



**CITY COUNCIL
COMMUNICATION:**

ITEM _____

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

98-229

SYNOPSIS –

AGENDA:

JUNE 1, 1998

SUBJECT:

**PROFESSIONAL
SERVICES
AGREEMENT –
ENGINEERING
SERVICES: PHASE
TWO OF PROCESS
SAFETY
MANAGEMENT
STUDY AT THE
WRA
WASTEWATER
TREATMENT PLANT**

An amendment to the professional services agreement has been negotiated with the professional engineering firm of CH2M Hill, Inc., 411 East Wisconsin Avenue, Suite 1600, Milwaukee, Wisconsin, 53202-4421, Ralph R. Peterson, President. This amendment will provide engineering services for Phase Two to perform work, as described in Phase One of the study, to complete the Process Safety Management (PSM) and Risk Management Program (RMP) requirements and bring the Wastewater Reclamation Authority (WRA) Regional Wastewater Treatment Plant into full compliance with Federal Requirements of the Clean Air Act.

FISCAL IMPACT –

TYPE:

**RESOLUTION
ORDINANCE
RECEIVE/FILE**

The proposed agreement is a cost plus fixed fee arrangement and provides for professional engineering services for the study. The proposed fee for such work is \$82,035 plus a fixed fee of \$9,732 which results in a total maximum fee of \$91,767 for this agreement.

**SUBMITTED BY:
HAROLD SMITH
CITY ENGINEER**

Funds to support this study will be provided by fund account number 396267 found on page 368 of the 1998/99 Capital Improvements Program utilizing funds on hand from the WRA Wastewater Treatment Plant Operating Budget.

RECOMMENDATION –

Approval of the proposed Engineering Services Agreement with CH2M Hill, Inc.

BACKGROUND –

In 1986, Congress passed the framework for emergency

planning efforts through Title III of the Superfund Amendments and Reauthorization Act (SARA), also known as the Emergency Planning and Community Right-to-Know Act (42 U.S.C. 11001 et seq.). SARA encourages and supports states and local communities in efforts to address the problems of chemical releases. Under Section 302 of SARA, 42 U.S.C. 11002, the Environmental Protection Agency (EPA) was required to publish a list of extremely hazardous substances with threshold planning quantities which would trigger planning in states and local communities (52 FR 13378).

The WRA wastewater treatment facility has two of the listed chemicals, chlorine and sulfur dioxide, as used in the disinfection process; and methane, which is a component of the digester gas system, that exceed the threshold quantity on the *List of Highly Hazardous Chemicals, Toxic and Reactives*. Digester gas is typically 65 percent methane with 26 grains per 100 cubic feet hydrogen sulfide. The high-pressure digester gas storage sphere at the wastewater treatment facility holds 144,000 cubic feet of gas at 45 pounds per square inch gauge. Calculations show that this flammable gas exceeds the 10,000-pound threshold quantity listed in the regulations.

On September 22, 1997, by Roll Call No. 97-3160, the City Council gave approval for the Mayor to execute a Professional Services Agreement with CH2M Hill, Inc. of Milwaukee, Wisconsin, to provide engineering services for Phase One of the WRA Process Safety Management Study. Phase One of the study has been completed and provides an appraisal of the existing Wastewater Treatment Plant procedures that are already in place concerning the mentioned regulations as well as the Wastewater Treatment Plant processes that may be subject to them. The study identifies the status of the WRA Wastewater Treatment Plant with regard to its compliance with the federal regulations. The Amendment to Agreement for Phase Two will recommend and provide assistance for implementation of appropriate steps to be taken by the WRA Wastewater Treatment Plant staff for compliance with the mentioned federal regulations that apply to this facility. This action is intended to begin activities that will prevent or minimize the consequences of potential catastrophic releases of toxic chemicals at the facility.

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