



SYSTEMS
INCORPORATED

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2017 WP-1075
Final

January 19, 2017

City of Aurora
1111 Aurora Ave.
Aurora, IL 60506

Cone 5

Cone No. 5 was installed in 2002 and utilizes an Allen Bradley 5/04 processor. The AB 5/04 processors use DH+ communications are being phased out of production.

Scope

- Furnish and install (1) Allen Bradley 5/05 processor.
- Furnish and install (1) Ethernet switch.
- Furnish and install (1) power supply.
- Provide PLC programming in the new processor for Cone No. 5.
- Provide SCADA iFIX programming / integration for this upgrade to existing SCADA screens.
- Remove existing DH+ communication link from Cone No. 5 PLC and replace with Ethernet link to SCADA system.
- Assist Corey with routing of new Ethernet communication cabling back to SCADA system server rack.
- Provide startup and training for WPD staff of new PLC equipment and control screens.

Material

Price: Seven Thousand (\$7,000.00) Dollars

Labor

Price: One Thousand One Hundred Fifty (\$1,150.00) Dollars

Total

Price: Eight Thousand One Hundred Fifty (\$8,150.00) Dollars

TRI-R Systems offers a 1 year warranty for all parts and labor under this proposal.

If you have any questions, please call.

Sincerely,
TRI-R Systems Incorporated

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Sample Lab 2

Sample Lab No. 2 was installed in 2002 and utilizes an Allen Bradley 5/04 processor. The AB 5/04 processors use DH+ communications are being phased out of production.

Scope

- Furnish and install (1) Allen Bradley 5/05 processor.
- Furnish and install (1) Ethernet switch.
- Furnish and install (1) power supply.
- Provide PLC programming in the new processor for the sample lab analyzers.
- Provide SCADA iFIX programming / intergration for this upgrade to existing SCADA screens.
- Remove existing DH+ communication link from sample lab PLC and replace with Ethernet link to SCADA system.
- Assist Corey with routing of new Ethernet communication cabling back to SCADA system server rack.
- Provide startup and training for WPD staff of new PLC equipment and control screens.

Material

Price: Seven Thousand (\$7,000.00) Dollars

Labor

Price: One Thousand One Hundred Fifty (\$1,150.00) Dollars

Total

Price: Eight Thousand One Hundred Fifty (\$8,150.00) Dollars

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Filters 9-12

Filters 9-12 were installed in 2002 consisting of Allen Bradley 5/04 processors and operator interface touchscreens (OIT's). The AB 5/04 processors use DH+ communications between control panels. The OIT's are no longer available. The newer operator interface touchscreens are Ethernet based and do not support DH+ communications. In order to update the OIT's the processors must be updated at the same time.

Scope

- Furnish and install (2) Allen Bradley 5/05 processors.
- Furnish and install (2) Ethernet switches.
- Furnish and install (2) power supplies.
- Furnish and install (2) color touchscreens.
- Provide PLC programming in each new processor for the filter controls.
- Provide SCADA iFIX programming / integration for this upgrade to existing SCADA screens.
- Remove existing DH+ communication link from filter consoles No. 9-10, 11-12 and replace with Ethernet link to SCADA system.
- Assist Corey with routing of new Ethernet communication cabling between consoles and back to SCADA system server rack.
- Provide startup and training for WPD staff of new PLC equipment and control screens.

Material

Price: Twenty Six Thousand (\$26,000.00) Dollars

Labor

Price: Five Thousand Seven Hundred Fifty (\$5,750.00) Dollars

Total

Price: Thirty One Thousand Seven Hundred Fifty (\$31,750.00) Dollars

TRI-R Systems offers a 1 year warranty for all parts and labor under this proposal.

If you have any questions, please call.

Sincerely,
TRI-R Systems Incorporated