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Department of Utilities
Wastewater Treatment Facility
2006 E Newberry St
Appleton, WI 54915-3128
920-832-5945 tel.
920-832-5949 fax

TO: Chairperson Kathy Plank and Members of the Finance Committee

FROM: Utilities Director Chris Shaw

DATE: Thursday, February 07, 2019

RE: *Change Order #1 to INS Industrial in an amount not to exceed \$7,000 for the PLC Maintenance Project*

BACKGROUND

The Wastewater Treatment Plant's Supervisory Control and Data Acquisition (SCADA) system software and hardware was installed in 2005-2006. This system is integrated with the Programmable Logic Control (PLC) equipment which controls vital wastewater plant functions such as pumps and aerator blower controls. The key functions of the integrated system are equipment control data retrieval and process monitoring throughout the 35 acre site. This computer control system is essential in maintaining plant operations within Wisconsin Pollution Discharge Elimination System Permit (WPDES) limits.

This project is being managed by staff at the wastewater plant. This includes hardware such as computer servers, racks, PLCs, as well as multiple software upgrades. It should be noted that Information Technologies has also had a role with selection of equipment and technical issues.

CHANGE ORDER #1

Scope items under this change order include:

1. Configure iFix system to include Lift Station SCADA – Test and modify if needed, make fully functional utilizing M11/MBE/IGS driver communications with ACE (Moscad) PLC
2. Install SCADA redundancy to fix data communications issue and make the system fully functional

SUMMARY

The PLC Maintenance Project had a 2018 budget of \$158,500. Prior to this change order the project had expenses totaling \$125,523.67. With CO #1 included the project will have \$132,523.67 in expenses. The remaining project budget is \$25,476.33