

**Army Regulation 75-1**

**Explosives**

# **Malfunctions Involving Ammunition and Explosives**

**Headquarters  
Department of the Army  
Washington, DC  
4 November 2008**

**UNCLASSIFIED**

# ***SUMMARY of CHANGE***

AR 75-1

Malfunctions Involving Ammunition and Explosives

This major revision dated 4 November 2008--

- o Updates notification procedures for malfunctions involving ammunition and explosives for the Joint Munitions Command and the U.S. Army Aviation and Missile Command (para 2-1).
- o Makes administrative changes (throughout).

## Explosives

### Malfuncions Involving Ammunition and Explosives

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By Order of the Secretary of the Army:

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*General, United States Army*  
*Chief of Staff*

Official:

  
JOYCE E. MORROW  
*Administrative Assistant to the*  
*Secretary of the Army*

**History.** This publication is a major revision.

**Summary.** This regulation sets forth policy, procedures, and responsibilities for reporting malfunctions involving ammunition and explosives. It provides guidance for reporting ammunition malfunctions and instructions for preparing malfunction reports.

**Applicability.** This regulation applies to the Active Army, the Army National Guard/Army National Guard of the United States, and the U.S. Army Reserve unless

otherwise stated. During mobilization the proponent may modify chapters and policies contained in this regulation.

**Proponent and exception authority.** The proponent of this regulation is the Deputy Chief of Staff, G–4. The proponent has the authority to approve exceptions or waivers to this regulation that are consistent with controlling law and regulations. The proponent may delegate this approval authority, in writing, to a division chief within the proponent agency or its direct reporting unit or field operating agency in the grade of colonel or the civilian equivalent. Activities may request a waiver to this regulation by providing justification that includes a full analysis of the expected benefits and must include formal review by the activity’s senior legal officer. All waiver requests will be endorsed by the commander or senior leader of the requesting activity and forwarded through higher headquarters to the policy proponent. Refer to AR 25–30 for specific guidance.

**Army management control process.** This regulation does not contain management control provisions.

**Supplementation.** Supplementation of

this regulation and establishment of command and local forms are prohibited without prior approval from the Deputy Chief of Staff, G–4 (DALO–SUM), 500 Army Pentagon, Washington, DC 20310–0500.

**Suggested improvements.** Users are invited to send comments and suggested improvements on DA Form 2028 (Recommended Changes to Publications and Blank Forms) directly to the Deputy Chief of Staff, G–4 (DALO–SUM), 500 Army Pentagon, Washington, DC 20310–0500.

**Distribution.** This publication is available in electronic media only and is intended for command levels A, B, C, D, and E for the Active Army, the Army National Guard/Army National Guard of the United States, and the U.S. Army Reserve.

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\*This regulation supersedes AR 75–1, dated 23 April 2001.

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### **Glossary**

## Chapter 1 Introduction

### 1-1. Purpose

a. This regulation prescribes policies, responsibilities, and procedures for reporting malfunctions of ammunition and explosives and for conducting subsequent Department of the Army (DA) investigations.

b. This regulation also covers standard items—

(1) Used with developmental or experimental ammunition, for example, a charge used to propel experimental projectiles.

(2) When issued for comparison purposes during research, developmental, or test phases of new items.

(3) When used for seating, warming, spotting, or other purposes during testing.

(4) When being evaluated for lot acceptance purposes or for fly-to-buy contracts (guided missiles and large rockets only).

c. This regulation does not include developmental or experimental ammunition.

### 1-2. References

Required and related publications and prescribed and referenced forms are listed in appendix A.

### 1-3. Explanation of abbreviations and terms

Abbreviations and special terms used in this regulation are explained in the glossary.

### 1-4. Responsibilities

a. *Deputy Chief of Staff, G-4*. The DCS, G-4 will provide a final decision on type, block, or serious impact suspensions or restrictions affecting the readiness of the Army.

b. *Commanding General (CG), U.S. Army Materiel Command*. The CG, AMC will—

(1) Manage the malfunction investigation program as the responsible official for the DA.

(2) Manage the suspension and release program for the DA.

(3) Budget and manage the malfunction investigation program, suspension program, and release program.

(4) Review type, block, or serious impact suspensions recommended by the Joint Munitions Command (JMC) and the U.S. Army Aviation and Missile Command (AMCOM).

(a) Approve the type, block, or serious impact suspensions if the readiness of the Army is not affected and notify the DCS, G-4 (DALO-SUS), Washington, DC 20310-0500.

(b) Notify the DCS, G-4 (DALO-SUS), Washington, DC 20310-0500 by the quickest means for a decision if it is judged that any suspension will affect the readiness of the Army. An information copy will be provided to the Deputy Chief of Staff, G-3/5/7 (DCS, G-3/5/7) (DAMO-TRA), Washington, DC 20310-0430.

c. *Commanders of Army Commands (ACOMs)/Army Service Component Commands (ASCCs)/Direct Reporting Units (DRUs)*. Commanders of ACOMs/ASCCs/DRUs will designate points of contact to perform the following functions:

(1) Ensure that all potentially affected units within their command have been notified, upon receipt of suspension or restriction notices from JMC or AMCOM.

(2) Receive, coordinate, or initiate actions on all reports of serious mission impacts resulting from ammunition suspension or restrictions of command ammunition stocks.

(3) Report to JMC and AMCOM all serious mission impacts that are not within the ability of the ACOMs/ASCCs/DRUs to correct.

(4) Support the DA Investigation Team for Malfunctions (DAITM) during on-site investigations (see chap 3 for guidance).

d. *Commanding General, Joint Munitions Command*. The CG, JMC will—

(1) Issue suspension or restriction notices for individual lots of all types of conventional and chemical ammunition.

(2) Issue temporary notices for type, block, or serious impact suspensions or restrictions of conventional and chemical ammunition referred to AMC for approval. Referrals for approval will be made to the Commander, AMC (AMCOPS-SCL), Fort Belvoir, VA 22062. These referrals will include, but not be limited to, stockpile impact (training and war reserve), substitute items (when applicable), production status, and security assistance recipients for the last 7 years.

(3) Monitor individual and accumulated suspensions or restrictions and assess the effect on readiness at the wholesale level and, as much as possible, at the retail level.

(4) Notify the Commander, AMC (AMCOPS-SCL), Fort Belvoir, VA 22062, when a significant readiness impact is identified or when a serious mission impact statement received from an ACOM/ASCC/DRU indicates an impact on Army readiness at the retail level.

(5) Investigate malfunctions of conventional and chemical ammunition, identify requirements for on-site investigations, and conduct DAITM investigation if required. A malfunction investigation file will be initiated to manage investigation information. Further, malfunction investigation files will be identified as class A, B, C, or X (see glossary, section II).

(6) Forward information copies of DA Form 4379-1 (Ammunition Malfunction Report) and malfunction investigation results to the Director, U.S. Army Technical Center for Explosives Safety (SJMACE-S) 1C Tree Road, McAlester, OK 74501-9053, or by e-mail, mcal.dac.sjmac-es@conus.army.mil.

(7) List in an official DA-level publication and an accessible automated database all class V items/lots and/or serial numbers (including AMCOM managed items) that are suspended or restricted. Publication will be updated at least annually, and the automated database will be updated at least daily. Suspension/restriction actions or releases disseminated between updates will be issued by an interim message system and will make reference to the governing suspension/restriction publication for inclusion, change, or deletion (as appropriate).

(8) Coordinate quarterly with the DCS, G-3/5/7 Training Ammunition Management Information System Office to assure duds reported through that system have been considered for inclusion in the Army malfunction notification and analysis process as appropriate.

*e. Commanding General, U.S. Army Aviation and Missile Command.* The CG, AMCOM will—

(1) Issue suspension or restriction notices for individual lots of guided missiles and large rockets.

(2) Issue temporary notices for type, block, or serious impact suspensions or restrictions of guided missiles and large rockets referred to AMC for approval. Referrals for approval will be made to the Commander, U.S. Army Materiel Command (AMCOPS-SCL), Fort Belvoir, VA 22062. These referrals will include, but not be limited to stockpile impact (training and war reserve), substitute items (when applicable), production status, and security assistance recipients for the last 7 years.

(3) Monitor individual and accumulated suspensions or restrictions constantly and assess the effect on readiness at the wholesale level and, as much as possible, at the retail level.

(4) Notify the Commander, AMC (AMCOPS-SCL), Fort Belvoir, VA 22062, when a significant impact is identified or a serious mission impact statement received from an ACOM/ASCC/DRU indicates an impact on Army readiness at the retail level.

(5) Investigate all reported malfunctions of guided missiles and large rockets, identify requirements for on-site investigation, and conduct DAITM investigation, if required.

(6) Forward information copies of completed DA Form 4379-1, and malfunction investigation results to the Director, U.S. Army Technical Center for Explosives Safety (SJMA-CES), 1C Tree Road, McAlester, OK 74501-9053, or by e-mail: mcal.dac.sjmac-es@conus.army.mil.

(7) Provide a list of all AMCOM-managed class V items/lots and/or serial numbers that are suspended or restricted to JMC for publication in a DA-level publication and an accessible automated database. Suspension/restriction actions or releases disseminated between updates will be issued by an interim message system and will make reference to the governing suspension/restriction publication for inclusion, change, or deletion (as appropriate).

*f. Director, U.S. Army Technical Center for Explosives Safety.* The Director, USATCES will—

(1) Notify the U.S. Army Combat Readiness Center (USACRC) when informed of a malfunction.

(2) Provide technical assistance to a DA centralized accident investigation (CAI) team board when requested to do so by USACRC, according to AR 385-10.

## **Chapter 2 Procedures**

### **2-1. Malfunction investigation and reporting procedures**

*a. Conventional ammunition and guided missiles.*

(1) The activity commander, unit commander, or senior person in charge will ensure that all available information on ammunition malfunctions is promptly obtained and reported for early determination of the cause of the malfunction and timely action to prevent similar malfunctions.

(2) The commander or person in charge of the firing unit will—

(a) Immediately cease firing suspected ammunition and notify range control or equivalent.

(b) Immediately contact the local ammunition officer, installation quality assurance specialist (ammunition surveillance) (QASAS), supporting ammunition logistics assistance representative (LAR), logistic support element armament LAR, and installation safety officer (contact the Defense Ammunition Center by e-mail, sosac-aocommat@dac-emh2.army.mil, for the phone number of the nearest QASAS) at the local ammunition supply point (ASP) or training activity. The nearest explosives ordnance disposal (EOD) unit will be notified if the ammunition is considered hazardous. Note: To locate the nearest logistic support element or LAR, go to <https://aeps2.ria.army.mil/services/lars/laolocator/laomap.cfm>, or contact ROCKAMSTALGRF@conus.army.mil.

- (c) Relate all available information on the malfunction.
- (d) Secure the malfunction site to prevent the removal or relocation of ammunition or ammunition components, weapons or weapons debris, and ammunition packaging until authorized by the ammunition officer or QASAS.
- (3) The ammunition officer, assisted by range control, the QASAS, the installation safety officer, the ammunition LAR, and the AMC weapon system logistics assistance representative, will, when appropriate—
- (a) Gather data as necessary for all reported malfunctions.
- (b) Locally suspend affected ammunition and immediately notify all units in possession of suspended stock (see para 2-4c).
- (c) Ensure prompt and complete reporting of ammunition malfunctions (see app B for dud and misfire reporting rates) to AMC, as stated in paragraph 2-1f, for review and action. All missile malfunctions will be reported. The reportable rate for missile misfires and duds is one.
- (d) Ensure compliance as applicable with requirements of the *Department of Defense Policy to Implement the EPAs Military Munitions Rule*, dated 1 July 1998.
- (4) Activities responsible for ammunition involved in the malfunction will initiate and forward all required reports to higher headquarters for review, distribution, and action as appropriate per command directives.
- (5) Unless overriding safety or security considerations exist, the immediate malfunction area, including equipment and weapons, will not be disturbed before an investigation is conducted. The appropriate AMC commodity command will notify the malfunction location within the continental United States (CONUS) or the ACOM/ASCC/DRU outside the continental United States (OCONUS) within 24 hours from receipt of the preliminary report as to whether an onsite DAITM investigation will be conducted. Where no DAITM onsite investigation is conducted, a local investigation will be conducted.
- (6) Fragments and residue will be kept for 90 days after the malfunction. If disposition instructions are not received within 90 days, local disposition is authorized, unless the malfunction involved personal injury or property damage of civilians. In such cases, fragments and residue will not be disposed of until the command's staff judge advocate or legal advisor concurs.
- (7) Accidents or incidents will be reported per AR 385-10. Accidents in which an ammunition malfunction is thought to be a direct or contributing factor will also be reported according to AR 385-10.
- (8) Ammunition items to be reported per appendix B, if not imminently hazardous, will be retained by the firing unit pending an investigation or until disposition instructions are received from the local ammunition officer.
- b. *Security assistance materiel.* If malfunctions involve U.S. Army munitions supplied under security assistance, the Joint U.S. Military Assistance Advisory Group, Defense Attach Office, or embassy representative will—
- (1) Notify the host country of the requirement to report all malfunctions of security assistance ammunition.
- (2) Advise and assist the host country ammunition officer on preparation and submission of the report.
- (3) Provide weapons or munitions expertise through the U.S. Army Security Affairs Command to assist in the investigation of malfunctions when requested by the host country.
- c. *Ammunition malfunctions in combat.* Getting reports of malfunctions that occur in combat is extremely valuable. Often the ammunition used in combat is our best ammunition and some may only be used for combat operations. Alerting other users of malfunctions allows restrictions or suspensions so that other units do not encounter similar failures. Malfunction reports will be filed whenever practical. Detailed reports are desired if possible. The identity of lot numbers for ammunition involved in malfunctions is very important. If lot numbers cannot be determined, the malfunction will be reported as lot unknown. With or without a known lot number, reports and investigation will be as complete as possible within combat operation limits.
- d. *Test range and proving ground reporting.* Ammunition test ranges and proving grounds with an ammunition test mission will report malfunctions of standard ammunition as follows:
- (1) The local ammunition officer will submit both a preliminary and a detailed report for all malfunctions. The reports will be distributed as stated in paragraph 2-1e and 2-1f.
- (2) Information copies of all malfunction reports will be forwarded to Commander, Army Test and Evaluation Command (CSTE-ILE), 4501 Ford Avenue, Alexandria, VA 22302-1458.
- e. *Preliminary reports.*
- (1) After being informed by the firing unit of a malfunction, the local ammunition officer of the storage activity or the supporting QASAS/ammunition LAR will immediately make a preliminary report. This report will be submitted in accordance with paragraph 2-1e(4) and (5). Reports for class A and B malfunctions will be made by the fastest means available. class C malfunctions will be submitted (preferably electronically) using DA Form 4379 or DA Form 4379-1. A class C malfunction may be submitted using class A or B procedures if special assistance is required or an unusual circumstance exists. Preliminary reports will be continued under condition MINIMIZE.
- (2) The preliminary report will not be delayed if an ammunition officer or QASAS is not available.
- (3) When malfunctions occur in an overseas command, the preliminary report will be relayed to the commander or designated representative. This information will be properly relayed to the proper address in paragraph 2-1e(4) or (5) by the end of the day in which the malfunction occurred.

(4) Preliminary reports on malfunction of conventional ammunition will be patterned after DA Form 4379, including all Army-designated class V items except guided missiles and large rockets. This includes warheads and warhead sections (when not assembled to guided missiles or large rockets) and small rockets (2.75 inch and smaller). The preliminary report will contain all applicable information requested in DA Form 4379 but will not be delayed if some of the information is not immediately available. Preliminary Reports of class A and B malfunctions will be submitted (by telephone if possible) to the Commander, U.S. Army Joint Munitions Command (AMSJM-QAS), Rock Island, IL 61299-6000 (DSN: 793-6982/8490/7561, commercial: 309-782-6982/8490/7561), or by e-mail: rock-jmc-qas-malf@conus.army.mil. During nonduty hours (including holidays and weekends), reports will be made to the JMC ammunition operations desk by phone (DSN: 793-7270/6321, commercial (309) 782-7270/6321) or by e-mail: rock-jmc-opctr-op@conus.army.mil. (Malfunction reports considered classified because of operational necessity will be sent to the JMC Operations Center via secure internet protocol router network e-mail: jmc-a3-ammo@ladc-rock4.army.smil.mil.)

(5) Preliminary reports of class A and B malfunctions for guided missiles and large rockets will be patterned after DA Form 4379-1. These reports will be submitted to the Commander, Program Executive Officer Missile and Space, SFAE-MSL-SL, Redstone Arsenal, AL 35898-5679; by phone (DSN: 897-2066; commercial 256-313-2066), or by e-mail: aocnobleagle@redstone.army.mil. During nonduty hours (including holidays and weekends), reports will be made to the AMCOM staff duty officer at DSN 897-2066, commercial 256-313-2066.

(6) The appropriate commodity command will report, by telephone, malfunctions involving injuries or significant weapon damage to U.S. Army Materiel Command (AMCAM-LG), DSN 656-9810, commercial 703-806-9810. During nonduty hours (including holidays and weekends), reports will be made to the AMC staff duty officer, DSN 656-9200, commercial 703-806-9200.

(7) Any locally devised numbering system may be used to distinguish malfunctions. For example, report numbers may be assigned consecutively showing the reporting unit identification code (UIC) or Department of Defense Activity Address Code (DODAAC), the number of reports submitted, and the four-digit calendar year. For example, the report of a unit's first malfunction for calendar year 2008 would be numbered "UIC 1 2001" or "DODAAC 1 2008;" the unit's second report in calendar year 2008 would be numbered "UIC 2 2008" or "DODAAC 2 2008."

(8) All preliminary reports of malfunctions involving ammunition and explosives will include the Requirement Control Symbol (RCS) CSGLD-1961.

*f. Detailed report.*

(1) A detailed written report, with pictorial evidence of class A and B malfunctions, if possible, will follow the preliminary report. This report will be sent through proper channels within ten days of the reported malfunction. The report will be expedited through channels to ensure prompt arrival at the investigating office. (Submit electronically whenever possible.)

(2) The detailed report will include all points specified on DA Form 4379 or DA Form 4379-1, as appropriate, and any other available pertinent information. Eyewitness accounts or statements will be included if available.

(3) All correspondence covering the same malfunction will be identified with identical report numbers per paragraph 2-1e(7) and (8).

(4) Instructions for completing detailed reports are given in paragraph 2-2.

**2-2. Preparing DA Form 4379 (RCS CSGLD-1961 (MIN)) and DA Form 4379-1 (RCS CSGLD-1961 (MIN))**

*a. DA Form 4379 (see fig 2-1).*

(1) This form is used to submit detailed reports to the Commander, U.S. Army Joint Munitions Command (AMSJM-QAS), Rock Island, IL 61299-6000.

(2) Because this form is designed for reporting a wide variety of malfunctions, some of the data requested will not apply in every case. If the requested data does not apply to the malfunction being reported, enter Not Applicable or NA; if the data are not available within the specified reporting time, enter Not Available; if the data are unknown, enter Unknown or UNK.

(3) An information copy will be sent to the local safety office and to the command safety office.

(4) Information copies of reports on HYDRA-70/2.75-inch rockets and warheads, or warhead sections not assembled to guided missiles or large rockets, will be sent to the Commander, U.S. Army Aviation and Missile Command (SFAE-MS-LSL), Redstone Arsenal, AL 35898-5679.

(5) For CONUS malfunctions, information copies of all completed reports will be sent to the commander of the appropriate ACOM/ASCC/DRU (Ammunition Officer/QASAS). For malfunctions being reported by Eighth U.S. Army (EUSA) personnel, information copies of all completed reports will be sent to the Commander, EUSA (EAGD-AM-SS), APO AP 96205-0010.

*b. DA Form 4379-1 (see fig 2-2).*

(1) This form will be used to report all malfunctions involving guided missiles and large rockets assembled with

nonnuclear warhead sections and all separately packaged components required to assemble a complete missile or large rocket (except unassembled warheads).

(2) Detailed reports will be sent to the Commander, U.S. Army Missile Space Command (AM-SAM-MMC-LS-MM), Redstone Arsenal, AL 35898-5679.

AMMUNITION MALFUNCTION REPORT				1. REPORT NO.		Requirements Control	
For use of this form, see AR 75-1; the proponent agency is DCSLOG				W16R5K-3-93		Symbol - CSGLD 1961	
2. MALFUNCTIONING ITEM CHG,1-1B TNT DEMO BLK, IOP-5-26				3. ITEM COMPONENTS SEE BLANK FORM			
4. MALFUNCTION DESCRIPTION PREMATURE DETONATION							
5. SITE OF MALFUNCTION RANGE 50		6. UNIT CONTROLLING SITE COMMANDER FORT DRUM ATTN: AFZS WATERTOWN, NY 13602-5000		7. UNIT USING AMMUNITION COMMANDER FORT DRUM COMPANY A, 41ST ENGINEER BN WATERTOWN, NY 13602-5000			
8a. DATE MALFUNCTION OCCURRED 15 FEB 93	8b. TIME 0615 HRS						
9a. CASUALTIES (No. Killed) 0		9b. CASUALTIES (Hospitalized) 1		9c. CASUALTIES (Other Injuries) 0			
9d. DESCRIPTION TNT BLK DETONATED WHILE SETTING CHARGE SOLDIER LOST RIGHT FOREARM.							
10. DAMAGE				10c. DESCRIPTION DETONATION OCCURRED IN RANGE 50. NO WEAPON OR PROPERTY DAMAGE.			
a. WEAPON DAMAGED? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A		b. DAMAGE REPAIRABLE AT UNIT LEVEL? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A					
11. DETONATION <input type="checkbox"/> a. None <input type="checkbox"/> b. In Weapon				c. M FROM WEAPON		d. M FROM NEAREST PERSON	
12. Quantity Remaining				13. EXHIBITS AVAILABLE (Hold Exhibits Pending Disposition Instructions per AR 76-1, para. 2-11.)			
a. FIRING SITE SEE BACK	b. LOCAL STORAGE SEE BACK	c. SUSPENDED? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		<input type="checkbox"/> a. Fragments		<input type="checkbox"/> b. Intact Components	
				<input type="checkbox"/> c. Weapon		<input checked="" type="checkbox"/> d. None	
14. Firing Conditions for Malfunction Lot							
a. WEAPON N/A				b. TARGET N/A			
c. RANGE 0 M	d. AZIMUTH N/A	e. ELEVATION N/A		f. ZONE N/A	g. FUZE SETTING N/A		
h. FIRED HOW MANY ROUNDS PER MINUTE FROM WEAPON 0		i. FOR HOW MANY MINUTES BEFORE MALFUNCTION 0		j. TOTAL FIRED FROM WEAPON ON DAY OF MALFUNCTION 0			
k. TOTAL MALFUNCTIONED 0		l. TOTAL FIRED 0		m. MALFUNCTION RATE 0%			
15. Terrain							
a. FIRING SITE DRY GRASSY PLAIN	b. DOWN RANGE DRY GRASSY PLAIN	c. POSSIBLE OBSTRUCTIONS NONE		d. CLEAR VIEW OF FLIGHT PATH M			
16. Weather Conditions							
a. VISIBILITY 2000 METERS	b. PRECIPITATION CLEAR		c. TEMPERATURE 70 F	d. PRIOR 24 HOURS HIGH 80 F LOW 65 F		e. RELATIVE HUMIDITY 85%	
17. Malfunction Lot Storage Conditions				18. Packaging of Malfunction Lot			
a. Firing Site: <input checked="" type="checkbox"/> Open <input type="checkbox"/> Enclosed		b. Local Storage: <input type="checkbox"/> Open <input checked="" type="checkbox"/> Enclosed		a. Original Package?		YES	NO
c. UNPACKED HOW MANY HRS. BEFORE MALFUNCTION 1		d. MAGAZINE TYPE 80-FT EARTH COVERED MAGAZINE		e. STORED HOW MANY MONTHS 8		b. Original Seal?	
				c. Package Adequate?			
				d. Package Damaged?			
19. ADDITIONAL DATA (If more space is needed, use continuation sheet or back of form)							
20a. FOR ADDITIONAL DATA, CONTACT MR. R. JOHNSON (SURVL OF C)				21a. PERSON COMPLETING REPORT MR. R. JOHNSON			
b. TELEPHONE NO. (Include Area Code) DSN 555-5555		c. TELEPHONE NO. (Include Area Code) DSN 555-5555		c. DATE 15 FEB 93			

DA FORM 4379, APR 01

DA FORM 4379, JAN 89 MAY BE USED

USAPA V1.00

Figure 2-1. Sample of ammunition malfunction report

<b>MISSILE AND ROCKET MALFUNCTION REPORT</b>				<i>Requirements Control Symbol - CSGLD 1961</i>	
For use of this form, see AR 75-1; the proponent agency is DCSLOG					
TO Commander U.S. Army Missile Command ATTN: AMSMI-LC-AM Redstone Arsenal, AL 36809			FROM COMMANDER 2044TH CSG (ORD) ATTN: ASP #1, SURVEILLANCE APO NY 09112		
1a. DATE OF MALFUNCTION 27 FEB 93	1b. TIME OF MALFUNCTION 1037 HRS	2. MALFUNCTION REPORT NO. WHHHF8P-1-93	3. DATE OF REPORT 27 FEB 93		
4a. UNIT (Battery) C COMPANY		4b. BATTALION 1/7 INF			
4c. DIVISION 3RD INF		4d. OTHER (Specify)			
5. LOCATION OF FIRING RANGE 301, POSITION 2.2 GRAFENWÖEHR, GERMANY		6. TYPE AND METHOD OF FIRING		7. MISSILE TIME OF FLIGHT (SEC) 1.5 SEC	
		a. Type of Firing TROOP TRAINING	b. Method of Firing SURF TO SURF		
8a. MISSILE OR ROCKET TYPE TOW GM, SURFACE ATTACK, BGM-71A2		8b. MODEL NO. BGM-71A2			
9a. MISSILE SERIAL NO. 004498	9b. MISSILE LOT NO. HAQ-104-10A	9c. MISSILE NSN 1410-01-139-1512-PB94			
10a. WARHEAD TYPE HEAT M207E1	10b. SERIAL NO. N/A	10c. LOT NO. IOP-3-5			
11a. ROCKET MOTOR MODEL N-14	11b. SERIAL NO. N/A	11c. LOT NO. N/A			
12a. MOTOR CLUSTER MODEL N/A	12b. SERIAL NO. N/A	12c. LOT NO. N/A			
13a. IGNITER MODEL N/A	13b. SERIAL NO. N/A	13c. LOT NO. N/A			
14a. FUZE MODEL N/A	14b. SERIAL NO. N/A	14c. LOT NO. N/A			
15a. S&A DEVICE MODEL N/A	15b. SERIAL NO. N/A	15c. LOT NO. N/A			
16a. LIQUID PROPELLANTS (Fuel) N/A		16b. LIQUID PROPELLANTS (Oxidizer) N/A			
17a. LAUNCHER MODEL M220A1		17b. SERIAL NO. (If damaged, explain in Item 32) 21174			
18a. WEATHER CONDITIONS (Wind) 0-5 MPH		18b. WEATHER CONDITIONS (Visibility) OVERCAST		18c. WEATHER CONDITIONS (Temperature) 40 DEGREES F.	
19. TARGET RANGE (Meters or Kilometers) 1500 METERS	20. TARGET ALTITUDE (Foot or Kilometers) N/A	21. TARGET AZIMUTH (M/S) N/A		22. TARGET SPEED (Knots or Meters Per Sec) STATIONARY	
23. TELEMETRY SYSTEM N/A		24. STORAGE CONDITIONS PRIOR TO FIRING OR OPERATION STORED IN ORIGINAL CONTAINERS IN AN 80-FOOT EARTH COVERED MAGAZINE. ITEM WAS UNPACKED 30 MINUTES PRIOR TO FIRING.			
25. NATURE OF PROPERTY DAMAGE NONE		26. NUMBER OF FATALITIES OR INJURIES  0			
27. DESCRIPTION OF MALFUNCTION (Erratic Flight, Short Round, In-Flight Breakup, Down-Range Premature, Etc.) (Continue on Reverse Side) MISSILE FIRED, FLEW DOWN RANGE, AND NOSED INTO GROUND, IMPACT WAS APPROX. 128 METERS FROM LAUNCHER. INVESTIGATION REVEALED THE GUIDANCE WIRES WERE EITHER DICONNECTED AT LAUNCH OR CUT AFTER LAUNCH. MISSILE DID NOT DETONATE UPON IMPACT. A MICOM REPRESENTATIVE WAS ON SITE DURING THE INITIAL INVESTIGATION.					

Figure 2-2. Sample of missile and rocket malfunction report

27. DESCRIPTION (Continued)

28a. NO. ROUNDS/MISSILES FIRED FROM SUSPECT LOT ON DAY OF MALFUNCTION  <p style="text-align: center;">1</p>	28b. NO. ROUNDS/MISSILES REMAINING FROM SUSPECT LOT ON DAY OF MALFUNCTION  <p style="text-align: center;">3</p>	29. LOCATION OF MALFUNCTION IN RELATION TO WEAPON OR LAUNCHER (Yards or Meters)  <p style="text-align: center;">128 METERS</p>
---	---	--

30. CORRECTIVE ACTION TAKEN (Such as Withdrawal of Missiles/Rockets from Use)

31a. FRAGMENTS OR COMPONENTS OF INTEREST TO MALFUNCTION INVESTIGATION ARE AVAILABLE?  <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	31b. TECHNICAL ASSISTANCE FROM COMMODITY COMMAND IS NECESSARY TO DETERMINE CAUSE OF MALFUNCTION?  <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
---	---

32. OTHER PERTINENT INFORMATION (Include Sketches or Photographs of Important Features that may Assist in Establishing the Cause of the Malfunction)

33a. NAME OF WITNESS WHO CAN PROVIDE ADDITIONAL INFORMATION REQUIRED  <p style="text-align: center;">SFC STEVE NELSON</p>		33b. TELEPHONE NO. OF WITNESS  <p style="text-align: center;">DSN 555-5555</p>	
34a. TYPED NAME OF AMMUNITION OFFICER OR PERSON MAKING REPORT  <p style="text-align: center;">LT. JOE HIGGINS</p>	34b. RANK  <p style="text-align: center;">O-2</p>	34c. SIGNATURE OF AMMUNITION OFFICER OR PERSON MAKING REPORT	34d. DATE  <p style="text-align: center;">27 FEB 93</p>

REVERSE OF DA FORM 4379-1, APR 01

USAPA V1.00

Figure 2-2. Sample of missile and rocket malfunction report – Continued

### 2-3. Notification of defects in ammunition and explosives

a. Defective ammunition as noted below will not be fired. The officer in charge of firing will notify the following of ammunition showing defects that was issued to troops for firing (RCS exempt: See AR 335-15, para 5-2c):

- (1) The local ammunition officer, QASAS/LAR, or both.
- (2) The responsible combat support force.

b. Typical defects to be reported include, but are not limited to, the following:

- (1) Projectiles of fixed rounds found loose in cartridge cases.
- (2) Fuses on fused rounds that are—
  - (a) Inadequately tightened.
  - (b) Insecurely staked (when required).
  - (c) Missing safety devices.
- (3) Safety and arming mechanisms that are in an armed position.
- (4) Ammunition that shows serious deterioration or corrosion.
- (5) Ammunition that shows any evidence of incipient or latent defects in material or assembly.
- (6) Ammunition that hang fires. For ammunition that hang fires, explosive ordnance disposal (EOD) will be notified to remove the ammunition from the weapon system for examining/photographing prior to destruction. The QASAS/LAR or safety officer will be notified whenever practical.

c. The ammunition officer, QASAS/LAR, or both will investigate all observed or reported defects. They will report and handle defects per DA Pam 750-8.

d. Defective ammunition found before firing will not be fired. If procedures to make it safe are not required, the ammunition will be properly repackaged, marked to show defective contents, and turned in to the supporting ammunition supply point. If render safe procedures are required or the defective ammunition presents other hazards, the supporting EOD unit will be notified.

### 2-4. Suspensions

a. *General.* These procedures apply to suspension of all munitions by type, model, or individual lot, and their eventual disposition. As applicable, the CG, JMC or the CG, AMCOM will—

(1) Upon receiving a report of a malfunction that presents an immediate threat of inflicting death or major injury to user personnel or friendly forces (class A malfunction), immediately take action, including during nonduty hours, to suspend the affected stocks. The following will be notified of the suspension or restriction action by the quickest means:

(a) Consignees, field installations, depots, proving grounds, loading plants, and other Army areas or commands affected.

- (b) Other appropriate agencies.
- (c) The Department of the Navy.
- (d) The Department of the Air Force.

- (2) Provide instructions for lifting suspensions or restrictions.
- (3) Provide needed replacements when requisitions are received.
- (4) Provide disposition instructions for suspended stocks.

(5) Notify security assistance (SA) recipients through the U.S. Army Security Affairs Command channels of suspension, restriction, and release action when it is known that they received affected lots. When message supplements to TB 9-1300-385 are sent to joint United States Military Assistance Advisory Group (JUSMAAGs), defense attach offices, embassies, or other non-U.S. addressees within the affected country, this notification is not required.

(6) Send a summary of the investigation results to SA recipients that reports a malfunction. Include corrective action. This information will be sent through U.S. Army Security Affairs Command channels.

b. *Type, block, or serious impact suspensions and restrictions.*

(1) The CG, AMC (AMCOPS-SCL) will—

(a) Approve type, block, or serious impact suspensions and restrictions of conventional and chemical ammunition, guided missiles, and large rockets according to paragraph 1-4b(4). Coordination will be implemented with ACOMs/ASCCs/DRUs, as appropriate.

(b) Lift suspensions and restrictions previously approved by the CG, AMC (AMCOPS-SCL).

(2) The DCS, G-4 (DALO-SUS) will provide final decisions on suspension and lifting of suspensions or restrictions for type, block, or serious impact suspensions or restrictions for conventional and chemical ammunition, guided missiles, and large rockets affecting the readiness of the Army referred by the CG, AMC (AMCOPS-SCL) to the DCS, G-4 (DALO-SUM) for decision per paragraph 1-4a.

(3) The JMC or AMCOM, as applicable, will forward all type, block, or serious impact suspensions and restrictions

of conventional and chemical ammunition, guided missiles, and large rockets to the CG, AMC (AMCOPS-SCL) for review according to paragraph 1-4b.

(4) These decisions will be published by the applicable commodity command as suspensions or releases.

*c. Local suspensions of ammunition.* Activities will locally suspend a lot of ammunition from use if

(1) Ammunition is the possible cause of an accident causing death or lost-time injury.

(2) Any lot of ammunition or a component of it has malfunctioned so that its further use will probably cause injury or equipment damage. (See AR 385-63 and paragraph 2-3a through d of this regulation.)

(3) The same lot is involved in multiple malfunctions within a short time period.

*d. Disposition instructions.* Installations storing ammunition that has been suspended will—

(1) Hold suspended munitions until disposition instructions are received from JMC or AMCOM, as appropriate. To obtain disposition instructions for permanently suspended munitions managed by JMC, units will report involved quantities and related information per DA Pam 750-8 after fix is included in TB 9-1300-385 or its supplement.

(2) Assure all suspensions remain in effect until JMC or AMCOM releases or directs release for issue and use when—

(a) Munitions have been locally suspended.

(b) Temporary suspension has been issued by JMC or AMCOM.

*e. Lot inventory data.* Units receiving a temporary suspension notice from JMC or AMCOM will

(1) Report on-hand quantities per TB 9-1300-385. Units will assess the effect of suspensions or restrictions. Suspension or restriction actions resulting in a serious mission impact will be promptly reported to the proper ACOM/ASCC/DRU.

(2) Commands receiving serious mission impact statements concerning conventional or missile ammunition from subordinate using units will assess and report the overall impact on mission readiness to the Commander, U.S. Army Joint Munitions Command (AMSJM-QAS), Rock Island, IL 61299-6000 by phone (DSN: 793-6982; commercial 309-782-6892, or by e-mail: rock-jmc-qas-malf@conus.army.mil During nonduty hours (including holidays and weekends), reports will be made to the JMC ammunition operations desk by phone or e-mail, rock-jmc-opctr-op@conus.army.mil); or to the Commander, Program Executive Office (PEO) Missile and Space (SFAE-MSLS-L), Redstone Arsenal AL 35898-5679, by phone (DSN: 897-2066) or e-mail: aocnobleagle@redstone.army.mil. During nonduty hours (including holidays and weekends), reports will be made to the AMCOM staff duty officer by phone (DSN: 8972066; commercial: 256-313-2066). Negative impact responses are not required. Malfunction reports considered classified because of operational necessity will be sent to the JMC Operations Center via secure internet protocol router network e-mail: jmc-a3-ammo@ladc-rock4.army.smil.mil.

## **Chapter 3**

### **Support of Department of the Army Investigation Team for Malfunctions**

#### **3-1. General**

*a.* The DAITM is authorized to perform a comprehensive, first-hand inquiry on site directed toward establishing conditions and the chain of events leading to the malfunction. The DA investigation is designed to determine probable cause and initiate appropriate corrective action Armywide.

*b.* Subject to the exercise of the U.S. Army Criminal Investigation Command (USACIDC) jurisdiction according to AR 195-2, paragraphs 3-1 and 3-2, the CAI team will exercise coordination control of the accident investigation actions and access to the accident site.

*c.* The DAITM will coordinate onsite requirements with the CAI team in conduct of the malfunction investigation and will provide the CAI team a technical advisor upon request.

*d.* Common source factual information will be freely exchanged between the CAI team and the DAITM.

*e.* Names of witnesses interviewed may be shared among the CAI team, USACIDC, and the DAITM. Contents of the interview statements will not be released between the investigatory bodies or to any other investigatory bodies, although each body may conduct separate interviews with the witnesses.

*f.* The AMC commodity commands (JMC and AMCOM) will—

(1) Perform DA investigations of class A and B malfunctions, and class C malfunctions as required, involving ammunition and explosives. This may include an onsite investigation.

(2) Determine within 24 hours of receipt of a preliminary report whether an onsite investigation by DAITM is required and advise the reporting organization immediately by priority message.

(3) Direct shipment of samples and malfunction residue, as required.

(4) Ensure the DAITM provides exit briefing as required by the ACOM/ASCC/DRU concerned.

*g.* Army Commands/ASCCs/DRUs experiencing a malfunction will—

(1) Designate a senior point of contact (POC) for subsequent inquiries and coordination of collateral investigations

involving the reported malfunction. The designated POC will ensure that information gathered by collateral investigations is provided to the DAITM.

(2) Coordinate shipment of samples or malfunction residue as directed by the DAITM or AMC commodity command in support of the malfunction investigation.

(3) Ensure personnel of subordinate organizations involved in the malfunction are available to the DAITM for interviews.

(4) Coordinate with the installation commander to assure explosive ordnance disposal (EOD) support is available.

*h.* Installation commanders will—

(1) Preserve the class A or B malfunction site intact until the DAITM conducts the investigation or until advised that the DAITM will not investigate on site. This does not preclude necessary safety and security actions regarding the malfunction site.

(a) If the site must be disturbed, obtain photographs of ammunition, fragments, weapons, and launchers for use during the DAITM malfunction investigation.

(b) If an onsite DAITM investigation is not made, assure that a local investigation is conducted and include results in the detailed malfunction report (see para 2–2).

(2) Provide liaison to the DAITM. The liaison will act as initial POC for the installation, arrange local transportation, and provide other local support as requested.

(3) Obtain local EOD support, if requested by the DAITM. This may involve personnel, x-ray equipment, metal detectors for fragment searches, and cameras.

(4) Coordinate with the commander of the unit experiencing the malfunction and arrange for interviews of appropriate personnel as requested by the DAITM. This may include the range installation safety officer, forward observers, witnesses, gun crew, and other personnel.

(5) Arrange for expeditious shipment of samples or malfunction residue as requested.

*i.* The Director, U.S. Army Technical Center for Explosives Safety will provide a team member or technical assistance when requested by JMC or AMCOM.

### **3–2. Procedures**

During the onsite investigation, the DAITM will—

*a.* Interview witnesses and other involved personnel.

*b.* Examine the malfunction site. This includes examination and measurement of craters, fragments (in place), and the weapon involved in the malfunction. The team may also require photographs of the site, materiel, and other related subjects.

*c.* Examine storage facilities and review records for involved ammunition.

*d.* Examine the condition of materiel remaining in storage.

*e.* Review the weapon/missile logbook.

*f.* Search for fragments.

*g.* Review other materiel as dictated by circumstances of the malfunction.

### **3–3. Points of contact outside the continental United States**

Coordination of the DAITM OCONUS travel schedule will be made with the following offices if the senior POC designated by the ACOM/ASCC/DRU cannot be reached:

*a.* Europe: AMC–Europe (AMXEU–LA).

*b.* Far East: AMC–Far East (AMXLA–FE).

*c.* U.S. Army Pacific: LAO–Pacific (AMXLA–C–P).

*d.* U.S. Army South (USARSO): LAO–USARSO (ARSO–LG).

*e.* Alaska: LAO–Alaska (AMXLA–C–W–AK).

## **Appendix A References**

### **Section I Required Publications**

#### **AR 195-2**

Criminal Investigation Activities (Cited in para 3-1*b*.)

#### **AR 385-10**

The Army Safety Program (Cited in paras 1-4*f*, 2-1*a*(6).)

#### **AR 385-63**

Range Safety (Cited in para 2-4*c*(2).)

#### **DA Pam 750-8**

The Army Maintenance Management System (TAMMS) Users Manual (Cited in paras 2-3*c*, 2-4*d*(1).)

#### **TB 9-1300-385**

Munitions Restricted or Suspended (Cited in paras 2-4*a*(5), 2-4*d*.)

### **Section II Related Publications**

A related publication is a source of additional information. The user does not have to read it to understand this publication.

#### **AR 335-15**

Management Information Control System

#### **AR 702-12**

Quality Assurance Specialist (Ammunition Surveillance)

#### **AR 740-1**

Storage and Supply Activity Operations

#### **DA Pam 385-63**

Range Safety

#### **DA Pam 385-64**

Ammunition and Explosives Safety Standards

#### **FM 4-30.13**

Ammunition Handbook: Tactics, Techniques, and Procedures for Munitions Handlers

#### **Office of the Secretary of Defense**

DOD Policy to Implement the EPAs Military Munitions Rule. (Available at <https://www.denix.osd.mil/portal/page/portal/content/environment/Munitions/1JULY98MRIP.HTML>.)

#### **RCS CSGLD-1961**

Malfunctions Involving Ammunition and Explosives

### **Section III Prescribed Forms**

The following forms are available on the Army Publishing Directorate Web site (<http://www.apd.army.mil>).

#### **DA Form 4379**

Ammunition Malfunction Report (Prescribed in paras 1-4*d*(6), 2-1*e*, 2-1*f*, 2-2*a*, and fig 2-1.)

#### **DA Form 4379-1**

Missile and Rocket Malfunction Report (Prescribed in paras 1-4*e*, 2-1*e*, 2-1*f*, 2-2*b*, and fig 2-2.)

**Section IV**  
**Referenced Forms**

**DD Form 1650**  
 Ammunition Data Card

**Appendix B**  
**Dud and Misfire Reporting Rates-Conventional Ammunition**

**B-1. Reporting malfunctions**

*a.* Dud and misfire rates greater than or equal to those in this appendix will be reported using the same procedures as for other types of malfunctions. To be reportable, a lot of ammunition must meet or exceed both the malfunction rate and the minimum number of duds or misfires. A malfunction report (DA Form 4379) must be filed if there is a 5 percent dud rate (minimum of 2 duds). A DA Form 4379 must also be filed if there is a 1 percent misfire rate (minimum of two misfires). The only exceptions to these malfunction rates and minimum reporting numbers for duds and misfires are shown in table B-1. Note that these reporting rates are for duds and misfires only. All other malfunctions need to be reported. Every dud and misfire, whether meeting the formally reportable criteria or not, will be brought to the attention of the local ammunition officer and QASAS/LAR.

*b.* Malfunction reports for excessive duds and misfires are required so that timely corrective action may be taken for the rest of the lot. Note that rates in table B-1 are reportable rates, not expected rates.

**B-2. Calculating percentage rates**

*a.* When calculating percentage rates for duds or misfires, the total quantity used in the calculation will normally be the quantity fired by the using unit on a particular day.

*b.* Cumulative totals for the lot in question involving other days or units may be used only when local procedures require reporting and recording of lots fired and duds or misfires that occurred; this applies even if they are less than the reportable rates in table B1.

*c.* Records for time periods up to 30 days may be combined if satisfactory records exist.

*d.* Examples of calculations are as follows:

(1) Unit A expends 30 fragmentation grenades with two duds. Records are not kept at this range on lots expended. However, this lot will be reported since two grenades were duds (reportable number) and the rate exceeded the five percent reportable rate (2 divided by 30 times 100 equals 7 percent).

(2) Unit B fires 62 mortar rounds of which four are duds. Since accurate records are kept at this range and the records show that within the past 30 days several other units have fired 238 rounds of the same lot and had six duds, the failure rate is figured using the total duds and total rounds during the 30-day period. The formula is as follows: Total duds divided by total rounds fired times 100 equals the percent failure rate: ((4 plus 6) divided by (62 plus 238)) equals (10 divided by 300) equals (.0333 times 100) equals 3.33 percent. Even though more than the minimum reportable number of duds occurred, no report will be made in this case because the cumulative dud rate is less than the reportable rate (3.33 percent versus 5.0 percent).

**Table B-1**  
**Exceptions to the reportable rates**

Type of ammunition	Reportable malfunction rate in percent	Minimum number <sup>1</sup>
Guided Missiles: Duds	NA	1
Misfires	NA	1
Small arms (through .50 caliber): Misfires	0.1 (1 in 1000)	2
Burning-type grenades-duds	10	5
Flare, surface, trip M49 series duds		
Simulator, booby trap, illuminating, M18 series duds	10	2

Notes:

<sup>1</sup> Minimum number of dud or misfire malfunctions that are required to be reported for the reportable percent defect rate listed.



## **Glossary**

### **Section I Abbreviations**

#### **ACOM**

Army Command

#### **AMC**

U.S. Army Materiel Command

#### **AMCOM**

U.S. Army Aviation and Missile Command

#### **APD**

Army Publishing Directorate

#### **ASCC**

Army Service Component Command

#### **CAI**

centralized accident investigation

#### **CG**

commanding general

#### **CONUS**

continental United States

#### **DA**

Department of the Army

#### **DAITM**

Department of the Army Investigation Team for Malfunctions

#### **DCS, G-3/5/7**

Deputy Chief of Staff, G-3/5/7

#### **DCS, G-4**

Deputy Chief of Staff, G-4

#### **DODAAC**

Department of Defense Activity Address Code

#### **DRU**

Direct Reporting Unit

#### **DSN**

Defense switched network

#### **EOD**

explosive ordnance disposal

#### **HEP-T**

high-explosive plastic-tracer

#### **JMC**

Joint Munitions Command

#### **LAR**

logistics assistance representative

**OCONUS**

outside continental United States

**POC**

point of contact

**QASAS**

quality assurance specialist (ammunition surveillance)

**RCS**

requirement control symbol

**SA**

security assistance

**UIC**

unit identification code

**USACIDC**

U.S. Army Criminal Investigation Command

**USACRC**

U.S. Army Combat Readiness Center

**USARSO**

U.S. Army South

**Section II****Terms****Ammunition**

All Army-designated class V items, which include conventional ammunition, guided missiles and large rockets, and nuclear weapons.

**Conventional ammunition**

Ammunition that includes—

- a.* Grenades, cartridges, projectiles, mines, pyrotechnics, bombs, warheads with all type fillers (for example, high explosives or chemical), simulated nuclear weapons, bulk explosives, demolition materiel, and rockets without nuclear capability.
- b.* Propellant and cartridge-actuated devices as well as airdrop and air crew escape systems components (for example, line cutters, delay cartridges ejection seats, and extraction systems).
- c.* Missile parachute airdrop and recovery systems.
- d.* Chemical ammunition.
- e.* Other special purpose munitions.

**Dud**

An explosive munition that has not been armed as intended or has failed to explode after being armed.

**Guided missiles and large rockets**

All guided missiles and large rockets with non-nuclear or chemical capability either in complete round configuration or in separately packaged items for issue in a complete round assembly, solid and liquid propellants, and explosive components.

**Hangfire**

An undesired delay in the functioning of a firing system. A hangfire for a rocket occurs if the rocket propellant is ignited by the firing impulse, but the rocket fails to exit the launcher within the expected time (applies to HYDRA-70/2.75 inch rocket).

**Incident**

An unintentional or chance event considered likely to result in property damage or injury to personnel. In regard to

ammunition and explosives, this specifically includes the suspected or detected presence of unexploded explosive ordnance that constitutes a hazard to operations, installations, personnel, or materiel.

### **Malfunction**

Failure of an ammunition item to function as expected when fired or launched, explosive items that fail to function.

*a.* Malfunctions include hangfires, misfires, duds, abnormal functioning, and premature functioning of explosive ammunition items under normal handling, maintenance, storage, transportation, and tactical deployment.

*b.* Malfunctions do not include accidents or incidents that result solely from negligence, malpractice, or situations such as vehicle accidents or fires.

*c.* The ACOMs/ASCCs/DRUs divide malfunctions into four classes, class A, class B, class C, and class X. Class A malfunctions result in death or lost-time injury, are similar to previous malfunctions that have resulted in death or lost-time injury, are judged as having had an appreciable probability of causing death or lost-time injury, or have adverse political implications:

(1) Class B malfunctions result in damage to major equipment that cannot be repaired at the unit level of maintenance or result in an ammunition suspension that significantly impacts readiness or training.

(2) Class C malfunctions involve any other performance incident not covered above.

(3) Class X malfunctions involved any other nonperformance incidents (visual defects and so on).

### **Misfire**

Failure of a primer, propelling charge of a round, or rocket or guided missile ignition and/or propulsion system to function, wholly or in part.

### **Munitions Rule**

A rule published by the Environmental Protection Agency on 12 February 1997 that identifies when conventional and chemical military munitions become hazardous waste subject to the Resource Conservation and Recovery Act and provides for the safe storage and transportation of such waste.

### **Quality assurance specialist (ammunition surveillance)/logistics assistance representative**

A member of the civilian career program established to develop, manage, and execute the worldwide Ammunition Surveillance Program. A QASAS/LAR is responsible for conducting examinations, tests, and investigations required to evaluate the current degree of stockpile serviceability and determine future stockpile trends. A QASAS/LAR performs logistics functions, including monitoring all ammunition and explosives operations for explosives safety regulatory compliance and providing technical advice relative to ammunition storage, issue, maintenance, demilitarization, transportation, explosives safety, and chemical surety.

### **Release or release action**

An order that rescinds a previously imposed suspension or restriction and restores the materiel to serviceable status. This includes munitions that are released with a restriction.

### **Restricted munitions**

Munition items that cannot be expected to meet required performance under all conditions but may be issued and used with qualifications on their use. For example, method of launch, temperature limitations, and weapon applicability are restricted munitions.

### **Suspended munitions**

Munition items withdrawn from issue or use, with or without qualifications, because of suspected or confirmed unsafe conditions. Suspended munitions are either temporarily or permanently suspended. Temporarily suspended munitions. An interim order prohibiting issue, use, and when necessary, movement of a munition item, with or without qualifications, due to an unsafe or defective condition that is unconfirmed; Permanently suspended munitions. A permanent order prohibiting issue, use, and when necessary, movement of a munition item. Munitions are permanently suspended when an investigation confirms that they are unsafe or otherwise defective.

### **Suspension or restriction**

An administrative procedure used to identify all munitions that have been withdrawn from issue or use, with or without qualifications, because of a an unsafe, or suspected unsafe, condition, or munitions that cannot be expected to meet required performance under all conditions, but may be issued and used with qualifications on their use. Suspensions and restrictions may be categorized by type, block, or serious impact:

*a. Type suspension or restriction.* A suspension or restriction applied to all lots of one model number, including all modifications or variations produced, for example, cartridge (Ctg) 105mm high explosive plastic, tracer (HEP-T) M393A2 series.

*b. Block suspension or restriction.* A suspension or restriction applied to all lots of one particular modification or variation of a model number, for example, Ctg 105mm HEPT M393A2.

*c. Serious impact suspension or restriction* A suspension or restriction that results in reducing serviceable assets of a munitions item to less than 50 percent of the stockpile or 50 percent impact criteria at OCONUS ACOMs/ASCCs/DRUs is determined to have a significant impact on Army readiness irrespective of percentage of stockpile affected, or prevents a unit from meeting its operational commitment.

*d. Specific suspension or restriction.* A suspension or restriction may also be applied to a specific lot, group of lots, or serial numbered items without being categorized as defined in subparagraphs *a* through *c*, above.

### **Weapon**

Any device used to launch a projectile, rocket, or guided missile, for example, cannon, rifle, rocket launcher, guided missile launcher, pistol, machine gun, and mortar.

### **Section III**

#### **Special Abbreviations and Terms**

This section contains no entries.

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