

#### 4.1. TOXIC RELEASE RESPONSE

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##### LEVEL 4 (RED) MOST HAZARDOUS RELEASE (NONCONTAINABLE)

R1. Notify crew and **MCC**, "Identify module(s) affected by release."

If shuttle crew in ISS

Inform shuttle crew to return to shuttle.

Close PMA APAS Hatch.

SM  
Central  
Post &  
FGB  
429,  
Russian  
Laptop

R2. ATM pb – press

CCPK R3. All crew don/activate emergency breathing apparatus and Silver Shield Gloves.

R4. Check **MCC** for Russian Segment steps.

R5. Check **MCC** in order to activate charcoal-based systems.

R6. If SM PO compartment affected by release  
Perform {5.1. ISS EMERGENCY EGRESS} p. 5-1E.

R7. Isolate affected modules from ISS.

Level 3 (ORANGE) Actions on Next Page

#### 4.1. TOXIC RELEASE RESPONSE

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### LEVEL 3 (ORANGE) HAZARDOUS RELEASE (CONTAINABLE)

O1. Notify crew and **MCC**, "Identify module(s) affected by release."

If shuttle crew in ISS

Inform shuttle crew to return to shuttle.

Close PMA APAS Hatch.

SM O2. ATM pb – press

Central

Post &

FGB

429,

Russian

Laptop

CCPK O3. All crew don/activate emergency breathing apparatus and Silver Shield Gloves.

O4. Clean up spill with Dry Wipes.  
Bag, label, stow in trash.

O5. Check **MCC** for Russian Segment steps.

If cleanup fails, elevate release to Level 4 >>

O6. Deact/doff emergency breathing apparatus, gloves.  
Stow gloves in trash.

O7. Inform other crew, **MCC**, "Spill cleaned up."

Level 2 (YELLOW) Actions on Next Page

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**LEVEL 2 (YELLOW) HAZARDOUS RELEASE**

- Y1. Notify crew and **MCC**, "Identify module(s) affected by release."
- SM Y2. ATM pb – press  
Central  
Post &  
FGB  
429,  
Russian  
Laptop
- CCPK Y3. All crew in vicinity don goggles, surgical masks, Silver Shield Gloves.
- Y4. Clean up spill with Dry Wipes.  
Bag, label, stow in trash.
- Y5. Check **MCC** for Russian Segment steps.
- If clean up fails, elevate to a Level 4 release >>
- Y6. Doff goggles, surgical masks, and gloves.  
Stow gloves in trash.
- Y7. Inform other crew, **MCC**, "Release cleaned up."
- Level 1 (BLUE) Actions on Next Page

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**LEVEL 1 (BLUE) LEAST HAZARDOUS RELEASE**

- B1. Notify crew and **MCC**, "Identify module(s) affected by release."
- SM B2. ATM pb – press  
Central  
Post &  
FGB  
429,  
Russian  
Laptop
- CCPK B3. If required, all crew in vicinity don goggles, surgical masks, latex gloves.
- B4. Clean up spill with Dry Wipes.  
Bag, label, stow in trash.
- B5. Check **MCC** for Russian Segment steps.
- B6. If required, doff goggles, surgical masks, gloves.  
Stow gloves in trash.
- B7. Inform other crew, **MCC**, "Release cleaned up."

**LEVEL 0 (GREEN) NONHAZARDOUS RELEASE**

- G1. Notify crew and **MCC**, "Identify module(s) affected by release."
- CCPK G2. Clean up spill with Dry Wipes.  
Bag, label, stow in wet trash.
- G3. Check **MCC** for Russian Segment steps.