



FACILITIES REOPENING COVID PREPARNNESS PRESENTATION

Children come first, Los niños son primero”

Alfonso Q. Llano Jr., Acting Superintendent of Schools

PREPARED BY:

Dwayne Mosley, Facilities Administrator

Jayne S. Howard, School Business Administrator/Board Secretary

As of: December 14, 2020

CONTENTS

- Part I: Mission
- Part II: Vision
- Part III: Investments/Enhancements
- Part IV: Cleaning/Disinfecting/ Sanitizing
- Part V: Terms/Definitions
- Part VI: Swiss Cheese Model of Pandemic Cheese
- Part VII: Ventilation Status
- Part VIII: Projects
- Part VIX: Conclusion

MISSION STATEMENT

All Students will graduate with a vision for their future, motivated to learn continually and prepared to succeed in their choice of college or career.

BUILDINGS & GROUNDS VISION

The purpose of the Buildings & Grounds Department is to provide a clean, healthy, safe, and educational environment conducive to learning.

INVESTING IN A SAFE AND HEALTHY REOPENING FOR STAFF AND STUDENTS

The Trenton Public Schools (TPS) values the health and well-being of our students, staff, and families.

Health and safety are our number one priorities. TPS is committed to following all applicable regulations including the CDC guidelines and NJDOE's The Road Back School Reopening guidance.

- Social distancing where students and staff must maintain six feet
- Wearing of face masks for staff and students
- Providing sanitation station
- Signage
- Developing staggered entrance and exit plans for students
- Checking temperatures of all students, staff, and visitors
- Contact tracing procedures
- Social-emotional supports for students and staff
- Isolation-wellness rooms for sick students and staff

INVESTING IN A SAFE AND HEALTHY REOPENING FOR STAFF AND STUDENTS

Health and Safety Enhancements

- Developed standard operating procedures for all staff, students, and visitors. Everyone will be subject to a health screening prior to gaining school entry.
- Purchased equipment to enhance disinfection protocols
 - Backpack and handheld sprayers to disinfect every classroom, bathroom, and shared spaces on a structured schedule
 - Hand sanitizing stations placed in strategic locations in every district building
 - Hand washing stations placed in strategic locations in all schools
 - Cleaning supplies for all staff members to use in classrooms
- Purchased face masks for students and staff
- Purchased face shields and disposable gloves for staff members
- Establishing and coordinating contact tracing procedures with local health officials
- Established a district, city health department and local health agency partnership in coordinating a response to Covid-19

INVESTING IN A SAFE AND HEALTHY REOPENING FOR STAFF AND STUDENTS

Facilities Enhancements

The Building & Grounds Team executed the following investments and enhancements:

- Hired additional custodians in every school to support protocols to sanitize and disinfect
- Hired temporary maintenance staff (Carpenters, Electricians, Painter, and Mason to support facility upgrades)
- Purchased new I-Pads for cleaning & maintenance programs for head custodian & maintenance foremen
- Installed thermal monitoring systems at school entrances to screen multiple students and staff members
- Installed temperature detection units at building entrances
- Purchased handheld touchless digital thermometers
- Installation of plexiglass protection barriers in high traffic areas and for staff and students
- Installation of signage throughout all buildings

BODY TEMPERATURE DETECTION DEVICES



All non-educational facilities & school main entrances and other designated entry points will have one or more of the multiple types of non-contact Body Temperature Measurement detection units to monitor school staff, students, parents and visitors.



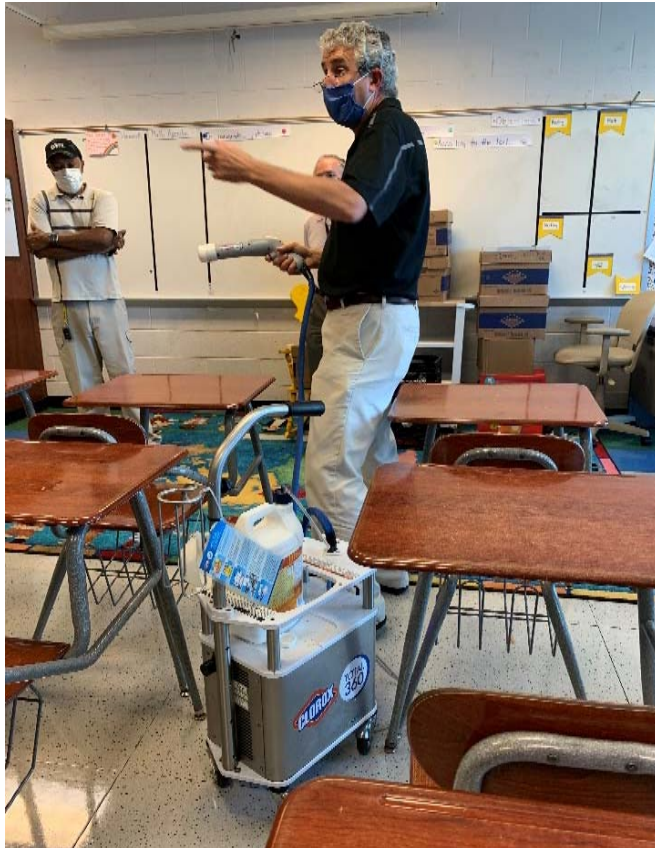
STATIONERY & MOBILE SANITIZING STATIONS



Stand alone hand sanitizers will be placed at the entrance doors of all facilities. Wall-mounted hand sanitizers will be mounted throughout the facilities.



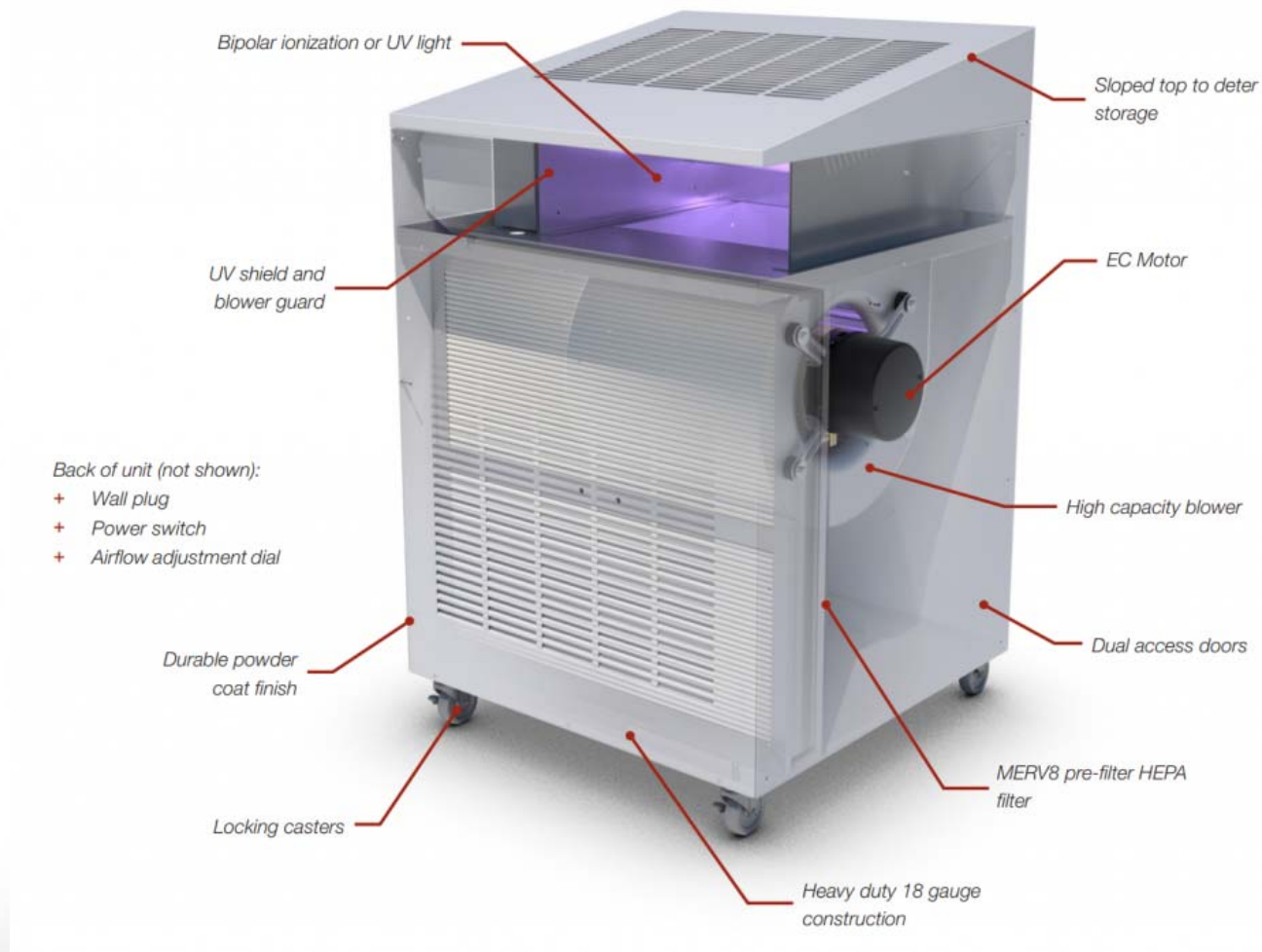
ELECTROSTATIC SANITIZING SPRAYERS



The District purchased electrostatic sanitizing machines to disinfect classrooms & multi-purpose spaces.



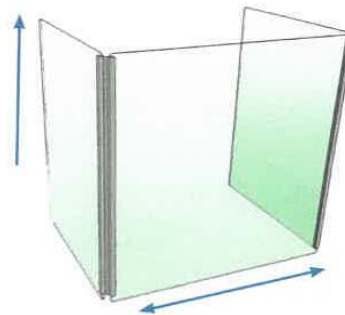
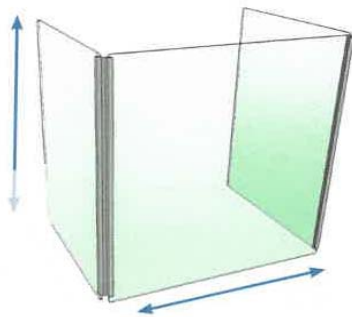
AIR PURIFIER



DESK SHIELDS



FOLDING
DESK
SHIELD



CLEANING, DISINFECTING, AND SANITIZING

- All facilities will be cleaned and sanitized daily; also following any scheduled activities.
- Surfaces shall be cleaned using soap and water or other appropriate cleaning substance. Frequently touched surfaces routine cleaning shall include: Tables, doorknobs, light switches, countertops, handles, desks, phones, keyboards, toilets, faucets, sinks, all electronic devices, etc., and a disinfectant will be applied.
- An EPA-registered household disinfectant is being used.
- Soft surfaces such as carpeted floors, rugs, and drapes can be cleaned by appropriate sanitizing solution.

TERMS/DEFINITIONS

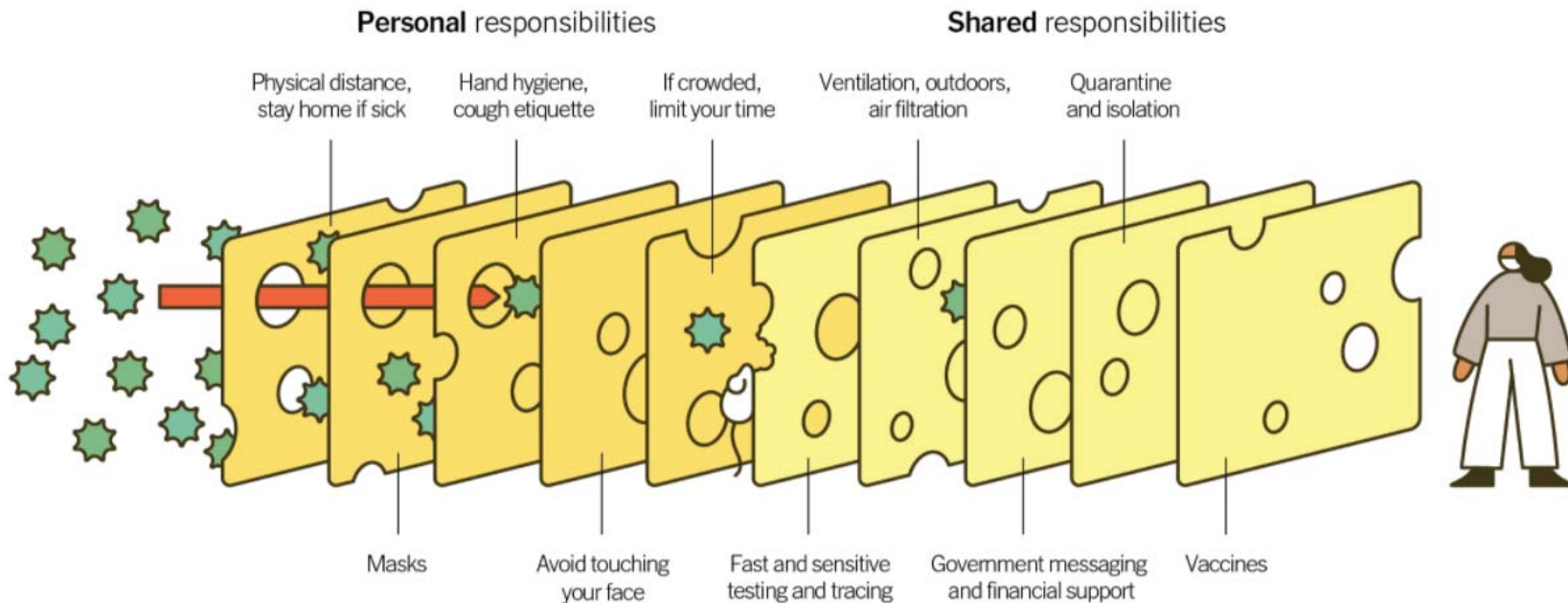
- **ACH – Air Changes Per Hour:** The ACH rate for a room identifies how many times the air in that room gets replaced every hour.
Example: Keeping in mind that volume is equal to height x width x length; A room that is 10 feet high x 20 feet wide x 30 feet long has a volume of 6,000 cubic feet. In order to achieve 6 ACH's in this room, the required air volume would be calculated using the formula below:
Air Volume = ACH rate x Room Volume / 60 or Air Volume is 600 CFM to achieve 6 ACH
- **CFM – Cubic Feet Per Minute:** Refers to the volume of air that is the standard benchmark unit for HVAC engineering. Each CFM represents one cubic foot of air moving through a space in the timespan of one minute.
- **HEPA Filter – High Efficiency Particulate Air Filter:** A HEPA filter can theoretically remove at least 99.97% of dust, pollen, mold, bacteria, and any airborne particles with a size of 0.3 microns (μm).
- **HEPA Scrubber:** This is a piece of equipment that contains a fan, a HEPA filter, a pre-filter (typically a MERV 8) that protects and prolongs the life of the HEPA filter.
- **MERV – Minimum Efficiency Rating Value:** MERV rating is a system used to evaluate the efficiency of an air filter based on how effective it is at catching particles of varying sizes. The higher the MERV rating, the higher the air filtration capabilities of a specific filter. This rating allows users to compare the performance of different filters. In simplest terms; the higher the MERV rating, the better the filter is at trapping specific types of particles. The MERV rating scale runs from a 1 up to 16.
- **Outdoor Air:** Also known as Fresh Air and its air drawn into the space or HVAC unit from outside the building.
- **Ventilation:** The introduction of outdoor air into a space. Ventilation is a key component of indoor air quality by allowing for the dilution of indoor pollutants.

Schools	% Functional Windows	Ventilation	Filter Changes (Semi-Annual)	Exhaust Fans	Air Purifiers REQUIRED
Columbus	100%	HVAC/UVs	7/17/20	Replaced	Fresh Air Available
Franklin	75%	HVAC/UVs	7/27/20	Repaired	Fresh Air Available
Grant	100%	HVAC/UVs	7/29/20	Repaired	Fresh Air Available
Gregory	100%	HVAC	7/29/20	Replaced	Fresh Air Available
Harrison	75%	HVAC	8/5/20	Repaired	Fresh Air Available
Hill	100%	HVAC/UVs	7/31/20	In Progress	Fresh Air Available
MLK Jr.	100%	HVAC	8/6/20	Replaced	Fresh Air Available
Monument	100%	HVAC/UVs	8/22/20	Replaced	Fresh Air Available
Mott	100%	HVAC	8/11/20	In Progress	Fresh Air Available
Parker	100%	HVAC	8/11/20	In Progress	Fresh Air Available
Robbins	50%	N/A	8/13/20	Replaced	80% Required
Washington	100%	UVs	8/14/20	Replaced	Fresh Air Available
Wilson	100%	HVAC/UVs	8/14/20	Replaced	Fresh Air Available
Dunn	50%	HVAC/UVs	7/25/20	In Progress	Fresh Air Available
Hedgepeth-Williams	100%	Unit Vents	7/25/20	Replaced	30% Required
Kilmer	100%	HVAC/UVs	8/3/20	Replaced	Fresh Air Available
Rivera	75%	HVAC/UVs	8/7/20	Replaced	Fresh Air Available
Restorative Academy	100%	HVAC/UVs	7/14/20	Replaced	Fresh Air Available
Daylight/Twilight	100%	HVAC	7/22/20	In Progress	Fresh Air Available
TCHS – Main	100%	HVAC	9/16/20	Warranty	Fresh Air Available
9 th Grade Academy	N/A	HVAC	8/22/20	Repaired	Fresh Air Available

THE SWISS CHEESE MODEL OF PANDEMIC DEFENSE

Multiple Layers Improve Success

The Swiss Cheese Respiratory Pandemic Defense recognizes that no single intervention is perfect at preventing the spread of the coronavirus. Each intervention (layer) has holes.



REQUIRED MAINTENANCE PROJECTS 2021 CONSTRUCTION: PROPOSED

- **Trenton Central HS Main** – Former Boiler House new additions and renovations (date of completion 8/21)
- **9th Grade Academy** – Construction of new addition through renovations of the existing space & Roof Replacements (date of completion 8/21)

Proposed Projects for 21-22

- **Trenton Central HS West** – HVAC Phase II Upgrades and Steam Traps replacement
- **Daylight/Twilight HS** – Upgrades to existing Camera System
- **Grace A. Dunn MS** – Upgrades to the existing HVAC and various associated system components, Steam Traps replacement, Window Replacement, and Roof repairs/replacements
- **Hedgepeth/Williams MS** - Upgrades to the existing HVAC and various associated system components, Steam Traps replacement & Roof repairs/replacements
- **Robbins ES** – New Windows, New classroom HVAC Units
- **Parker ES**– New Roof Replacement and Gym floor restoration

CONCLUSION

- Safe and healthy school environments for all students and staff on day one

QUESTIONS AND ANSWERS

