SAMPLE DECONTAMINATION LAYOUTS AND PROCEDURES FOR LEVELS OF PROTECTION A THROUGH C

The objective of these procedures is to minimize the risk of exposure to hazardous substances in the field. Protective equipment must be worn by personnel when response activities involve known or suspected hazardous substances. The procedures for decontaminating personnel upon leaving the contaminated area are discussed for personal protective equipment Levels A through C. The procedures given are for the maximum and minimum amount of decontamination used for each level of protection.

The maximum decontamination procedures for all levels of protection consist of specific activities at 19 stations. Each station emphasizes an important aspect of decontamination. When establishing a decontamination line, each aspect should be incorporated separately or combined with other aspects into a procedure with fewer steps (such as the minimum decontamination procedures). Decontamination lines are site-specific and vary depending on the types of contamination and work activities conducted on-site. When the decontamination line is no longer required, contamination wash and rinse solutions and contaminated articles must be contained and disposed of as hazardous wastes in compliance with State and Federal regulations.
EQUIPMENT NEEDED TO PERFORM MAXIMUM DECONTAMINATION MEASURES FOR LEVELS A, B, AND C

Station 1:  a. Various Size Containers  
            b. Plastic Liners  
            c. Plastic Drop Cloths

Station 2:  a. Containers (20-30 Gallons)  
            b. Decon Solution or Detergent Water  
            c. 2-3 Long-Handled, Soft-Bristled Scrub Brushes

Station 3:  a. Containers (20-30 Gallons)  
            OR
            b. Water  
            c. 2-3 Long-Handled, Soft-Bristled Scrub Brushes

Station 4:  a. Containers (20-30 Gallons)  
            b. Plastic Liners

Station 5:  a. Containers (20-30 Gallons)  
            b. Plastic Liners  
            c. Bench or Stools

Station 6:  a. Containers (20-30 Gallons)  
            b. Plastic Liners

Station 7:  a. Containers (20-30 Gallons)  
            b. Decon Solution or Detergent Water  
            c. 2-3 Long-Handled, Soft-Bristled Scrub Brushes

Station 8:  a. Containers (20-30 Gallons)  
            OR
            b. Water  
            c. 2-3 Long-Handled, Soft-Bristled Scrub Brushes

Station 9:  a. Air Tanks or Face Masks and Cartridge, Depending on Level  
            b. Tape  
            c. Boot Covers  
            d. Gloves

Station 10: a. Containers (20-30 Gallons)  
           b. Plastic Liners  
           c. Bench or Stools  
           d. Boot Jack

Station 11: a. Rack  
            b. Drop Cloths  
            c. Bench or Stools

Station 12: a. Table

Station 13: a. Basin or Bucket  
            b. Decon Solution  
            c. Small Table

Station 14: a. Water  
            b. Basin or Bucket  
            c. Small Table

Station 15: a. Containers (20-30 Gallons)  
            b. Plastic Liners

Station 16: a. Containers (20-30 Gallons)  
            b. Plastic Liners

Station 17: a. Containers (20-30 Gallons)  
            b. Plastic Liners

Station 18: a. Water  
            b. Soap  
            c. Small Table  
            d. Basin or Bucket  
            e. Field Showers  
            f. Towels

Station 19: a. Dressing Trailer is Needed in Inclement Weather  
            b. Tables  
            c. Chairs  
            d. Lockers  
            e. Cloths
EQUIPMENT NEEDED TO PERFORM MINIMUM DECONTAMINATION MEASURES FOR LEVELS A, B, AND C

<table>
<thead>
<tr>
<th>Station 1</th>
<th>Station 5</th>
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</thead>
<tbody>
<tr>
<td>a. Various Size Containers</td>
<td>a. Containers (20-30 Gallons)</td>
</tr>
<tr>
<td>b. Plastic Liners</td>
<td>b. Plastic Liners</td>
</tr>
<tr>
<td>c. Plastic Drop Cloths</td>
<td>c. Bench or Stools</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Station 2</th>
<th>Station 6</th>
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</thead>
<tbody>
<tr>
<td>a. Containers (20-30 Gallons)</td>
<td>a. Plastic Sheets</td>
</tr>
<tr>
<td>b. Decon Solution</td>
<td>b. Basin or Bucket</td>
</tr>
<tr>
<td>c. Rinse Water</td>
<td>c. Soap and Towels</td>
</tr>
<tr>
<td>d. 2-3 Long-Handled, Soft-Brissled Scrub Brushes</td>
<td>d. Bench or Stools</td>
</tr>
</tbody>
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<thead>
<tr>
<th>Station 3</th>
<th>Station 7</th>
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</thead>
<tbody>
<tr>
<td>a. Containers (20-30 Gallons)</td>
<td>a. Water</td>
</tr>
<tr>
<td>b. Plastic Liners</td>
<td>b. Soap</td>
</tr>
<tr>
<td>c. Bench or Stools</td>
<td>c. Tadles</td>
</tr>
</tbody>
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<thead>
<tr>
<th>Station 4</th>
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<tbody>
<tr>
<td>a. Air Tanks or Masks and Cartridges Depending Upon Level</td>
</tr>
<tr>
<td>b. Tape</td>
</tr>
<tr>
<td>c. Boot Covers</td>
</tr>
<tr>
<td>d. Gloves</td>
</tr>
<tr>
<td>a. Water</td>
</tr>
<tr>
<td>b. Soap</td>
</tr>
<tr>
<td>c. Tadles</td>
</tr>
<tr>
<td>d. Wash Basin or Bucket</td>
</tr>
</tbody>
</table>
MAXIMUM MEASURES FOR LEVEL A DECONTAMINATION

Station 1: Segregated Equipment Drop
Deposit equipment used on-site (tools, sampling devices and containers, monitoring instruments, radios, clipboards, etc.) on plastic drop cloths or in different containers with plastic liners. During hot weather operations, a cool-down station may be set up within this area.

Station 2: Boot Cover and Glove Wash
Scrub outer boot covers and gloves with decon solution or detergent/water.

Station 3: Boot Cover and Glove Rinse
Rinse off decon solution from Station 2 using copious amounts of water.

Station 4: Tape Removal
Remove tape around boots and gloves and deposit in container with plastic liner.

Station 5: Boot Cover Removal
Remove boot covers and deposit in container with plastic liner.

Station 6: Outer Glove Removal
Remove outer gloves and deposit in container with plastic liner.

Station 7: Suit and Boot Wash
Wash encapsulating suit and boots using scrub brush and decon solution or detergent/water. Repeat as many times as necessary.

Station 8: Suit and Boot Rinse
Rinse off decon solution using water. Repeat as many times as necessary.

Station 9: Tank Change
If an air tank change is desired, this is the last step in the decontamination procedure. Air tank is exchanged, new outer gloves and boot covers are donned, and joints are taped. Worker returns to duty.

Station 10: Safety Boot Removal
Remove safety boots and deposit in container with plastic liner.

Station 11: Fully Encapsulating Suit and Hard Hat Removal
Fully encapsulating suit is removed with assistance of a helper and is laid out on a drop cloth or hung up. Hard hat is removed. Hot weather rest station may be set up within this area for personnel returning to site.

Station 12: SCBA Backpack Removal
While still wearing face piece, remove backpack and place on table. Disconnect hose from regulator valve and proceed to next station.

Station 13: Inner Glove Wash
Wash with decon solution that will not harm the skin. Repeat as many times as necessary.

Station 14: Inner Glove Rinse
Rinse with water. Repeat as many times as necessary.

Station 15: Face Piece Removal
Remove face piece. Deposit in container with plastic liner. Avoid touching face with fingers.

Station 16: Inner Glove Removal
Remove inner gloves and deposit in container with liner.

Station 17: Inner Clothing Removal
Remove clothing and place in lined container. Do not wear inner clothing off-site since there is a possibility that small amounts of contaminants might have been transferred in removing the fully encapsulating suit.

Station 18: Field Wash
Shower if highly toxic, skin-corrosive or skin-absorbable materials are known or suspected to be present. Wash hands and face if shower is not available.

Station 19: Redress
Put on clean clothes.
MAXIMUM DECONTAMINATION LAYOUT FOR LEVEL A PROTECTION

EXCLUSION ZONE

1. Boot Cover & Glove Rinse
2. Boot Cover & Glove Wash
3. Tape Removal
4. Boot Cover Removal
5. Outer Glove Removal

7. Suit/Safety Boot Wash
8. Suit/Safety Boot Rinse
9. Tank Change, Redress, Boot Cover, Outer Gloves
10. Safety Boot Removal
11. Fully Encapsulating Suit and Hard Hat Removal
12. SCBA Backpack Removal
13. Inner Glove Wash
14. Inner Glove Rinse
15. Face Piece Removal
16. Inner Glove Removal
17. Inner Clothing Removal
18. Field Wash
19. Redress

HOTLINE

CONTAMINATION REDUCTION ZONE

CONTAMINATION CONTROL ZONE

SUPPORT ZONE

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MINIMUM MEASURES FOR LEVEL A DECONTAMINATION

Station 1: Equipment Drop
Deposit equipment used on-site (tools, sampling devices and containers, monitoring instruments, radios, clipboards, etc.) on plastic drop cloths. Segregation at the drop reduces the probability of cross contamination. During hot weather operations, a cool-down station may be set up within this area.

Station 2: Outer Garment, Boots, and Gloves Wash and Rinse
Scrub outer boots, outer gloves and fully-encapsulating suit with decon solution or detergent and water. Rinse off using copious amounts of water.

Station 3: Outer Boot and Glove Removal
Remove outer boots and gloves. Deposit in container with plastic liner.

Station 4: Tank Change
If worker leaves Exclusion Zone to change air tank, this is the last step in the decontamination procedure. Worker's air tank is exchanged, new outer gloves and boot covers are donned, joints are taped, and worker returns to duty.

Station 5: Boot, Gloves, and Outer Garment Removal
Boots, fully-encapsulating suit, and inner gloves are removed and deposited in separate containers lined with plastic.

Station 6: SCBA Removal
SCBA backpack and face pieces are removed (avoid touching face with fingers). SCBA is deposited on plastic sheets.

Station 7: Field Wash
Hands and face are thoroughly washed. Shower as soon as possible.
### Maximum Measures for Level B Decontamination

**Station 1: Segregated Equipment Drop**
Deposit equipment used on-site (tools, sampling devices and containers, monitoring instruments, radios, clipboards, etc.) on plastic drop cloths or in different containers with plastic liners. Segregation at the drop reduces the probability of cross-contamination. During hot weather operations, cool-down stations may be set up within this area.

**Station 2: Boot Cover and Glove Wash**
Scrub outer boot covers and gloves with decon solution or detergent and water.

**Station 3: Boot Cover and Glove Rinse**
Rinse off decon solution from Station 2 using copious amounts of water.

**Station 4: Tape Removal**
Remove tape around boots and gloves and deposit in container with plastic liner.

**Station 5: Boot Cover Removal**
Remove boot covers and deposit in container with plastic liner.

**Station 6: Outer Glove Removal**
Remove outer gloves and deposit in container with plastic liner.

**Station 7: Suit and Safety Boot Wash**
Wash chemical-resistant splash suit, SCBA, gloves, and safety boots. Scrub with long-handle scrub brush and decon solution. Wrap SCBA regulator (if belt mounted type) with plastic to keep out water. Wash backpack assembly with sponges or cloths.

**Station 8: Suit, SCBA, Boot, and Glove Rinse**
Rinse off decon solution using copious amounts of water.

**Station 9: Tank Change**
If worker leaves exclusion zone to change air tank, this is the last step in the decontamination procedure. Worker's air tank is exchanged, new outer gloves and boot covers are donned, joints are taped, and worker returns to duty.

**Station 10: Safety Boot Removal**
Remove safety boots and deposit in container with plastic liner.

**Station 11: SCBA Backpack Removal**
While still wearing face piece, remove backpack and place on table. Disconnect hose from regulator valve.

**Station 12: Splash Suit Removal**
With assistance of helper, remove splash suit. Deposit in container with plastic liner.

**Station 13: Inner Glove Wash**
Wash inner gloves with decon solution.

**Station 14: Inner Glove Rinse**
Rinse inner gloves with water.

**Station 15: Face Piece Removal**
Avoid touching face with fingers.

**Station 16: Inner Glove Removal**
Remove inner gloves and deposit in container with liner.

**Station 17: Inner Clothing Removal**
Remove inner clothing. Place in container with liner. Do not wear inner clothing off-site since there is a possibility that small amounts of contaminants may have been transferred in removing the fully-encapsulating suit.

**Station 18: Field Wash**
Shower if highly toxic, skin-corrosive or skin-absorbable materials are known or suspected to be present. Wash hands and face if shower is not available.

**Station 19: Redress**
Put on clean clothes.

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MAXIMUM DECONTAMINATION LAYOUT FOR LEVEL B PROTECTION

EXCLUSION ZONE

Outer Glove Removal

1

BOOD COVER & GLOVE WASH

Boots Cover & Glove Wash

5

Tapo Removal

4

End Bowled Equipment Drop

Segregated Equipment Drop

9

TANK CHICHE
Boot Cover Boot Wash

8

Suit/SCBA Boot /Glove Rinse

Safety Boot Removal

10

SCBA Backpack Removal

11

Splash Suit Removal

12

Inner Glove Wash

13

Face Piece Removal

14

Inner Glove Removal

15

Inner Clothing Removal

17

Field Wash

18

Redress

19

CONTAMINATION REDUCTION ZONE

CONTAMINATION CONTROL ZONE

SUPPORT ZONE
MINIMUM MEASURES FOR LEVEL B DECONTAMINATION

Station 1: Equipment Drop
Deposit equipment used on-site (tools, sampling devices and containers, monitoring instruments, radios, clipboards, etc.) on plastic drop cloths. Segregation at the drop reduces the probability of cross contamination. During hot weather operations, a cool-down station may be set up within this area.

Station 2: Outer Garment, Boots, and Gloves Wash and Rinse
Scrub outer boots, outer gloves, and chemical-resistant splash suit with decon solution or detergent water. Rinse off using copious amounts of water.

Station 3: Outer Boot and Glove Removal
Remove outer boots and gloves. Deposit in container with plastic liner.

Station 4: Tank Change
If worker leaves exclusion zone to change air tank, this is the last step in the decontamination procedure. Worker's air tank is exchanged, new outer gloves and boot covers are donned, joints are taped, and worker returns to duty.

Station 5: Boot, Gloves, and Outer Garment Removal
Boots, chemical-resistant splash suit, and inner gloves are removed and deposited in separate containers lined with plastic.

Station 6: SCBA Removal
SCBA backpack and face piece are removed. Avoid touching face with fingers. SCBA is deposited on plastic sheets.

Station 7: Field Wash
Hands and face are thoroughly washed. Shower as soon as possible.
MAXIMUM MEASURES FOR LEVEL C DECONTAMINATION

Station 1: Segregated Equipment Drop
Deposit equipment used on-site (tools, sampling devices and containers, monitoring instruments, radios, clipboards, etc.) on plastic drop cloths or in different containers with plastic liners. Segregation at the drop reduces the possibility of cross-contamination. During hot weather operations, a cool-down station may be set up within this area.

Station 2: Boot Cover and Glove Wash
Scrub outer boot covers and gloves with decon solution or detergent and water.

Station 3: Boot Cover and Glove Rinse
Rinse off decon solution from Station 2 using copious amounts of water.

Station 4: Tape Removal
Remove tape around boots and gloves and deposit in container with plastic liner.

Station 5: Boot Cover Removal
Remove boot covers and deposit in container with plastic liner.

Station 6: Outer Glove Removal
Remove outer gloves and deposit in container with plastic liner.

Station 7: Suit and Boot Wash
Wash splash suit, gloves, and safety boots. Scrub with long-handled scrub brush and decon solution.

Station 8: Suit, Boot, and Glove Rinse
Rinse off decon solution using water. Repeat as many times as necessary.

Station 9: Canister or Mask Change
If worker leaves exclusion zone to change canister (or mask), this is the last step in the decontamination procedure. Worker’s canister is exchanged, new outer gloves and boot covers are donned, and joints are taped. Worker returns to duty.

Station 10: Safety Boot Removal
Remove safety boots and deposit in container with plastic liner.

Station 11: Splash Suit Removal
With assistance of helper, remove splash suit. Deposit in container with plastic liner.

Station 12: Inner Glove Wash
Wash inner gloves with decon solution.

Station 13: Inner Glove Rinse
Rinse inner gloves with water.

Station 14: Face Piece Removal
Remove face piece. Deposit in container with plastic liner. Avoid touching face with fingers.

Station 15: Inner Glove Removal
Remove inner gloves and deposit in lined container.

Station 16: Inner Clothing Removal
Remove clothing soaked with perspiration and place in lined container. Do not wear inner clothing off-site since there is a probability that small amounts of contaminants might have been transferred in removing the fully-encapsulating suit.

Station 17: Field Wash
Shower if highly toxic, skin-corrosive, or skin-absorbable materials are known or suspected to be present. Wash hands and face if shower is not available.

Station 18: Recess
Put on clean clothes.
MAXIMUM DECONTAMINATION LAYOUT FOR LEVEL C PROTECTION

EXCLUSION ZONE

Outer Glove Removal 5

Tape Removal 4  Boot Cover & Glove Wash 3

Boot Cover & Glove Rinse 2

Segregated Equipment Drop

Tank Change and Redress - Boot Cover/Outer Gloves 9

Suit/Safety Boot Wash 7

Suit/SCBA/Boot/Glove Rinse 8

Safety Boot Removal 10

Splash Suit Removal 11

Inner Glove Wash 12

Inner Glove Rinse 13

Face Piece Removal 14

Inner Glove Removal 15

Inner Clothing Removal 15

CONTAMINATION REDUCTION ZONE

Field Wash 17

Redress 15

CONTAMINATION CONTROL ZONE

SUPPORT ZONE
MINIMUM MEASURES FOR LEVEL C DECONTAMINATION

Station 1: Equipment Drop
Deposit equipment used on-site (tools, sampling devices and containers, monitoring instruments, radios, clipboards, etc.) on plastic drop cloths. Segregation at the drop reduces the probability of cross contamination. During hot weather operations, a cool-down station may be set up within this area.

Station 2: Outer Garment, Boots, and Gloves Wash and Rinse
Scrub outer boots, outer gloves, and splash suit with decon solution or detergent water. Rinse off using copious amounts of water.

Station 3: Outer Boot and Glove Removal
Remove outer boots and gloves. Deposit in container with plastic liner.

Station 4: Canister or Mask Change
If worker leaves exclusion zone to change canister (or mask), this is the last step in the decontamination procedure. Worker’s canister is exchanged, new outer gloves and boot covers are donned, joints are taped, and worker returns to duty.

Station 5: Boot, Gloves, and Outer Garment Removal
Boots, chemical-resistant splash suit, and inner gloves are removed and deposited in separate containers lined with plastic.

Station 6: Face Piece Removal
Face piece is removed. Avoid touching face with fingers. Face piece is deposited on plastic sheets.

Station 7: Field Wash
Hands and face are thoroughly washed. Shower as soon as possible.