



DEPARTMENT OF THE ARMY
 UNITED STATES ARMY MATERIEL COMMAND
 PROJECT MANAGER - RIFLES
 ROCK ISLAND ARSENAL
 ROCK ISLAND, ILLINOIS 61201

JA
25-81

IN REPLY REFER TO:
 AMCPM - RS

17 June 1969

SUBJECT: Eighth Meeting of the AMC M16 Steering Group

SEE DISTRIBUTION

The Eighth Meeting of the AMC M16 Steering Group was held on 3 June 1969. Inclosed are the Minutes of the Meeting and AMCPM-RS letter dated 22 May 1969.

1 Incl
 as

Alvin C. Isaacs
 ALVIN C. ISAACS
 Colonel, OrdC
 Project Manager, Rifles

- CF:
 CG USATECOM ATTN: AMSTE-BC
 CG USAWECOM ATTN: AMSWE-RES Packard
 AMCPM-RS Ackley
 Rhoades
 ✓ CO APG ATTN: STEAP-MT-TI Wilson
 CO USARDC ATTN: AMXRD-XSR Eissner
 Willoughby
 CO FA ATTN: AMCPM-RS(SMUFA-W4000) Adam
 SMUFA-J1000 Dr. Manning
 CG USAMC ATTN: AMCPMSO-RS LTC Semmler

MINUTES

EIGHTH MEETING OF THE M16 STEERING GROUP

1. The eighth meeting of the AMC Steering Group was held on 3 June 1969 with attendance as follows:

COL. A. C. ISAACS	AMCPM-RS
GOODWIN MORROW	HQ USATECOM AMSTE-BC
ALLAN WILSON	MTD APG STEAP-MT-TI
ROBERT M. EISSNER	AMXRD-XSR
WELDON F. WILLOUGHBY	AMXRD-XSR
EDWARD H. ADAM	AMCPM-RS (SMUFA W4000)
H. P. MANNING	SMUFA-J1000
C. F. PACKARD	AMSWE-RES
J. B. ACKLEY	AMCPM-RS
C. J. RHOADES	AMCPM-RS

2. Purpose: To review and discuss the TECOM Test Schedule of current and anticipated M16 testing.

3. Discussion:

a. Col. Isaacs discussed the proposed deactivation of AMCPM-RS and milestones for turning over the control of various items, including SPIW, XML77, GLAD and M16. He indicated that SPIW is being transferred to USASASA control, and XML77, GLAD and M16 will be under Commodity Management at USAWECOM. All of the above is expected to be completed within CY 69.

b. Col. Isaacs turned the meeting over to Mr. Rhoades, who reviewed those items listed in AMCPM-RS letter dated 22 May 69 (Incl 1). The items were individually reviewed and significant comments are summarized below. Each item scheduled for completion in CY69 was assigned a level of importance based on "a" for highly important, "b" for needed and "c" for an item which could be deferred if required to complete other items. Tests not scheduled to commence until next year were not assigned a priority.

(1) Monthly QA Reliability - "a". Col. Isaacs stated that this test will continue with the number of weapons to be tested per month expected to increase to ten by October. A forecast of the number of weapons to be tested will be sent by AMCPM-RS (Mr. Martin) to USATECOM (Mr. Wilson) and Frankford Arsenal (Mr. Adam) for planning purposes.

(2) PIT Electrolyzed Bolt Carrier Group - "b". Final report is expected to be completed by mid-July. Preliminary analysis indicates comparable performance with the standard bolt.

(3) QA Comparison (6 mos) - "a". This program provides for a comparison of current production of M16 rifles with previous performance and quality. It is more weapon oriented since it uses one ammunition lot whereas the QA monthly tests are system oriented since different ammunition lots are used. All producers will be tested simultaneously in order to insure comparable test conditions. AMCPM-RS (Mr. Martin) will supply to USATECOM (Mr. Wilson) a delivery date of the next group of weapons for planning purposes.

(4) PIT In-Weapon Stowage - "a". Mr. Morrow stated that the Service Test has been completed and the results showed the modified stock to be comparable in strength to the standard stock. Mr. Packard indicated that WECOM is conducting some in-house engineering studies and has requested TECOM to conduct environmental studies in support of WECOM's test. Ten modified buttstocks have been sent to TECOM and environmental testing is to start mid-June 1969. Mr. Packard also proposed to submit the results of the engineering test to TECOM for a recommendation. Mr. Morrow stated that TECOM would make a recommendation only if a Type Classification action was involved. Col. Isaacs suggested that WECOM and TECOM coordinate their efforts and arrive at a satisfactory course of action for review by AMCPM-RS.

(5) PIT XM15 Blast Deflector - "b". Mr. Packard indicated the results of WECOM EDT would be available in September and that TECOM testing could start in October unless EDT indicates the need for a general redesign.

(6) ET/ST GLAD - "a". The engineering test of GLAD has been suspended due to a launcher deficiency. Testing will be resumed dependent on a "fix" to be delivered not later than 16 Jun 69. TECOM asked whether the new buttstock could be used in this program. Mr. Packard did not object as long as the buttstock sample quantity was not changed. TECOM was requested to supply available test data at the Pre-IPR scheduled for 26 Jun 69.

(7) Kinematic Studies - "a". Mr. Wilson stated that part "c" of P.C.R. #44 has slipped until mid-July, and at that time parts "d" and "c" will be started. This means a slippage of approximately two months for completion of program.

(8) LWL Top Sling Adaptor - "c". Mr. Packard stated that WECOM will evaluate the adaptor and, if the evaluation is favorable, TECOM testing will be required about September. It was agreed that WECOM would keep TECOM informed so that TECOM could act quickly if action is required.

(9) IPT 30-Round Magazine - "a". Mr. Wilson stated that the start of test will slip until July due to lack of test hardware.

(10) Cold Temperature Tests - "a". This test is due to start in mid-June. It is estimated that testing will require 87 days using one test technician or 31 days using three test technicians, if three can be committed. Mr. Morrow suggested that ARDC review their test plan for possible revision based on past cold performance data. Mr. Morrow stated that past cold performance data indicates that a properly maintained M16 rifle will operate at -65°F with acceptable performance of approximately 2 to 3 malfunctions per 1,000 rounds and that this performance is comparable with M14 rifle performance under the same conditions. Col. Isaacs agreed with Mr. Morrow that ARDC should re-examine their test plan and the need for additional testing in view of the previous testing experience.

(11) GM Modified Bolt Catch - "a". TECOM testing is scheduled to start 9 Jun 69 and continue for approximately one week. A letter report will be submitted approximately one week after completion of test.

(12) Test Firing Fixture - "b". Preliminary testing has been completed with follow-up testing to continue at WECOM.

(13) EDT Arms Rack - "b". This item will be given only a service test at USAIB. The service test is expected to start in August.

(14) GMCS Projectile. TECOM testing is scheduled to start mid-November 1969. This starting date is dependent upon results of engineering tests at LCAAP and FA.

(15) PIT Chromed Bore - "b". Mr. Packard indicated that about 250 barrels would be required to perform comprehensive testing and that only limited samples are now available. TECOM is scheduled to start testing by mid-November 1969 dependent upon delivery of test hardware.

(16) GLAD Mission Durability (USAIB). TECOM testing is scheduled to start mid-February 1970 and will be conducted concurrent with GLAD IPT.

(17) GLAD IPT. TECOM testing is scheduled to start mid-February 1970.

(18) ET/ST Improve Functioning of M196 Tracer. This item is a continuation of item No. 14. TECOM testing is scheduled to start mid-April 1970.

(19) Winchester Modified Gas Piston - "c". WECOM will make arrangements to send two devices to TECOM. Data from WECOM and Winchester tests are being evaluated. The next step will be decided when this evaluation has been completed. TECOM testing is scheduled to start mid-June 1969 and be concurrent with Item #10.

(20) XML77E2 EDT. The Project Manager has suggested reversing this item to R&D status. Of the Abbreviated Performance Characteristic requirements in effect currently, only about half have been met. The proposed program is a 29 month program which would lead to Type Classification. In this program, an EDT is scheduled for mid-July 1970.

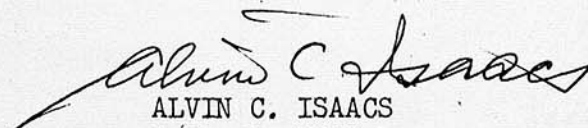
(21) Replacement Magazines. Current indications are that ET/ST will be required mid-CY70.

(22) ENSURE: 3-rd Burst Controller - "a". The proposed program requires a 24 week lead time with TECOM PIT/ST scheduled to start January 1970.

(23) Operational Reliability - "a". TECOM requested that this be added to the list of tasks. This item is covered by PCR #47. Firing has been completed but data is still being analyzed.

TECOM agreed that the test schedule as proposed could be met provided other unscheduled higher priority tests did not materialize.

1 Incl
as


ALVIN C. ISAACS
Colonel, OrdC
Project Manager, Rifles



DEPARTMENT OF THE ARMY
UNITED STATES ARMY MATERIEL COMMAND
PROJECT MANAGER - RIFLES
ROCK ISLAND ARSENAL
ROCK ISLAND, ILLINOIS 61201

AMCPM-RS

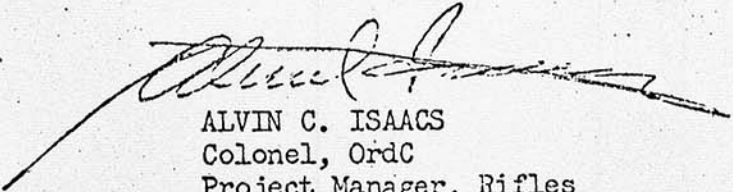
22 MAY 1969

SUBJECT: Meeting of the AMC M16 Rifle Steering Group

✓ Commanding General, US Army Test & Evaluation Command, ATTN: AMSTE-BC
Mr. Morrow, Aberdeen Proving Ground, Maryland 21005
Commanding General, US Army Munition Command, ATTN: AMSMU-RE-M Mr.
Spaulding, Dover, New Jersey 07801
Commanding General, US Army Weapons Command, ATTN: AMSWE-RES-R Mr.
Packard, Rock Island, Illinois 61201
Commanding Officer, US Aberdeen Research & Development Center, ATTN:
AMXRD-AWD Mr. Simmons, Aberdeen Proving Ground, Maryland 21005
Commanding Officer, Frankford Arsenal, ATTN: SMUFA-J1000 Dr. Manning,
Philadelphia, Pennsylvania 19137

1. The next meeting of the AMC M16 Steering Group will be held at USATECOM on 3 June 1969 at 0830 hours in Conference Room 3071.
2. I am particularly interested in discussing schedules and relative priorities for the present and anticipated testing workload for USATECOM involved in the M16/M16A1 rifle and related programs. I consider it appropriate to hold a Steering Group meeting for this purpose since most of the testing schedules are dependent on the completion of engineering activities and the availability of suitable test hardware.
3. A tentative Agenda for this meeting is inclosed.

1 Incl
as


ALVIN C. ISAACS
Colonel, OrdC
Project Manager, Rifles

TENTATIVE AGENDA
for the

MEETING OF THE AMC ML6 STEERING GROUP

3 June 1969

I. Opening Remarks by Chairman.

II. Discussion of Current and Anticipated Test Schedules:

- ✓ a. Monthly Supplementary QA Reliability Tests. 8-8-0230-05
- ✓ b. Product Improvement Test of the Electrolyzed Bolt/Carrier Group. 8-8-0200-11
- ✓ c. QA Comparison Tests. 8-9-0200-32
- ✓ d. Product Improvement Test of Modified Buttstock (In-Weapon Stowage). 8-9-0200-26 USA
8-9-0200-30 USA
- ✓ e. Product Improvement Test of XML5 BFA w/Blast Deflector. No Proj No.
- ✓ f. ET/ST of Grenade Launcher Attachment. 8-9-0240-13 AP4, 14 USAIB
- ✓ g. LWL Top Sling Adaptor. No Proj number + no test request
- ✓ h. Initial Production Test of 30-rd Magazine. 8-9-0200-28
- ✓ i. Cold-Temperature Performance Test. 8-9-0200-33
- ✓ j. Test of GM Modified Bolt Catch. 8-9-0200-34
- ✓ k. Engineering Design Test of Arms Rack. 8-9-0200-35
- ✓ l. Gilding Metal Clad Steel (GMCS) Bullet Jackets. 8-7-0211-01 AP4, 03 ATC
- ✓ m. Product Improvement Test of Chrome-Plated Bores. No Proj number and test request.
- ✓ n. GLAD Mission Durability Test (USAIB). 8-9-0240-14 -
- ✓ o. GLAD Initial Production Test. No Project number as yet
- ✓ p. ET/ST of Improved Tracer Cartridge. No Project number and no test request
- ✓ q. Test of Winchester Modified Gas System. 8-9-0200-21
- ✓ r. EDT of XML77E2 SMG. No Project number and no test request.
- ✓ s. ET/ST of Replacement Magazines No project number and no test request
- ✓ t. Kinematic Studies of ML6A1 Rifles. 8-8-0070-07

III. Other matters of interest to the Steering Group (time permitting).