DEPARTMENT OF THE ARMY SUPPLY BULLETIN

AMMUNITION SURVEILLANCE PROCEDURES FOR DISPERSER AND RIOT CONTROL AGENT, MANUALLY CARRIED, CR, M36

Headquarters, Department of the Army, Washington, DC
28 March 1980

1. Purpose and Scope. a. *Purpose*. This bulletin, when used in conjunction with supply bulletin SB 742-1, provides the method of determining the serviceability of the Disperser and Riot Control Agent, Manually Carried, CR, M36 (DODAC 1365-K532).

b. *Scope.* When conducting surveillance inspection, the provisions of this bulletin are mandatory for use by all Department of the Army organizations withing CONUS AND OCONUS with a receipt, storage and issue mission. The requirements, procedures and programs established in SB 742-1, as applicable to chemical ammunition, form a part of this bulletin except where otherwise stated in this bulletin. This bulletin is not intended for use by organizations with stocks in basic loads.

2. References. The following publications form a part of this bulletin to the extent specified.

a. Army Regulation:

AR 725-50 - Requisitioning, Receipt and Issue System.

b. Supply Bulletin:

SB 742-1 - Ammunition Surveillance Procedures.

c. Technical Manuals:

TM 9.1300-206 - Ammunition and Explosive Standards.

TM 3-1365204-12 - Operators and Maintenance Manual Disperser and Riot Control Agent, Manually Carried, CR, M36 (To be published)

Military Standards:

MIL-STD-105 - Sampling Procedures and Tables for Inspection by Attributes

3. Safety. The surveillance inspection and function testing required by this bulletin must be conducted in accordance with the safety provisions and warnings set forth in TM 9-1300-206, TM 3-1365- 204-12, appropriate safety regulations and implementing instructions for Chemical Group B Munitions.

WARNING

Contents of M36 disperser under pressure. Do not store in area where temperature may exceed 130°F. (54.4°C.).

4. Surveillance. a. Surveillance Interval.

(1) Initial Receipt Inspection (IRI), Receipt Inspection (RI) and Preissue Inspection (PII). Initial receipt, receipt and preissue inspection will be conducted within the intervals established in SB 742-1.

(2) Periodic Inspection (PI). Periodic inspection will be conducted at the interval specified in SB

(3) Surveillance Function Test (SFT). Functional test intervals will be as determined under the Centralized Control Program managed by the US Army Armament Materiel Readiness Command, DRSAR-QAS, Rock Island, IL 61299.

b. Basic of Surveillance. Surveillance of the subject item will be conducted on the basis of manufacturer's and /or miscellaneous lots.

c. Formation of Surveillance Lots.

(1) Manufacturers lot (Ammunition lot). a quantity of ammunition which is manufactured or assembled by one producer under uniform conditions and which is expected to function in a uniform manner. An ammunition lot is designated and indentified by assignment of an ammunition lot number. All materiel comprising an ammunition lot must be homogeneous. The ammunition lot must also meet the following criteria:

(a) All items in the ammuntion lot must have the same type packing and identification marking.

(b) All items in the ammunition lot must possess the same serviceability lot status; i.e., serviceability know (based upon prior surveillance) or serviceability unknown. However, when new procurement is involved, serviceability will be based upon acceptance inspection in lieu of prior surveillance.

(2) Miscellaneous lot (Surveillance Test Lot (STL)). A miscellaneous lot (STL) is used to group ammunition lots for the purpose of inspection/test and does not constitute a change in the ammuntion lot. A miscellaneous lot (STL) will meet the following criteria.

(a) Not contain more than 500 dispersers.

(b) Ammunition lots or lot fragments must possess the same technical history, i.e., manufactured by the same technical procedure.

(c) Ammunition lots must be from the same manufacture or reconditioning agency with the same interfix number.

(d) All items in the ammunition lot must have the same type packing and identification marking.

(e) All items in the ammunition lot must possess the same serviceability lot status, i.e., serviceability known (based upon prior surveillance) or serviceability unknown. However, when new procurement is involved, serviceability unknown. However, when new procurement is involved, serviceability will be based upon acceptance inspection in lieu of prior surveillance.

d. Sampling.

(1) Selection and disposition. Sample selection shall be in accordance with the provisions of SB 742-1 and this bulletin. Sample disposition shall be in accordance with the provisions of SB 742-1 and paragraph 6c(5) WARNING of this bulletin.

(2) Sample size.

(a) Visual examination. Sampling of dispersers for visual examination shall be conducted in accordance with MIL-STD-105, Inspection Level S-4 using an AQL of 2.5 percent for Major Defects and 4.0 percent for Minor Defects.

(b) Functional tests. The sample size for functional test shall be 20 dispersers or as directed by the US Army Armament Materiel Readiness Command, DRSAR-QAS, Rock Island, IL 61299.

5. Inspection. a. Visual Examination.

(*1) Packing, packaging and marking*. Visual examination for packing, packaging and marking shall be conducted in accordance with SB 742-1.

(2) Disperser and riot control agent. The sample shall be examined for defects listed in the classification of defects (table 1) and the defects identified in SB 742-1.

Table 1. Visual Defects; Disperser and Riot Control Agent, manually Carried, CR, M36

Categories	Defects	Inspection method
Critical:	As defined in SB 7421	Visual
Major:		
101	Holes or cracks in container	Visual
102	Cracked, broken or damaged collar	Visual
103	Cracked, broken or damaged actuator	Visual
104	Evidence of leaks around actuator (wetness or discoloration)	Visual
105	Tamper proof seal broken or missing	Visual
Other	As defined in SB 742-1	Visual
Minor:		
201	Label missing or illegible	Visual
Other	As defined in SB 742-1	Visual

b. Functional Testing. Functional testing will be accomplished under the Centralized Control Pro- gram managed by the US Army Armament Materiel Readiness Command, DRSAR-QAS, Rock Island, IL 61299 in accordance with SB 742-1 and this bulletin.

(1) Classification of defects. Refer to table 2 for classification of defects for functional testing.

(2) Testing. Testing shall be conducted in accordance with paragraph 6.

Table 2. Text Defects; Disperser and Riot Control Agent, Manually Carried, CR, M36

Categories	Defects	Inspection methods
Critical:	Non defined	
Major:		
101	Safety lock does not function	Paragraph 6
102	Disperser does not function	Paragraph 6
103	Disperser will not project stream of agent the required distance	Paragraph 6
104	Disperser will not provide continuous discharge for required period of time	Paragraph 6
Minor:	None defined	

6. Functional Text. a. *Requirements.*

(1) The safety lock shall prevent the actuator from being depressed and discharging agent when the actuator is in the locked position.

(2) When the tamper proof seal is broken and the actuator is fully depressed, the disperser shall project a continuous stream of agent that will strike a target 10 inches by 10 inches (+0, - ½ inch) at a distance of 12% feet+ ± foot. The target shall be mounted vertically and the center of the target shall be located five feet above the floor/ground. The disperser nozzle shall be five feet + % foot above the floor/ground and the angle of discharge shall be between 0° and 10° above horizontal to obtain the required range. The test shall be conducted with a wind speed of zero.

(3) The disperser when activated shall provide a continuous discharge for minimum of 14 seconds.

b. Equipment Required.

(1) Support (table/stand) for holding disperser so that nozzle is five feet + ½ foot above floor/ground.

(2) Target 10 by 10 inches (+0, -% inch).

(3) Stopwatch accurate to one-tenth second.

c. Procedure.

(1) Set the target so that the target is in a vertical position and the center of the target is five feet above the floor/ground.

(2) Set up the support (table/stand) at a distance of 122 feet ± % foot from the target.

(3) Hold the disperser on the support (table/ stand) with the nozzle five feet 2 foot above the floor/ground.

(4) With the actuator in the locked position, attempt to depress the actuator. Observe that the actuator will not depress and that there is no discharge of agent from the actuator.

(5) Break the tamper proof seal by rotating the actuator to the unlocked position. Aim the disperser nozzle at the target. Depress the actuator and hold until the disperser is empty. Measure and record the time of continuous discharge from the disperser using the stopwatch. Observe that the range of discharge was sufficient to hit the target. The angle of discharge may vary from 0° to 10° above horizontal in order to achieve the required range of 12% feet - ½2 foot.

WARNING

CR - contamination surfaces (stand, target, disperser, etc.) should be cleaned by wiping several times with absorbent material (paper towels, cloth, etc) using a clean wiper each time. All decontamination materials and the empty dispersers shall be collected and placed in DOT approved containers for shipment to a point designated by ARRCOM.

7. Evaluation. a. *Nonfunctional Characteristics.*

Lots shall be evaluated for nonfunctional characteristics (visual defects) in accordance with the sampling plan provided in paragraph 4d(2) (a).

b. Functional Codes.

(1) FC-A. Functional quality which performs essentially according to design intent for service use.

(2) FC-B. Functionally serviceable and completely satisfactory for service use. Although somewhat below FC-A in overall performance, the item lot is not sufficiently impaired to warrant reconditioning or demilitarization.

NOTE

Lots tested and evaluated as FC-A or B, based on functional performance characteristics, are functionally serviceable for unrestricted Army and Single Manager

(SM) issue and use unless there is a specific stipulation qualifying its use in the assignment of FC-B, e.g., restricted to training use only, etc.

(3) FC-D. Markedly inferior to FC-B in functional performance - that issue would be justified only in an emergency and which should, as determined by the NICP, be demilitarized or renovated.

(4) FC-J. Lot(s) considered to be hazardous for use due to critical functional defect and malfunction encountered during testing, practice firing or combat.

c. Criteria for Assignment of Functional Codes.

(1) FC-A. Not more than one (1) major defective in the required test sample.

(2) FC-B. Not more than two (2) major defectives in the required test sample.

(3) FC-D. Not more than three (3) major defectives in the required tests sample.

d. Assignment of Condition Codes. Assignment of condition codes will be made based upon results of visual examination and functional performance during testing and in accordance with the guidance provided in AR 725-50.

8. Records, Reports and Reporting. Visual examina- tion and function test results will be recorded and reported in accordance with SB 742-1. Observations of defects not listed in the classification of defects or SB 742-1 shall be reported and described in detail. If possible, pictorial evidence of the unlisted defect should be included with the report.

9. Errors, Omissions and Recommended Changes. Direct reporting of errors, omissions and recom- mendations for improving this bulletin is authorized and encouraged. DA Form 2028 (Recom- mended Changes to Publications and Blank Forms) will be completed and forwarded to Commander, US Army Armament Materiel Readiness Command, ATTN: DRSAR-QAS, Rock Island, IL 61299.

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