DEPARTMENT OF THE NAVY
HEADQUARTERS UNITED STATES MARINE CORPS
3000 MARINE CORPS PENTAGON
WASHINGTON, DC 20350-3000

MCO 8025.1E
MCSC PM204
29 OCT 2009

MARINE CORPS ORDER 8025.1E

From: Commandant of the Marine Corps
To: Distribution List

Subj: CLASS V(W) MALFUNCTION AND DEFECT REPORTING

Ref: (a) MCO P5102.1B
(b) OPNAVINST 8000.16C
(c) NAVMC 10155
(d) NAVSUP P-724
(e) NAVSUP P-801
(f) MCO 8010.1E
(g) SECNAV M-5210.1
(h) MCO P8020.10B
(i) SECNAV M-5214.1

Encl: (1) Ammunition Malfunction Reporting Instructions
(2) Sample Malfunction Message
(3) Ammunition Defect Reporting Instructions
(4) Sample Defect Message
(5) Naval Message Plain Language Addresses

Reports Required: I. Class V(W) Ammunition Malfunction Report (Report Control Symbol DD-8025-02) External Report Control Symbol DD-AT&L(AR)1687, par. 4.a.(2)(b)2, and encls (1) and (2)
II. Class V(W) Ammunition Defect Report (Report Control Symbol EXEMPT),encls (3) and (4)

1. Situation. To provide uniform procedures for reporting malfunctions and defects associated with Class V(W) materiel.

2. Cancellation. MCO 8025.1D.

3. Mission. To accurately describe reporting procedures of Class V (W) ammunition in the event of a malfunction or identification of a defect. Ammunition is designed and produced with a high degree of safety and reliability. Despite these

efforts, malfunctions may occur and occasionally defects are discovered. In an effort to assist the process of the Marine Corps ground ammunition Service Life and Accelerated Age Testing (SLAAT) Program, it is essential that malfunction and defect reports accurately describe the problem experienced. These reports provide the basis for analysis and evaluation of the malfunction or defect. As a result of this analysis and evaluation, ground ammunition items that constitute a safety hazard or can no longer be expected to function as designed will be suspended from further use or restricted in their employment.

4. Execution

a. Commander's Intent and Concept of Operations

(1) Commander's Intent. The instructions contained herein are applicable to reporting malfunctions and/or defects associated with Class V(W) materiel under the management cognizance of Marine Corps Systems Command, Program Manager for Ammunition, (MARCORSYSCOM (PM Ammo)). Explosive incidents shall be reported as defined and directed in reference (a). Malfunctions involving Class V(A) materiel (aviation munitions) shall be reported in accordance with reference (b).

(2) Concept of Operations

(a) Policy. All ammunition malfunctions and defects require reporting in accordance with enclosures (1) through (4) by the organization experiencing the malfunction or defect. The organization will submit all malfunction and defects via naval message to the appropriate Action Office listed in enclosure (5). These reporting requirements remain effective during combat operations. It is understood that there are circumstances when it may not be possible to address in detail all reporting elements. However, every effort must be made to provide as detailed a report as possible. If additional and/or revised data is acquired after the initial report that may enhance a malfunction evaluation or investigation, a supplemental report (annotated Class V(W) Ammunition Malfunction Report - "Supplemental" on report subject line) should be submitted. Commanders at all echelons shall ensure the provisions of this Order are understood by all personnel involved in handling/expending ammunition. Cooperation and assistance shall be provided to technical representatives, who may call, email, or visit the organization reporting the malfunction during the course of the detailed investigation. Further, when directed by MARCORSYSCOM (PM Ammo), shipment of

specified ammunition/weapon component remains and samples from the malfunctioning lot shall be expedited to preclude delaying the detailed investigation.

(b) When an ammunition malfunction occurs resulting in weapons damage or personnel injury, the Range Safety Officer, the Commander, or individual in charge of the firing unit shall:

1. Cease firing the ammunition lots involved.

2. Collect the minimum data required using reference (c). Immediately report details of incident and submit malfunction report to MARCORSYSCOM (PM Ammo) via Naval Message in accordance with instructions contained in enclosure (1). Report Control Symbol DD-8025-02 (External Report Control Symbol DD-AT&L(AR)1687) is assigned to this reporting requirement.

3. Secure/protect the malfunction site to prevent removal or relocation of ammunition/weapon components, debris, or residue (e.g., cartridge cases, projectile/barrel fragments, etc.) involved in the malfunction. MARCORSYSCOM (PM Ammo) will notify the malfunction location/unit within 24 hours from receipt of the initial report as to whether or not an on-site investigation will be conducted and whether the secured site can be released. Due to the operational tempo between multiple units and schools competing for ranges, range control needs to be aware of the requirement to secure the site of the incident and not schedule/conduct any training until notified by the investigating personnel assigned by MARCORSYSCOM (PM Ammo)

4. Upon approval by assigned MARCORSYSCOM (PM Ammo) personnel, accumulate and retain all explosive residue items (cartridge cases, projectile fragments, etc.) involved in the incident at a site approved to store hazardous materials. The unit armorer shall retain the weapon intact (e.g., do not clean, repair and/or send to higher echelon for repair) until disposition instructions are received from MARCORSYSCOM (PM Ammo). Weapon will be tagged "out-of-service" and maintained in "as-is" condition, pending possible investigation. Any movement of potentially hazardous materials must be accomplished in strict accordance with local safety regulations. If disposition instructions are not received from MARCORSYSCOM (PM Ammo) within 90 days, or if materiel has not been identified for a formal investigation, non-explosive residue may be disposed of. Requests for disposal of explosive residue will be submitted to MARCORSYSCOM (PM Ammo), and the Designated Disposition Authority

(DDA) will provide appropriate instructions. References (d), (e) and (h) outline the submission of disposition instructions.

5. Contact immediately by telephone, the local Officer-in-Charge (OIC) at the supporting Ammunition Supply Point (ASP) where the ammunition was issued and relate all available information on the malfunction. If a cease-fire is called, and if warranted, make a recommendation to the OIC ASP to locally suspend the ammunition lot(s) involved. Examples of justification to recommend local suspension include casualty, weapon damage, airburst/premature function, numerous misfires, or duds. Return all unused stocks of the involved lot(s) to the supporting ASP. Unsafe ammunition will not be transported or returned to the ASP. Notify Explosive Ordnance Disposal (EOD) and Range Safety in accordance with local procedures for the disposition of ammunition deemed unsafe for storage/transport.

(c) When training value is lost due to excessive duds/misfires, the individual in charge will make a determination to continue or cease firing the ammunition lot(s) involved.

b. Subordinate Element Missions

(1) The supporting unit ASP is responsible for the following actions:

(a) Locally suspend Class V(W) ammunition as required; immediately notify all local units in possession of the suspended lot number(s). Recommend units cease firing and return affected assets to the local ASP or to notify EOD of stocks deemed unsafe for storage and/or transportation.

(b) Notify MARCORSYSCOM (PM Ammo) by telephone Comm: 703-432-8756, DSN 378-8756, naval message, (see page 1-5 of enclosure 1) and/or e-mail; USMCAmmoMalfunctions@usmc.mil of the local suspension.

(c) Retain locally suspended ammunition for a period not to exceed 15 working days, or until notified by MARCORSYSCOM (PM Ammo) that an investigation will **not** take place. After which, request disposition instructions, when required from MARCORSYSCOM (PM Ammo) in accordance with references (e) & (h).

(2) For Marine Reserve Forces (MARFORRES) units experiencing a malfunction; Inspector-Instructors and Reserve Liaison Officers will report the malfunction/defect and retain

non-explosive residue, in accordance with paragraph 2b(1) (above). If training aboard another service's installation, all units must adhere to the policies and procedures established by that activity.

(3) Representatives from MARCORSYSCOM (PM Ammo) with assistance from Naval Surface Warfare Center, Crane Division, Fallbrook Detachment, Expeditionary Systems Evaluation Division (ESED) and other ammunition quality assurance organizations may call, e-mail, or visit the site/unit where the malfunction occurred. ESED (formerly Marine Corps Program Division (MCPD)) is authorized by MARCORSYSCOM (PM Ammo) direct liaison with all units experiencing malfunctions or defects.

c. Coordinating Instructions. Submit all recommendations concerning modifications to this order to: Commander, Marine Corps Systems Command, Program Manager for Ammunition, 39 Tech Parkway, Suite 211 (attn PM 204), Stafford VA., 22556, via the appropriate chain of command.

5. Administration and Logistics. Recommendations concerning the contents of the Order may be forwarded to the Commander, Marine Corps Systems Command (Program Manager for Ammunition) via the appropriate chain-of-command.

a. Upon the receipt of a malfunction or defect report, MARCORSYSCOM (PM Ammo) has the option to:

(1) Retain the involved ammunition item(s) in current condition code, with no further action.

(2) Coordinate worldwide reclassification of the involved item(s) via the Naval Operational Logistics Support Center (NOLSC), Mechanicsburg, Pennsylvania in accordance with reference (e).

(3) Initiate a technical investigation with the appropriate design agency to determine the cause of the ammunition malfunction or defect. The technical investigation will generally result in item(s), (lot, serial number(s)) in question either being certified suitable for continued use, restricted to training use, programmed for repair, or scheduled for resource recovery or disposal. When appropriate, action shall be initiated to introduce product improvements designed to preclude reoccurrence.

b. It is imperative that reports contain accurate information regarding the specific lot number(s) of all components involved, to include a complete description of the circumstances surrounding the malfunction and/or defect being reported. Non-hazardous components and/or fragments remaining from the item and/or weapon must be retained for possible use during the course of a detailed investigation. In addition, the site of a malfunction involving weapon damage, and/or injury, must be protected and preserved for evaluation during such an investigation. Submission of timely, accurate data describing all malfunctions and/or defects experienced is imperative. Failure to report a malfunction and/or defect may allow potential problems with ammunition and procedural error to go unidentified and uncorrected.

c. Reference (c) is a wallet-size Ammunition Malfunction Data Collection Guide that summarizes those facts that must be gathered at the scene of a malfunction to enhance report accuracy. Each Officer and Staff Noncommissioned Officer involved in the expenditure of ammunition should carry this card. Form NAVMC 10155 is available in the supply system under stock number 0109LF06322100 (100 per package).

d. Records Disposition. Class V(W) Ammunition Malfunction and Defect Reports, including all supporting documentation shall be maintained as follows:

(1) MARCORSYSCOM (PM Ammo) Record Copies. Retention period: Permanent (reference (g) SSIC 8020.1).

(2) NSWC/CD Fallbrook Detachment (ESED) Record Copies. Retention period: Permanent (reference (g) SSIC 8020.1).

(3) Reporting Activities Record Copies. Retention period: 3 years (reference (g) SSIC 8020.1).

e. Definitions. The following terms and definitions apply to this Order.

(1) Ammunition Lot Number: A systematically assigned code number that identifies a particular quantity of ammunition from one manufacturer during production and/or assembly, or re-worked by another DoD entity.

(2) Class V(W): Supply classification V refers to all types of ammunition, including chemical, radiological, special weapons, bombs, explosives, mines, fuzes, detonators, pyrotechnics, missiles, rockets, propellants, and other

associated items. Sub classification (W) is ground (surface) ammunition. Class V(W) ground ammunition is under the management/cognizance of the MARCORSYSCOM (PM Ammo), references (a),(e), and (h) apply. As used in this Order, the terms "Class V(W)" and "ammunition" are synonymous.

(3) Defect: An imperfection which may prevent an item from functioning as intended or result in a malfunction. Defects include, but are not limited to, cracked cartridge case; loose primer; missing safety pin; deteriorated or leaking propellant bags or containers; presence of excessive rust/corrosion; and obvious external damage, etc.

(4) Malfunction: Failure of an ammunition item to function in accordance with the design, intent, and expected performance when fired, launched, or otherwise employed as specified. Malfunctions include the abnormal or premature functioning of an item as a result of normal handling, maintenance, storage, transportation, or tactical employment. Ammunition malfunctions do not include incidents resulting from negligence, improper use as intended, user error, etc. However, reporting of these incidents is required since they provide useful data in evaluating future incidents.

(5) Reclassification: The act of changing a previously assigned condition code applied to an ammunition lot number.

(6) Suspend: An action that prevents an ammunition lot number from further issuance.

6. Command and Signal

a. Command. This Order is applicable to the Marine Corps Total Force.

b. Signal. This Order is effective the date signed.

M. M. BROGAN
By direction

DISTRIBUTION: PCN 10210577500

Ammunition Malfunction Reporting Instructions

1. All ammunition malfunctions are to be reported. Report Control Symbol DD-8025-02 (External Report Control Symbol DD-AT&L (AR)1687)) is assigned to this reporting requirement.

2. All malfunctions involving Class V(W) items are monitored by Marine Corps Systems Command, Program Manager for Ammunition MARCORSYSCOM (PM Ammo) to provide the basis for appropriate action in determining the cause of failures. It is imperative that malfunction reports contain accurate information regarding the specific ammunition lot number(s) and all components involved. A complete description of the circumstances surrounding the malfunction shall be provided.

3. Malfunctions shall be reported as indicated in the two categories below:

a. Malfunctions involving injuries/fatalities/weapons damage or resulting in a local suspension will be telephonically reported immediately to MARCORSYSCOM, (PM Ammo) DSN 378-8756 or commercial (703) 432-8756 during working hours, and to the Headquarters Marine Corps, Operations/Command Center (DSN) 225-5454 or commercial (703) 695-5454 during non-working hours. This is essential to ensure that other Marines training with like ammunition worldwide are protected from possible further injuries. Additionally, the malfunction report must be submitted via Naval Message within 24 hours of the incident. The initial telephonic report does not negate the requirement for submission of the required Naval Message submission.

b. All other malfunctions not involving injuries/ fatalities/weapons damage (i.e., duds, misfires, etc) shall be reported via Naval Message within 96 hours of the malfunction. In the event that Naval Messaging is not available, Malfunction Reports in the format provided will be submitted via Email to: USMCAmmoMalfunctions@usmc.mil, AmmoMail@usmc.mil, FLBK-MALF@navy.mil, and LGR_NSWC_INSERVAMMO@navy.mil and DLGR_NSWC_INSERVAMMO@navy.mil.

4. The malfunction report will provide information on the elements contained in paragraphs 4a (1) through 4a(8), as they relate to the particular malfunction being reported. In case of multiple malfunctions, separate reports shall be submitted for each malfunctioning ammunition lot number. All malfunctions occurring on the same day and with the same ammunition lot number shall be reported on one report. It is recognized that

not all of the elements indicated will be applicable to every malfunction.

NOTE: Submission of the initial malfunction report shall not be delayed due to non-availability of all pertinent information. A supplemental report should be submitted via Naval Message (annotated "Class V(W) Malfunction Report - Supplemental on the report subject line) in those instances when all of the data is not available for inclusion in the initial report or at any time when additional facts, details, or revisions are uncovered after the initial report has been submitted. At a minimum, the initial report must contain information identifying the Ammunition Department of Defense Identification Code (DODIC), National Stock Number (NSN), Lot Number, serial number if applicable and preliminary details of the malfunction. It is recognized that, in the case of certain malfunctions, it would be virtually impossible to gather all of the pertinent details and report within the time periods established above for submission of the malfunction report. In these cases, referencing the initial report (usually reference (b) on the report message), a supplemental report shall be submitted within 5 working days of the malfunction.

a. Report format and data elements are as follows:

(1) Unit Identification. Indicate the unit that experienced the malfunction and provide a report serial number. (Reports are to be serially numbered by calendar year; for example, School of Infantry, MCB, Camp Pendleton, 01-09). Include a name, telephone number, and e-mail address (if possible) for the unit's point of contact who is familiar with the malfunction being reported (i.e., was at the gun/firing position, on the range, and/or has first-hand knowledge of the malfunction). Include the unit's Reporting Unit Code (RUC).

(2) Ammunition Data. Provide the following:

(a) NSN, DODIC, nomenclature, and ammunition lot number of the complete end item and the lot numbers of the assembled major components, if identifiable. For example, 1315-01-158-8200/C869, Cartridge, 81mm, HE, M889, w/fuze, PD M935, lot number RFG92D027-014 (complete cartridge lot), fuze Lot MA-91H022-002. In those instances when the malfunctioning round is actually a collection of various end items (e.g., in the case of a 155mm round where the projectile with fuze, propellant charge, and primer are loaded into the weapon separately), the NSN/DODIC, nomenclature, and lot number of each of the items

must be provided. Include the serial numbers when reporting rockets and missiles.

(b) A statement as to the condition of the round and packaging prior to firing/employment.

(c) Total number of rounds from the malfunctioning lot(s) remaining on hand or returned to the local Ammunition Supply Point (identify which is being reported).

(d) Total number of rounds fired (attempted) from the lot(s) on the day of the malfunction.

(e) Total number of rounds which malfunctioned from the lot(s) on the day of the malfunction.

(3) Weapon Data

(a) Indicate the weapon's nomenclature, model, and serial number. For artillery weapons, also include the serial number and manufacturer of the gun and breech ring.

(b) Statement as to the condition of the weapon prior to the malfunction and the date of the last overhaul, to include data on timing and headspace of actual gage check.

(c) Description of the weapon after malfunction. If the weapon is damaged, transmit photographs under separate cover.

(d) Number of rounds fired from the weapon on the day of the malfunction.

(e) For weapons 40mm and larger (except rocket launchers and missiles), indicate the total number of rounds fired prior to the malfunction. If the tube is damaged, provide the pullover gage reading (if it can be read without damage to evidence) and/or number of Effective Full-Charge (EFC) rounds fired as defined in the appropriate Technical Manual(s). If the tube is destroyed, indicate the last pullover gage reading and/or the number of EFC rounds fired as noted in the gun book.

(f) Elevation, zone in which fired (include the number of propellant charges used), length of recoil, and range to target.

(g) Statement as to whether the muzzle was close enough to the ground (dug in) to permit the entry of foreign material.

(h) Number of weapons firing the reported ammunition lot on the day of the malfunction and, if applicable, the number of malfunctions per weapon.

(i) If malfunction occurs on multiple weapons, list each weapons data separately.

(4) Description of the Malfunction

(a) Provide a narrative description of what actually occurred.

(b) Include a statement as to whether there were any nonstandard conditions observed. Do not provide opinions on what may have caused the malfunction. Describe the location of the malfunction in relation to the weapon and/or personnel involved.

(c) Indicate the number of casualties sustained (report in three categories: minor injuries requiring only field or outpatient treatment, major injuries requiring hospitalization, and fatalities).

(5) If the malfunction was a premature detonation indicate:

(a) High or low order.

(b) Distance detonation occurred from the muzzle or end of the launcher.

(c) Obstructions in the line of fire or in the weapon tube.

(d) Fuze setting.

(e) Evidence of unburned propellant or residue in the tube.

(f) Deviations from instructions in the Technical or Field Manual(s).

(6) Prevailing Conditions. Provide information on the following:

(a) Time, Date, and Weather Conditions. Provide relative humidity reading for Linear Demolition Charge (M913, ML25) malfunctions.

(b) Terrain at the scene of the malfunction.

(c) Type of target.

(d) When electronically initiated ammunition is involved in the malfunction, comment on the proximity and type of electrical energy source(s) in the immediate area.

(7) Storage Conditions. Describe the storage conditions:

(a) Prior to operation (location, stored inside the magazine, outside under a tarpaulin, etc.).

(b) Prior to firing/employment (was ammunition unpacked and subjected to adverse elements; e.g., rain, snow, direct sunlight, etc.).

(8) Remarks. In this section indicate:

(a) Whether a local suspension was imposed.

(b) If the submission of a supplemental report is anticipated.

(c) Availability/location remaining components, fragments, etc of residue from the malfunctioning item/weapon.

(d) Any other data considered germane.

b. Malfunction reports shall be distributed to the activities identified in enclosure (5). Supplemental reports, if required, shall also be distributed to these activities and will make reference to the initial report (e.g., report date-time-group, report serial number, etc.). Malfunction reports shall continue to be submitted during periods of MINIMIZE.

Sample Malfunction Message

UNCLASSIFIED//
TO: COMMARCORSYSCOM QUANTICO VA AMMO(UC)
MARINE CORPS PROGRAMS FALLBROOK CA(UC)
INFO: CMC WASHINGTON DC(UC)
CMC WASHINGTON DC SD(UC)
COMMARCORSYSCOM QUANTICO VA(UC)
NAVAMMOLOGCEN MECHANICSBURG PA(UC)
NAVSURFWARCENDIV CRANE IN(UC)
COMNAVSAFECEN NORFOLK VA(UC)
BT
UNCLAS //N08025//
SUBJ/CLASS V(W) AMMUNITION MALFUNCTION REPORT (ARTILLERY FORMAT)
MSGID/GENADMIN/
REF/A/DOC/MCO 8025.1_/26 OCT 99//
RMKS/IAW REF A, THE FOL MALFUNCTION REPORT IS SUBMITTED:
1. UNIT ID: 3RD BN, 12TH MARINES RUC: 12345, 01-09, POC: SSGT I. M. MARINE, EMAIL: IM.MARINE@usmc.mil, DSN: 750, COMM (703) 123-4567.
2. AMMUNITION DATA:
A. NSN: 1320011402611, DODIC: D528, NOMENCLATURE: PROJ. 155MM SMOKE, WP M825 LOT: PB-88F008-015,
NSN: 1320015266523, DODIC: DA13, NOMENCLATURE: CHARGE PROPELLING 155MM M232A1 MACS WITH PROPELLANT M31A2, LOT: GDB05M-031002,NSN: 1390008924202, DODIC: N523, NOMENCLATURE: PRIMER, PERCUSSION M82, LOT: LS-89C431-001
NSN: 1390012826038, DODIC: N289, NOMENCLATURE: FUZE, M762. ET, W/O BOOSTER, LOT: ATF95H001-001
B. STATEMENT AS TO THE CONDITION OF THE ROUND AND PACKAGING: ROUNDS WERE IN A SATISFACTORY, SERVICEABLE CONDITION.
C. TOTAL NUMBER OF ROUNDS FROM MALFUNCTIONING LOT REMAINING ON HAND OR RETURNED TO THE LOCAL AMMUNITION SUPPLY POINT: 56 RDS
D. NUMBER OF ROUNDS FIRED (ATTEMPTED) FROM THE LOT ON THE DAY OF THE MALFUNCTION: 16 RDS
E. TOTAL NUMBER OF ROUNDS WHICH MALFUNCTIONED FROM THE LOT ON THE DAY OF THE MALFUNCTION: 5 RDS
3. WEAPON DATA:
A. WPN NOMENCLATURE: 155MM, MODEL: M777A2, SERIAL NUMBER: 0076, MANUFACTURER: BAE
B. STATEMENT AS TO THE CONDITION OF THE WEAPON PRIOR TO THE MALFUNCTION AND THE DATE OF THE LAST OVERHAUL TO INCLUDE DATA ON TIMING AND HEADSPACE OF ACTUAL GAUGE CHECK: WEAPON WAS IN SATISFACTORY CONDITION. LAST OVERHAUL ON 11/22/08. THIS WEAPON WAS MANUFACTURED IN 2006 BY WATER ELLIOT.

C. DESCRIPTION OF THE WEAPON AFTER MALFUNCTION: GUN WAS NOT ADVERSELY AFFECTED AND WAS STILL SERVICEABLE.
D. NUMBER OF ROUNDS FIRED FROM THE WEAPON ON THE DAY OF THE MALFUNCTION: 7 RDS
E. FOR WEAPONS 40MM AND LARGER, INDICATE THE TOTAL NUMBER OF ROUNDS FIRED PRIOR TO THE MALFUNCTION. IF THE TUBE IS DAMAGED PROVIDE THE PULLOVER GAUGE READING AND OR NUMBER OF EFFECTIVE FULL-CHARGE (EFC) ROUNDS FIRED AS DEFINED IN THE APPROPRIATE TECHNICAL MANUAL. IF TUBE IS DESTROYED INDICATE THE LAST PULLOVER GAUGE READING AND/ OR NUMBER OF EFC ROUNDS FIRED AS NOTED IN THE GUN BOOK: 600 RDS
F. ELEVATION, ZONE IN WHICH FIRED, LENGTH OF RECOIL AND RANGE TO TARGET: ELEVATION: 350-400 MILS, CHG 5, 4 FOOT RECOIL, 6250M.
G. STATEMENT AS TO WHETHER THE MUZZLE WAS CLOSE ENOUGH TO THE GROUND TO PERMIT THE ENTRY OF FOREIGN MATERIAL: MUZZLE WAS NOT CLOSE ENOUGH TO THE GROUND TO PERMIT ENTRY OF FOREIGN MATERIAL.
H. NUMBER OF WEAPONS FIRING REPORTED AMMUNITION LOT ON THE DAY OF THE MALFUNCTION: 1
4. DESCRIPTION OF THE MALFUNCTION: (3) ROUNDS FUNCTIONED ON DECK AS OPPOSED TO 200 METERS ABOVE THE DECK, AS PROGRAMMED. MCAGCC PERSONNEL CLAIMED TO HAVE SEEN ANOTHER (2) ROUNDS FUNCTION 15-30 MINUTES AFTER IMPACTING ON THE DECK.
5. IF THE MALFUNCTION WAS A PREMATURE DETONATION INDICATE:
A. HIGH OR LOW ORDER: N/A
B. DISTANCE FROM THE MUZZLE OR END OF THE LAUNCHER: N/A
C. OBSTRUCTIONS IN THE LINE OF FIRE OR IN THE WEAPON TUBE: NONE
D. FUZE SETTINGS: N/A
E. EVIDENCE OF UNBURNED PROPELLANT OR RESIDUE IN THE TUBE: NONE
F. DEVIATIONS FROM INSTRUCTIONS IN THE TECHNICAL MANUAL (S): NONE
6. PREVAILING CONDITIONS:
A. TIME: 1200. DATE: 20090715. WEATHER CONDITIONS: CLEAR, NO BREEZE. TEMPERATURE: 115 DEGREES F.
B. TERRAIN AT THE SCENE OF THE MALFUNCTION: FLAT
C. TYPE OF TARGET: TANK HULL'S
D. ELECTRICALLY INITIATED AMMUNITION: N/A
7. STORAGE CONDITIONS:
A. PRIOR TO OPERATION: AMMUNITION WAS STORED IN EARTH COVERED MAGAZINE.
B. PRIOR TO FIRING/EMPLOYMENT: AMMUNITION WAS STORED OUTSIDE UNDER A TARPAULIN AND NOT SUBJECTED TO ADVERSE ELEMENTS.
8. REMARKS:
A. LOCAL SUSPENSION WAS IMPOSED AT ASP.
B. NO SUPPLEMENTAL REPORT IS ANTICIPATED.
C. NO RESIDUE FROM THE MALFUNCTIONING REMAINS.
D. NO OTHER DATA CONSIDERED GERMANE.

UNCLASSIFIED//
TO: COMMARCORSYSCOM QUANTICO VA AMMO(UC)
MARINE CORPS PROGRAMS FALLBROOK CA(UC)
INFO: CMC WASHINGTON DC(UC)
CMC WASHINGTON DC SD(UC)
COMMARCORSYSCOM QUANTICO VA(UC)
COMMARCORSYSCOM QUANTICO VA IWS
NAVSURFWARCEN DET PICATINNY NJ(UC)
JMC NICP(UC)
NAVAMMOLOGCEN MECHANICSBURG PA(UC)
NAVSURFWARCENDIV CRANE IN(UC)
COMNAVSAFECEN NORFOLK VA(UC)
BT
UNCLAS //N08025//
SUBJ/CLASS V(W) AMMUNITION MALFUNCTION REPORT(SERIALIZED FORMAT)
MSGID/GENADMIN/
REF/A/DOC/MCO 8025.1_/26 OCT 99//
RMKS/IAW REF A, THE FOL MALFUNCTION REPORT IS SUBMITTED:
1. UNIT ID: 1ST BN, 7TH MARINES RUC: 12345, 03-09, POC: SSGT I. M. MARINE, EMAIL: IM.MARINE@usmc.mil, DSN: 750, COMM (703) 123-4567.
2. AMMUNITION DATA:
A. NSN: 1315012454950, DODIC: C995, NOMENCLATURE: CTG AND LAUNCHER, 84MM, M136 AT4, LOT: ATJ91F903-003B, SERIAL NUMBER: 123456
B. STATEMENT AS TO THE CONDITION OF THE ROUND AND PACKAGING: ROUNDS WERE IN A SATISFACTORY, SERVICEABLE CONDITION IN BARRIER BAG AND FACTORY PACKAGING.
C. TOTAL NUMBER OF ROUNDS FROM MALFUNCTIONING LOT REMAINING ON HAND OR RETURNED TO THE LOCAL AMMUNITION SUPPLY POINT: 2 RDS
D. NUMBER OF ROUNDS FIRED (ATTEMPTED) FROM THE LOT ON THE DAY OF THE MALFUNCTION: 6 RDS
E. TOTAL NUMBER OF ROUNDS WHICH MALFUNCTIONED FROM THE LOT ON THE DAY OF THE MALFUNCTION: 1 RDS
3. WEAPON DATA:
A. WPN NOMENCLATURE: CTG AND LAUNCHER, 84MM, MODEL: M136 AT4, SERIAL NUMBER: 123456, MANUFACTURER: ATJ
B. STATEMENT AS TO THE CONDITION OF THE WEAPON PRIOR TO THE MALFUNCTION AND THE DATE OF THE LAST OVERHAUL TO INCLUDE DATA ON TIMING AND HEADSPACE OF ACTUAL GAUGE CHECK: WEAPON WAS IN SATISFACTORY CONDITION.
C. DESCRIPTION OF THE WEAPON AFTER MALFUNCTION: N/A
D. NUMBER OF ROUNDS FIRED FROM THE WEAPON ON THE DAY OF THE MALFUNCTION: N/A
E. FOR WEAPONS 40MM AND LARGER, INDICATE THE TOTAL NUMBER OF ROUNDS FIRED PRIOR TO THE MALFUNCTION. IF THE TUBE IS DAMAGED PROVIDE THE PULLOVER GAUGE READING AND OR NUMBER OF EFFECTIVE FULL-CHARGE (EFC) ROUNDS FIRED AS DEFINED IN THE APPROPRIATE

TECHNICAL MANUAL. IF TUBE IS DESTROYED INDICATE THE LAST PULLOVER GAUGE READING AND/ OR NUMBER OF EFC ROUNDS FIRED AS NOTED IN THE GUN BOOK: N/A
F. ELEVATION: N/A, ZONE IN WHICH FIRED: N/A, LENGTH OF RECOIL AND RANGE TO TARGET: N/A.
G. STATEMENT AS TO WHETHER THE MUZZLE WAS CLOSE ENOUGH TO THE GROUND TO PERMIT THE ENTRY OF FOREIGN MATERIAL: MUZZLE END WAS DROPPED IN THE MUD BUT WAS CLEANED PRIOR TO FIRING.
H. NUMBER OF WEAPONS FIRING REPORTED AMMUNITION LOT ON THE DAY OF THE MALFUNCTION: N/A
4. DESCRIPTION OF THE MALFUNCTION: ROUND FAILED TO FUNCTION WHEN TRIGGER WAS DEPRESSED, MARINE PERFORMED IMMEDIATE ACTION AND TRIED TO FIRE A SECOND TIME. ROUND STILL DID NOT FIRE. SAFETY PIN WAS INSTALLED INTO AT4 AND ROUND WAS PLACED IN DUD PIT AS REQUIRED BY RANGE SOP. AFTER WAITING REQUIRED TIME LIMIT AND CERTIFICATION BY EOD, ROUND WAS RETURNED TO LOCAL ASP.
5. IF THE MALFUNCTION WAS A PREMATURE DETONATION INDICATE:
A. HIGH OR LOW ORDER: N/A
B. DISTANCE FROM THE MUZZLE OR END OF THE LAUNCHER: N/A
C. OBSTRUCTIONS IN THE LINE OF FIRE OR IN THE WEAPON TUBE: N/A
D. FUZE SETTINGS: N/A
E. EVIDENCE OF UNBURNED PROPELLANT OR RESIDUE IN THE TUBE: N/A
F. DEVIATIONS FROM INSTRUCTIONS IN THE TECHNICAL MANUAL (S): NONE
6. PREVAILING CONDITIONS:
A. TIME: 1200. DATE: 20091122. WEATHER CONDITIONS: OVERCAST, NO BREEZE. TEMPERATURE: 20 DEGREES F.
B. TERRAIN AT THE SCENE OF THE MALFUNCTION: ROLLING HILLS
C. TYPE OF TARGET: TANK HULL'S
D. ELECTRICALLY INITIATED AMMUNITION: N/A
7. STORAGE CONDITIONS:
A. PRIOR TO OPERATION: AMMUNITION WAS STORED IN EARTH COVERED MAGAZINE.
B. PRIOR TO FIRING/EMPLOYMENT: AMMUNITION WAS STORED OUTSIDE UNDER A TARPAULIN ON A PALLET AND WAS SUBJECTED TO COLD WEATHER CONDITIONS.
8. REMARKS:
A. LOCAL SUSPENSION WAS IMPOSED AT ASP.
B. NO SUPPLEMENTAL REPORT IS ANTICIPATED.
C. C994 RESIDUE FROM THE MALFUNCTIONING REMAINS AT THE CLNC ASP.
D. DURING POST FIRING INSPECTION, RUST COLORED POWDER WAS SEEN COMING FROM UNDER THE COCKING LEVER.

Ammunition Defect Reporting Instructions

1. Occasionally, ammunition is encountered with obvious, readily noticeable defects such as mortar ignition cartridges with high primers; artillery/tank rounds with cracked cartridge cases; grenades with missing safety pins; deteriorated/leaking propellant bags or containers; and dented/rusty/corroded small arms cartridges. Employment of defective ammunition may result in casualties and/or damage to equipment. Accordingly, the use of defective ammunition is prohibited. All defective ammunition after being certified safe to store/transport by EOD, shall be returned to the supporting Ammunition Supply Point for retention.

2. Defective ammunition shall be retained for possible evaluation/investigation and reported to Marine Corps Systems Command Program Manager for Ammunition MARCORSYSCOM (PM Ammo) utilizing the same distribution list provided for Malfunction Reports, see enclosure (1) 4 b.(1)(c). Additionally, Ammunition Supply Points (ASP) may locally reclassify the entire lot in question and segregate defective items, depending on the significance of the defect(s) noted. Defect reports in the following format, shall be submitted by Naval message within 5 days of the defect identification. This reporting requirement is exempt from reports control according to reference (i), part IV, paragraph 7 e.

a. A report must be submitted by the supporting ASP within 24 hours each time an entire lot is locally suspended from use.

b. In the event that Naval Messaging is not available, Defect Reports in the format provided will be submitted via Email to USMCAmmoMalfunctions@usmc.mil, AmmoMail@usmc.mil, FLBK-MALF@navy.mil, LGR_NSWC_INSERVAMMO@navy.mil and DLGR_NSWC_INSERVAMMO@navy.mil.

3. Defect Report format and data elements are as follows:

a. Unit Identification. Indicate the unit that experienced the malfunction and provide a report serial number. (Reports are to be serially numbered by calendar year; for example, School of Infantry, MCB, Camp Pendleton, 01-09). Include a name, telephone number, and e-mail address (if possible) for the unit's point of contact who is familiar with the malfunction being reported (i.e., was at the gun/firing position, on the range, and/or has first-hand knowledge of the malfunction). Include the unit's Reporting Unit Code (RUC).

b. Ammunition Data. Provide the following:

(a) NSN, DODIC, nomenclature, and ammunition lot number of the complete end item and the lot numbers of the assembled major components, if identifiable. For example, 1315-01-158-8200/C869, Cartridge, 81mm, HE, M889, w/fuze, PD M935, lot number RFG92D027-014 (complete cartridge lot), fuze Lot MA-91H022-002. In those instances when the malfunctioning round is actually a collection of various end items (e.g., in the case of a 155mm round where the projectile with fuze, propellant charge, and primer are loaded into the weapon separately), the NSN/DODIC, nomenclature, and lot number of each of the items must be provided. Include the serial numbers when reporting rockets and missiles. (1) National Stock Number (NSN).

c. Defect Description. Provide a complete narrative description of the discovered defect, but not limited to the following:

(1) Date of discovery.

(2) Circumstances of the discovery.

(3) Was factory seal intact?

(4) Condition of outer/inner packaging.

d. Local Action Implemented. Explain all actions taken to identify the defect and safely store and/or transport the ammunition. Indicate local action taken on defective lot.

e. Available Inventory. Report defective quantity and total quantity remaining on-hand , of defective lot in question, if available.

f. Historical Information. Activity from which lot(s) received, quantity received and date received (if known).

Sample Defect Message

UNCLASSIFIED//
TO: COMMARCORSYSCOM QUANTICO VA AMMO(UC)
MARINE CORPS PROGRAMS FALLBROOK CA(UC)
INFO: CMC WASHINGTON DC(UC)
CMC WASHINGTON DC SD(UC)
COMMARCORSYSCOM QUANTICO VA(UC)
COMMARCORSYSCOM QUANTICO VA IWS(UC)
NAVAMMOLOGCEN MECHANICSBURG PA(UC)
NAVSURFWARCENDIV CRANE IN(UC)
COMNAVSAFECEN NORFOLK VA(UC)
BT
UNCLAS //N08025//
SUBJ/CLASS V(W) AMMUNITION DEFECT REPORT
MSGID/GENADMIN/
REF/A/DOC/MCO 8025.1_/26 OCT 99//
RMKS/IAW REF A, THE FOL DEFECT REPORT IS SUBMITTED:
1. UNIT ID: 2ND BN, 5TH MARINES RUC: 12345, 01-09, POC: SSGT I. M. MARINE, EMAIL: IM.MARINE@usmc.mil, DSN: 750, COMM (703) 123-4567.
2. AMMUNITION DATA:
NSN: 1305011555459, DODIC: A059, NOMENCLATURE: CTG 5.56MM BALL M855 LOT: LC-00A106-428.
3. DEFECT DESCRIPTION: DEFECT FOUND WAS A080 CTG 5.56MM BLANK MIXED WITH A059 CTG 5.56MM BALL. ON 16 MAY 2009, AN ENHANCED MARKSMANSHIP PROGRAM (EMP) DECK SHOOT WAS CONDUCTED ABOARD USS DUBUQUE BY MEMBERS OF BATTALION LANDING TEAM 2/5. AMMUNITION TO BE FIRED FOR THIS DECK SHOOT TOTALED 10,080 ROUNDS OF A059 CTG 5.56MM BALL. EACH MARINE RECEIVED ONE BOX OF (30) A059 CTG 5.56MM BALL AND TWO ADDITIONAL STRIPPER CLIPS OF (10) A059 BALL EACH, TOTALING (50) A059 CTG 5.56MM BALL. SHORTLY AFTER AMMUNITION WAS ISSUED FROM MANUFACTURED SEALED WOODEN BOXES AND AMMO CANS, THE RANGE SAFETY OFFICER (RSO) WAS APPROACHED BY A MARINE WHO HAD BEEN ISSUED AMMUNITION INQUIRING IF IT WAS INTENDED THAT HE RECEIVE BLANK AMMUNITION. THE RSO DISCOVERED THE MARINE HAD BEEN ISSUED (40) A059 CTG 5.56MM BALL AND (10) A080 CTG 5.56MM BLANK. THE RSO TOOK POSSESSION OF THE (10) A080 CTG 5.56MM BLANK AND PROVIDED THE MARINE WITH (10) A059 CTG 5.56MM BALL. AFTER SEVERAL RELAYS PASSED, THE SAME SITUATION OCCURRED WITH ANOTHER MARINE. FOR A SECOND TIME THE RSO RETRIEVED THE (10) A080 CTG 5.56MM BLANK THAT HAD BEEN ERRONEOUSLY ISSUED AND PROVIDED THE SECOND MARINE WITH (10) A059 CTG 5.56MM BALL. AT THIS TIME, THE RSO BEGAN A THOROUGH INSPECTION OF ALL REMAINING ROUNDS TO BE ISSUED AND ORDERED ALL MARINES WHO HAD ALREADY BEEN PROVIDED AMMUNITION TO INSPECT

THEIR AMMUNITION FOR BLANKS. NO OTHER A080 CTG 5.56MM BLANKS WERE FOUND MIXED WITH THE A059 CTG 5.56MM BALL.
4. LOCAL ACTION TAKEN: LOCAL SUSPENSION OF REMAINING LOT WAS IMPLEMENTED.
5. AVAILABLE INVENTORY: QUANTITY DEFECTIVE: TWENTY (20) TOTAL QUANTITY REMAINING ON-HAND OF THE LOT IN QUESTION: 11,230
6. HISTORICAL INFORMATION: UNIT RECEIVED 10,080 RDS FROM THE USS DUBUQUE LFORM, 16 MAY 2009.

Naval Message Plain Language Addresses

All malfunctions

CMC HQMC	CMC WASHINGTON DC(UC)
CMC HQMC Safety Division	CMC WASHINGTON DC SD(UC)
Commander MARCORSYSCOM	COMMARCORSYSCOM QUANTICO VA(UC)
Commander MARCORSYSCOM PM AMMO	COMMARCORSYSCOM QUANTICO VA AMMO(UC)
Expeditionary Systems Evaluation Division Fallbrook	MARINE CORPS PROGRAMS FALLBROOK CA(UC)
NOLSC	NAVAMMOLOGCEN MECHANICSBURG PA(UC)
NSWC Crane	NAVSURFWARCENDIV CRANE IN(UC)
Navy Safety Center	COMNAVSAFECEN NORFOLK VA(UC)

All malfunctions to include rockets/missiles, except pyrotechnics

Commander MARCORSYSCOM PM Infantry Weapon Systems	COMMARCORSYSCOM QUANTICO VA IWS(UC)

All malfunctions involving ground missiles and rockets (TOW/Javelin/SMAW/AT4/LAAW)

Commander MARCORSYSCOM PM Anti Armor Weapon Systems	COMMARCORSYSCOM QUANTICO VA IWS(UC)

All malfunctions to include rockets (AT4, SMAW,LAAW), except missiles (TOW, Stinger, Javelin)

PM Navy Conventional Ammunition Systems	NAVSURFWARCEN DET PICATINNY NJ(UC)
HQ JMC AMSJM-QAS	JMC NICP(UC)

All malfunctions involving HIMARS (H185/HA22/HA37/HA51) and EFSS (CA45/CA46/CA47/CA49/DWGU)

Commander MARCORSYSCOM PM Fire Support Systems Programs	COMMARCORSYSCOM QUANTICO VA AFSS

Naval Message Plain Language Addresses

All malfunctions involving missiles (TOW, Javelin, Stinger, HIMARS, MLRS, GMLRS)

CDR, AMCOM REDSTONE ARSENAL AL	CDRAMCOM REDSTONE ARSENAL AL//AMSAM-MMC-LS-M//

All malfunctions involving Stinger/Stinger Launch Simulator

Commander MARCORSYSCOM PG11	COMMARCORSYSCOM QUANTICO VA MC2I