



WEST DES MOINES WATER WORKS BOARD OF TRUSTEES MEETING COMMUNICATION

DATE: March 22, 2023

ITEM:

6. Recommendations from Staff
 - a. Motion – Accepting Price Quotation and Authorizing Purchase and Installation of PLC and Touch Screen Operator Interface

FINANCIAL IMPACT:

The cost for this upgrade is \$33,381.00. Funds will be taken from (00800-120-23016). The Capital Outlay budget contains \$300,000 for SCADA System Upgrades in FY 2023.

SUMMARY:

The capital funds will replace the PLC and touch screen on the filter press at our treatment plant.

Automatic Systems Co. (ASC) has been our sole provider of SCADA services and will be performing this work. Using ASC as a sole source is in the best interests of the West Des Moines Water Works because they have detailed, specialized expertise on our existing SCADA system. They will be able to streamline the conversion of our existing system to the updated system and provide the necessary consistency for future troubleshooting.

BACKGROUND:

The current PLC and associated components are outdated, no longer supported, and won't communicate with the newer PLC's that have been installed at the treatment plant. The use of ASC as our provider will support our mission to maintain reliability and security of our water utility. The quote has been reviewed and is in line with industry expectations for costs.

RECOMMENDED ACTION BY THE BOARD OF TRUSTEES:

To Concur with the Recommendation of Staff Accepting the Price Quotation and Authorizing Purchase and Installation of PLC and Touch Screen Operator Interface

Prepared by:  _____

Approved for Content by:  _____



AUTOMATIC SYSTEMS CO.

Mr. Mitch Pinkerton
West Des Moines Water Works
1505 Railroad Avenue
West Des Moines, IA 50265

February 17, 2023

SUBJECT: West Des Moines, IA WTP – Filter Press Controls Upgrade

Mr. Pinkerton,

We are pleased to offer the following proposal for the controls upgrade of your Filter Press Control Panel with the latest technology consisting of a new replacement PLC and touchscreen operator interface.

The programmable logic controller (PLC) & operator interface in the existing Filter Press Control Panel have been discontinued by the manufacturers along with the associated hardware and are beyond their useful operating life. Procurement of replacement parts for the existing PLC & HMI have elevated costs and long lead times. The new equipment will provide Ethernet communication to replace the antiquated DH+.

Our proposal includes equipment and services as detailed below.

Filter Press Controls Upgrade

A One (1) **Existing Filter Press Control Panel modifications**, to include the removal of existing PLC and HMI and with the installation of new PLC, HMI, and Ethernet switch as detailed below.

Proposed panel modifications shall be complete with the installation of a new Allen-Bradley PanelView Plus 7 Performance 9” Touchscreen, Allen-Bradley CompactLogix Programmable Logic Controller (PLC), I/O cards, fiber optic Ethernet switch, fiber optic jumpers, power supplies, fusing, terminals, and internal panel wiring.

B One (1) **Professional Services**, to include engineering, PLC programming, HMI programming and onsite field services to include panel modifications, start-up, testing and operator training.

C One (1) Update of existing **Installation, Operation and Maintenance Manuals**.

Your net price for Items A through C, FOB factory with **freight allowed** to jobsite including **one (1) year warranty** from date of startup (not to exceed 18 months from date of shipment).....**\$33,381.00 PLUS TAX.**

The above price for Items A through C **does not** include any:

- 1. Sales or use taxes.
- 2. Bond costs.

MANUFACTURER’S REPRESENTATIVES

- MAIN OFFICE P.O. BOX 120359
- BRANCH OFFICE P.O. BOX 787
- BRANCH OFFICE

SYSTEMS INTEGRATION

- ST. PAUL, MINNESOTA 55112 PHONE 651-631-9005
- AMES, IOWA 50010 PHONE 515-232-4770
- CHICAGO, ILLINOIS PHONE 815-927-3386

INSTRUMENTATION

- FAX (651) 631-0027
- FAX (515) 232-0795
- FAX (651) 631-0027

3. License fees or permits of any kind.
4. Interconnecting wire, cables, or conduits between control panels, MCCs, workstations, and primary devices.
5. Instrumentation of any kind.
6. Labor or any other miscellaneous materials that may be required for installation not specifically detailed above.

Thank you very much for the opportunity of providing you with the above proposal, should you wish to proceed with an order please sign on the space provided below and return a copy to this office.

We look forward to hearing from you, should you have any questions please don't hesitate to give me a call.

Sincerely,



Jake McFarland
Automatic Systems Company

Accepted by: _____	Date: _____
Items Accepted: _____	Purchase Order No: _____
Purchase Order Amount: _____	