

**COUNCIL ACTION FORM**

**SUBJECT: WATER POLLUTION CONTROL FACILITY SWITCHGEAR CONTROL REPLACEMENT PROJECT**

**BACKGROUND:**

The Water Pollution Control (WPC) Facility's automatic switchgear is used to control a standby diesel engine generator set. When there is an electrical utility failure or when initiated by the operator, the switchgear sends a start signal to the generator. Once the controls sense that the generator is running, breakers are tripped to operate the facility on generator power instead of utility power. Once utility power is available again, the controls switch the power supply back to normal operation.

This project solicits bids from qualified contractors for the rehabilitation of the relay logic-based automatic controls in the existing automatic switchgear at the WPC Facility. The existing switchgear was manufactured by States Electric of Minneapolis, MN and was placed in service in the mid 1980's. This legacy control system has now reached the end of its useful life cycle. In order to assure reliable operation of the WPC Facility, the Long-Range Facility Plan completed in 2012 recommended that the existing relay logic controls be replaced with a modern, Programmable Logic Control (PLC) based system.

This project is included in the 2013/14 Amended Capital Improvements Plan as part of WPC Electrical System Maintenance Project at \$117,500. An engineering consultant's contract has already been awarded in the amount of \$4,300. The anticipated cost for the general contractor and any possible subcontractors is \$100,000.

**ALTERNATIVES:**

1. Grant preliminary approval to the plans and specifications and issue a Notice to Bidders, setting June 12, 2014 as the bid due date and June 24, 2014 as the date for public hearing and award.
2. Do not approve plans and specifications at this time.

**MANAGER'S RECOMMENDED ACTION:**

The electrical switchgear is an integral and vital component of the WPC Facility that is necessary for the operation of the plant. It is in the City's best interest to maintain this unit in a high degree of reliability. The proposed replacement of the switchgear is consistent with the Long-Range Facility Plan completed in 2012. Therefore, it is the recommendation of the City Manager that the City Council adopt Alternative No. 1 as stated above.