

# SOUTH PORTLAND FIRE DEPARTMENT

## STANDARD OPERATING GUIDELINES

<b>SOG #:</b>	6.623	<b>Effective Date:</b>	2/17/2022
<b>Title:</b>	Technical Decon Line	<b># of pages:</b>	13
<b>Category:</b>	Hazardous Materials Response	<b>Classification:</b>	Red

1. **PURPOSE:** The purpose of technical decontamination is to remove product/contaminates from personnel, apparatus, and equipment. Specific measures may vary slightly with the WMD agent, level of contamination and circumstances of contamination. The Decontamination Officer, through Command, is responsible for determining the most appropriate decontamination procedures and managing the decontamination process.
2. **PROCEDURES:** The technical decon line is for responders and will be set up at all hazmat scenes whenever responders are conducting an entry. Normally, civilians will not use the technical decon line, due to lack of privacy, but it may be used to decon 6 or less civilians (particularly when there is not enough manpower to operate 2 decon lines)

## **TECHNICAL DECON LINE PROCESS/STRUCTURE (PERSONNEL)**

*NOTE: The Technical Decontamination Setup will be operated by 3-4 technicians.*

### ***Station #1 - Tool Drop***

*Personnel Requirements:* no station attendant

*Equipment requirements:* red trash bin, plastic bags.

Tools, meters, and other items that may be reused by future entry teams will be left at this location until decontaminated after the final entries are completed. Equipment will be cleaned with Decon 7 or as directed by operators manuals (electronics).

**Station # 2 – Kill & Rinse/Gross Decon (Figure 1)**

*Personnel Requirements:* no station attendant

*Equipment requirements:* 8 X 8 black pool, 2 folding chairs (one red one/white), 1 red bucket filled with bleach/water solution, 1 white bucket filled with clean water, 1 black floor grate, 2 orange buckets with bleach/water solution and numerous brushes, 2 black trays (one filled with bleach/water solution and the other filled with clean water), 1 pump sprayer with bleach/water solution 2 Hot Zone traffic cones.

Entry team members will self-guide themselves into the pool; they will step into the first container and also dip their hands in the red bucket (Kill). They will then step onto the grate and any gross materials that need to be removed or areas that they know where contaminated will be taken care of either by the member and/or assisted by another entry team member using brushes and /or pump sprayers. They will then step into the next container and dip their hands into the white bucket (Rinse). Once completed they will step out and into Station # 3



Figure 1

### **Station # 3 – Rinse (Figure 2)**

*Personnel Requirements:* Two station attendants

*Equipment requirements:* Tent floor/tarp, 4 X 6 black pool, 2 pump sprayers with bleach/water solution, garden hose manifold, 2 garden hose reels with showers nozzles, long handled brushes 2 black grates, 1 orange bucket with bleach/water solution. Backboard roller system w/ backboard set up off to the side, 3 trauma sheers. OPTIONAL Tent may be set up over this Station for shelter.

Attendants will guide entry team members into rinse area where they will be rinsed head to toe. Any obvious contaminate still left will be sprayed with bleach/water solution and scrubbed with brushes until clean. A final rinse will occur before personnel leave this station. In case of a downed responder the backboard roller is available and all decon activities would occur in this station. Once complete entry team members will step out to Station # 4



Figure 1



#### ***Station # 4 – Final Kill Rinse/Monitoring (Figure 3)***

*Personnel Requirements:* One station attendant

*Equipment Requirements:* 2 folding chairs (one red one/white), 1 red bucket filled with bleach/water solution, 1 white bucket filled with clean water, 1 black floor grate, 5 X 5 blue pool, large trash bags, red trash bin, 2 trauma sheers, 4 gas meter w/PID, M8 chemical detection paper; Ludlum, Drager Kit, 3 blue folding chairs, 1 folding table. 2 Warm Zone Traffic Cones

Here the entry team members will conduct a final kill and rinse their boots and hands as they did in Station # 2. Once complete, members will then step into the 5 X 5 blue pool where the attendants will monitor with the appropriate detection device for the identified contaminant. If any contamination is detected, the member will move back to Station 3 to be rewashed as needed and then be retested. Once tested and determined to be free of contamination they will remove their protective clothing and drop it into the blue pool. They are not to remove their air supply (unless it was on the outside of the suit) or medical gloves until outside this station. Trash bag will be pulled up over disposed of boots and suit that were left in pool and will be placed in red trash bin and new trash bag placed for next person. Personnel will then exit the warm zone and remove air supply and gloves.



**Figure 2**



### ***Station # 5 – Shower (Optional Step)***

*Personnel Requirements:* no station attendant

*Equipment requirements:* 1 shower system, soap, sponge, garden hose attachment, water heater, red trash bucket, trash bags, supply of towels and hospital scrubs. OPTIONAL 8 X 8 pop up tent for shelter.

Entry team members will remove all their clothing and deposit it into the lined container. Once the container is full, the bags will be sealed. These bags will be stored in the personal belongings check/decontamination area until all victims are processed.

Entry team members will enter the shower and ensure they wash all parts of their body paying particular attention to their hair, face, and body folds. Wash off any suspected contamination with soapy water and sponge then re-rinse. Once complete they will move to the rear of Hazmat 401 for rehab and medical monitoring.



***Station # 6- Medical/Rehab***

*Personnel Requirements:* One to two EMS personnel

*Equipment requirements:* 3-4 folding chairs, bottles water, EMS jump kit, LifePak, iPad/PCR forms for documenting medical monitoring, information on material entry team might have been exposed to.

***Release:***

The EMS Branch will release individuals who have been processed through the decontamination corridor to the manpower poll. The Decontamination Officer will determine if and when it is appropriate to release custody of clothing, personal effects and equipment after consulting the Research Officer.

## **TECHNICAL DECON LINE PROCESS/STRUCTURE (EQUIPMENT)**

*NOTE: Optimally, three technicians will operate the Technical Decontamination Setup*

### **Station #1 - Initial Wash**

*Personnel Requirements:* One station attendant

*Equipment requirements:* Appropriate booster lines and nozzles

Station attendant will spray the vehicle and/or equipment for two to three minutes with water. Hot water, if available, is more effective at removing residual contaminants. Although undersurfaces are difficult to reach, they must be sprayed.

### **Station #2 - Decon Solution Application**

*Personnel Requirements:* One Station attendant

*Equipment Requirements:* Spray devices, Decon 7 solution (or if unavailable 5% Chlorine bleach solution), brushes

Station attendant will apply the decon solution to all areas of the equipment suspected of being contaminated. Make special effort to apply decon solution to undercarriage of vehicles driven in or through a contaminated area, particularly apparatus used in emergency gross decontamination.

### **Station #3 - Wait (Solution Contact Time)**

*Personnel Requirements:* One Station Attendant

*Equipment Requirements:* Spray devices, Decon 7 solution (or if unavailable 5% Chlorine bleach solution), brushes

Station attendant will allow the solution to stay on the vehicles/equipment for a minimum of fifteen minutes. Throughout the wait time, the attendant will observe the equipment and re-spray areas that dry from sunlight, heat or evaporation.

### **Station #4 - Rinse**

*Personnel Requirements:* One Station attendant

*Equipment Requirements:* Appropriate booster lines and nozzles

Station attendant will spray vehicles and/or equipment for two to three minutes, paying particular attention to undersurfaces.

### **Station #5 - Equipment Monitoring**

*Personnel Requirements:* One station attendant

*Equipment Requirements:* 4-gas meter w/PID, M8 chemical detection paper, Ludlum, Drager Kit.

Station attendant will use the appropriate detection device to monitor for complete removal/neutralization of the identified contaminant. If Federal Agencies on the scene



provide additional certification of decontamination, their process/requirements will be accommodated.

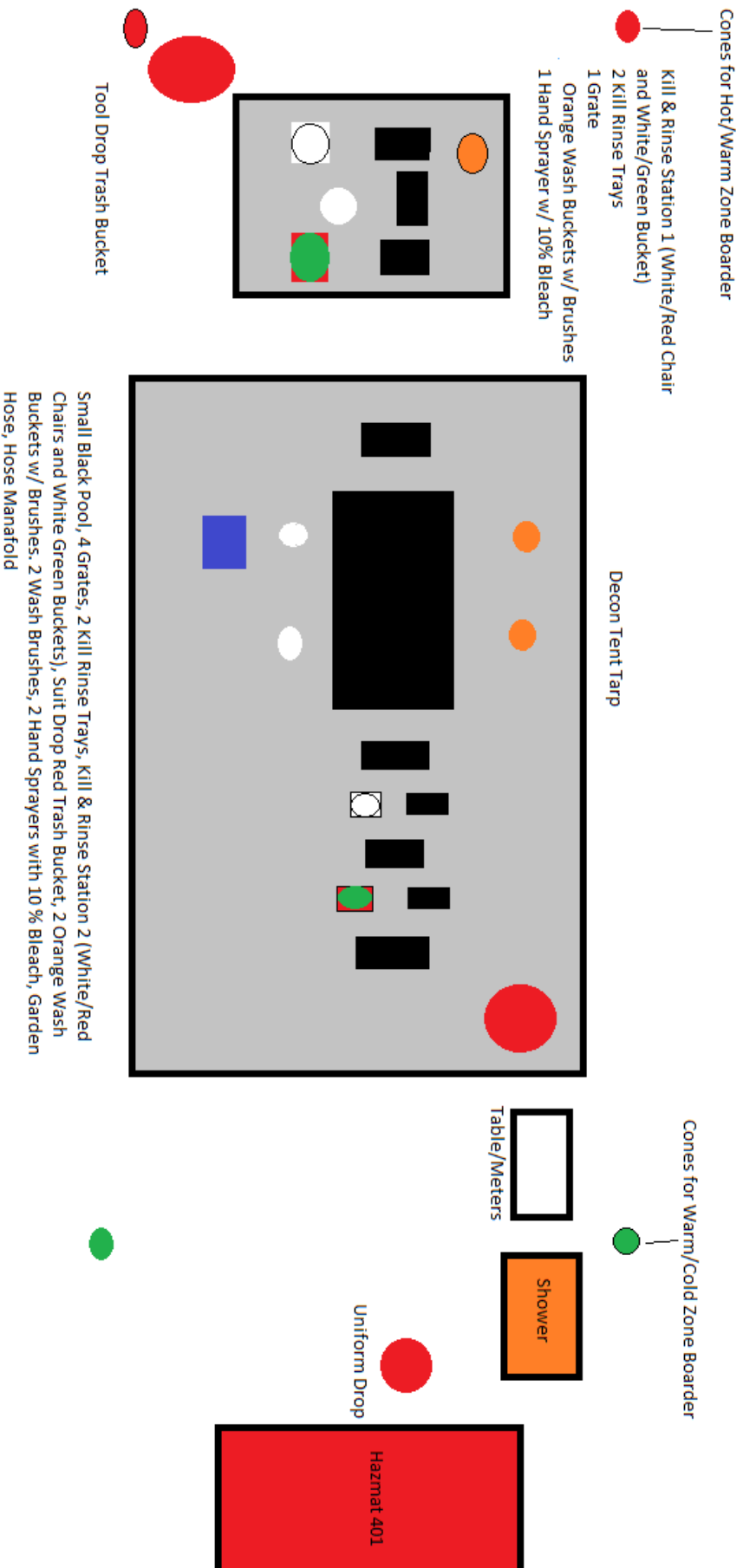
3. REFERENCES:

- Phoenix Fire Department SOG: M.P. 207.01B 07/03-N

By Order Of:



James P. Wilson  
Fire Chief





Stage One: Tool drop and self-administered gross decon with first kill/ rinse hands & boots



Stage Two: Full decontamination (if required) or spot decontamination by attendant. (Tent not in use)



Stage Three: Final kill/rinse and then inspection & confirmation by attendant of decontamination.  
Stage Four: Doffing of suit only (SCBA remains)

Stage Five: (Cold Zone)  
Remove SCBA, shower if desired/required and then into HZ-401 but left door for medical evaluation/rehab. Exit via front right door when cleared



