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Superintendent

HVAC Considerations

The CDC recommends the following seven steps to create a safe and healthy building for staff, students, and the public. Our district response to these recommendations is in [blue](#) below.

1. Improve ventilation in the building based on local environmental conditions (temperature/humidity) by increasing the percentage of outdoor air entering the space.

[Outdoor air dampers have been set to allow an optimal level of fresh air while balancing humidity/allergen considerations. \(20 cfm of fresh air per person into a space promotes healthy indoor air quality.\)](#)

2. Improve air filtration by increasing filter efficiency to as high as possible without significantly diminishing design airflow.

[As of 9/2/20, filters for all units were changed to the highest filter efficiency level recommended by the equipment manufacturer and supplier.](#)

3. Ensure appropriate filter fit and check for ways to minimize filter bypass.

[Filter surveys are being completed for the purpose of upgrading the HVAC filters in the buildings to linked type filters. The linked filters eliminate filter bypass and increase the filter efficiency rating.](#)

4. Adjust the HVAC system schedule at maximum outside airflow for 2 hours before and after occupied times.

[The occupied schedules for the district HVAC systems are currently set for 24 hour occupied.](#)

5. Consider using portable high-efficiency particulate air (HEPA) fan/filtration systems to help enhance air cleaning.

[HEPA air purifiers have been delivered to each district building for the nurse's area, the office area, and to the Chief Custodian for rapid response to a](#)

suspected positive. Additionally, HEPA air purifiers have been delivered to all district classrooms associated with the REACH and DAP programs.

6. Ensure exhaust fans in restroom facilities are functional and operating at full capacity when the building is occupied.

New exhaust fans have been installed as part of ongoing renovations projects. Existing exhaust fans have been serviced.

7. Consider using ultraviolet germicidal irradiation (UVGI) or hydrogen peroxide bi-polar ion technology as a supplemental technique to inactivate potential airborne virus.

The Christina School District is installing Sterionizer units, which use hydrogen peroxide bi-polar ion technology at the Brennen School, the Early Childhood Center, Maclary ES, Gauger-Cobbs MS, and GHS.