



DEPARTMENT OF THE NAVY
HEADQUARTERS UNITED STATES MARINE CORPS
3000 MARINE CORPS PENTAGON
WASHINGTON, DC 20350-3000

MCO 4030.16G
LPC-2
30 JUL 2014

MARINE CORPS ORDER 4030.16G

From: Commandant of the Marine Corps
To: Distribution List

Subj: MARINE CORPS PACKAGING AND PACKAGING MAINTENANCE OF SMALL
ARMS WEAPONS USING VOLATILE CORROSION INHIBITOR (VCI)
TREATED MATERIALS

Ref: (a) MIL-STD-2073-1E W/CH 1
(b) MCO P4030.31D
(c) SECNAV M-5210.1
(d) MIL-PRF-32295A
(e) MIL-C-372C
(f) MIL-PRF-32033
(g) MIL-B-121F
(h) PPP-C-1797A
(i) MIL-PRF-22019E
(j) ASTM-D-5486
(k) ASTM-D1974
(l) ASTM-D5188
(m) ASTM-D5168
(n) ASTM-D6251
(o) MIL-STD-129D W/CH 4
(p) 29 CFR 1910

Encl: (1) General Packaging Instructions For Small Arms Weapons

1. Situation. To provide instructions and general information on the preparation of small arms weapons for shipment and storage, and prescribe procedures for maintaining integrity of required protection during storage tenure per enclosure (1). This Order subscribes to the use of volatile corrosion inhibitor (VCI) materials for protection of small arms weapons during storage and shipment.

2. Cancellation. MCO 4030.16F.

3. Mission. To establish and execute the Marine Corps packaging of small arms weapons using VCI treated materials.

DISTRIBUTION STATEMENT A: Approved for public release;
distribution is unlimited.

4. Execution

a. Commander's Intent and Concept of Operations

(1) Commander's Intent. To provide policy on general preservation and packaging of small arms.

(2) Concept of Operations. The Marine Corps must follow Department of Defense guidance set forth for military packaging as outlined in references (a) and (b).

b. Subordinate Element Missions

(1) Commandant of the Marine Corps (CMC) (LPC-2) will act as the Marine Corps Preservation, Packaging and Packing manager responsible for ensuring this Order is adhered to by the appropriate stakeholders.

(2) Marine Forces (MARFOR's)

(a) Ensure that this Order is made available, understood, and used by all personnel responsible for Preservation, Packaging and Packing related duties.

(b) Develop and implement internal command policies and procedures to facilitate the execution of this Order.

(3) Marine Corps Logistics Command (MARCORLOGCOM)

(a) Ensure that this Order is made available, understood, and used by all personnel responsible for Preservation, Packaging and Packing related duties.

(b) Develop and implement internal command policies and procedures to facilitate the execution of this Order.

5. Administration and Logistics

a. Recommendations concerning the contents of this Order may be forwarded to CMC (LPC-2) via the appropriate chain-of-command.

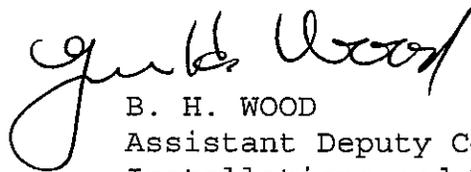
b. Records created as a result of this Order will be managed according to National Archives and Records Administration approved dispositions per reference (c) to ensure proper maintenance, use, accessibility and preservation, regardless of format or medium.

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6. Command and Signal

a. Command. This Order is applicable to the Marine Corps Total Force.

b. Signal. This Order is effective the date signed.



B. H. WOOD
Assistant Deputy Commandant for
Installations and Logistics

DISTRIBUTION: PCN 10203990000

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General Packaging Instructions For Small Arms Weapons

1. Disassembly. Weapons will be disassembled as necessary to accomplish complete and thorough cleaning, but not beyond that allowed by the unit's authorized echelon of maintenance.

2. Cleaning. Thorough cleaning is the first essential procedure in any effective preservation cycle. No method of preservation will protect a weapon if contaminants are present on the surface of the item when the preservative is applied. Improper cleaning will render all subsequent packaging operations ineffective. Specifically for the purpose of this process for small arms weapons, Solvent Cleaning Process (C-3), per references (a) and (b), is preferred. Process (C-3) is normally a "two step" process, unless accomplished by pressure spray. The weapon is initially cleaned in petroleum solvent and drained. The initial cleaning will be followed by a secondary cleaning using another container or cloth. Cleaning solvent will conform to reference (d). Protective gloves will be worn to avoid fingerprint contamination and possible skin irritation.

a. All metallic surfaces/parts will be cleaned by dipping, scrubbing, or wiping utilizing process C-3 per references (a) and (b). Nonmetallic parts will be cleaned by process C-1 per references (a) and (b). Parts that have been exposed to burned powder residues (i.e., the bolt, bolt carrier assembly, firing pin, barrel bore and chamber, tip of the operating rod, etc.) require special cleaning. These parts must be scrubbed clean with bristle brushes and/or swabs saturated with rifle bore cleaner conforming to reference (e). Additionally, three complete passes through the bore using the appropriate brush saturated with bore cleaner must be accomplished to meet minimum bore cleaning requirements. Flush all scrubbed surfaces with solvent conforming to reference (d).

b. Cleaned parts shall then be wiped with clean dry patches, or cloths until no discoloration appears. Repeat cleaning with bore brush, if required.

c. Rinse all metal parts in clean solvent conforming to reference (d).

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3. Drying. Immediately after cleaning, all parts will be thoroughly dried prior to application of the preservative. Drying will be accomplished in accordance with references (a) and (b) utilizing procedure D-1 (blowing with dry compressed air) except the barrel bore, chamber and flash suppressor which will be dried utilizing procedure D-4 (wiping with clean, dry, lint free swabs and/or clothes).

4. Preserving. Immediately after drying, all metallic surfaces/parts will be coated with a thin coating of preservative conforming to reference (f), applied by any applicable procedure. Operating and mating parts will be actuated to ensure all surfaces are coated with the preservative. Excess preservative shall be thoroughly drained from the coated surfaces. Wipe metal surfaces of stock and handgrip with a clean cloth moistened with the same preservative oil. The preserved weapon shall be allowed to drain for a minimum of one hour prior to continuing with the packaging process.

5. Packaging. If a manual is provided with the weapon, it will also be encapsulated in barrier material. Assemble all parts of the weapon that were disassembled for cleaning. Examine lower receiver to assure that the hammer is in the fired position (against the bolt catch). Insert a VCI bore tube into the barrel. Any sharp and/or protruding areas on the weapon must be cushioned with a noncorrosive material (i.e., barrier material, greaseproofed, waterproofed, flexible, cushioning material, resilient, low density, unicellular, polypropylene foam to prevent puncture of the barrier material). The assembled weapon will then be sandwiched between layers of barrier materials, transparent, flexible, sealable, VCI treated, Type II, pressure cold sealable per reference (i). The barrier material must be completely sealed around the weapon with no visible channels through the seal. The encapsulated weapon will be immobilized with the serial number facing up in the fiberboard box. Place the magazine, sling, and manual (if provided) in the box and secure to the bottom with tape (i.e., ASTM-D5486). Close the container and seal all seams and joints with tape per reference (j). Fiberboard containers will conform to standards as outlined in references (k) and (l). For shipment and storage, small arms weapons packaged as prescribed herein will be packed in triple-wall fiberboard per reference (m); and cleated-plywood boxes per reference (n) for Level A, based on quantity, content weight, shipment destination, type of storage anticipated and/or mode of transportation.

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6. Marking. Marking of unit and exterior containers will be per the requirements of reference (o). Packing lists are required.

7. Special Marking Requirements

a. Serial Numbers. Serial number marking is required and will be listed on the packing list.

b. Marking of Sensitive Items. Marking of sensitive items in accordance with reference (o) is required.

8. Safety Precautions. Appropriate safety precautions must be established and observed at all times to protect personnel from materials which may present fire hazards or cause skin irritations in accordance with reference (p).

a. Rubber gloves will be used during the cleaning and preserving process to prevent possible skin burns or irritation by the solvents and to avoid contaminating the metal surfaces of the weapons with fingerprints in accordance with reference (p).

b. Solvents will only be used in a well ventilated room or area and appropriate precautions must be taken to prevent personnel from inhaling solvent vapors in accordance with reference (p).

c. Appropriate firefighting equipment will be readily accessible, in working order, and located near the work areas. Individuals will be instructed and trained in its proper use in accordance with reference (p).

d. Volatile liquids (i.e., gasoline) with low flash points will not be used for cleaning purposes. Dry cleaning solvent and bore cleaning compound, as prescribed herein, are recommended.

e. Personnel handling VCI materials will be instructed to wash their hands thoroughly with soap and water before eating and handling food.