

NAVSEA  
STANDARD ITEM

FY-11

ITEM NO: 009-86  
DATE: 01 AUG 2008  
CATEGORY: I

1. SCOPE:

1.1 Title: Recovery of Chlorofluorocarbon (CFC) Refrigerants and Fire Suppressant Halon (H) Materials; accomplish

2. REFERENCES:

2.1 49 CFR Part 173, General Requirements for Shipments and Packagings

3. REQUIREMENTS:

3.1 Recover CFC refrigerants and halon materials listed in 4.2 that are not recycled back into the specific system's equipment from which they were removed as follows:

3.1.1 Fire suppression (halon) cylinders and canisters with electrical charges or initiators must be deactivated and safety caps must be used to cover exposed actuating mechanisms and discharge ports prior to shipping the intact cylinder.

3.1.2 Recover other halon and CFC materials for turn-in to the DoD ODS Reserve at the Defense Depot Richmond VA (DDRV). Empty cylinders shall be used to recover the materials. Empty recovery cylinders can be requisitioned through normal MILSTRIP stock ordering procedures from DDRV. The cylinders used to recover CFC shall be painted orange and cylinders used for halon shall be painted red. Both cylinders shall have yellow tops and shall also have dual port valves to ease the recovery process.

3.1.2.1 Do not mix new materials with used materials and do not mix different types of materials in the same cylinders.

3.1.3 Ensure the recovered materials cylinder is tagged. The tag should be placed beneath the cylinder protective cap or attached securely to the container. Do not stencil on cylinder. The tag shall contain the following information:

3.1.3.1 The shipper's DOD Activity Address Code (DODAAC). If the turned-in material originates from a ship or submarine, use the DODAAC of the ship/submarine on the tag.

3.1.3.2 The shipping activity with point of contact and telephone number.

3.1.3.3 The National Stock Number (NSN) that applies to the filled cylinder being returned.

3.1.3.4 The identity of the recovered material (Navy recovered R-XXX, CFC-XXX, or HALON-XXXX).

3.1.3.5 The amount, in pounds, of recovered materials in the cylinder. Do not fill more than 80 percent of its water weight capacity.

3.1.3.6 Apply a warning/hazardous label to the cylinder in compliance with 2.1.

3.1.3.7 The quantity of containers on the pallet or within the shipping crate. When multiple containers with the same NSN are shipped palletized or in a box/crate, apply only one tag/label to the shipment, not to each item.

3.2 Prior to shipping the reclaimed materials to DDRV, notify the SUPERVISOR so that a DD Form 1348-1 MILSTRIP can be prepared and transaction authorization procured.

3.3 Upon receipt of the completed DD Form 1348-1, and transaction authority from the SUPERVISOR, ship the reclaimed materials to:

Defense Depot Richmond Virginia (DDRV)  
SWO400  
Cylinder Operations  
8000 Jefferson Davis Highway  
Richmond, VA 23297-5000

#### 4. NOTES:

4.1 If your activity is personally transporting ODS to the DoD ODS Reserve, be sure to schedule your delivery with the DDRV Dispatch Office at DSN 695-3834 or (804) 279-3834.

#### 4.2 Recovery Material - CFC's and Halons:

| <u>PRODUCT TYPE</u> | <u>PRODUCT TYPE WEIGHT</u> | <u>CYLINDER WATER WEIGHT</u> |
|---------------------|----------------------------|------------------------------|
| R-11                | 59                         | 42                           |
|                     | 170                        | 122                          |
|                     | 1400                       | 1000                         |
|                     | 100 (drum)                 | N/A                          |
|                     | 200 (drum)                 | N/A                          |
|                     | 650 (drum)                 | N/A                          |

| <u>PRODUCT TYPE</u> | <u>PRODUCT TYPE WEIGHT</u> | <u>CYLINDER WATER WEIGHT</u> |
|---------------------|----------------------------|------------------------------|
| R-12                | 45                         | 42                           |
|                     | 145                        | 122                          |
|                     | 1190                       | 1000                         |
| R-113               | 6 ounces                   | N/A                          |
|                     | 1 pint                     | N/A                          |
|                     | 1 quart                    | N/A                          |
|                     | 1 gallon                   | N/A                          |
|                     | 5 gallons (60 lbs)         | N/A                          |
|                     | 100 lbs (can)              | N/A                          |
|                     | 200 lbs (drum)             | N/A                          |
|                     | 55 gallons (drum)          | N/A                          |

Note: Only unused CFC-113 solvent contained in original drums or cans with unbroken seals shall be returned to DDRV. Used R-113 refrigerant can also be returned. Call (804) 279-5203 or DSN 695-5203 for specific turn-in guidance.

|        |          |      |
|--------|----------|------|
| R-114  | 57       | 42   |
|        | 165      | 122  |
|        | 1350     | 1000 |
| R-500  | 43       | 42   |
|        | 127      | 122  |
|        | 1045     | 1000 |
| R-502  | 44       | 42   |
|        | 125      | 122  |
|        | 1050     | 1000 |
| H-1202 | 160      | 122  |
| H-1211 | 1-5      |      |
|        | 6-10     |      |
|        | 11-20    |      |
|        | 21-60    |      |
|        | 61-125   |      |
|        | 126-200  | 122  |
|        | 200      | 122  |
|        | 201-340  |      |
|        | 341-1500 | 1000 |
|        | 1500     | 1000 |

| <u>PRODUCT TYPE</u> | <u>PRODUCT TYPE WEIGHT</u> | <u>CYLINDER WATER WEIGHT</u> |
|---------------------|----------------------------|------------------------------|
| H-1301              | 1-5                        |                              |
|                     | 6-10                       |                              |
|                     | 11-20                      |                              |
|                     | 21-70                      |                              |
|                     | 71-100                     |                              |
|                     | 101-117                    |                              |
|                     | 117                        |                              |
|                     | 118-125                    |                              |
|                     | 126-150                    |                              |
|                     | 150                        | 122                          |
|                     | 151-200                    |                              |
|                     | 201-260                    |                              |
|                     | 261-350                    |                              |
|                     | 351-530                    |                              |
|                     | 531-600                    |                              |
|                     | 601-1240                   |                              |
|                     | 1240                       | 1000                         |

4.3 Current NSNs for cylinders are available from the SUPERVISOR.

4.4 Condition codes for cylinders are as follows:

4.4.1 Condition Code A: To be used for returning original cylinders whose seal was never broken or for recovery cylinders.

4.4.2 Condition Code B: To be used for returning full, original cylinders or for standard DOD refillable cylinders.

4.4.3 Condition Code F: To be used to return partially depleted cylinders whose purity cannot be guaranteed or for returning other (non-standard/commercial) cylinders.

4.5 Definition of Recover - To remove refrigerant in any condition from a system and store it in an external container without necessarily testing or processing it in any way.