



PROPOSAL

Johnson Controls, Inc.
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Dr. Kevin Nohelty
Harvey School District 152
16001 Lincoln Avenue
Harvey, IL 60426

Date: December 10, 2015

Re: Metasys BAS Upgrade to Extended Architecture

Dear Dr. Nohelty,

Thank you for talking with us last month to discuss the aforementioned opportunity. As we discussed, school district's Metasys Building Automation System is approximately 20 years old. The building level Network Control Modules (the district currently has 8 NCMs) and their respective field controllers are currently supported by JCI. However, product discontinuation notices have been sent to all North America JCI branches. These products will no longer be manufactured after 2015 and are both increasingly and difficult to service/replace.

The latest version of Metasys (Extended Architecture) utilizes Web-based Network Automation Engines (NAEs) with a variety of field controller communication protocols (BACnet, LON, MODbus, etc.). Because of your initial investment in the Ethernet NCMs, an upgrade to Metasys Extended Architecture is fairly straight forward. The NCMs will be replaced with Network Automation Engines (NAEs), field controllers would remain, and the NAEs will provide supervisory control, point mapping between components, etc.

The extended architecture web-enabled platform will allow the district's personnel to access the system on these NAEs via a standard Web browser installed on a desktop, laptop, tablet, smart-phone, or other PC platform connected to the school district's LAN. Because of the size of the district's system, a new Application Data Server (ADS) will be needed as the NCMs are replaced with NAEs. Ideally, this server would be installed in one of the district's server and conditioned IT rooms. All of the database/programs in the NCMs will also be stored in the ADS.

PRICING TO INSTALL NEW NETWORK ENGINES AND A NEW APPLICATION DATA SERVER

IS:\$122,000.00

IF A DISTRICT VIRTUAL SERVER IS AVAILABLE FOR JCI TO UTILIZE, DEDUCT FROM THE ABOVE:

.....\$10,000.00

Exclusions/Clarifications:

- JCI is not responsible for the operation of existing field equipment (i.e. air flow measurements, dampers, actuators, valves, sensors, etc.).
- Existing conduit, wiring, and panels will be used. JCI is not responsible for the condition of the existing wiring.
- Cutting, patching, or painting is not included in pricing.
- Any labor or materials not specifically included in the "Work Proposed" section above are excluded.
- All work to be done during normal working hours.

If there are any questions or problems, please do not hesitate to call.

Thanks,

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