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DEPARTMENT OF THE ARMY
HEADQUARTERS, UNITED STATES ARMY ARMAMENT COMMAND
ROCK ISLAND, ILLINOIS 61201

REPLY TO
ATTENTION OF:

AMSAR-RDP

CBN 5036
MSR _____

SUBJECT: Materiel Status Record Submission

7 Jan 77

TO: Commander
US Army Materiel Development and
Readiness Command
Attn: DRCRD-W
5001 Eisenhower Avenue
Alexandria, VA 22333

(C) The following record of decision/action on Type Classification of Projectile, 155mm: GB2, M687, together with the attached documents, are forwarded for recording in the Materiel Status Record in accordance with AR 70-2:

(U) GENERAL INFORMATION:

- a. Project/Task Title: Projectile, 155mm, Lethal Binary, GB2, XM687.
- b. Program Element: 6.46.10.A.
- c. Project/Task Number: 1W664610DF94, Task 03
- d. CARDS/CDOG Reference: 1238a(12)
- e. Previously Recorded Item Numbers: AMCTC 8292, 9294, 9383, 9578 and MSR's 09733002 & 09745003.
- f. LIN: Z50529.
- g. NSN: 1320-00-431-6249.

(C) SECTION 6 - Type Classification/Reclassification:

- a. (U) Item: Projectile, 155mm: GB2, M687.
- b. (C) Date of Review: 18 Nov 76
- c. (C) TC Decision: To type classify the Projectile, 155mm: GB2, XM687E1 as Standard M687 for use in the M109A1 SPH.

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Subject to GDS of EO 11652
Automatically Downgraded at Two
Year Intervals
Declassified on 31 December 1982

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129

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AMSAR-RDP

SUBJECT: Materiel Status Record Submission

d. (C) Approved by: BENNETT L. LEWIS
Major General, USA
Commanding

Date: 29 Nov 76


(U) PREPARED BY:

Office: SAREA-PL-P

Name of Contact: C. REED MAGNESS

Telephone: AUTOVON: 584
Ext 3610/2359

- 2 Incl
1. Ltr, DRSAR-RD, 29 Nov 76
DEVA-IPR Data Package
2. DA Form 3141


JOHN S. CHESBRO
Colonel, GS
Director, Rsch, Dev & Engr Dir

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MINUTES OF THE DEVELOPMENT ACCEPTANCE

IN-PROCESS REVIEW (DEVA-IPR) OF THE PROJECTILE

155MM, GB2: XM687E1 (U)

1. (C) The DEVA-IPR of the Projectile, 155MM, GB2: XM687E1, was held at Edgewood Arsenal, MD on 18 November 1976. The list of attendees is attached as inclosure 1. The agenda for the meeting is attached as inclosure 2.
2. (U) All agenda items were presented and discussed. The details are contained in the IPR package for the meeting and in the OTII report.
3. (U) The DARCOM positions as stated in the invitation letter for the meeting was as follows:
- a. The Projectile, 155mm, GB2, XM687E1, meets all requirements of the MN(ED) against which it was evaluated, except as noted in b and c below, and as such is suitable for US Army use under climatic categories 1 through 6 as defined in AR 70-38.
 - b. The Materiel Need (ED) document requirement for ballistic similitude be waived. Effective delivery of the XM687E1 projectile can be achieved either with the use of allowable correction factors applied to M483A1 projectile firing tables or, optimally, the use of an addendum table. Study results show no significant degradation in XM687E1 projectile effectiveness using these procedures.
 - c. The effectiveness requirement of the Materiel Need (ED) could not be quantitatively evaluated without recourse to open air testing. Therefore, statements regarding effectiveness of the XM687E1 projectile are based on technical judgments derived from simulant testing. The need for open air testing of the XM687E1 projectile was re-examined after completion of Development Test II (DT II) in accordance with guidance provided by the Vice Chief of Staff, Army on 22 April 1975. Evaluation of DT II results revealed no new technical uncertainties as a consequence of this testing.
 - d. The Projectile, 155mm: GB2, XM687E1 with Fuze, M557PD is suitable for production and should be type classified as standard LCC A for use in the M109A1 SPH with propelling charges M3A1, M4A2, and M119.
 - e. Upon fielding of the M687 projectile, the Projectile, 155mm: Gas, Non-Persistent, GB, M121A1, be retained as Standard, LCC B.
 - f. RDTE Project 1W664610DF94, task 03, be terminated as of 31 Dec 76. It is recommended that the XM687E1 be evaluated with the XM198 as part of the DT/OT III of that weapon.

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 Subject to GDS of 1982
 Automatical... at Two
 Year... 133
 Declassified on 31 December 1982

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4. (C) The voting members, Logistics Evaluation Agency (LEA) and Training and Doctrine Command (TRADOC) concurred in the position stated in paragraph 3, above, with the following comments:


a. (U) LEA - None.


(b)(5)

5. (U) The US Marine Corps representative stated the the Marine Corps has a formal requirement for subject projectile.

6. (U) The recommendation statement for the type classification of the Projectile, 155mm, GB2: XM687 as Standard, LCC A, was approved by all members and is attached as inclosure 4.

4 incl
as


JOHN S. CHESBRO
Colonel, GS
USA DARCOM CHAIRMAN


P. MAKRIYIANIS
CPT, GS
USA TRADOC


JESSE R. FRYE
USA LEA

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