

NOW WHAT? NAVIGATING K-12 REOPENING A COLLABORATIVE PLANNING PROCESS

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EXPERIENCE

- Certified Industrial Hygienist
- 8 years with the North Carolina Occupational Safety and Health (OSHA Compliance Officer)
- 26 years with the NC Division of Public Health
- Providing consultative services, to individuals, organizations, state agencies and others about indoor environmental quality
- Part of a working group of State Indoor Air Quality Officials organized and sponsored by the Environmental Law Institute and EPA to share best practices for 10 years



HEALTHY BUILDING PRINCIPLES

NATIONAL CENTER FOR HEALTHY HOMES PRINCIPLES OF HEALTHY HOMES [OR BUILDINGS]

Dry

- Clean
- □ Well ventilated (thermal control, filtration, local exhaust, and directional air flow)
- □ Well Maintained (good repair)
- Pest free
- Contaminant Free
- Safe



KNOW THE DIFFERENCE

- Separate activities although many products are labelled as cleaner and disinfectants
- Read labels and follow label instructions especially for
 - Dwell time
 - What kind material is being disinfected. Most disinfectants are not suitable for porous surfaces
 - Does product need to be rinsed from surfaces
 - Keep out of reach of children
- Do not mix products



Source: Washington State Department of Health. Updated June 16, 2020.

ASSESS. PLAN. FUND. BUILD

CLEANING COVID

- You cannot sanitize or disinfect if the surface is dirty; clean first
- "Sanitizers and disinfectants must be EPA registered anti-microbial pesticides. If they
 are not EPA registered, they are not an appropriate product. For COVID-19, choose a
 disinfectant approved by the Environmental Protection Agency (EPA) and <u>registered
 for use against the SARS-CoV-2 virus</u>
 - See attached excel sheet

Source: Washington State Department of Health. Updated June 16, 2020.



CLEANING HANDS

"Provide plain fragrance-free/dye-free liquid/foaming soap. Fragrances irritate about a third of people. Do not use "antimicrobial" soaps. They are not effective against COVID-19, are not necessary, and are not good for human health or the environment."



Source: Washington State Department of Health. Updated June 16, 2020.



YOU CAN DISINFECT TOO MUCH

- Partner with custodial staff, they cannot clean or disinfect cluttered surfaces
- Remember that disinfectants contain hazardous ingredients and are regulated by EPA as antimicrobial pesticides – overuse might add chemical contaminants to the environment (see 7/30 presentation with Phoebe Beierle from the USGBC)
- Ask if disinfecting is and provides clear benefits or is required by law rule or code
- Cleaning removes contamination from surfaces and needs to be done more frequently than disinfection. In addition, soaps and detergents can inactivate the lipid membrane that envelopes viruses like the Corona Virus
- Good cleaning practices using soaps and microfiber cloths can remove 99% of surface bacteria



VENTILATION

MAKE SURE YOUR SYSTEM IS WORKING AS DESIGNED

- Importance of understanding what systems you have and that systems are in good safe working order (see <u>presentation</u> from Josh Chism at Colorado Springs D11 last week)
- Do not make changes without thorough evaluation of consequences like improved filtration, increasing air exchange rate, or modification of operating times
- Understand air flow patterns, try not to locate people downwind or each other



COMMON FACILITY CONDITION NEEDS IMPACTING INDOOR AIR QUALITY







DRAINAGE CONCERNS





DRAINAGE NEAR HVAC UNITS





EVIDENCE OF MOLD





EVIDENCE OF MOLD





ASSESS. PLAN. FUND. BUILD

HVAC CONDITION





ASSESS. PLAN. FUND. BUILD

HVAC CONDITION





HVAC CONDITION & TEMPORARY BUILDINGS





CLUTTER & VENTILATION





CLUTTER & VENTILATION



