

DEPARTMENT OF THE ARMY SUPPLY BULLETIN

**SIMULATOR, PROJECTILE AIR BURST:
CHARGE, SMOKE PUFF, WHITE
SURVEILLANCE FUNCTION TEST**

Headquarters, Department of the Army, Washington, D. C.,
21 October 1971

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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 bulletin is to be used in the assessment of the serviceability of individual simulators only. The provisions of this bulletin are mandatory for use by all Department of the Army organizations within CONUS and overseas with a receipt, storage, and issue 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) will be completed and forwarded direct to Commanding Officer, U. S. Army Aberdeen Research and Development Center, ATTN:

AMXRD-ARW, Aberdeen Proving Ground, Md. 21005.

3. Safety. The surveillance 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 material.

4. Size of Sample. The number of simulators required to make up a representative sample from a lot for a surveillance function test is as follows: For check investigation as directed For classification investigation 40 For confirmation investigation as directed

5. Sample Selection. Sample simulators will be selected in accordance with the provisions of SB 742-1 with the exception that not more than ten simulators may be selected from any one box.

6. Preparation for Test. The simulators will be numbered 1 through 40. A sufficient quantity of Primer, Percussion: Cap, Smoke Puff (FSN 1370-028-5248-

L130 and Drawing No. A-8826) should be on hand for the priming of the simulators as each simulator requires its own percussion primers.

7. Test Procedure. a, The simulators will be fired from the smoke puff discharger or by use of the appropriate part on the surveillance test table APE 1903.

b. Simulators will not be fired when the wind velocity exceeds 15 mph.

8. Observations. All observations of nonstandard conditions and malfunctions especially those not included among the defects listed in paragraphs 10 and 11 below, should be described in full detail. Pictorial evidence of nonstandard conditions, whenever pertinent and practical, should be included. The observations to be reported are as follows:

a. Duration of opaqueness of smoke cloud (time to the nearest five seconds between the burst and transparency of the cloud).

b. Diameter of the smoke cloud, to the nearest five feet.

c. All instances of any of the following:

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

(2) The occurrence of any nonstandard conditions or malfunctions classified as defects in paragraphs 10 and 11 below.

(3) The occurrence of any nonstandard condition or malfunctions not classified as defects in paragraphs 10 and 11 below, but which in the opinion of responsible personnel merits consideration.

9. Classification of Defects. Defects observed during inspection and testing will be classified in accordance with paragraphs 10 and 11 below and SB 742-1.

Any defects observed which are not listed in paragraphs 10 and 11 will be fully described and reported with the ammunition inspector's recommendation as to classification.

10. Nonfunctioning Defects. a. Major

- (1) Loose top or bottom.
- (2) Loose drumhead.
- (3) Black powder caked solid.
- (4) Major damage to components such as:
 - (a) Bulging of the simulator.
 - (b) Broken body of the simulator.
 - (c) Ruptured drumhead.

b. *Minor*

(1) Poor coating of parafin wax (coating does not completely cover simulator or coating is too thin).

(2) Black powder partially caked.

11. Functioning Defects. a. *Major*

- (1) Misfire due to defective simulator.
- (2) Hangfire due to defective simulator.
- (3) Simulator is not ejected.
- (4) Simulator is ejected but fails to smoke.

b. *Minor.* Smoke cloud breaks up immediately upon firing.

12. Evaluation. Functional and nonfunctional codes will be recommended in accordance with the following criteria and the interim condition code will be assigned in accordance with SB 700-1300-1. A lot will be classified Condition Code J and reported if one critical defect is observed.

a. *Nonfunctional Codes.*

(1) Code A. A lot not classified as Code J shall qualify for Code A if it meets the following requirements on inspection of 40 simulators by attributes.

- (a) Not more than 2 major defectives.
- (b) Not more than 5 major defectives.

(2) Code B. A lot not classified as Code J or Code A shall qualify for Code B if it meets the following requirements on inspection of 40 simulators by attributes.

- (a) Not more than 5 major defectives.
- (b) Not more than 9 minor defectives.

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

b. *Functional Codes.*

(1) Code A. A lot not classified as Code J shall qualify for Code A if it meets the following requirements in the test of 40 simulators.

- (a) Not more than 2 major defectives.
- (b) Not more than 5 minor defectives.

(2) Code B. A lot not classified as Code J or Code A shall qualify for Code B if it meets the following requirements in the test of 40 simulators.

- (a) Not more than 5 major defectives.
- (b) Not more than 9 minor defectives.

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

13. Records and Reports. Function test results will be recorded and reported as outlined in SB 742-1.

By the Order of the Secretary of the Army:

**W.C. WESTMORELAND,
General, United States Army,
Chief of Staff**

VERNE L. BOWERS,
Major General, United States Army,
The Adjutant General

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NG: None

USAR: None

For explanation of abbreviations used, see AR 310-50.

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