

Procedure for Cleaning and Disinfecting Coronavirus Infectious Area

Background:

Coronavirus disease 2019 (COVID-19) is a respiratory disease caused by the SARS-CoV-2 virus (coronavirus) and is highly infectious. This cleaning procedure is cooperatively developed by Penn State Office of Physical Plant (OPP) Custodial, Safety, Auxiliary & Business Services, and Environmental Health & Safety (EHS) departments, to support entry by OPP Custodial or other Penn State employees or personnel, where potential or confirmed person(s), infected with the coronavirus and/or with diagnosed COVID-19 disease have recently occupied the area. This cleaning procedure and associated guidelines **MUST** be observed by OPP Custodial personnel.

Preliminary Notes:

- 1) Penn State custodial personnel shall not enter areas to clean where there is a potential or confirmed coronavirus-infected (infectious) individual currently occupying the area(s).
- 2) Employees must read, understand and follow the attached CDC requirements for donning and doffing PPE (*How to Safely Remove Personal Protective Equipment – Example 2*).
- 3) As an alternative to cleaning and disinfection, after an individual infected with the coronavirus has vacated the room or affected area(s), and after an additional 7-day waiting period, the coronavirus associated with impacted surfaces in this room or area(s) is considered no longer viable. Typical cleaning may be performed prior to re-use.

PPE Required:

Low-Impact Coronavirus Cleaning & Disinfection

- Protective body covering (e.g., full-body Tyvek, gowns/shoe covers or other equivalent protection)
- Gloves (nitrile)
- Safety glasses
- Surgical mask or face shield (for protection against accidental hand contact with facial surfaces (eyes, nose, or mouth))

Enhanced Cleaning & Disinfection

- Protective body covering (e.g., full-body Tyvek, gowns/shoe covers or other equivalent protection)
- Gloves (nitrile)
- Chemical splash goggles
- Surgical mask or face shield
- Properly fitted N-95 or MSA-200 half-face respirator (MSA GMC with N95 prefilter)

Tools, Equipment and Materials Required: Refer to Page 2 of 3

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Tools, Equipment and Materials Required:

Low-Impact Cleaning & Disinfection

- Standard custodial equipment and supplies
- Properly diluted solution Betco Quat Stat 5 or Betco pH7Q Dual (Medical Alternative), or suitable EPA-Registered alternate
- Microfiber cloths or suitable alternate
- Microfiber Flat Mop (*if hard floor present*)
- Disinfection Notification Sign

Enhanced Cleaning & Disinfection

- Standard custodial equipment and supplies, plus:
- Electrostatic Sprayer (Victory hand-held, Victory backpack, or Clorox 360)
 - Solution Tank filled with Betco Quat Stat 5, pH7Q Dual (Medical Alternative), or suitable EPA-Registered alternate
- Microfiber cloths or suitable alternate
- Microfiber flat mop (*if hard floor present*)
- Disinfection Notification Sign

Cleaning Products Required:

- Betco Quat Stat 5, or pH7Q Dual (Medical Alternative)
- Other EPA-Registered Alternates for use against SARS-CoV-2

Cleaning Procedure:

1. Custodial notified according to Penn State protocol that a treatment is needed for a space or area that may have been or has been inhabited by an infected individual.
2. Ensure a minimum of three (3) hours and up to preferably 24 hours with no occupancy prior to entry.
3. Custodial dispatches member(s) identified to perform the cleaning and disinfection, depending upon identified impact:
 - a. **Low Impact** – (Single isolation room or small housing suite, single office), and with capability to ventilate or cross-ventilate, use standard personnel assignment.
 - b. **Enhanced** – (Larger area(s), multiple rooms/suite, building floor, and/or area(s) with multiple suspect or known infected persons), personnel must have passed respirator clearance (medical, fit-test, training).
4. Custodian(s) don proper PPE as listed above.
5. Custodian affixes Disinfection Notification Sign to applicable entryways.

NOTE: *Custodial personnel should contact their Supervisor, Safety Officer, or EHS for assistance with any unforeseen or unusual conditions.*

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6. Pre-Disinfection – (Enhanced cleaning and disinfection only)
Custodian(s) enters space and performs pre-disinfection using designated equipment and materials for enhanced cleaning and disinfection.
 - b. Enhanced cleaning requires use of electrostatic sprayer with Quat Stat 5, pH7Q Dual- (Medical Alternate), or suitable EPA-Registered alternates. Pre-treat general room area (not specific surfaces) and allow proper dwell-time of the applicable disinfecting agent.
7. Custodian completes detail room cleaning:
 - a. Custodian cleans all frequently touched surfaces including desks, tables, doorknobs, drawer pulls, computer keyboards and mice, and all other identified high-contact surfaces using microfiber cloth or alternates and above-listed EPA-Registered disinfecting agents.
 - b. If hard surface flooring is present, Custodian mops floor with microfiber flat mop, using EPA-Registered disinfectant solutions.
 - c. Once detail cleaning is completed, gather and bag all used microfiber/other cloths and mop heads. Bagged microfiber can be laundered as normal or disposed.
8. Post-Disinfection – (Enhanced cleaning and disinfection only)
Custodian performs post-disinfection of room using electrostatic sprayer and EPA-Registered disinfectant solutions for enhanced cleaning and disinfection.
 - a. Mist spray all accessible surfaces from top horizontal surfaces towards floor, and by moving from most inward location towards the room or area entryway.
9. Custodian(s) notifies supervisor upon work completion.
10. Upon work completion, Custodian posts re-entry time on Disinfection Notification Sign.
 - a. Time requirement shall be posted on sign as 2 hours from time that cleaning is completed, and as custodial staff are leaving area(s).
11. Custodial Supervisor provides work completion notification according to Penn State protocol.

End of Procedure