



Return to School Updates

#ReopeningAPS



August 31, 2020



#ReopeningAPS

Cleaning and Air Quality Taskforce Presentation



Cleaning and Air Quality in Maintaining Healthy Environments and Operations



HEALTH &
SAFETY

- The CDC's (Centers for Disease Control and Prevention) [considerations for schools](#) provides guidelines and recommendations during COVID-19 to establish healthy environments and maintain healthy operations.
- APS Facilities and Operations will implement CDC's guidelines where possible to include strategies in cleaning and disinfecting, air quality and ventilation, and water systems.



Cleaning and Disinfecting



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APS will provide enhanced cleaning and disinfecting to mitigate transmission of the virus. Enhanced cleaning includes:

- Additional staffing levels at the elementary schools
- Common areas frequently touched surfaces
- Classroom areas between transitions
- School buses between runs

Additional staffing at elementary schools during school day

- Work hours for additional custodians will be 8:00 am – 2:00 pm, Tuesday through Friday.
- Additional staff will be cleaning frequently touched surfaces and providing trash removal after breakfast and lunch.



Cleaning and Disinfecting



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Common Areas

- Frequently touched surfaces outside of classrooms will be cleaned and disinfected at a minimum twice during the school day.
- All areas in school building including frequently touched surfaces will be cleaned at the end of each school day.
- Trash cans will be placed in corridors outside classrooms for food trash and waste.
- Trash will be removed after breakfast and lunch.
- Restrooms will be checked regularly and paper products, hand soap, and hand sanitizer restocked as needed.



Cleaning and Disinfecting



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Classrooms during the School Day

- Large disinfecting wipes will be provided in all classrooms.
- Desks, tables, chairs will be cleaned whenever students transition between classrooms.
- School administrators will determine who is responsible for cleaning during transitions.

School Buses

- Frequently touched surfaces in buses will be cleaned at a minimum between the morning and afternoon runs and at the end of each day.



Cleaning and Disinfecting



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Disinfectant Products used in APS

- APS uses a broad-spectrum viricide, bactericide and fungicide disinfectant in buildings and buses.
- Disinfectant has no added fragrance.
- Disinfectant is used on wipes and in electric sprayers and electrostatic-sprayers.
- Electrostatic sprayers may be used by trained personnel in spaces and on buses where occupants have tested positive for COVID-19.
- Plant Operations and Transportation do not use any bleach products.



Frequently Touched Surfaces



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- ADA Push Plates
- Desk, Tables, Chairs
- Door Handles, Knobs
- Door Panic Bars
- Elevator Buttons
- Entry Glass Doors
- Hand Railings
- Hand Sanitizer Dispensers
- Light Switch Plates
- Paper Towel Dispensers
- Plexiglass Shields in Main Office
- Sink Fixtures
- Soap Dispensers
- Telephones
- Toilet and Urinal Fixtures
- Visitor Management Stations
- Water Bottle Filling Stations



Air Quality and Ventilation



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- Improved and increased ventilation is intended to be used as part of an overall risk mitigation strategy for opening schools during COVID-19 that includes other operational strategies such as wearing masks, social distancing, staggered schedules, good hygiene, signage and barriers, and others.
- Though there are no zero-risk strategies, proper ventilation can mitigate transmission of the virus.
- APS has 38 facilities with complex HVAC systems supporting over 1300 classrooms.
- APS will follow CDC guidelines supplemented by the American Society of Heating Refrigeration and Air Conditioning Engineers (ASHRAE) where possible for in-person learning during COVID-19.



Ventilation



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Air Exchanges

- Ensuring ventilation systems operate properly and meet needs of air circulation based on proposed occupancy levels of each space.
- Increasing ventilation rates where possible without adversely affecting operations and equipment performance.
- Operating air systems two hours minimum before and after each school day.

All classrooms, including interior classrooms, have outside air ventilation according to building code.



Ventilation



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Air Exchanges – Open Window Strategy:

- Windows on school buses will be open year-round for fresh air ventilation while transporting students.
- Windows in classrooms may be opened during fall and spring when temperatures are not too hot, cold or humid and central Heating, Ventilation, And Cooling (HVAC) systems will not be adversely affected.



Ventilation



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Air Filtration

- Continuing preventive maintenance schedule of changing filters at a minimum of four (4) times a year.
- Upgrading filters to MERV-13 (Minimum Efficiency Reporting Values) where possible before in-person learning begins.
- Installing recirculating bipolar ionization units with HEPA (High Efficiency Particulate Air) filters in temporary isolation rooms at each school.



Water Systems



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Ensure All Water Systems are Safe to Use After Prolonged Shutdown

- All water bubblers (e.g., fountains) will be disabled.
- Water bottle filling stations will be available. Bottle filling stations will be cleaned and sanitized at a minimum twice a day.
- All water systems shall be flushed prior to start of school.



Next Steps For In-Person Learning



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- Ensure 10-week supply on hand for all custodial cleaning and disinfectant supplies at each school.
- Verify air systems operating and identify any repairs and maintenance required.
- Complete all outstanding HVAC preventive maintenance and repairs.
- Complete filter changes at every school.
- Identify any building controls issues and make corrective actions.
- Disable all hand dryers in restrooms and ensure paper towel dispensers are installed.
- Disable all water bubblers and ensure all water bottle filling stations operational.
- Flush all water systems.



Task Force Guiding Questions



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- Are there any other big concerns related to cleaning and air quality; have we missed anything?
- How do we encourage students, parents, and staff to understand and play their part in cleaning and maintaining air quality?
- How do we communicate this information to address and allay people's concerns?