**Report Date:** 24 Apr 2012

**Summary Report for Individual Task**
**031-507-3029**
**Conduct Decontamination Operations Using Nonstandard Decontaminants/Techniques**
**Status: Approved**

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**Condition:** As the CBRN Officer/NCO your company has been contaminated and you have been directed to conduct decontamination operations. You've noticed your unit doesn't have sufficient supplies of standard decontaminants, however, a sufficient supply of nonstandard decontaminants are available. You have been given M8 paper, M9 paper, ICAM and FM 3-11.5. Some iterations of this task should be performed in MOPP.

**Standard:** Conduct decontamination operations using nonstandard decontamination techniques ensuring that a negative reading is achieved using detector equipment IAW FM 3-11.5.

**Special Condition:** None

**Special Standards:** None

**Special Equipment:**

**MOPP:** Sometimes

**Task Statements**

**Cue:** None

## DANGER

None

## WARNING

None

## CAUTION

Do not use nonstandard decontaminants that are corrosive. They also may remove critical markings from ammunition.

**Remarks:** None

**Notes:** Do not use the M295 IEDK. It contains an abrasive sorbent, which may damage the optics.

**Performance Steps**

1. Determine the use of the nonstandard decontaminate according to Appendix C, FM 3-11.5.

    a. Determine the agent to be decontaminated.

    b. Determine the surface to be decontaminated.

    c. Determine the temperature of the area where the decontaminate will be used.

2. Choose the nonstandard decontaminate according to the agent and surface to be decontaminated IAW Appendix C FM 3-11.5:

    a. Perchloroethylene.

    b. Sodium Hydroxide.

    c. Potassium hydroxide.

    d. Detrochlorite.

    e. Iodine water purification tablets.

    f. Ethylene oxide.

    g. Carbon dioxide.

    h. Acids.

    i. Dichlorine B or T.

    j. Hexachloramelamine.

    k. Acetone.

    l. Diethyl ether.

    m. Household ammonia.

    n. Sodium carbonate (washing or laundry soap).

    o. Solvents (gasoline, diesel).

    p. Ethylene glycol.

    q. Sodium hypochlorite (household bleach).

3. Determine the vulnerability and sensitivity of equipment being used for decontamination and detection according to Table H-1 and H-2 of FM 3-11.5.

4. Categorize the food decontamination into four steps:

    a. Group I. Canned or packaged items exposed only to a chemical warfare (CW) agent vapor.

b. Group II. Canned or packaged items that are contaminated on the outside with a liquid CW agent, a biological warfare (BW) agent, or radioactive fallout.

c. Group III. Unpacked or poorly packaged items that have been exposed to any CBRN agent.

d. Group IV. Food contaminated through the food chain.

5. Determine the effects of the weather environment and the influence it has in the decontamination process.

6. Determine the CBRN assets and what the capabilities are:

a. CBRN Brigade.

b. CBRN Battalion.

c. CBRN Companies.

7. Determine the proper decontamination kits, apparatuses, and equipment to perform decontamination operations IAW FM 3-11.5:

8. Determine contaminated-waste holding areas.

9. Identify unit waste accumulation points.

10. Conduct procedures for the collection of contaminated waste.

11. Coordinate transportation of contaminated waste through the CBRN control center (CC).

(Asterisks indicates a leader performance step.)

**Evaluation Preparation:** Setup: This task will be conducted in a field environment.
Brief the Soldier of the dangers and proper equipment for handling the nonstandard agents.
Be aware of the environmental laws and regulations associated with the agents used.

| PERFORMANCE MEASURES | GO | NO-GO | N/A |
|---|---|---|---|
| 1. Determined the use of the nonstandard decontaminate according to Appendix C, FM 3-11.5. | | | |
| 2. Chose the nonstandard decontaminate according to the agent and surface to be decontaminated IAW Appendix C FM 3-11.5: | | | |
| a. Perchloroethylene. | | | |
| b. Sodium Hydroxide. | | | |
| c. Potassium hydroxide. | | | |
| d. Detrochlorite. | | | |
| e. Iodine water purification tablets. | | | |
| f. Ethylene oxide. | | | |
| g. Carbon dioxide. | | | |
| h. Acids. | | | |
| i. Dichlorine B or T. | | | |
| j. Hexachloramelamine. | | | |
| k. Acetone. | | | |
| l. Diethyl ether. | | | |
| m. Household ammonia. | | | |
| n. Sodium carbonate (washing or laundry soap). | | | |
| o. Solvents (gasoline, diesel). | | | |
| p. Ethylene glycol. | | | |
| q. Sodium hypochlorite (household bleach). | | | |
| 3. Determined the vulnerability and sensitivity of equipment be decontaminated IAW FM 3-11.5. | | | |
| 4. Categorized the food decontamination into four steps: | | | |
| a. Group I. Canned or packaged items exposed only to a CW agent vapor. | | | |
| b. Group II. Canned or packaged items that are contaminated on the outside with a liquid CW agent, a BW agent, or radioactive fallout. | | | |
| c. Group III. Unpacked or poorly packaged items that have been exposed to any CBRN agent. | | | |
| d. Group IV. Food contaminated through the food chain. | | | |
| 5. Determined the effects of the weather environment and the influence it played in the decontamination process. | | | |
| 6. Determined the CBRN assets and what the capabilities were: | | | |
| a. CBRN brigade. | | | |
| b. CBRN battalion. | | | |
| c. CBRN companies. | | | |
| 7. Determined the proper decontamination kits, apparatuses, and equipment to perform decontamination operations IAW FM 3-11.5. | | | |
| 8. Determined contaminated-waste holding area. | | | |
| 9. Identified unit waste accumulation points. | | | |
| 10. Conducted procedures for the collection of contaminated waste. | | | |
| 11. Coordinated transportation of contaminated waste through the CBRN control center (CC). | | | |

**Supporting Reference(s):**

| Step Number | Reference ID | Reference Name | Required | Primary |
|---|---|---|---|---|
| | FM 3-11.5 | MULTISERVICE TACTICS, TECHNIQUES, AND PROCEDURES FOR CHEMICAL, BIOLOGICAL, RADIOLOGICAL, AND NUCLEAR DECONTAMINATION | Yes | Yes |
| | TM 3-6665-343-10 | OPERATORS MANUAL FOR IMPROVED CHEMICAL AGENT MONITOR (ICAM) (NSN 6665-01-357-8502) (EIC: 5AB) | No | No |

**Environment:** Environmental protection is not just the law but the right thing to do. It is a continual process and starts with deliberate planning. Always be alert to ways to protect our environment during training and missions. In doing so, you will contribute to the sustainment of our training resources while protecting people and the environment from harmful effects. Refer to FM 3-34.5 Environmental Considerations and GTA 05-08-002 Environmental-Related Risk Assessment.

**Safety:** In a training environment, leaders must perform a risk assessment in accordance with FM 5-19, Composite Risk Management. Leaders will complete a DA Form 7566 COMPOSITE RISK MANAGEMENT WORKSHEET during the planning and completion of each task and sub-task by assessing mission, enemy, terrain and weather, troops and support available-time available and civil considerations, (METT-TC). Note: During MOPP training, leaders must ensure personnel are monitored for potential heat injury. Local policies and procedures must be followed during times of increased heat category in order to avoid heat related injury. Consider the MOPP work/rest cycles and water replacement guidelines IAW FM 3-11.4, NBC Protection, FM 3-11.5, CBRN Decontamination. In a training environment, leaders must perform a risk assessment IAW FM 5-19, Composite Risk Management. Leaders will complete a DA Form 7566 Composite Risk Management Worksheet during the planning and completion of each task and sub-task by assessing mission, enemy, terrain and weather, troops and support available-time available, and civil considerations, (METT-TC). Note: During MOPP training, leaders must ensure personnel are monitored for potential heat injury. Local policies and procedures must be followed during times of increased heat category in order to avoid heat related injury. Consider the MOPP work/rest cycles and water replacement guidelines IAW FM 3-11.4 Multiservice Taxtics, Techniques, and Procedures for Nuclear, Biological, and Chemical (CBRN) Protection, FM 3-11.5 Multiservice Tactics, Techniques, and Procedures for Chemical, Biological, Radiological, and Nuclear Decontamination.

**Prerequisite Individual Tasks :** None

**Supporting Individual Tasks :** None

**Supported Individual Tasks :** None

**Supported Collective Tasks :**

| Task Number | Title | Proponent | Status |
|---|---|---|---|
| 03-3-1008 | Maintain Continuous Decontamination | 03 - CBRN (Collective) | Approved |
| 03-3-1005 | Conduct Decontamination Site Selection | 03 - CBRN (Collective) | Approved |
| 03-3-1004 | Plan a Decontamination Mission | 03 - CBRN (Collective) | Approved |
| 03-2-9224 | Conduct Operational Decontamination | 03 - CBRN (Collective) | Approved |

**ICTL Data :**

| ICTL Title | Personnel Type | MOS Data |
|---|---|---|
| AOC 74A - Chemical Officer - 1LT | Officer | AOC: 74A, Rank: 1LT |
| ALC CTL 2011 | Enlisted | MOS: 74D, Skill Level: SL3 |