

USE OF PERSONAL PROTECTIVE EQUIPMENT FOR FULL BODY PROTECTION

Last Review Date: March 24, 2020

Next Review Date: March 24, 2022

Lead role: Water and Wastewater

RESOURCES**Labor**

- Tyvek suit with booties/hood
- Safety glasses
- Face shield
- Nitrile gloves
- Rubber boots
- Half mask respirator with P100 filters

Materials

- Garbage bag, 2 large
- Ziplock bag, large
- Hand sanitizer
- Disinfection spray bottle with 1000 ppm bleach

PURPOSE

Enhance protection of Utilities workers responding to a work site a potential/ or confirmed hazardous environment. These hazards can be mitigated through use of additional PPE and proper hygiene. This procedure primarily details the use of Tyvek coverall suits paired with hand and face protection with intent of protection the entire worker body.

PROCEDURE**A General**

- A1. All workers must be clean shaven to ensure a proper seal during half mask use.
- A2. Half masks with a P100 filter are the preferred choice for air filtration. N95 filter masks are also an acceptable alternate but extra care must be taken to ensure proper fit.
- A3. Use of steel toed rubber boots is required. Rubber boots can be disinfected after use.
- A4. Donning a face shield paired with safety glasses, if the preferred choice of face protection. If these are not available goggles are an acceptable alternate but extra care must be taken to wash face with soap and water after a task.

B Dressing

- B1. Inspect equipment prior to use to confirm in good working condition. Ensure equipment sizes for all items chosen are sized accordingly.

- B2. Select an uncontaminated area where personal protective equipment can be put on safely. The worker should be able to sit or lean comfortably for greater stability.
- B3. Remove your work boots. Tuck your pant legs into your socks.
- B4. Step into the legs of the coveralls.
- B5. Put rubber boots on and pull coverall legs down over top of the rubber boots.
- B6. Pull coveralls over the arms and shoulders
- B7. Put on face protection. This includes safety glasses and half mask with P100 air filters.
- B8. Pull hood over the head. Ensure a close fit to the face.
- B9. Fully zip up coverall garment to the chin.
- B10. Pull on two sets of gloves. The outer set protects against the work being performed. The inside set protects the worker during removal of potentially contaminated PPE after use.
- B11. Put-on full-face shield over respirator, and safety glasses.
- B12. Stretch to ensure fit. This requires a suited worker to extend hands out from front of body and slowly squat at the knees into a seated position and return standing. Properly size coveralls will not migrate at the ankles or wrists.

C Undressing

- C1. Chose an area to undress that is free of environmental hazards and where removing contaminated PPE will not soil a common work space.
- C2. Safely remove first set of outer gloves that may me soiled and place into the first of two separate garbage bags. The worker at this point should still have on one set of un-soiled nitrile gloves on.
- C3. Remove face Shield. Spray with disinfecting bleach solution and place into the second of two garbage bags.
- C4. Unzip coveralls to the waist.
- C5. Grabbing onto exterior of the cover all hood on both sides, pull hood away from head.
- C6. Release the first arm of the coveralls from behind back with opposite hand. As the arm of the coverall is being pulled over the shoulder and down the first arm. Through the first sleeve of the garment, pinch the glove off the remaining hand so it remains in the sleeve as it is fully removed.

- C7. Extract the second arm by placing the unprotected hand with in the garment and sliding it off the shoulder, down the arm and stopping before the wrist. Through the remaining sleeve of the garment, pinch the glove off the remaining hand so it remains in the sleeve as it is fully removed.
- C8. Roll the garment down body until resting at feet.
- C9. Kick off rubber boots.
- C10. Put work boots back on.
- C11. Dispose of coverall garment into first of two garbage bags. Tie shut
- C12. Spray soiled rubber boots with disinfecting solution and place into the second of two garbage bags and tie shut.
- C13. Remove safety glasses and half mask respirator. Place both items into a large ziplock bag.
- C14. Appropriately dispose of first garbage bag containing gloves and coverall garment into regular waste disposal.
- C15. Take second garbage containing rubber boots/ face shield and large ziplock bag with glasses and respirator to SPSY lab for cleaning and disinfection.
- C16. Apply hand sanitizer.
- C17. Before starting another task wash hands and face with soap and warm water. Use of disposable drying towels, discard into regular waste disposal.

REFERENCES

1. Occupational Health and Safety Act, Regulation and Code
2. Video, Tyvek suit donning and doffing- link:
<https://www.youtube.com/watch?v=zLbvQcpfZyQ>

Date	Supervisor – print name	- signature