



Northumberland County Public Schools

Request for Proposal

Northumberland County Public Schools is requesting a proposal to upgrade the existing Microtech II unit controller on select units to our new current Microtech III controller to include the following capabilities:

Selected Equipment:

1. High School Gym Unit
2. Middle School Gym Unit
3. High School Dining Hall Unit
4. Middle School Dining Hall Unit
5. Auditorium Unit

Each unit will receive the following overall upgrades:

1. New Microtech III control to operate the unit, which will include the following compatible items:
 - a. All new sensors
 - b. New actuators for the dampers
 - c. New building pressure sensors
 - d. Replace room sensor (Gym & Dining Hall Only)
 - e. New control relays
2. Lon Communication Card for the Microtech III
 - a. Allows the unit to communicate to the existing BAS system
3. Installation of an Ebtron Gold Air Flow Station in the Outside Air Intake of the Rooftop Unit
4. Install CO2 Sensor in the return air ductwork
5. Gym & Dining Hall Units
 - a. Install VFDs on the supply air fan motors
 - b. Replace the exhaust fan VFDs (Gym Only)
 - c. Building Exhaust Fans EF-C3 & EF-D4 (Dining Hall Only)
 - i. Convert constant flow to variable flow exhaust
 - ii. Replace the motor on the exhaust fan from single phase to three phase
 - iii. Install a VFD in the RTU for control of the exhaust fan motor
 - iv. Install power wiring between the RTU and the exhaust fan
6. Auditorium Unit
 - a. Replace both supply and exhaust fan VFDs
 - b. Replace the down duct static sensor
7. BAS Work
 - a. Have a BAS company reconnect RTU to the BAS system
 - b. Revise graphics as needed to view the RTU
8. Test & Balance
 - a. Once the unit is operational, have a T&B company check and confirm the outdoor air flow as compared to the new Ebtron Air Flow Station

Proposals should be submitted to the Office of the Superintendent at 2172 Northumberland Highway, Lottsburg, VA 22511 by 2 p.m. on April 30, 2019.

Contact Mr. Cris Kallenberger to schedule a site visit of the project (804) 580-0754.