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D E P A R T M E N T O F T H E A R M Y S U P P L Y B U L L E T I N

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**DOCUMENT DESTROYER, EMERGENCY**  
**INCENDIARY: M4**  
**AMMUNITION SURVEILLANCE PROCEDURE**  
**(DODAC 1375-M814)**

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**Headquarters, Department Of The Army, Washington, DC**  
**4 August 1982**

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SB 742-1375-94-800, 20 March 1981, is changed as follows:

*Page 3, paragraph 12a(l)(f). Delete "M72" to read "Both Fusees".*  
*paragraph 12b(l)(h). Delete "M72" to read "One Fusee".*

By Order of the Secretary of the Army:

E. C. MEYER  
*General, United States Army*  
*Official: Chief of Staff*

ROBERT M. JOYCE  
*Brigadier General, United States Army*  
*The Adjutant General*

Distribution:

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DEPARTMENT OF THE ARMY SUPPLY BULLETIN

DOCUMENT DESTROYER, EMERGENCY  
INCENDIARY: M4  
AMMUNITION SURVEILLANCE PROCEDURE  
(DODAC 1375-M814)

Headquarters, Department of the Army, Washington, DC  
20 March 1981

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**1. Purpose and Scope.** This bulletin when used in conjunction with SB 742-1, provides a method for determining the serviceability of the subject item.

The function testing in this procedure will be accomplished under a centralized control program managed by the U S Army Armament Materiel Readiness Command (ARRCOM), DRSAR-QAS, Rock Island, IL 61299. The provisions of this bulletin are mandatory for use by all Department of the Army organizations within CONUS and OCONUS with an ammunition receipt, storage, and distribution mission. This bulletin is not intended for use by organizations with stocks in basic loads. Additional information pertaining to frequency of test, sample selection, defect standards, reports, and records are contained in SB 742-1.

**2. Errors, Omissions, and Recommended Changes.**

Direct reporting of errors, omissions, and recommendations for improving this bulletin is authorized and encouraged. DA Form 2028 (Recommended Changes to Publications and Blank Forms) will be

completed and forwarded to Commander, ARRCOM, ATTN: DRSAR-QAS, Rock Island, IL 61299.

**3. Safety.** The surveillance visual examination and function testing must be conducted in accordance with the provisions set forth in appropriate safety regulations and implementing instructions, with special attention devoted to technical manuals describing the item.

**4. Personnel.** Visual examination and function testing will be conducted under the control of a Quality Assurance Specialist (Ammunition Surveillance) hereinafter referred to as QASAS.

**5. Size of Sample.** Unless otherwise directed, a sample size of 30 document destroyers is required to make up a representative sample from a lot for a surveillance visual examination and function test.

**6. Sample Selection.** Sample document destroyers will be selected in accordance with the provisions of SB 742-1.

**7. Surveillance Test Equipment.** The following equipment and materials are to be used in testing document destroyers in accordance with this procedure.

a. Ammunition peculiar equipment (APE) APE 1916M1 Oven, Preconditioning.

b. Additional test equipment Analytical Balance (Ainsworth Model A-4 or equal)- 1 each Desiccator (Fisher, Catalog No. 8-61SB or equal) - 4 each Weighing Bottles (Fisher Catalog No. 3-422D or equal) - 90 each Sample Bottles (Fisher Catalog No. 3-335-10B or equal) - 30 each Tongs, Stainless Steel (Fisher Catalog No.15-186 or equal) - 1 pair.

c. Materials Indicating dessicant for desiccators (Fisher Catalog No. 7-578-3B or equal) Lead Seal Wires (for resealing lever lock ring of drum cover) - 30 each

**8. Preparation for Test.** In the preparation for test, each sample document destroyer and its components will be visually inspected. Classify any defects found in accordance with paragraphs 11 and 12 below.

a. Number the sample document destroyers 1 through 30. On the same line as the sample number, record the Munitions Surveillance Report (entry 2 on DA Form 984). Use a permanent type marker to preclude selecting these document destroyers a second time for testing.

b. For each document destroyer, break, remove and discard the lead seal wire that secures the lever lock ring and handle in place. Operate the handle and remove the lever lock ring. Remove the drum cover from the 55-gallon metal outer drum.

Remove the plastic foam packing pad and the plastic foam packing ring, exposing the oxidizing agent. At this time the interior of the document destroyer may be examined for missing and/or damaged components. Reseal as required.

c. Fill one sample bottle (Fisher Catalog No. 3-335-10B or equal) with loose oxidizing agent. Cap the sample bottle immediately and mark with lot number, sample number and Munitions Surveillance Report Number.

d. Replace the plastic foam packing ring and the plastic foam packing pad. Replace the drum cover and secure with lever lock ring. Install a new lead seal wire.

e. Complete the entire operation above for each document destroyer before proceedings to the next one in order to minimize the time that loose oxidizing agent is exposed to moisture in the air.

**9. Test Procedure.** This test is to measure the moisture content of the oxidizer. It is a nondestructive test to aid in evaluating the serviceability of the stockpile of M4 Document Destroyers. The average percent moisture content for each sample document destroyer

will be determined by using three - 10 gram samples of oxidizer. Make all weights in grams to the nearest 0.0001 gram (0.1 milligram). For a given sample document destroyer, report the moisture content (in percent) of each 10 gram sample of oxidizer and the computed average of the three oxidizer samples.

a. Using the loose oxidizer from each sample document destroyer (see para & above), and the three tared weighing bottles, weigh out three - 10 gram samples of oxidizer.

b. Place each tared weighing bottle containing the 10 grams of oxidizer in the oven and heat uncovered for at least three hours at 110° + 50C.

c. Remove each bottle from the oven and place in a desiccator. Allow to cool for a minimum of 12 hours.

d. Remove each bottle from the desiccator. Cover and weigh.

e. Calculate the loss in weight as the percent of moisture in the loose oxidizer as follows:

$$\text{Percent moisture} = 100 \left( \frac{A-B}{W} \right), \text{ where}$$

A = Weight of the bottle plus the loose oxidizer before drying

B = Weight of the bottle plus the loose oxidizer after drying

W = Weight of the loose oxidizer before drying.

**10. Observations.** All observations of nonstandard conditions and malfunctions, especially those not included among the defects listed in paragraphs 12 and 13, should be described in full detail. Pictorial evidence of nonstandard conditions should be included whenever pertinent and practical. The observations to be reported are as follows:

a. Percent moisture in the oxidizer for each 10 gram oxidizer sample.

b. Computed average percent moisture of the 10 gram oxidizer samples.

c. All instances of any of the following:

(1) Nonstandard marking; state whether unidentifiable, incomplete or misleading.

(2) Rust or corrosion: give exact location and extent.

(3) The occurrence of any nonstandard conditions or malfunctions classified as defects in paragraphs 12 and 13.

(4) The occurrence of any nonstandard conditions or malfunctions not classified as defects in paragraphs 12 and 13; but which, in the opinion of responsible personnel, merits consideration.

**11. Classification of Defects.** Defects observed during inspection and testing will be classified in accordance with paragraphs 12 and 13, and SB 742-1. Any defects observed which are not listed in paragraphs 12 and 13 will be described fully and reported with the recommendations of the QASAS as to classification.

**12. Nonfunctioning Defects.**

- a. *Major*
  - (1) Missing component as follows:
    - (a) Outer drum cover
    - (b) Lever lock ring
    - (c) Screen cover
    - (d) Igniter bag
    - (e) Oxidizing agent
    - (f) Both M72 fusees
  - (2) Damage to the metal outer drum to the extent that:
    - (a) Components have major damage
    - (b) Proper loading of the paper products cannot be accomplished
    - (c) Use of the document destroyer is not possible
    - (3) Lever lock ring inoperable
    - (4) Major damage to any component
    - (5) Major rust
    - (6) Major corrosion
- b. *Minor*
  - (1) Missing components as follows:
    - (a) Gasket of outer drum cover
    - (b) Lead seal wire used to seal lever lock ring and handle
    - (c) Extra lead seal wire which should be taped to inner drum cover
    - (d) Preparation instruction card
    - (e) Operation instruction card
    - (f) Extra operation instruction card cemented to underside of outer drum cover
    - (g) Inner drum cover
    - (h) One M72 fusee
  - (2) Gasket of outer drum cover ineffective (state whether loose, deteriorated, or not pliable)
  - (3) Fiberboard drum is cracked or damaged (to the extent that oxidizing agent is inside fiberboard drum)
  - (4) Igniter bag is leaking igniter mixture
  - (5) Marking is missing, misleading or unidentifiable
  - (6) Minor damage to any component
  - (7) Minor rust
  - (8) Minor corrosion

**13. Functioning defects**

a. *Major*  
Moisture content of oxidizer greater than 1.0 percent (average of three 10 gram samples).

b. *Minor*  
Moisture content of oxidizer between 0.75 and 1.0 percent inclusive (average of three 10 gram samples).

**14. Evaluation.** Functional codes and nonfunctional characteristics will be recommended in accordance with the following criteria. Based on the functional code and the nonfunctional characteristic, an interim condition code will be assigned in accordance with SB 742-1. A lot will be classified as Condition Code J and reported in accordance with SB 742-1 if one or more critical defects are observed.

a. *Nonfunctional Characteristics.*

(1) *Serviceable.* A lot not classified as Condition Code J shall qualify as serviceable if it meets the following requirements on inspection of 30 document destroyers by attributes:

- (a) Not more than 1 major defective
- (b) Not more than 2 minor defectives

(2) *Priority of issue.* A lot not classified as Condition Code J or serviceable shall qualify for priority of issue if it meets the following requirements on inspection of 30 document destroyers by attributes:

- (a) Not more than 4 major defectives
- (b) Nor more than 6 minor defectives

(3) *Unserviceable.* A lot not classified as Condition Code J, serviceable, or priority of issue, shall be classified as unserviceable.

b. *Functional Codes.*

(1) *Code A.* A lot not classified as Condition Code J shall qualify for Functional Code A if it meets the following requirements in the test of 30 document destroyers:

- (a) Not more than 1 major defective
- (b) Not more than 2 minor defectives

(2) *Code B.* A lot not classified as Condition Code J or Functional Code A shall qualify for Functional Code B if it meets the following requirements in the test of 30 document destroyers:

- (a) Not more than 4 major defectives
- (b) Not more than 6 minor defectives

(3) *Code D.* A lot not classified as Condition Code J, Functional Code A, or Functional Code B shall be Functional Code D.

**15. Records and Reports.** Visual examination and function test results will be recorded and reported on DA Form 984 as outlined in SB 742-1.

By Order of the Secretary of the Army:

E. C. MEYER  
*General, United States Army*  
*Chief of Staff*

Official:

J. C. PENNINGTON  
*Major General, United States Army*  
*The Adjutant General*

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