

**CITY COUNCIL
COMMUNICATION:**

ITEM _____

02-344

**OFFICE OF THE CITY MANAGER
CITY OF DES MOINES, IOWA**

AGENDA:

SYNOPSIS -

JUNE 17, 2002

SUBJECT:

PROCUREMENT OF
EMERGENCY
REPAIR AND
REPLACEMENT
PARTS OF
AIR HANDLING
UNIT #2 AT WRF

The cooling part of the Air Handling Unit #2, located in Building 70 at the Wastewater Reclamation Facility (WRF) is in need of repair and replacement of certain components. This Air Handling Unit is responsible for cooling the area control center, the press floor office and the electrical room on the second floor. All the press drives are located in the electrical room. Without air conditioning, and rise in temperatures above 95 degrees, possible damage could occur to these drives. In the area control center, there are numerous computers and network servers along with related items. These computers and servers direct the process control of the plant. Without air conditioning, possible damage to the computer system may occur. The unit is approximately 14-years old. Due to the corrosive atmosphere in the building created by hydrogen sulfide given off by the sludge processing, the cooling portion of the unit needs to be replaced prematurely. Damage and malfunctioning of the unit was not determined until the weather started to warm, on or about May 15, 2002, when the unit was switched to cool.

TYPE:

RESOLUTION
ORDINANCE
RECEIVE/FILE

Without the use of the press floor and the computerized process control systems, possible failure of the treatment process may occur violating the effluent quality standards.

SUBMITTED BY:

WILLIAM STOWE
PUBLIC WORKS
DIRECTOR

Three phone bids were requested and received. Excel Mechanical was the low bid.

Sec. 2-725(g) states that the City Council may, on a case by case basis, and upon the recommendation of the City Manager and for good cause, exempt contracts for the provision of goods and/or services from the competitive bidding requirements.

FISCAL IMPACT -

The bid for repair and parts replacement is \$27,986. Funding for the procurement of these services is budgeted in Index code ENG990000, Subsubject Code 543020 and Project Code WRA070.

RECOMMENDATION -

That Excel Mechanical perform the following work:

- 1. Install new refrigeration piping from the condensing unit on the roof to the evaporative coil in the air handler.**
- 2. Insulate all suction line piping.**
- 3. Install new condensing unit on the roof of Building 70.**
- 4. Install new evaporative coil in the existing air handler.**
- 5. Install isolation valves, solenoid valves, and in-line dryers.**
- 6. All equipment and coils to be heresite coated.**

BACKGROUND -

Under the present operating conditions, we are constantly battling corrosive conditions. By replacing this unit with a heresite treated unit, it will allow the unit to have an expanded lifetime - saving down time and operational cost.

The WRF solicited three contractors for competitive bid. The low bid is Excel Mechanical. The WRF staff recommends awarding the bid to Excel Mechanical.
