

Scotch Plains-Fanwood School District Ventilation Assessment Update December 17, 2020



Overall Summary

Every room in the district has been inspected and remediations have been addressed.

A follow up inspection by Environmental Safety Management Corp. (ESMCorp) took place on November 10, 2020. This re-inspection and ventilation measurement revealed a substantial increase in classroom airflows. Most full-sized classrooms are projected to support an average of 12 occupants per classroom during the pandemic while meeting the ASHRAE 62 guideline of 15cfm outdoor air per person. (depending on classroom size and air flows).



Completed Projects

- All Univentilator motors have been repaired or replaced where needed.
- All dampers have been set to 40% minimum outdoor air introduction.
- Outdoor dampers on the Univentilators, Air Handling Units (AHU) and Roof Top Units (RTU) have been repaired so mechanical equipment can provide mechanical outdoor air (OA) ventilation.
 - Repaired pneumatic air leaks for all schools, with exception of 2 at the HS (see in process).
 - Reconnected pneumatic lines to actuators.
 - Repaired or replaced pneumatic actuators and components for all schools where needed, with exception of 4 at McGinn (see in process).
 - Repaired or replaced electronic actuators and components.
 - Reconnected or replaced actuator linkages.
 - Inspected all room thermostats and other controls, replaced or reset thermostats where needed.
 - Ensured ALL outdoor air dampers for ALL equipment is operational when equipment is on and school is occupied. Outdoor air dampers are open for at least two hours before school is occupied and two hours after school occupancy has ended.



Completed Projects (continued)

- Outdoor air dampers have been cleaned.
- Equipment coils have been cleaned which will minimize airflow restrictions.
- Replaced all rooftop and univentilator air filters.
- Provided portable air purification HEPA units in rooms without windows.
- New exhaust fans have been installed in toilet rooms where needed.



Work In Progress

- Exhaust fan motors need replacement in the locker rooms at Park Middle School, some faculty bathrooms and in various nurses' offices.
 - Outside contractor needed to install exhaust fan in locations where they do not exist.
- Need to repair pneumatic air leak at the HS, univent is currently working and running with fresh air.
- McGinn has 4 rooms that need repair to the pneumatic actuators, all are working, the damper is locked in open position. All have been set to 40% minimum outdoor air introduction.



Long Term Solutions

Long term recommendations will be prioritized in our long range facilities plan.