



FMC Technologies, Inc.
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March 8, 2016

Mr. Tony Tusia
Brooklyn Schools
119 Gorman Road
Brooklyn, CT 06234

RE: Brooklyn Middle/Elementary Schools – EMS Upgrade

Dear Tony:

We are pleased to provide the following quotation for upgrades to the Energy Management System at the Brooklyn Middle/Elementary Schools.

Scope of Work

The school presently has two (2) primary control system manufacturers as part of the building-wide Energy Management System (EMS). This includes Novar LOGIC ONE Trend Controls and Distech. Presently, these systems operate independent of each other, with a separate software package for each system. Because Novar and Trend are "sister" companies (both owned by Honeywell) there is a product that will integrate the two systems into a common front end, and then will connect to the Distech Jace.

Here is what we propose:

- **Novar System**
 - Remove the two existing Lingo's and baseplate and replace with a Trend TL-1 (Trend to Logic One) controller.
 - Note: Network connectivity by owner
 - Upgrade the PROM version of any Novar hardware that needs an upgrade to be compatible with the TL1.
 - Note: All existing Novar Logic One field hardware will remain.
 - Reprogram all system input/output points as required.
- **Trend System**
 - Install and new Trend IQ4 Router which will be used to communicate with the existing Trend controllers.
 - Note: Network connectivity by owner
- **Distech**
 - The Distech "Jace" will remain as is
- **New Front End**
 - Furnish and install a new rack-mounted server to be installed in an IT closet.
 - Note: Network connectivity by owner

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- Furnish and install new graphical user Interface software.
- Create a new graphical user interface for monitoring and control of the following:
 - Floor plans
 - Equipment pages
 - Trend logs, alarms, etc.
 - Owner training (8 hours)

Pricing

Our budget price to complete this work is ... ***\$58,000.00***

Clarifications

- All work to be completed by non-union electrician and technicians during normal working hours.
- We have not included repair or replacement of existing Novar controllers.

Please review this quotation and do not hesitate to contact me if you have any questions.

Sincerely,

Brian S. Crafts
President

cc: Joe Preble, FMC