

COUNCIL ACTION FORM

SUBJECT: **POWER PLANT UNIT #8 CRANE RENOVATION**

BACKGROUND:

This project is for materials, equipment, and labor necessary for the installation of equipment related to the renovation of the Unit #8 crane. The Unit #8 crane is original equipment from the construction of Unit #8 which was built in 1967. The crane is used to do overhauls and repairs on the #8 turbine/generator and to hoist other plant material and equipment from the sub-basement and basement into the plant.

The crane has reached a point where it is in need of a major overhaul and modified with updated controls and drives. It has been recommended to install either radio control or a pendant control for the equipment to be more reliable. All the hoisting motors are recommended to be replaced with variable frequency drives (VFDs) for better control. All brake systems also need to be replaced on the carriage and on the rails.

Due to its age and everyday use, the crane has become unreliable and requires frequent maintenance to ensure safe and reliable operation during lifts. **Additionally, the manufacturer of the crane has identified a common failure mechanism in the thin rim pinions on the hoist and recommends replacement.** The replacement of the thin rim pinions alone is over half the cost of an entire replacement with updated controls and drives. The main crane is currently “tagged” out of service until repaired.

An engineer’s estimate for this project, is \$379,500. Since this project has not been included in Electric Services budget, funding for this project will come from savings in budgeted amounts for the Unit #7 Turbine Generator Overhaul CIP project, which has \$709,000 remaining.

ALTERNATIVES:

1. Approve the preliminary plans and specifications for the Unit #8 Crane Renovation and set July 15, 2020, as the bid due date and July 28, 2020, as the date of public hearing and award of contract.
2. Delay the repair which could eventually render the crane unreliable and potentially create unsafe crane operation.

MANAGER'S RECOMMENDED ACTION:

The crane is critical plant equipment used in completing major work on the turbine/generators. Therefore, it is the recommendation of the City Manager that the City Council adopt Alternative No. 1 as stated above.