Auburn University Facilities Management (AUFM) has taken multiple actions to ready buildings across campus. This fact sheet describes actions taken for NCAT Research Facility. AUFM has used recommendations from the Centers for Disease Control and Prevention (CDC) and American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE), along with input from the AUFM COVID-19 Task Force and public health experts to help reduce the potential for virus transmission within campus buildings.

**AIR QUALITY AND VENTILATION**

Auburn University buildings are generally conditioned by one or a combination of three types of heating, ventilating and air conditioning systems: fan coil units, central air handling systems, and localized refrigerant-based systems. Click [here](#) for information of how each of these systems work. NCAT Research Facility’s mechanical system is comprised of:

- 8 localized refrigerant-based air handling units that provide distribution of filtered and conditioned air to the building.

The 3 main principles of the recommendations from the CDC, ASHRAE and other government and industry associations related to air quality and ventilation include:

1. **Ensure ventilation systems are operating properly** – At NCAT Research Facility, AUFM has completed a comprehensive evaluation of the building’s air ventilation systems to include a verification of operation and ventilation amounts. Any deficiencies found are being or have been corrected. The building systems are running at a frequency that meets or exceeds ASHRAE recommendations. In addition, we have increased the frequency and extent of preventative maintenance measures.

2. **Upgrade air filters where possible to a level efficient at capturing airborne viruses to reduce potential concentration of particles in the air** – Prior to the COVID-19 pandemic, the AU standard air filter was MERV 8 rated. Based on ASHRAE’s recommendations, we have upgraded to MERV 13 filters where possible. Learn more about Minimum Efficiency Reporting Value (MERV).

3. **Increase circulation of outdoor air as much as possible** – At NCAT Research Facility, the percentage of outside air has been increased as much as possible, taking into account equipment limitations and the thermal comfort of the building occupants. Increased ventilation can be through natural or mechanical ventilation systems and helps to remove contaminants from a room.

**AIR CHANGES**

ASHRAE defines air changes per hour (ACH) as the volume of ventilation air that is supplied and removed from a room every hour and will vary and is dependent on room size, occupant load and heat load for each room throughout campus.

In general, laboratories are supplied with 6-12 ACHs, and office areas and classrooms are supplied with 3-8 ACHs. ASHRAE states that 3 air changes will reduce contaminants in a space by 95%.

- 95% of campus buildings with central mechanical systems achieve 3 air changes in one hour.
- **NCAT Research Facility meets or exceeds ASHRAE recommended air exchange rate.**
PLUMBING SYSTEMS

In anticipation of building re-occupancy prior to fall semester, AUFM completed a comprehensive flush and check of the building’s plumbing system to ensure proper operations and to guard against microbial hazards that had the potential to surface due to the reduced activity at the building. Since that time, NCAT Research Facility’s plumbing systems have been operated continuously during the COVID-19 pandemic. In addition, within NCAT Research Facility, AUFM is converting restroom fixtures to operate automatically. New touchless faucets have been installed where possible to improve restroom hygiene and so that all restrooms have at least one touchless faucet available.

CLEANING AND DISINFECTING

The AUFM COVID-19 cleaning services modifications plan focuses on enhanced cleaning, sanitation, and disinfecting using disinfectants on the “EPA List N: Disinfectants for Coronavirus (COVID-19)” to kill the coronavirus SARS-CoV-2 (COVID-19). Actions taken in NCAT Research Facility include:

- American Facilities is contracted for custodial services at NCAT Research Facility.
- Regular cleaning includes lobby, breakroom, and bathroom cleaning, vacuuming, dusting, trash removal, mopping floors and hallways, and cleaning entrance doors.
- Enhanced services for COVID-19 include wipe down high touch points, doorknobs, countertops, toilets, faucets, sinks, and water fountains.
- Additional deep cleaning service using a Clorox 360 electrostatic sprayer is available upon request.

SIGNAGE AND COMPLIANCE AND OCCUPANCY STUDIES

Advisory, directional, and safety signage has been installed in NCAT Research Facility. The comprehensive signage is intended to assist physical distancing and best health practices among building occupants, particularly in high-traffic area, and remind occupants and encourage behaviors to reduce the spread of COVID-19.

Signage installed covered several areas, including:

- Health guidance and behavioral best practices
- Circulation and egress
- Max recommended capacities (elevators and restrooms,)
- Entrances, exits, stairways, etc.
- Queuing areas

At NCAT Research Facility, Compliance and Occupancy Studies have not been completed but are available upon request. These studies include client-driven review of specific areas of concern and question. Recommendations will be provided regarding physical distancing that meets the university’s guidance as well as any additional desired signage. To request a Compliance and Occupancy Study, simply complete a Project Request at https://www.auburn.edu/administration/facilities/projects/pif.html.

The expectation is that all of AUFM measures described above are taken in tandem with the behaviors articulated in the University’s Guidance to reduce the spread of COVID-19, including wearing a face covering, maintaining at least a six-foot distance from others, and washing hands frequently.