL 2010-233 ENGINEERING FOR UNIT'S 7 & 8 COOLING TOWER REPAIRS
BIDDER	**TOTAL**
Brown Engineering, Des Moines, IA	$49,600.00
Stanley Consultants, Inc., Muscatine, IA	$68,000.00
Sargent & Lundy LLC, Chicago, IL	$73,000.00
Burns & McDonnell, Kansas City, MO	$150,000.00
Sega, Inc., Stilwell, KS	$199,000.00
Bibb Engineers, Architects & Constructors, Kansas City, MO	$229,000.00
Black & Veatch Corporation, Overland Park, KS	Unable to tabulate