

DEPARTMENT OF THE ARMY
FORT CAMPBELL INSTALLATION
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Installation Safety Office
EXPLOSIVES SAFETY MANAGEMENT PROGRAM

Contents (listed by paragraph and page number)

Chapter 1

Introduction

- Preface • 1-1, *page 3*
- Purpose • 1-2, *page 3*
- Applicability • 1-3, *page 3*
- References • 1-4, *page 3*
- General • 1-5, *page 4*

Chapter 2

Requirements

- Explosive Safety Program • 2-1, *page 4*
- Explosive Safety Management Program • 2-2, *page 5*
- Local Explosives Safety Council • 2-3, *page 5*

Chapter 3

Responsibilities

- Senior Commander • 3-1, *page 5*
- Garrison Commander • 3-2, *page 5*
- Unit Commander • 3-3, *page 6*
- 101st Division Safety Office • 3-4, *page 6*
- Installation Safety Office (ISO) • 3-5, *page 7*
- Directorate of Public Works • 3-6, *page 8*
- Directorate of Emergency Services • 3-7, *page 9*
- Logistics Readiness Center • 3-8, *page 9*
- 52nd Ordnance Group • 3-9, *page 10*
- Directorate of Plans, Training, Mobilization and Security • 3-10, *page 11*
- ACofS/G3 • 3-11, *page 11*
- ACofS/G4 • 3-12, *page 11*

Chapter 4

Training Requirements of Ammunition and Explosives Safety Personnel

- Explosives Safety Training • 4-1, *page 11*
- 0018 Safety Professionals • 4-2, *page 12*
- Ammunition Supply Point Supervisor and Personnel • 4-3, *page 12*
- Range Control Officer and Range Safety Personnel • 4-4, *page 12*
- DPW, Electrical Personnel • 4-5, *page 12*
- Personnel Transporting Ammunition and Explosives • 4-6, *page 12*

Chapter 5

Ammunition and Explosives Transportation Routes

- Fort Campbell Ammunition and Explosives Transportation • 5-1, *page 12*
- Route Surveys • 5-2, *page 12*

This is a regulation supersedes CAM Reg 385-10 dated 2 January 2015

CAM Reg 385-10 • 15 August 2016

Chapter 6

Ammunition Storage

General • 6-1, *page 13*

Ammunition and Explosive Safety Site Plans • 6-2, *page 13*

Ammunition Stored IAW an Explosive Safety Site Plan and Explosive Site Storage License • 6-3, *page 13*

Storage of Operational and Ceremonial Ammunition in Arms Rooms and Aircraft Life Support Equipment Storage in Unit Areas • 6-4, *page 14*

Chapter 7

Ammunition and Explosives Safety Inspections

Installation Ammunition and Explosives Safety Inspections • 7-1, *page 15*

External Evaluations and Surveys of Ammunition and Explosive Safety • 7-2, *page 15*

Chapter 8

Deviation Approval and Risk Acceptance (DARAD)

General • 8-1, *page 16*

Review of Certificates of Risk Acceptance • 8-2, *page 16*

Limitations Associated with Certificates of Risk Acceptance • 8-3, *page 16*

Chapter 9

Hazards of Electromagnetic Radiation to Ordnance (HERO)

General • 9-1, *page 16*

Procedures • 9-2, *page 17*

Chapter 10

Amnesty Program

General • 10-1, *page 17*

Chapter 11

Explosives Safety

Purpose • 11-1, *page 17*

Objective • 11-2, *page 18*

Explosive Safety Management Programs (EMSP) • 11-3, *page 18*

Functions of Safety Directors/Managers • 11-4, *page 19*

Functions of Fort Campbell Safety Offices • 11-5, *page 20*

Explosives Safety Support • 11-6, *page 22*

Explosives Safety Training • 11-7, *page 23*

Fort Campbell Provided Explosives Safety Training • 11-8, *page 23*

Functions of Units, Organizations and Directorates with A&E Responsibilities • 11-9, *page 23*

Explosive Storage Licenses • 11-10, *page 24*

Chapter 12

Explosives Licensing

Purpose • 12-1, *page 26*

Objective • 12-2, *page 26*

Responsibilities • 12-3, *page 26*

Procedures • 12-4, *page 26*

Chapter 13

Arms Room Safety

Purpose • 13-1, *page 26*

Objective • 13-2, *page 27*

Responsibilities • 13-3, *page 27*

Procedures • 13-4, *page 27*

Chapter 14

Safety Inspection Checklist for Unit Arms Room

- General Requirements of Storage of Ammunition • 14-1, *page 28*
- Requirements for Storage of HCD 6.1 Ammunition • 14-2, *page 28*
- Requirements for Storage of HC 1.4 Ammunition • 14-3, *page 28*
- Requirements for Storage of HC 1.3 Ammunition • 14-4, *page 28*
- Items NOT Permitted/Restrictions • 14-5, *page 28*

Chapter 15

Proponent

- Point of Contact and Proponent • 15-1, *page 27*

Appendix List

- Appendix A, References, *page 29*
 - Appendix B, Terms, *page 31*
 - Appendix C, Army Explosive Safety Course Listing, *page 32*
 - Appendix D, Storage Site Distance Worksheet for Explosive Storage License Example, *page 34*
 - Appendix E, **Deviation Approval and Risk Acceptance (DARAD)** Example, *page 35*
 - Appendix F, Example of Unit Arms Room Explosives Storage Site Licensing SOP, *page 37*
 - Appendix G, Example of DA Form 4162, *page 41*
 - Appendix H, Example of FC Form 133, *page 42*
 - Appendix I, Example of DA form 4604, *page 43*
 - Appendix J, Unit Arms Room Licensing Requirement Checklist FC Form 385, *page 44*
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Chapter 1

Introduction

1-1. Preface

This Campbell Regulation 385-10 is provided to aid Army commanders in developing written explosives safety management plans according to the Army Safety Program. This document is not intended to supersede, contravene, replace, or modify the publications referenced herein or any other Department of Defense (DoD), Department of the Army (DA), Army Command (ACOM), Army Service Component Command (ASCC) or Direct Reporting Unit (DRU) criteria. Those publications take precedence in the event of any conflict with this CAM Regulation. Information contained in this CAM Regulation was current at the time of publication.

1-2. Purpose

- a. To establish policies, procedures, and responsibilities for implementation of the Army Explosives Safety Management Program (ESMP) at Fort Campbell.
- b. This CAM Regulation 385-10 is to assist commanders and safety managers in establishing effective explosives safety management programs. This CAM Regulation 385-10 contains chapters focusing on each functional area listed in AR 385-10, paragraph 5-3. The CAM Regulation 385-10 is dedicated to installation command relationships and the role of the United States Army Garrison (USAG) in support of the senior commander according to AR 600-20.

1-3. Applicability

This regulation serves Fort Campbell Installation and applies to all Soldiers, civilians, dependents, contractors, and other personnel assigned or attached to Fort Campbell. The provisions of CAM Regulation 385-10 applies to peacetime and are advisory for deployed units engaged in combat or off post training operations.

1-4. References

Required related publications, prescribed, and referenced forms are listed in appendix A. Abbreviations and terms are listed in Appendix B that are used in this regulation.

1-5. General

The cardinal rule in any ammunition operation is to expose the fewest number of personnel to the marginal amount of explosives for the minimum amount of time, consistent with mission accomplishment.

a. Nonstandard ammunition is ammunition that has not been tested; type classified for Army use, and cannot be procured through the Army Supply System. Non-Standard ammunition does not have a National Stock Number (NSN) and/or Department of Defense Identification Code (DODIC). Local procurement of nonstandard A & E circumvents control potentially exposing U.S. military and civilian personnel, to injury or death. More information on procuring, transporting, storage and handling nonstandard A & E can be found in ALARACT 301/2011.

b. Pyrotechnics, A & E, will not be used in the cantonment area except when approved in writing by the Installation Safety Office (ISO), Range Branch and Mission Support Element Training Management Division. The cantonment area is identified as any area in close proximity to unit or civilian workforce administrative areas, billets, dining facilities, motor pools, housing areas, military and civilian school areas. Obstacle courses, Army and Air Force Exchange Services (AFFES) and Defense Commissary Agency Source (DECA) facilities, banks, child development center, the education center, restaurants and recreational buildings and areas.

c. Transport of Controlled Inventory Item Code (CIIC) 1 and 2 Cargo. When not in a convoy, all military vehicles transporting CIIC cargo (i.e., weapons, ammunition, explosives (live and/or residue), and high dollar items) will have a senior occupant of the rank of SGT/E5 or above. Units will strictly adhere to the guidance described in paragraph 7-10 of AR 190-11 regarding security standards for Arms Ammunition & Explosive shipments.

d. Implementation of training requirements for personnel handling, issuing, transporting and storing ammunition in accordance with these regulations: AR 385-10, DA Pam 385-64, and CAM Reg 700-2.

e. When a lightning warning has been issued for lightning within 25 nautical miles (NM) of the installation, the Quality Assurance Specialist, Ammunition Surveillance (QASAS) or the Ammunition Supply Point (ASP) operations officer will put out a net call, within the ASP, advising workers and Soldiers of the impending storm. When a lightning warning indicating lightning within 10 NM is received or is actually sighted from the ground at the ASP, all explosive operations being conducted in facilities other than lightning approved protection will be halted and the doors to magazines closed. The QASAS or the ASP operations officer can listen to the current weather situation or an information alert that affects Fort Campbell by dialing 798-3001; they will confirm with the Emergency Operation Center (EOC) at 798-6160 that there is no lightning within 10 NM of the installation prior to giving the go ahead to resuming explosive operations.

f. Field ASP/Ammunition Holding Area (AHA) will not be set up or operated within the cantonment area. Training units will coordinate for field ASP/AHA locations with Range Branch Safety, schedule the area through Range Facility Management Support System (RFMSS) website and submit "Notices to Airmen" (NOTAM) information within 14 days to the Air Space Manager prior to establishing field ASP/AHA. The owning unit/organization safety office, ISO and QASAS are authorized to conduct no-notice inspections of field ASP/AHA set up and operations. Refer to CAM Reg 700-2 for established ammunition haul routes and unit responsibilities.

Chapter 2 Requirements

2-1. Explosive Safety Programs

This chapter provides written guidance, instructions to implement, and maintain the explosives safety program. All ammunition concerns will be coordinated through the appropriate Safety Office. Review the responsibility of each office to determine the appropriate office for coordination. Locations where ammunitions and explosives are stored, transferred from different forms of transportation, loaded on aircraft or fighting vehicles, and ammunition operations are conducted, require an explosive safety site plan and explosive site license. DA PAM 385-64 does allow some operations and storage without explosive safety site plans; units/directorates must coordinate with the appropriate safety office to determine whether a site requires an Explosive Safety Site Plan (ESSP) and an explosive site license, or only an explosive site license. Unit Arms rooms and Aircraft Life Support Equipment Rooms (ALSE) will have an explosive site license but will not require an ESSP.

a. The Installation Safety Office will forward all requests concerning information, operations, site planning and licensing on Fort Campbell through the appropriate intermediate headquarters to the US

Army Technical Center for Explosives Safety (USATCES) and Department of Defense Explosive Safety Board (DDESB). This includes requests for explosive site plans.

b. The Installation Safety Office will forward all approved requests concerning explosive operations off Fort Campbell for information to USATCES and DDESB.

2-2. Explosive Safety Management Programs

Any organization/unit with an ammunition and explosives mission is required to publish an internal Explosive Safety Management Program (ESMP).

2-3. Local Explosives Safety Council

a. In order to provide proper integration of A&E responsibilities, a Local Explosives Safety Council is hereby established.

b. The Director, Installation Safety Office (ISO), will serve as Chairman of the Explosives Safety Council.

c. The Explosives Safety Council shall meet periodically, but at least semi-annually, to review the Explosive Safety Management Program ESMP and conduct other A&E business as required.

d. Representatives from any organization with an A&E mission may participate in the council. As a minimum, representatives from the following organizations/offices shall be included in the council membership:

- (1) Installation Safety Office (ISO)
- (2) Logistics Readiness Center (LRC)
- (3) Directorate of Public Works (DPW)
- (4) Directorate of Emergency Services (DES)
- (5) Quality Assurance Specialist, Ammunition Surveillance (QASAS)
- (6) G-3 Ammunition Manager (AM)
- (7) Logistics Assistance Representative (LAR)
- (8) Unit/Organization Safety Representatives
- (9) G-4 Representative
- (10) 52nd EOD Representative
- (11) Unit Ammunition Warrant Officers
- (12) 101st SB Ammunition Supply Point Accountable Officer
- (13) ASP Accountable Officer
- (14) ASP Contractor Representative and Contracting Officer (COR)
- (15) 101st Division Safety Office (DSO)
- (16) Installation Ammunition Manager

Chapter 3 Responsibilities

3-1. Senior Commander

a. Retain the authority to authenticate Deviation Approval and Risk Acceptance (DARAD) of extremely high. Subordinate commanders will brief the Senior Commander on all DARAD of high risk.

b. Ensure that adequate training funds for explosive safety are programmed to meet the requirements in DA PAM 385-64, paragraph 1-8 and figure 1-1.

c. Designate the USAG Campbell Installation Safety Office to provide program oversight, policies and procedures for all units assigned and attached to Fort Campbell with an A&E mission.

3-2. Garrison Commander

a. Ensure the Director, Installation Safety Office appoints an Explosives Safety Program Manager on orders.

b. Provide funds to train Installation Safety Office (ISO) personnel in ammunition and explosive safety program management.

c. Provide concurrence on explosive safety site plans.

d. Authority for all ammunition licensing operations and facilities on properties controlled by Fort Campbell.

e. **Arms Room Licensing Procedures:** Unit/organization safety offices and/or the Ammunition Technician will:

- (1) Prepare the Arms Room packet. The packet will include:
 - (a) FC Form 133 (the actual site explosive license).
 - (b) A current valid signed CRM.
 - (c) Unit Arms Room Licensing Requirement Checklist.
 - (d) A current written authorization by the unit commander authorizing storage of ammunition.
- (2) Forward Arms Room packet to Division Safety Office for review.
 - (a) Forward Arms Room packet to Installation Safety Office for review.
 - (b) Forward to the proper unit level commander for signature.
 - (c) Return signed copies to the appropriate Arms Room, Division Safety Office and Installation Safety Office.

3-3. Unit Commanders

Establish a written ammunition program. Elements of the program will include:

- a. Ensure each military unit Safety Manager is appointed on orders.
- b. Ensure military unit Safety personnel are qualified to initiate and review explosive safety site plans, facility designs, initiate or review, Deviation Approval and Risk Acceptance (DARAD) and provide the commander with essential risk assessment data required to abate deficiencies in ammunition and explosives program areas.
- c. The safety and accountability of all ammunition and explosives used on training ranges, training exercises, and operations.
- d. Conduct risk assessments of all ammunition operations and ensure that all hazards identified and controls directed in ammunition information notices and other safety messages are implemented.
- e. Ensure all unit ammunition shipments comply with the requirements in Title 49 Code of Federal Regulations, AR 385-10 and DA PAM 385-64.
- f. Requirements to only un-package the amount of ammunition for immediate training needs for less than 4 hours. All packaging material will be maintained for repacking unused training ammunition and explosives will be repacked prior to transportation from the training location. There will be no loose or unpacked ammunition transported on any vehicle or aircraft.
- g. Unit commanders may request approval for the storage of operational load ammunition in their unit arms room in accordance with this program.
- h. All leaders and Soldiers involved in ammunition operations will receive training at the Installation Ammunition Handlers course on the Fort Campbell Military Munitions Rule, and the elements of the Fort Campbell Amnesty Program, Commanders will ensure that Ammunition Officers responsible for managing IAW DA PAM 385-64 Figure 1-1 either through online training or unit provided training, ammunition, and explosives, will maintain current information on the type and location of ammunition and explosives storage and provide this information to safety, fire fighting and security personnel. This will include ammunition that is approved for storage and operational load ammunition in specific unit arms rooms.
- i. Allow the unit to conduct ammunition operations and storage only in authorized areas includes ammunition issue points on ranges, areas with an explosive safety site plan and explosive site license.
- j. Unit/Organizational safety offices will assist Unit Commanders with development and review of A&E policies and procedures. Monitor and report deficiencies to their Unit Commander and the USAG ISO Explosives Safety Program Manager.

3-4. 101st Division Safety Office (DSO)

- a. Provide funds for training personnel with Ammunition and Explosive safety responsibilities within the DSO.
- b. The Division Safety Director will support the following Ammunition and Explosive Safety Program elements:
 - (1) Serve as the Division command Point of Contact (POC) for all safety related ammunition and explosives actions for tactical units, tactical training operations and any other missions/tasks performed that involve ammunition and explosives.
 - (2) Coordinate, as required, with staff elements of the using unit, G3/S3, G4/S4 and the Installation Safety Office in preparation of ESSPs and licenses. Review of ESSPs and explosive site licenses are especially critical to units operating outside the Fort Campbell boundaries.
 - (3) Ensure all explosive exposures to military and civilians are indicated on the site plans.
 - (4) Review the safety risk assessment and coordinate as required with the staff element that submitted CoRAs for approval.

(5) Conduct inspections of unit ammunition and explosive storage areas annually or during Inspector General Inspections and CIPs to include review of site licenses.

(6) Monitor unit ammunition uploads and other activities involving transportation and storage of ammunition to ensure compliance with laws, regulations, and policies. This includes inspecting unit ammunition shipments.

(7) Coordinate explosives safety program requirements with unit commanders and staff.

(8) Review Quantity Distance (QD) compliance by new or planned field locations and Forward Area Rearm and Refuel Points (FARRP) in coordination with the Installation Safety Office and Range Branch.

(9) Review divisional units SOPs, DARAD's and certificates of compelling reason.

(10) Advise each new Senior/Division/BDE commander of approved DARAD's and the impact on the mission.

(11) Monitor training exercises to ensure field sites used by training units for field storage of ammunition comply with Range Branch field storage procedures.

(a) Locations used on a recurring basis must have an explosive safety site plan and an explosive site license.

(b) Units are storing ammunition by compatibility group and have a plan to evacuate ammunition in the event of lightning and severe weather.

(12) Annually review the installation explosive location map to ensure the routes and sites support the unit's mission.

(a) Locations outside of designated impact areas for conducting explosives operations, to include explosives on/off loading and if required combat aviation FARRP.

(b) Any aircraft that is a Division owned assists which involves, soldiers and ammunition or handling hung ordnance and gun clearing operations.

(c) Vehicle upload and download areas (other than at authorized firing ranges).

(d) Explosive support facilities, such as ammunition holding areas.

(e) Monitor operations involving explosives to ensure that Army units understand and comply with all Explosive safety standards.

(f) Ensure that Ammunition and Explosive safety training as required by DA PAM 385-64, paragraph 1-8 and figure 1-1, is established for each responsible individual development plan that has ammunition and explosive responsibilities.

3-5. Installation Safety Office (ISO)

a. Provide funds for training personnel with Ammunition and Explosive safety responsibility within the ISO.

b. The Director, Installation Safety Office will support the following Ammunition and Explosive Safety Program elements:

(1) Provide explosives safety program oversight, policies and procedures for all units assigned and attached to Fort Campbell with an A&E mission.

(2) Coordinate, as required, with staff elements of the DPTMS, DPW and LRC in the preparation of explosive site plans and licenses. The ISO will maintain the master files for all explosive site licenses.

(3) Ensure all explosive exposures to military and civilians are indicated on the site plans.

(4) Coordinate, as required, with tenant organizations, directorates, and staff elements submitting DARAD's.

(5) Ensure inspections are conducted (at least annually) of all USAG and LRC ammunition and explosive storage areas. Inspect 10% of total Fort Campbell Arms Rooms and Earth Covered Magazines annually.

(6) Maintain a list of all ammunition storage areas, the authorized NEW by hazard division/class and records of annual inspections. Ensure that the list includes all Fort Campbell Ammunition Storage Sites are current at Fire Protection, QASAS and the DES Physical Security Office.

(7) Monitor USAG ammunition uploads and other activities involving transportation and storage of ammunition in other than authorized and licensed storage areas to ensure that pertinent requirements are met.

(8) Coordinate explosive safety program requirements with unit commanders and organizational Directors.

(9) Review the QASAS magazine/bunker inspection reports.

(10) Review Quantity Distance (QD) compliance of new or planned facilities that may affect existing ammunition and explosives sites.

(11) Review SOPs, DARAD's and certificates of compelling reason for USAG organizations and organizations without a 0018 safety specialist which have an A&E mission or responsibilities.

(12) Advise each new Garrison Commander and Director of existing DARAD's involving their operations.

(13) Monitor operations involving explosives to ensure that USAG and tenant units understand and comply with all explosive safety standards.

(14) Ensure that Ammunition and Explosive Safety training as required by DA PAM 385-64, paragraph 1-8 and figure 1-1 is established for each responsible individual training plan that has ammunition and explosive responsibilities.

(15) Participate in the installation master planning process, and review annually, the installation master plan to ensure construction is not planned inside explosive safety arcs. When construction, not related to the ammunition operations, is required within the explosive safety arcs, the explosive safety site plans and explosive licenses are updated and approved at the appropriate level.

(16) Ensure procedures are developed and in place for.

(a) Posting of fire and chemical symbols current with actual ammunition and explosives stored at a particular location to include the unit arms room that have ammunition storage approval.

(b) Ensuring that personnel responsible for managing ammunition and explosives maintain current information on the type and location of ammunition and explosives storage and provide this information to safety, fire fighting and security personnel. This will include ammunition approved for storage in specific unit arms rooms.

(17) Command and Staff Briefings, as necessary, to keep leadership informed of explosive safety requirements, issues, and the status of the Commander's Explosive Safety Program.

(18) Inspection and test of Lightning Protection System (LPS) will be kept on file for the last six inspection cycles (12 years) IAW DA PAM 385-64.

(19) Team with QASAS, Physical Security and the Fire Department to perform an annual inspection of 10% of all unit/organization/Brigade arms rooms and earth covered magazines that have a current explosive site license

3-6. Directorate of Public Works (DPW)

a. Director

(1) Ensure LPS technical inspections are conducted every two years by trained and certified government or contractor personnel and that inspections meet the standards in DA PAM 385-64.

(a) May use contracted services of a qualified electrician to evaluate and conduct periodic tests and surveys on the LPS IAW DA PAM 385-64.

(b) Prioritizes and directs repair or corrects all deficiencies identified during LPS inspections.

(c) Provide the ISO with a copy of the inspections results and any corrective actions performed.

b. Environmental Division, Installation Restoration Program (IRP)

(1) Provide the installation with historical information on closed and inactive ranges for ammunition/explosives areas.

(2) Provide a Point of Contact for any transferred lands that have been identified or have the potential for ammunition/explosives contamination.

(3) Maintain an unexploded ordnance (UXO) database for the installation.

(4) Coordinates brass recycling with ASP and DLA DRMO staffs to comply with current spent brass disposal regulations and to ensure crediting of sales to the Qualified Recycling Program.

c. Environmental Division, Pollution Prevention Branch

(1) Provide support with MMR reporting and inspection of the Waste Military Munitions (WMM) program IAW the Fort Campbell Military Munitions Rule.

(2) Provide expertise with the storage, handling and notification of the Tennessee and Kentucky Environmental authorities upon activating the WMM conditional exemption.

(3) Address munitions related environment contamination issues.

d. Master Planning Division, Graphical Information System (GIS) Section.

(1) Upon request and in coordination with other installation activities, will prepare and update, as part of the installation master plan, the Ammunition and Explosive Site Map, which will include the following information:

(a) Quantity distance zones around each Explosive Safety Site Plan (ESSP) location based on QD criteria.

(b) Primary and alternate explosive movement routes through the installation provided by the ISO.

(c) Any airfield locations for handling hung ordnance and gun clearing operations provided by G3/DPTMS.

(d) Explosive support facilities such as ammunition holding areas provided by G3 or DPTMS.

(e) The overall historical depiction of abandoned range or storage sites.

(f) Current ammunition and explosive sites that have approved or requested site licenses.

(g) Coordinate use, support and upgrade of the ESSP Planning Software.

(2) Upon request, provide the above data and maps to the Installation Master Planning Board for use in the installation construction projects review, the ISO, Fire Department, and Range Support.

e. Master Planner. The DPW Master Planner of the installation facilities and operations will be involved in the Ammunition and Explosives Safety Program. The Master Planner will assist in the Installation Ammunition and Explosives safety Program in the following areas: Advise the Director, ISO of any proposed construction plans or considerations in the established installation explosive arcs.

3-7. Directorate of Emergency Services (DES)

a. Fire and Rescue Services Division

(1) Ensure the Installation Fire Prevention Program encompasses ammunition and explosive hazards.

(2) Fire Fighters are trained on the hazards of different hazard classes of ammunition and explosives.

(3) Fire Fighters are briefed and trained on the location of the ammunition and explosives on the installation.

(4) The Fire Chief will devise a system that will ensure all responding fire fighting vehicles and personnel have access to Potential Explosive Site (PES) locations and know the hazards at the location, Ammunition and Explosive Site Map to include all areas with approved ammunition licenses are maintained and accessible. Train responding personnel to use computer programs to assist in mitigating hazards to both personnel and equipment.

b. Installation Physical Security establish standards for security of operational loads of ammunition including unit arms rooms, contract guards and security augmentation forces.

3-8. Logistics Readiness Center (LRC)

a. Director

(1) Provide funds for training of personnel with Ammunition and Explosive Safety responsibilities within the LRC.

(2) Serve as the Installation's Approving Authority for appointing members to the Ammunition Handlers Certification Review Board. The appointed board members will review the credentials of experience and training for the contractor's ammunition personnel. FORSCOM ammunition handlers will be trained in accordance with FORSCOM Regulation 350-10 and all installation ammunition handlers will be trained in accordance with DA PAM 385-64. The LRC, as the Installation's Approval Authority for Ammunition Handlers Certification, will sign all certificates of training for the Ammunition Handlers.

(3) Enforces portions of AMC Regulation 385-100 and AMC Regulation 350-4 that pertain to employees and operations under Army Material Command and the 406th AFSB.

(4) Request updated Explosive Safety Site Plans when new facilities, updating of facilities or changes in operations are made at the Ammunition Supply Point (ASP).

b. Ammunition Supply Point Accountable Officer

(1) Review all ammunition and explosive items stored in the Fort Campbell ammunition and explosive (A&E) storage facilities to ensure that storage items do not exceed the site license approved for that facility.

(2) Verify the hazard designation for each storage facility and upon change of hazard designation, immediately provide/inform the Fort Campbell Fire Department (798-7171), QASAS (798-6529), Installation Safety Office (798-4228), and DES Physical Security (798-7587) of the fire hazard symbol change and location of facility (bunker/igloo/magazine number).

(3) Provide notification to the ISO and QASAS personnel when there is a need for a change in site license of storage facilities.

(4) Participate in Ammunition and Explosive Safety Inspections.

(5) Provide an updated copy of the ASP storage facilities map with the Fire Hazards when storage facilities items change to the Fort Campbell Fire Chief.

(6) Notify the QASAS upon receiving a unit's request to draw ammunition for other than training purposes.

(7) Ensure procedures are developed and in place for:

(a) Maintaining fire symbols and chemical hazard symbols current with actual ammunition and explosives stored at a particular location to include the unit arms rooms that have ammunition storage approval.

(b) Ensuring that personnel responsible for managing ammunition and explosives keep current information on the type and location of ammunition and explosives storage and provide this information to safety, fire fighting and security personnel.

c. Quality Assurance Specialist Ammunition Surveillance (QASAS).

Assists the ISO in developing explosives site licenses and explosive safety site plans and submit through IMCOM, US Army Technical Center for Explosive Safety (USATCES) to Department of Defense Explosive Safety Board (DDESB) for approval.

(1) Review explosives safety Deviation Approval and Risk Acceptance (DARAD) for correct Explosive Safety Quantity Distance (ESQD) based on Hazard Class of munitions stored at location.

(2) Review designs for explosive storage, surveillance, and maintenance for compliance with explosive safety standards.

(3) Conduct safety inspections of ammunition and explosive handling, storage, use, maintenance, and disposal areas at least semi-annually. A copy of these inspections will be furnished to the ISO.

(4) Monitor ammunition uploads and other activities that involve the transportation and storage of ammunition in other than licensed storage areas to ensure that pertinent requirements are met.

(5) Review Quantity Distance (QD) compliance of existing and planned facilities, both prior to and after construction.

(6) Review unit SOPs and directives for compliance with explosive safety standards.

(7) Assist in the installation Master Planning Process and review annually the installation master plan to ensure construction is not planned inside explosive safety arcs.

(8) Monitor operations involving ammunition and explosives (ranges) to ensure that military units understand and comply with the explosive safety standards.

(9) Monitor and evaluate explosive activities, including the following:

(a) Arms rooms, storage handling of ammunition. The QASAS will conduct ammunition serviceability and management procedure inspections of units that retain ammunition as an operational load, guard load, or salute and burial detail requirement.

(b) Ammunition and explosives transportation.

(10) Maintenance records of declared Waste Military Munitions (WMM) storage to include accurate inventory, storage location, and final disposal actions of the WMM.

(11) Provide training for personnel who have responsibility over ammunition operations: to include security personnel and fire fighters, in fire symbols and chemical hazard symbols as used in ammunition and explosive storage areas.

(12) Maintain communication between safety, fire fighting, security, and ammunition surveillance storage personnel for the purpose of safety awareness of current storage conditions.

(13) Review and document selected operations involving explosives to ensure military units understand and comply with explosive safety standards.

(14) Upon request, provide technical assistance with any weapon system modifications, special exercises, and test programs conducted on Fort Campbell.

(15) Participate in planning for contingencies that involves munitions.

(16) Assist commanders and staff with safety concerns associated with real property containing or suspected of containing Unexploded Ordnance (UXO).

(17) Participate in Ammunition and Explosive Safety inspections.

(18) Maintain records of LPS inspections, site licenses and other inspections with corrective actions.

3-9. 52nd Ordnance Group (EOD)

Commander, 52nd Ordnance Group (52nd EOD) will support the Fort Campbell Installation Ammunition and Explosive Program with:

a. Police of the designated EOD range after each training session.

b. Maintain appropriate records and housekeeping of assigned Ammunition Storage areas at the ASP and unit reaction team magazines/ARMAGS.

c. Assist the QASAS and Range Branch with handling misfired munitions during range operations.

d. Provide support to Range Branch when UXO is discovered and implement established procedures for proper disposal of UXO.

- e. Support the installation by providing UXO training, both for the military and the surrounding civilian communities as mission load dictates.
- f. Maintain appropriate disposal records for all UXO/explosive operations.
- g. Provide support to the QASAS during amnesty turn-ins as needed.

3-10. Directorate of Plans, Training Mobilization and Security (DPTMS)

Budget for funds to train personnel involved with Ammunition and Explosive Safety responsibilities.

- a. Range Support. The Range Control Officer will provide the installation with Ammunition and Explosive Safety support in the following areas:
 - (1) Provide updated Ammunition and Explosive safety information through SOPs, range orientation briefings, and input into the Commander's range certification training.
 - (2) Notify the QASAS and appropriate safety office for range ammunition or explosive mishaps.
 - (3) Coordinate all requests for range waivers and deviations through the ISO.
 - (4) Maintain ranges and restricted areas with signage of hazards IAW AR 385-63, Policies and Procedures for Firing Ammunition for Training, Target Practice, and Combat.
 - (5) Provide the DPW, ISO and DPW IRP with historical records on ranges and explosive areas.
 - (6) Update and maintain CAM Reg 385-5.
- b. Training division will conduct the Ammunition Handlers Course and scheduling of students for the Technical Transportation of Hazardous Materials (HAZMAT), AMMO 62 course.
- c. Sabre and Campbell Army Airfield (CAAF) 0018 Aviation Safeties will be familiar with ammunition loading/unloading areas, ammunition holding areas and Aviation Life Support Equipment (ALSE) storage locations within their respective airfields and provide munitions safety oversight and assistance.

3-11. ACofS/G3

- a. ACofS/G3
 - (1) Coordinates training activities and ammunition availability to ensure "just in time" ammunition deliveries.
 - (2) Approves ammunition forecasts and ammunition draws.
 - (3) Establish roads primarily used to transport ammunition and explosives "Off Limits" for unit and individual physical training and road marches during normal ASP operating hours (M-F 0630-1630).
- b. Installation Ammunition Officer: The Installation Ammunition Officer will assist with the installation Ammunition and Explosive Safety Program by providing the following information to the ISO, LRC, QASAS and unit safety office personnel:
 - (1) Monitor unit ammunition draws throughout the fiscal year for excessive draws for the ranges or time available for ammunition operations.
 - (2) Provide documentation of the ammunition expenditure reports of ammunition expended on Fort Campbell's ranges to DPW real property for permanent archival storage on request.

3-12. ACofS/G4

- a. Coordinates with G3 and LRC to assist in ammunition management.
- b. Serves as the installation point of contact for ammunition transportation and storage issues.
- c. Inspect unit movements and transportation of ammunition to ensure units comply with Federal Laws and Regulations.

Chapter 4

Training Requirements of Ammunition and Explosives Safety Personnel

4-1. Explosives Safety Training

Personnel with primary Military and Civilian occupational specialties involving ammunition and explosives handling require training as outlined in DA PAM 385-64, paragraph 1-8 and figure 1-1.

- a. The Brigade/Battalion S3 in conjunction with the Brigade Safety Officer (0018), will provide the following ammunition and explosive training for unit personnel:
 - (1) All personnel (supervisory and non-supervisory) who operate, handle, transport, maintain, load, or dispose of explosives must receive initial explosive safety training before performing any of those tasks. AMMO 45-DL, Introduction to Ammunition Distance Learning is provided by the Defense Ammunition Center.

(2) All personnel who transport ammunition will complete the Ammunition Handlers Course and AMMO 62 courses conducted by Troop Schools, DPTMS.

4-2. 0018 Safety Professionals

All 0018 Safety Professionals will complete the Ammunition training required for CP-12 Skill Level 1 Certification and Explosives Safety Skill Level 1 Certification. CP-12, 0018 Safety Professionals will also complete training required IAW DA PAM 385-64, figure 1-1, as it pertains to their present job duties. Figure 1-1 lists additional training required for 0018's that have explosives safety responsibilities.

4-3. Ammunition Supply Point Supervisor and Personnel

Complete training required IAW DA PAM 385-64, figure 1-1, as it pertains to their present job duties. Figure 1-1 lists additional training required for personnel that have explosives safety responsibilities.

4-4. Range Control Officer and Range Safety Personnel

Complete Military Munitions Rule training as provided through distance learning by the Defense Ammunition Center.

4-5. DPW, Electrical Personnel

Electrical personnel who will perform the Electrical Inspections, Testing, and Repair to Lightning Protection Systems (LPS) will be trained by completing the AMMO 28-DL course provided through distance learning by the Defense Ammunition Center.

4-6. Personnel Transporting Ammunition and Explosives

Personnel who transport ammunition and explosives on Fort Campbell will be trained by completing the online AMMO 67 course and the Ammunition Handlers Course conducted by DPTMS Troop Schools.

Chapter 5

Ammunition and Explosives Transportation Routes

5-1. Fort Campbell Ammunition and Explosive Transportation

Transportation of Ammunition and Explosives on post and off post will be conducted in accordance with CAM REG 700-2, FORSCOM Regulation 700-4.

5-2. Route Surveys

Units and appropriate unit safety personnel will conduct surveys of their ammunition and explosive transportation activities to ensure the following:

- a. Ammunition carrying vehicles only use approved ammunition routes.
- b. Vehicles uploaded with munitions move from the storage area to the area of use on authorized ammunition routes.
- c. The G4 and LRC, Transportation Division, will coordinate with DPTMS/G3 Schools to ensure that the Hazardous Material Transportation Training Class provides the following instructions:
 - (1) Proper blocking, bracing and securing of ammunition while in transport.
 - (2) Vehicle marking requirements, both on and off post.
 - (3) Vehicle mechanical condition, DD Form 626.
 - (4) Safe refueling procedures of ammunition laden vehicles.
 - (5) Required hazardous materials regulations and standards for the transportation of munitions.
 - (6) Requirement to have a least two (2) serviceable fire extinguishers.
 - (7) Absolutely no passengers unless authorized by the Commander.
- d. Vehicle operators and co-operators will be trained and certified to transport hazardous materials IAW Department of Transportation rules and procedures. These operators will have the hazardous material transportation certificate in their possession when operating vehicle transporting ammunition and explosives.
- e. Operators will complete the AMMO 67 course offered online by the Defense Ammunition Center. This course will certify operators to properly transport hazardous material.
- f. All vehicles transporting A&E will have proper Hazard Class/Division signs visible on all four (4) sides of the vehicle. Operators will also carry required hazardous material publications and a DD Form 626, Motor Vehicle Inspection.

g. Government civilian and contractors will have and maintain, (as required by the size of the vehicle being operated):

(1) A valid Commercial Driver's License (CDL) issued by a State or US Territory.

(2) Trained and certified to transport hazardous materials as prescribed by the Department of Transportation (DOT) under Title 49, Code of Federal Regulations.

h. Under no circumstances will HC/D 1.1 and 1.2 be transported within the designated cantonment area (Main Post) without prior approval from the Garrison Commander or their designated representative.

Chapter 6 Ammunition Storage

6-1. General

a. Explosives licenses are required for all facilities that store A&E per DOD 6055.09-M, AR 385-10 and DA Pam 385-64.

b. All A&E storage facilities will comply with the applicable DOD, Army, and in addition to any facility specific requirements contained in the Department of Defense Explosives Safety Board (DDESB) approved Explosive Safety Site Plan ESSP.

c. Facilities that do not meet A&E safety standards shall not be licensed unless an approved Deviation Approval and Risk Acceptance (DARAD) is on file with both the organization having the A&E mission and the Installation Safety Office.

d. A&E will not be stored at any location which does not have a valid current explosives license. Procedures for obtaining an initial license and for 12 month revalidation are contained in Appendix C.

6-2. Ammunition and Explosive Safety Site Plans

Normally, ammunition and explosive storage sites require an Explosive Safety Site Plan (ESSP). This section will detail responsibilities for requesting, reviewing and forwarding ESSPs for approval. Units, directorates and organizations planning ammunition and explosive operations or storage must coordinate with the ISO to determine if an ESSP is required. If an ESSP is required, the requestor will route the request through the unit/organization signed for the property from DPW. The Director, ISO reviews all requests for ammunition site plans. Ammunition site and general construction plans submitted for review before beginning final engineering design of new construction or major modification of existing facilities for explosives.

a. The following ammunition and explosive areas of operation require an explosive safety site plan.

(1) Range support facilities (e.g., ammunition holding areas, storage pads, re-supply points, ammunition transfer points, loading docks, burn pads and holding areas) that are designed, constructed and used for recurring ammunition operations located on or near ranges.

(2) Areas repeatedly used for tactical field training in ammunition support operations (e.g., a grid square within a range) require an explosive safety site plan.

(3) Locations used for training Explosives Ordnance Disposal (EOD) personnel. Combat Engineers and other ammunition technicians in the destruction or treatment (e.g., open burn or open detonation) of ammunition and explosives require an explosive safety site plan.

(4) All ranges permitted by Federal or State environmental protection agencies for treatment of explosives require an explosives safety site plan, regardless of other uses.

b. The following sites and operations do not require an Explosive Safety Site Plan:

(1) Temporary and emergency facilities to be located in areas in which the Army is in danger of actually engaging in combat operations.

(2) Modification or rehabilitation of existing facilities necessary to support an emergency required for a limited time or adaption of a line to other items, if additional hazards are not introduced of the facilities designed net explosive weight are capacity is not increased.

(3) Locations storing operational or mission essential ammunition in accordance with DA PAM 385-64 paragraph 5-1.

(4) Unit arms rooms do not required an explosives safety site plan.

c. Procedures. Typically, the ISO works with the Installation Master Planner and QASAS to identify requirements for proposed explosives sites. The ISO then develops the site plan IAW DA PAM 385-64, 385-65 and IMCOM regulations. The development and submission process for Explosive Safety Site Plans is automated and can only be re-submitted on the US Army Technical center for Explosives Safety (USATCES) and Department of Defense Explosive Safety Board (DDESB) via this format. The

information developed in the automated program is integrated into the Master Planning map to ensure all active explosive safety arcs are actually depicted.

6-3. Ammunition Stored IAW an Explosive Safety Site Plan and Explosive Site Storage License.

a. The DDESB approves ammunition and explosive storage quantities through the approval of an ESSP.

b. The installation uses information from the ESSP and conducts risk assessments for authorized storage in a location or facility by issuing an ammunition storage license. Currently, Fort Campbell Form 4162 and FC Form 133 is used as the license document.

(1) Process for requesting an arms room storage license:

(a) Licenses are issued for permanent or temporary locations that have explosives facilities and/or operations. Licenses identify the allowable limits based upon mission requirements, and can be more restrictive, but must never exceed the limits approved in this site plan.

(b) Ammunition on hand quantities shall be kept to a minimum. The HD 1.4 maximum Net Explosive Weight (NEW) is 200 pounds or 100 pounds for HD 1.3 (refer to specific storage and authorization requirements). No other ammunition is authorized for storage (i.e., HD 1.1 or 1.2) without written approval from the Senior Commander.

(c) An example Arms Room Site License (ARSL) request packages is located in Appendix D.

(d) Unit Armor/Arms Room Officer schedules required inspections (i.e., DPW (DA Form 4604), DES fire ammunition storage inspection, DES Physical Security and QASAS). All deficiencies noted on inspection checklists must be corrected and validated prior to an issuance of a storage license.

(2) ARSL's are not portable or transferrable and must be reissued every five years and must be verified annually. A new ARSL is required when a unit violates the limitations of the license (Notice of Violation), change of command, change of arms room location, deployment or redeployment, or mission change affecting the net explosive weight (NEW).

c. A valid license for a facility or location on Fort Campbell is prepared by the Installation Safety Office (or organizational safety office when not serviced by the ISO) with additional duties of the ammunition program manager, authenticated by the Director, ISO, DPW Master Planner and approved by the Garrison Commander. Units/organizations not serviced by the ISO will follow procedures in the Arms Room Site Licensing SOP.

d. Ammunition will not exceed the authorized quantity NEW.

e. Ammunition will be stored by hazard class and compatibility groups.

f. Training ammunition will be inventoried IAW AR 710-2.

g. Limited quantities of ammunition stored without an ESSP but in accordance with DA PAM 385-64 will be identified on the license by Hazard Class/Division and only specific quantities will be allowed.

h. The signed license will be conspicuously displayed in the arms room to which it is issued.

6-4. Storage of Operational and Ceremonial Ammunition in Arms Rooms and Aircrew Life Support Equipment Storage in Unit Areas.

a. This section establishes policy and provides general rules on storing ammunition in unit arms rooms and aviation life Support Equipment (ALSE) rooms.

b. The Garrison Commander may approve licenses for all ammunition storage facilities on Fort Campbell that do not include a DARAD of extremely high risk.

c. Storage will be consistent with safety requirements in DA PAM 385-64, physical security requirements of AR 190-11, and accountability requirements of AR 710-2.

d. Units will prepare and submit their request to store ammunition and explosives in the unit arms room IAW CAM Reg 385-10.

e. No construction modifications to arms room facilities will be approved to store ammunition. No additional facility allowances will be provided to units for unit storage of ammunition.

f. Limitations on storage of ammunition and explosives in unit arms rooms and ALSE rooms are:

(1) Preferred storage areas for ammunition and explosives are the Ammunition Supply Point (ASP), and Field Storage Sites (FSS) as designated by Range Branch.

(2) Department of the Army standards allow, but discourages storage of mission essential or operational quantities of Hazard Division (HD) 1.4 up to 200 pounds NEW, HD 1.3 up to 100 pounds NEW without requiring compliance with quantity distance and compatibility criteria. AR 710-2 paragraph 2-44 c defines two types of operational loads.

- g. Hand receipt operational ammunition for security using procedures in DA PAM 710-2-1 Chapter 5 and operational ammunition for ceremonies using procedures for training ammunition in DA PAM 710-2-1 Chapter 11.
- h. Units will inventory operational ammunition as sensitive items. Senior NCO, Warrant Officer or an Officer must conduct the sensitive item inventory.
- i. Storage of ceremonial ammunition is not considered an operational necessity. Units on Fort Campbell may store up to one outer case of HD 1.3 and HD 1.4 ceremonial ammunition (75mm blank, 105mm blank, and 5.56 mm blank). Units providing ceremonial salutes using period replica cannons and firearms may store up to one outer pack of ammunition for these weapons. Units will return excess ammunition and residue to the ASP within 5 days of completing the event.
- j. Directorates storing military munitions are required by contract to store ammunition in arms rooms must obtain a storage license. Small arms ammunition is the only ammunition authorized for storage. Requests for storage of contractor ammunition should be signed by a representative of the contractor, the contract representative and the director supported by the contractor. The contract should contain storage limits. Licenses are issued only for operational loads and the contractor must establish procedures similar to the Army standard to secure and inventory the ammunition.
- k. Store munitions in their original containers with the packing as containerization are considerations in determining a munitions hazard division. Metal security containers will be of sufficient size to store munitions in their original containers. Ammunition storage must meet the Physical Security standards of AR 190-11.
- l. Post the appropriate fire and/or chemical hazard symbol on the entrance the fire department will approach and the door of the storage area. The containers must be marked with the appropriate fire and/or chemical hazard symbol.
- m. Procedures for obtaining an ammunition/explosives site license for a unit arms room or ALSE room are outlined in the CAM Reg 385-10.

Chapter 7 Ammunition and Explosives Safety Inspections

7-1. Installation Ammunition and Explosive Safety Inspections

a. All 0018 Safety Specialists, Brigade Ammunition Officers and Aviation Safety Officers who have Ammunition and Explosive safety responsibilities will perform periodic (minimum annual) inspections of their ARMS Rooms and Earth Covered Magazines including hazard identification and follow-up of corrective measures of all storage, operating and transit areas for ammunition and explosives within their unit's footprint or area of responsibility. Inspection results will be sent to the ISO Ammunition, Explosives and Ranges Program Manager.

(1) Comparison of ammunition actually stored verses ammunition authorized by the unit license or site plan.

(2) Identification of any overages or storage compatibility violations.

(3) Verification of QD separation requirements stipulated in licenses and site plans.

(4) Evaluation of the safety of storage facilities, including adequacy of earth cover on magazines, barricades, and conditions of LPS and ventilators.

(5) Review complete inventory by storage facility showing DODIC, nomenclature, quantity, and total net explosive weight.

(6) Review and evaluate the latest report for the electrical grounding inspection conducted on the LPS of the ASP, AHA and the MPRC ammunition sites. Analysis of the last two inspections will be accomplished and retained with the LPS files.

(7) The results on the inspections will be maintained for three years IAW AR 25-400-2, Army Records Information Management System (ARIMS).

b. The ISO will be the proponent for the Ammunition and Explosives Staff Inspection Checklist.

7-2. External Evaluations and Surveys of Ammunition and Explosive Safety

a. The DDSEB and World Wide Ammunition Logistics/Explosives Safety Review and Technical Assistance Program will conduct evaluations of the installation explosive and ammunition safety programs.

b. All explosive storage licenses are subject to review annually by the Installation Safety Office.

c. The ISO is the primary liaison for these activities. However, this may be determined by the Senior Commander depending on the scope and installation involvement/requirements for the evaluation. In order to facilitate external evaluations and surveys, an Ammunition and Explosives Support Package as required, will be gathered and provided to the inspectors at the initial briefing on the inspections.

Chapter 8

Requests for Deviation Approval and Risk Acceptance (DARAD)

8-1. General

- a. **Deviation Approval and Risk Acceptance (DARAD)** will only be considered after all possible measures are exhausted to comply with ammunition and explosive safety standards.
- b. When a DARAD becomes necessary to accomplish a critical mission, the requiring organization will complete a DA Form 7632, DARAD in accordance with DA PAM 385-30.
- c. The requiring unit/agency will develop and submit a thorough FC Form 4162, Risk Management Worksheet, signed at the appropriate level of command for the identified residual risk.
- d. The DARAD will be routed through the unit/organization safety office to the Installation Safety Office for appropriate staffing and risk acceptance at the at the correct level of authority as specified in DA PAM 385-30, table 4-2.
- e. **Deviation Approval and Risk Acceptance** are generally designated as a temporary measure to accomplish a mission until the situation creating the explosive safety violation is corrected.
- f. Once the risk acceptance authority has accepted the risk, a copy of the DARAD will be maintained on file at the ISO and with the requiring agency. Additionally, all DARAD's that exceed 60 calendar days will be forwarded to the US Army Technical Center for Explosives Safety.

8-2. Review of Deviation Approval and Risk Acceptance.

- a. The completed DARAD will be forwarded through the chain of command, through the unit/organizational safety office to the Installation Safety Office.
- b. The Installation Safety Office (ISO) will review the packet submitted by the requiring unit/organization to ensure all required information is provided.
 - (1) The ISO will research the current explosive site locations to ensure the DARAD does not violate any unidentified explosive safety standards.
 - (2) The ISO will review and validate the requiring unit/organization Risk Management Worksheet and provide a recommendation of additional hazards or more effective risk mitigation measures are apparent.
 - (3) The ISO will then forward the reviewed DARAD for concurrence by all stakeholders impacted by the CoRA. Upon completion of the staffing process, the DARAD will then be forwarded to the Senior Commander, or their designated representative for consideration and acceptance or disapproval.
 - (4) Approved CoRAs will be kept on file at the ISO, a copy provided to the requiring unit/organization and a copy forwarded to IMCOM and the US Army Technical Center for Explosives Safety (USATCES).
 - (5) IAW AR 385-10, paragraph 1-4.al.(3), page 14, Conduct periodic reviews of deviations to explosives safety standards to ensure that assessments are current and that all exposures, risks, and mitigating actions have been identified and provide a copy of the review through their chain of command to the USATCES for centralized management and oversight.

8-3. Limitations Associated with Deviation Approval and Risk Acceptance.

- a. The DARAD cannot be modified to adjust for temporary changes in mission not addressed on the form. It is important that requiring unit/organizations thoroughly evaluate the anticipated needs of the mission and develop the DARAD accordingly. Once a parameter of the DARAD is exceeded, all ammunition and explosive operations must cease.
- b. A DARAD cannot be factored into a pending Explosive Safety Site Plan.

Chapter 9

Hazards of Electromagnetic Radiation to Ordnance (HERO)

9-1. General

- a. Electrically Initiated Devices (EID) are inherently safe to store and handle in the nominal ranges of expected use. It is designed to resist inadvertent initiation if exposed to various Electromagnetic

Environments (EME). These munitions are tested to ensure they are protected from unintentional initiation.

b. If the EID ordnance is damaged or subjected to unauthorized modifications, it can become susceptible to initiation if exposed to electromagnetic fields. The sources of these fields come are natural (lightning/electrostatic discharge) and man-made (radio frequency, electromagnetic devices, electronic warfare devices, high-voltage electrical transmission lines, radars, and personal electronic devices).

9-2. Procedures

a. Protection of EID:

- (1) Remove minimal required munitions from packaging to support mission.
- (2) Keep protective covers, wires, sleeves, etc. on rounds until ready for loading into weapon system.
- (3) Immediately return all unused munitions to original packaging. Do not store excess munitions on loading pads or in ammunition holding areas outside original packaging materials.
- (4) Immediately re-install safety devices to un-fired/download EIDs.
- (5) Return damaged munitions to original packaging material, if safe to do so. Contact installation Quality Assurance, Ammunition Surveillance technicians if unsure of status of munitions.
- (6) Never attempt to repair or modify any munitions.

b. Mitigation of Electromagnetic Sources:

- (1) Identify organizational equipment that produces an Electromagnetic Environment (EME).
- (2) Keep all EME producing equipment clear of EID as specified in appropriate equipment technical manual.
- (3) LRC, QASAS and the ISO will develop procedures to prohibit the use of any personal communication, listening, or electronically operated property when EID is present.
- (4) Ground or bond EID to dissipate electrostatic accumulation.
- (5) Restrict use of EID outside original packaging whenever lightning is occurring in the area. This is mission dependent, but in the training environment suspends operations until the threat of lightning is gone.
- (6) Do not store or use EID in close proximity to high-voltage producing sources (radio frequency, electromagnetic devices, electronic warfare devices, high-voltage electrical transmission lines, radars, and personal electronic devices).

Chapter 10 Amnesty Program

10-1. General

a. Quality Assurance Specialist Ammunition Surveillance (QASAS) will provide oversight management and execution of the Installation Amnesty Program (IAP).

(1) Schedule, minimum annually, an Amnesty Day for collection of abandoned or unauthorized munitions.

b. Commanders will establish and implement an Amnesty Program (AP) that does not intimidate the individual or prevent the individual from freely turning in ammunition.

c. Each organization commander, having elements that use/expend ammunition or explosives will develop an Amnesty program that supports the IAP.

d. ASP personnel will accept delivery of ammunition under the amnesty program during normal ASP operating hours, provided the material is handed directly to an ASP employee.

Chapter 11 Explosives Safety

11-1. Purpose

AR 385-10, DA PAM 385-30, DA Pam 385-64, DoD Directive (DoDD) 6055.9E, and DODM 6055.09-M explains the Army's safety criteria and standards for operations involving ammunition and explosives (A&E) for the U.S. Army, and Government owned, contractor operated facilities and property. These publications establish safety precautions for the safe storage, handling, and maintenance of ammunition and explosives. These regulations provide maximum assurance that explosive accidents will be

prevented and that damage and injuries from an accident, should one occur, will be minimized. Explosives safety policy and procedures ensure that Army standards are followed.

11-2. Objective:

- a. All A&E storage and operating facilities within any unit/organization Area of Responsibility (AOR) will have an approved explosives storage license specifying the maximum quantity of explosives, expressed in net explosives weight (NEW), permitted at each potential explosion site (PES) within the facility consistent with operational requirements and explosives safety quantity-distance (ESQD) standards. For facilities which have a DDESB approved site plan, the license limits will be in accordance with the terms of the site plan. Refer to paragraph 9-10 a. for licensing requirements.
- b. All new construction of A&E facilities or major modifications to existing A&E facilities will require a Department of Defense Explosives Safety Board (DDESB) approved site plan. Refer to paragraph 9-10 b. for site plan procedures.
- c. If violations of explosives safety standards will exist as a result of new construction or major modifications to existing facilities (whether A&E or non-A&E), a Certificate of Compelling Reasons (CCR) must be submitted through command channels for approval by the Assistant Secretary of the Army (Installation and Environment) (ASA(I&E)). Refer to paragraph 9-10 c. for CCR procedures.
- d. Existing A&E facilities that do not have a DDESB approved site plan will have a site plan prepared and submitted in accordance with DA Pam 385-65 unless the specific criteria for "grandfathering" is met IAW DA Pam 385-64.
- e. Existing facilities which, due to operational necessity or mission requirements, require explosives storage license quantities greater than permitted by explosives safety standards, a DA Form 7632, Deviation Approval and Risk Acceptance (DARAD) will be required. Refer to paragraph 9-10 d. for DARAD procedures.

11-3. Explosive Safety Management Programs (ESMP)

- a. Per AR 385-10, Army commands and units will develop, implement and manage a written explosives safety management program (ESMP) as an element of their overall safety and occupational health program. In addition, units at and above the battalion level whose mission and functions involve A&E will develop, implement, and manage a written ESMP as an element of their overall safety and occupational health program. The ESMPs will address the safety of A&E during transportation, storage, handling, use, inspection, testing, maintenance, munitions response actions, demilitarization, turn-in and disposal.
- b. Commanders, at all levels, will establish and implement a written ESMP that at a minimum, shall address the following:
 - (1) Appointment of an occupational safety and health manager per AR 385-10, qualified under the Office of Personnel Management and Career Program 12 Standards, as the point of contact for all aspects of the Army Safety Program, including management of the ESMP.
 - (2) Compliance with DODD 6055.9E, DODI 6055.16, DODM 6055.09-M, AR 385-10 and DA PAM 385-64.
 - (3) Assurance that subordinate organizations maintain an effective ESMP.
 - (4) Designation, in writing, of subordinate officials authorized to exercise DARAD approval authority per AR 385-10 and DA PAM 385-30.
 - (5) Review of and concurrence on memorandums of agreement (MOAs) concerning the storage or disposal of non-DOD hazardous materials on Army real estate, consistent with the requirements of Section 2692, Title 10, United States Code (10 USC 2692) and with any delegation of authority necessary under 10 USC 2692.
 - (6) Integration of explosives safety into policy, procedures, and activities.
 - (7) Notification, as required by applicable laws and regulations to local U.S. government officials to ensure communication of the risk of operations involving A&E.
- c. Commanders of garrisons, installations and Colonel and above commands and agencies with an ammunitions and explosives mission will:
 - (1) Establish written explosives safety policy to implement AR 385-10 and DA PAM 385-64 that outlines the responsibilities of all organizations, including installation, tenant units and activities with an explosives mission. As part of the ESMP, an MOA or policy that outlines the ESMP requirements and responsibilities of both the garrison commander, senior commander and tenants will be created.

(2) Appoint an occupational safety and health manager per AR 385-10, qualified under the Office of Personnel Management and Career Program 12 Standards, as the point of contact for all aspects of the Army Safety Program, including management of the ESMP.

(3) Ensure competent and qualified personnel initiate and review site plans, safety submissions, and A&E facility designs, both at home station and deployed, and that the garrison or installation master plans take into account ESMP requirements.

(4) Ensure personnel who initiate and review explosives safety certificates of risk acceptance, both at home station and deployed, for A&E related operations, facilities or equipment are qualified to provide the commander with the information needed to make an informed decision regarding the risk being accepted.

(5) Ensure operating, training, and construction plans and budgets provide adequate resources to comply with ESMP requirements and to mitigate to the extent possible explosives safety hazards per AR 385-10.

d. The ESMP shall describe requirements, responsibilities, and procedures for complying with AR 385-10, DA PAM 385-30, DA PAM 385-64, and DA PAM 385-65. As applicable, the ESMP will address the following:

(1) Oversight, management, coordination and evaluation.

(2) Technical support requirements (such as, from Quality Assurance Specialist (Ammunition Surveillance) (QASAS) personnel.

(3) Explosives safety training.

(4) Explosives safety surveys and inspections to determine compliance with AR 385-10 and DA PAM 385-64.

(5) The development and approval of:

(a) Explosives safety policy, directives, and standing operating procedures (SOPs).

(b) The DDESB or Army required explosives safety submissions and licenses (per ACOM, ASCC, or DRU policy).

(c) Procedures for completing certificates of risk acceptance.

(d) Certificates of compelling reason.

(6) Investigating and reporting accidents, incidents and mishaps involving A&E, including submission of serious incident reports (SIR) and chemical event reports (CER) and documentation and dissemination of explosives safety lessons learned.

(7) Contractor explosives safety requirements and oversight per their contract.

(8) Fire prevention and protection.

e. The Installation Safety Office will develop and administer the Fort Campbell ESMP for all tenant units and activities.

11-4. Functions of Safety Directors/ Managers

a. Installation, Division, Tenant unit and organizations safety directors/managers shall:

(1) Serve as the point of contact for their unit/organizations ESMP related actions.

(2) Identify requirements for explosives licenses, explosives safety site plans, safety submissions, and explosives safety certificates of risk acceptance, existing waivers and exemptions and CCRs, and coordinate, as appropriate, with staff (for example, G-3/S-3, G-4/S-4, engineering and logistics elements) and installation, division and/or unit support personnel.

(3) Ensure all potential explosion sites (PESs) and exposed sites (ES), both military and civilian, are indicated on approved explosives safety site plans and submissions.

(4) Ensure that plans and protective construction designs for explosive manufacture, testing, storage, surveillance, maintenance, response actions, and demilitarization and disposal facilities are reviewed for compliance with safety standards by appropriately trained personnel.

(5) Ensure a safety inspection is conducted at least annually for all areas where A&E related activities (for example, production, handling, storage, use, maintenance, munitions response, demilitarization and disposal) routinely occur. Maintain a list of all such areas and records of inspections.

(6) Monitor A&E uploads and other activities that involve the transportation and storage of A&E to ensure that pertinent requirements are met.

(7) Serve as the focal point for and coordinate ESMP requirements with unit commanders; provide concurrence on unit ESMPs.

(8) Review the USAG master plan and quantity distance (QD) compliance of planned facilities on existing A&E sites both prior to and after construction.

(9) Review unit/organization policies, SOPs and directives for compliance with explosives safety requirements.

(10) Review certificates of risk acceptance and certificates of compelling reason for completeness and accuracy prior to forwarding to the Installation Safety Office for the approval process.

(11) Maintain a unit/organization list of approved certificates of risk acceptance, waivers, exemptions, and/or deviations; and advise incoming commanders of such and plans for corrections of such situations.

(12) Actively participate in the USAG master planning process, at home station and annually review the installation master plan to ensure construction is not planned inside explosive safety quantity distance (ESQD) arcs. When construction that is not related to A&E operations is required within the ESQD, ensure explosives safety site plans, submissions and explosives licenses are updated and approved at the appropriate level.

(13) Ensure procedures are developed and in place for:

(a) Maintaining fire symbols and chemical hazard symbols current with the actual A&E stored at a particular location, (ECMs, vehicles, field ASPs and arms rooms).

(b) Ensuring that personnel responsible for managing A&E keep current information on the type and location of A&E storage and provide this information to safety and fire fighting personnel.

(c) Training of personnel responsible for A&E related operations, operational personnel including security personnel (both military and civilian), and fire fighters (both military and civilian), in fire symbols and chemical hazard symbols and in precautions and procedures for fighting fires when A&E is involved.

(d) Existence of adequate communications between safety, fire fighting, physical security, emergency response and ammunition surveillance and storage personnel.

(e) Monthly maintenance of current maps, showing all explosive locations with fire and chemical hazard symbols within each unit/organizations area of responsibility, provided to the Installation Safety Office for consolidation and submission to the fire department.

(14) Annually review and document the USAG explosives location map to monitor encroachment within ESQD and ensure required explosives safety site plans, submissions and explosives licenses are accomplished.

(15) Monitor selected A&E operations conducted by units/organizations to ensure all DoD, Federal, State, local and contractor participants understand and comply with applicable explosive safety standards.

(16) Monitor on a periodic basis, selected A&E activities to evaluate explosives safety and the integration of risk management. Activities that should be monitored include, but may not be limited to the following:

(a) A&E storage, handling and operating sites (ECMs, ranges and field sites).

(b) A&E transportation activities.

(c) A&E disposal and demilitarization activities.

(d) Munitions response actions and access to munitions response site (MRS).

(e) Weapons system modifications, special exercises, and test programs, particularly those that involve A&E.

(f) Planning for contingencies.

(g) Combat load and reload operations.

(h) Explosives safety training for unit/organization personnel.

(i) Public demonstrations to include "Week of the Eagles", "Organization Days", "Open Houses", "Change of Commands", and "4th of July" type activities.

(17) Assist commanders and staffs with resolving explosives safety concerns associated with real property known or suspected to contain munitions and explosives of concern (MEC).

(18) Investigate and report A&E accidents, incidents and mishaps for units/organizations within your scope of responsibility, per DODM 6055.09-M, AR 385-10, and DA PAM 385-40, and document and disseminate explosives safety lessons learned.

(19) Brief your command and staff, as necessary, to keep the leadership informed of explosives safety requirements and issues and the status of the commander's ESMP.

11-5. Functions of Fort Campbell Safety Offices.

a. Installation Safety Office will:

(1) Appoint, on orders an Ammunition and Explosives Safety Program Manager.

(2) Provide explosives safety technical assistance to units, as requested, in support of their ESMP.

(3) Conduct annual inspections on 10% of all Fort Campbell unit/organization/Brigade explosives storage facilities to ensure that the facilities are licensed and that all storage of A&E is in compliance with the license. Examples of A&E facilities that require explosives storage licenses (which may or may not be present at all units/organizations) include but are not limited to:

(a) A&E storage facilities such as, Unit ECMs, Ammunition Supply Point (ASP), Ammunition Transfer Holding Points (ATHP), Ammunition Holding Areas (AHA) and unit field ASPs.

(b) Unit/organization arms rooms.

(c) Aviation Life Support and Equipment (ALSE) shops (which contain pyrotechnic signaling devices, small arms ammunition, etc.).

(d) Reaction forces facilities.

(e) Military Police and security forces facilities.

(f) EOD facilities with on-site A&E storage.

(g) Aviation maintenance facilities that store cartridge actuated/propellant actuated devices (CAD/PAD)

(h) Rooms containing thermite grenades or document destroyers for emergency destruction of classified materials.

(4) Evaluate and process unit/organization requests for explosives safety Certificates of Risk Acceptance for licensed sites.

(5) Evaluate, process and provide technical assistance in the preparation of DDESB site plan submissions for the construction of new or renovated facilities within the explosives safety arcs (quantity-distance arcs) of explosives storage facilities.

(6) Assist the DPW Master Planner in the establishment of explosives safety arcs on master planning maps.

(7) Assist the unit/organization safety offices in fulfilling their explosives safety responsibilities.

(8) Participate in Master Planning Board meetings to ensure that planned construction and renovation within the explosives safety arcs obtain DDESB approval, when required.

(9) Coordinate with DOD and DA explosives external safety inspections of storage sites and coordinate inspection team visits with units/organizations during these inspections.

(10) Monitor, all construction within the explosives safety hazard arcs, including renovation within A&E facilities, to ensure that new construction or renovation has appropriate approvals.

b. Division and tenant unit Safety Offices will:

(1) Establish an ESMP for battalion and higher level units that perform ammunition and explosives missions or tasks.

(2) Provide explosives safety technical assistance to units, as requested, in support of the responsibilities listed in their ESMP.

(3) Conduct an annual inspection of all explosives storage facilities to ensure that the facilities are licensed and that all storage of A&E is in compliance with the license. Examples of A&E facilities that require explosives storage licenses (which may or may not be present at all installations) include but are not limited to:

(a) Periodically inspect all A&E storage facilities such as unit bunkers (ECM), Ammunition Transfer Holding Points (ATHP), Ammunition Holding Areas (AHA), field ASPs, and FARPs.

(b) Annually inspect unit/organization arms rooms.

(c) Periodically inspect Aviation Life Support and Equipment (ALSE) shops (which contain pyrotechnic signaling devices, small arms ammunition, etc.).

(d) Periodically inspect Reaction forces facilities, Military Police and security forces facilities.

(e) EOD facilities with on-site A&E storage.

(f) Annually inspect Aviation maintenance facilities that store cartridge actuated/propellant actuated devices (CAD/PAD).

(g) Periodically inspect rooms containing thermite grenades or document destroyers for emergency destruction of classified materials.

(4) Evaluate and process unit/organization requests for explosives safety Certificates of Risk Acceptance for licensed sites and forward to the Installation Safety Office for the approval process.

(5) Evaluate, process and provide units/organizations technical assistance in the preparation of DDESB site plan submissions for the construction of new or renovated facilities within the explosives safety arcs (quantity-distance arcs) of explosives storage facilities and forward to the Installation Safety Office for the approval process.

(6) Assist unit/organization safety personnel in fulfilling all their explosives safety responsibilities.

- (7) Participate in DOD and DA explosives safety inspections of storage sites and accompany inspection teams during these inspections.
 - (8) Preparation and forwarding of Certificates of Risk Acceptance when compliance with explosives safety standards cannot be achieved to the Installation Safety Office for the approval process.
 - (9) Provide explosives safety for all operations, inside or outside of A&E facilities, until completion of the operation/mission.
 - (10) Assist the BDE Ammunition Officers and BCT Safety Managers in the development and submission of unit arms room explosive site licenses and conduct annual inspections for compliance.
 - (11) Participate in local planning boards to ensure that planned construction and renovation within the explosives safety hazard arcs are reviewed by unit/organization safety office.
 - (12) Assist unit commanders in the preparation of explosives safety DARAD requests.
 - (13) Ensure that each unit permitting the training of military working dogs with explosives has an approved plan, signed by the senior commander, listing all approved training facilities with training restrictions.
- c. Training Area Commanders and Commanders with explosives safety responsibilities will:
- (1) Ensure that explosives safety regulations, including the posting of fire and chemical symbols, are followed on all licensed explosives storage sites within their area of responsibility.
 - (2) Provide a copy of the explosives storage license and advice and training, as required, to tenant storage units and site commanders in regard to explosives safety program requirements.

11-6. Explosives Safety Support.

The Quality Assurance Specialist (Ammunition Surveillance) (QASAS) must be adequately trained and qualified in explosives safety, as well as ammunition surveillance to support the Fort Campbell ammunition and explosives mission. Safety directors and managers remain responsible for management of their unit/organizations Explosives Safety Program. The QASAS shall be utilized to provide technical assistance to commanders and safety directors in the following areas:

- a. Developing explosive safety site plans, submissions and site licenses.
- b. Preparing explosives safety certificates of risk acceptance and CCRs.
- c. Reviewing protective construction designs for A&E operational facilities (for example, production; manufacture, testing, storage, surveillance, maintenance, demilitarization, and disposal facilities) for compliance with explosives safety standards.
- d. Conducting safety inspections of A&E buildings, storage, use, maintenance, and disposal areas at least annually.
- e. Monitoring A&E uploads and other activities that involve the transportation, storage or conduct of other A&E related operations for which a certificate of risk acceptance or CCR has been approved or is awaiting approval to ensure that pertinent requirements are met.
- f. Reviewing quantity distance (QD) compliance of existing and planned facilities, both prior to and after construction.
- g. Review SOPs and directives for compliance with explosive safety requirements.
- h. Assist in the installation master planning process and reviewing, annually, the installation master plan to ensure construction is not planned within the ESQD.
- i. Monitor A&E related operations to assist Army units with understanding and complying with ESMP requirements.
- j. Monitoring and evaluating A&E related activities, including the following:
 - (1) Production, storage, handling, maintenance, operating, demilitarization, and disposal.
 - (2) Transportation.
 - (3) Weapon systems modifications, special exercises, and test programs.
 - (4) Contingency planning.
 - (5) Combat load and reload operations.
 - (6) Explosives safety training.
- k. Assisting in AE accident, incident and mishap investigations.
- l. Ensuring ESMP policies and procedures are followed for operational and tactical AE-related activities, such as:
 - (1) Siting and operation of ammunition holding areas (AHA) and ammunition transfer points (ATHP).
 - (2) Siting of uploaded tactical vehicles.
 - (3) Relief in place and transfer of authority (RIP/TOA) A&E operations.
 - (4) Storage and processing of captured A&E.

- (5) A&E retrograde, reconstitution, and reset activities in a tactical area of operation.

11-7. Explosives safety training

a. All personnel (supervisory and non-supervisory) who conduct A&E-related activities shall complete explosives safety training appropriate for the activities that they perform. Such personnel shall receive annual refresher training IAW DA PAM 385-10 Figure 1-1 and also Column 2 for 0018 that have an Explosive Safety Responsibility to help ensure the requisite level of knowledge and competency in explosives safety.

b. In addition to any explosives safety training specified for career programs in AR 690–950 and related publications and training mandated by local, state, or federal requirements, explosives safety training shall be accomplished by ACOMs, ASCCs, DRUs, garrison, or installation and unit level as indicated in Appendix C of this regulation and in DA PAM 385-64 as Figure 1-1.

11-8. Fort Campbell Provided Explosives Safety Training

a. **INSTALLATION AMMUNITION HANDLER COURSE:** This program of instruction is a requirement for all Fort Campbell personnel to request, draw, and turn-in ammunition from the Ammunition Supply Point. Students receive instruction on ammunition issue and turn-in procedures, ammunition transportation and storage, and ammunition safety. An end of course exam is administered and students must receive a passing score to receive certification. Students may bring a copy of a completed local background check (DA Form 7281-R) on class date. Commanders are responsible for ensuring the DA Form 7281-R are completed prior to assuming ammunition related duties. Students must provide the Installation Ammo Manager with a copy of their certificates of completion for the Ammo-45, Ammo-63, Ammo-64 courses. Additionally students must bring a copy of the slide packet to the class. Class enrollment is through BN/BDE Schools NCO or G3 Schools.

b. **Ammo-62 Technical Transportation of Hazardous Materials (9E-F58/322-F37 (MC)):** Course materials include emphasis on shipping papers, marking, labelling, placarding, packaging, compatibility, and emergency response information. Class enrollment is through BN/BDE Schools NCO or G3 Schools.

11-9. Functions of Units, Organizations and Directorates with A&E responsibilities

a. Department of Public Works (DPW) will:

(1) Ensure, in coordination with the ISO, all master planning maps for facilities within the installation contain accurate explosives safety hazard arcs.

(2) Coordinate with DPW Forestry to ensure that vegetation control is performed at all ammunition storage sites on the installation.

(3) Conduct or contract required lightning protection inspections and tests to be performed at all ammunition storage sites on the installation every 24 months.

(4) Submit all plans for new construction or renovation that will be within ESQD arcs of an A&E facility through master planning channels to the Installation Safety Office.

(5) Invite a safety representative to all master planning board meetings to ensure explosives safety distance restrictions are considered in construction planning.

(6) Review each DD Form 1391 for possible violations of explosives safety restrictions and, where any doubt exists, submit the form for review to the appropriate unit/organizational safety office.

b. The Local Fire Department will: Perform risk assessment and issue work/flame permits prior to the commencement of any work by civilian work crews on licensed sites within the community. The permit must specify the type of equipment, personal protective equipment required, safety precautions to be followed, and protective distances to be observed.

c. Commanders Of Units/Organizations Occupying Explosives Storage Sites will:

(1) Ensure ammunition is stored in accordance with the explosives storage license.

(2) Comply with Army and local explosives safety requirements.

(3) Provide the following items for review during explosives safety inspections:

(a) A complete inventory of stored ammunition by storage site (to include DODIC, Net Explosive Weight, and quantity for each DODIC stored).

(b) Copy of work orders submitted for correction of safety deficiencies

(c) Explosives Storage License for all PESs.

(4) Maintain a copy of the current storage license at the storage facility.

(5) Ensure that each individual with decision-making authority over the storage of Class V at the storage facilities is knowledgeable of explosives safety standards.

(6) Maintain a current copy SOP covering ammunition storage and handling.

d. QASAS, Brigade and tenant unit safety managers will notify their supporting Safety Office of any uncorrected explosives safety violations observed and all violations of explosives storage license limits. The unit's supporting Safety Office will notify the Installation Safety Office of all corrective actions taken on deficiencies noted.

11-10. Explosive Storage Licenses

a. Procedures

(1) Explosives Storage Licenses will be prepared in accordance with DA Pam 385-64 and this regulation.

(2) An Explosives Storage License is required for each potential explosion site (PES) at all A&E storage or operating facilities.

(3) Explosives Storage Licenses will be prepared by the owning unit and forwarded through safety channels to the Installation Safety Office. License preparation and annual reviews should be coordinated with other installation elements (e.g. physical security, fire protection services, ammunition surveillance) as necessary to determine appropriateness of proposed sites, operating procedures and limitations.

(4) The ISO will manage the explosives licensing program for the installation and will provide final staff concurrence prior to forwarding a license to the unit commander or designated representative for approval. Commander's representatives with authority to approve Explosives Storage Licenses will be designated in writing.

(5) Explosives Storage Licenses will be reviewed annually by the owning unit/organization safety office to verify that the conditions upon which the initial license was based remain valid (i.e. that there has been no new construction that has encroached upon the ESQD arcs of the licensed facility and that there are no new PESs constructed or situated at the facility).

(6) Facilities which require quantities of A&E that cannot meet explosives safety standards must have an approved DA Form 7632, Certificate of Risk Acceptance before a license can be issued for any quantity of explosives that will violate explosives safety standards.

b. Site Plans.

(1) Site plans will be prepared and submitted to the Installation Safety Office in accordance with DA Pam 385-65 and CAM Reg 385-10.

(2) For new construction of A&E facilities or major modification to existing A&E facilities, a preliminary site plan will be submitted.

(a) For MCA or MILCON projects, site plans will be prepared and submitted for preliminary DDESB siting approval at the 35% design stage. A final site plan will be submitted and approved by DDESB prior to occupying the site with any A&E.

(b) For all other new construction or major modifications, a preliminary site plan will be submitted sufficiently in advance of construction to assure that siting approval is obtained prior to expenditure of construction funding (DA and DDESB approval of site plans can take as long as 180 days). A final site plan will be submitted and approved by DDESB prior to occupying the site with any A&E.

(c) For all new construction of A&E facilities or major modification to existing A&E facilities that cannot fully comply with explosives safety standards, a Certificate of Compelling Reasons (CCR) must be submitted through command channels for approval by the Assistant Secretary of the Army (Installation and Environment) (ASA(I&E)). Approved CCRs will be included with the site plan submission.

(3) For new construction of non-A&E facilities or major modification of existing non-A&E facilities which will be located at less than the minimum required explosives safety distance from an existing A&E storage facility, a CCR must be submitted through command channels for approval by the Assistant Secretary of the Army (Installation and Environment) (ASA(I&E)).

(a) If the CCR for the non-A&E facility is approved and the existing A&E facility has a DDESB approved site plan, the CCR will be forwarded to DDESB for inclusion with the approved A&E facility site plan.

(b) If the CCR for the non-A&E facility is approved and the existing A&E facility does not have a DDESB approved site plan, a site plan will be prepared and submitted for the existing A&E facility with a copy of the CCR included in the submission.

(c) If the CCR for the non-A&E facility is approved and the existing A&E facility does not have a site plan due to explosives safety violations, the CCR will be forwarded to DDESB and the CCR referenced in the Explosives Storage Licenses affected by the new construction.

(4) Site plan submissions will be initiated by Explosives Safety Program Manager with the participation and assistance of QASAS.

(5) Site plans will contain all information required in Chapter 4 of DA Pam 385-65.

c. Certificate of Compelling Reason (CCR)

(1) A CCR, granted by the Assistant Secretary of the Army (Installation and Environment), is required for new construction or to perform a major modification to an existing structure that violates or will violate explosives safety provisions of DA regulations and pamphlets. The commanders of ACOMs, ASCCs, and DRUs must certify that such projects are essential because of operational necessity or other strategic compelling reasons. Expenditure of funds in violation of DA regulations and pamphlets (new construction, modifications, and so forth) requires a CCR. A CCR is valid for the life of the facility

(2) CCRs will be prepared and submitted in accordance with Chapter 4 of DA Pam 385-30 and Chapter 2 of DA Pam 385-65.

d. DA Form 7632, **Deviation Approval and Risk Acceptance (DARAD)**.

(1) An explosives safety DARAD is written approval to deviate from explosives safety standards in cases of operational necessity for critical missions pending correction of the causative condition. DARAD's will not be used for deviations from explosives safety standards as a matter of convenience.

(2) DARAD's will be prepared and submitted in accordance with DA Pam 385-30 and this regulation.

(a) The authority to approve DARAD's in 101st Airborne Division (AASLT) is vested in the CG, 101st Airborne Division (AASLT), and may not be delegated or assumed at any lower level or command.

(b) DARAD's for 101ST Airborne Division (AASLT) licensed sites should be initiated by the owning unit commander, prepared by the division safety office and forwarded through the Installation Safety Office to the Garrison Commander and then to the CG, 101st Airborne Div (AASLT).

(3) Until a DARAD's has been approved, the A&E facility requiring the DARAD's will be licensed only for NEW limits that do not violate explosives safety standards.

(4) In addition to the requirements of DA Pam 385-30, the DARAD's will also specify the minimum NEW limits required for the facility to achieve mission readiness or operational capability.

(5) When a DARAD's has been approved, a revised explosives storage license will be prepared. The NEW for the revised license cannot exceed the quantity approved in the DARAD.

e. Explosive accidents. Explosive accidents will be reported, recorded and investigated in accordance with chapters 3, 4, and 5 of this regulation.

f. Transportation. The transportation of ammunition and explosives will be in accordance with AR 385-10 and DA Pam 385-64.

g. Ammunition and explosives handling.

(1) The rules governing the safe handling of ammunition are established in DA PAM 385-64.

(2) All personnel engaged in A&E operations shall be thoroughly trained in explosives safety and be capable of recognizing explosive hazards. Safety must become a firmly established habit when working with, or being in the vicinity of, ammunition and explosives.

(3) The cardinal rule in any ammunition operation is to expose the minimum number of people to the minimum quantity of explosives for the minimum possible time, consistent with mission accomplishment.

h. Fire and chemical symbols. Appropriate fire symbols (illustrated and explained in DA Pam 385-64) shall be displayed on buildings and storage sites containing ammunition or explosives. Appropriate chemical symbols shall be posted on buildings and storage sites containing chemical agents. An exception to posting fire symbols outside of buildings and A&E storage sites is permitted when security or force protection considerations require that such locations should not be easily identified. In these cases, the installation fire fighting services must be provided a map indicating each A&E location that would otherwise require posted fire symbols identified along with the appropriate fire and chemical hazard symbols depicted on the map.

i. Unexploded Ordnance (UXO) Fort Campbell contains a significant amount of unexploded ordnance on training ranges as well as within the cantonment area. The following guidance will be strictly followed by all personnel.

(1) Do not touch or handle UXO. Know and comply with the 3 R's of UXO.

(a) RECOGNIZE: Realize that you have encountered UXO.

(b) RETREAT: Do not touch, move or disturb the UXO. Carefully and immediately leave the area but do not run.

(c) REPORT: Report the UXO location to the Emergency Operations Center (EOC), Military Police, 52nd EOD or other emergency response organization. Call 911 if service is available.

(2) Do not travel through unknown areas.

(3) Be aware of the potential for UXO movement due to weather (washouts, soil erosion, etc.) and construction.

(4) All Service Members will receive initial training on these threats on arrival to their units and at least annually thereafter.

Chapter 12

Explosives Licensing

12-1. Purpose

AR 385-10 and DA Pam 385-64 require the licensing of explosives storage and operations facilities (potential explosion sites (PES)). The license is based on Army explosives safety quantity-distance (ESQD) requirements and is written authority to store specific quantities of ammunition and explosives (A&E) expressed in terms of net explosives weight (NEW) at specific authorized locations. Licensing provides assurance that damage and injuries from an explosive accident will be minimized

12-2. Objective

All A&E storage and operations facilities will be licensed. The license will contain the location and type of facility, allowable limits for each hazard class, the determining factor for the allowable limits, and the separation distance between the facility and the determining factor. An inspection procedure will ensure compliance.

12-3. Responsibilities:

a. Unit/organization safety offices will:

(1) Ensure current licensing on all A&E storage sites and operations facilities. Unit commanders are responsible for initiating requests for licensing of all explosives storage sites and operations facilities in their AOR. Requests will be made to the Installation Safety Office.

(2) Provide technical assistance to unit/organization commanders, as requested, to ensure that licenses are understood and strictly adhered to by storing units.

(3) Maintain files of all valid explosives licenses within their unit's area of responsibility.

b. Commanders of units/organizations with approved site licenses will:

(1) Store ammunition, except those categories specifically exempted in this chapter, only in licensed sites.

(2) Ensure that ammunition is stored in strict compliance with the explosives storage license. This requires that the Net Explosive Weight for each storage site be continually monitored and that it never exceeds the licensed limits.

(3) Unit Earth Covered Magazines (ECM) 8001-8006 have a current approved site license for HC/DIV 1.1 – HC/DIV 1.4 in various net explosive weight (NEW) quantities and in accordance with CAM Reg 700-2. Units ECM are limited to HC/DIV 1.3 and HC/DIV 1.4 storage. If changes to mission requirements are required the original site license will be in effect and units/organizations will need to contact the Installation Safety Office.

(4) During license inspections, provide a complete inventory of stored ammunition by storage facility. This inventory must include DODAC, Net Explosive Weight, compatibility group and quantity for each item stored.

c. Brigade/organization Safety Managers (0018s) and Brigade Ammunition Officers will: Inspect each storage site licensed annually for license compliance and license accuracy. Licenses are not permanent documents and will be reviewed annually. A new license will be issued every 5 years in conjunction with the Security Construction Statement DA FORM 4604 has expired. Discrepancies and violations will be reported to the parent unit safety office to assist in correcting deficiencies.

12-4. Procedure

a. To acquire an explosives storage license for an unlicensed site, a unit must prepare a written request thru the unit/organization safety office, Physical Security and QASAS specifying the quantity and type of all A&E to be stored. Following approval by Physical Security and QASAS, the Installation Safety will review all documents and if approved, issue a license.

b. The explosives storage license form depicted in Chapter 9 replaces all previously issued licenses.

Chapter 13 Arms Room Safety

13-1. Purpose

The purpose of an arms room inspection is to ensure that ammunition is safely stored in compliance with AR 385-10 and DA Pam 385-64. This ensures that, in the event of an accident, the inhabitants of buildings in which arms rooms are located will be protected against explosion and be exposed only to a fire hazard. In the event of a fire, firefighters will be adequately warned of the hazards contained in the arms room.

13-2. Objective

a. Compliance with QD and compatibility criteria is not required for mission essential or operational required quantities of ammunition and explosives in HD 1.4 or 6.1 (excluding toxic chemicals) stored in arms rooms. Operational necessity is defined as a mission associated with war or peacetime operations in which the consequences of an action justify the risk of loss of equipment and personnel. This provides commanders the flexibility to ensure mission performance, to include training, without wasting resources. It is not intended to allow such storage for convenience. Safety guidance governing this storage will be comprehensive, mission-supportive and in agreement with applicable security, fire and quality assurance requirements. The following quantities may be stored in arms rooms.

b. HCD 6.1 (excluding toxic chemical munitions) and 1.4, mission essential quantity (MEQ).

c. HCD 1.3, up to 100 pounds (45.5 Kg) NEW. Storage of ceremonial ammunition (e.g. 75mm or 105mm blank) is not considered an operational necessity; however limited quantities may be stored when no other practical alternative exists. The amount of HD 1.3 and HD 1.4 ceremonial ammunition will not exceed 100 lbs. NEW and will be considered in the QD computations for the HD 1.3 limits of the arms room.

d. At no time will pyrotechnics, smokes, or signals be stored in unit arms rooms.

e. Munitions will be stored in their original container with original packaging (otherwise an explosives safety site plan is required) because containerization and packing are considerations in determining a munitions HD. However, arms rooms that support guard forces or military police may have one outer pack of each caliber of small arms ammunition open for use.

13-3. Responsibilities:

a. Units Storing Ammunition in Arms Rooms will:

(1) Complete a risk assessment and forward to the parent unit safety office for review. Once all required inspections, QD form and RM worksheet are completed, the parent unit safety office will forward these documents to the Division Safety Office for review then to the Installation Safety Office for final review and then forward to the appropriate commander for approval and issuance of the site license.

(2) Ensure that absolutely no HCD 1.1 or 1.2.1 is stored in an arms room, even temporarily.

(3) Ensure that the appropriate fire and chemical (for HCD 6.1) symbols are posted at the entrance to the arms room. (NOTE: The posting of symbols on the exterior of the building is not required.) Posting of fire and chemical symbols is only required when ammunition is present. When the ammunition is removed, the fire and chemical symbols will also be removed.

(4) Provide written authorization (company commander or higher) for all privately owned ammunition stored in the arms room.

(5) Ensure that deficiencies found during inspections are promptly corrected and reported to the appropriate supporting/parent safety office.

b. Unit/organization Safety Offices will:

(1) Examine each risk assessment request for storage on a case by case basis to ensure that personnel living or working in the inhabited building are not endangered and forward to the Installation Safety Office for approval.

(2) Following approval, issue a license for the arms room in accordance with DA PAM 385-64.

(3) Annually inspect each arms room in their unit/organization area of responsibility for compliance with explosive safety regulations and Fort Campbell Arms Room Inspection Checklist in Chapter 12.

(4) Provide a written report of inspection results to the appropriate unit commander and maintain a file of inspection reports and follow-up actions.

c. Arms Room Custodians will maintain the unit arms room in accordance with the Fort Campbell Arms Room Inspection Checklist, below and keep a copy of the risk assessment approval and license posted in the arms room.

13-4. Procedures

- a. Units with ammunition stored in arms rooms, or planning to store ammunition in arms rooms, will notify the appropriate Safety Office to ensure compliance with responsibilities as described in paragraph 3 above.
- b. Arms rooms will be maintained in accordance with the checklist in Chapter 14.

**Chapter 14
Safety Inspection Checklist for Unit Arms Room**

14-1. General requirements for storage of ammunition

- a. Is written approval (risk assessment and license) from the Installation/Garrison/Unit Commander to store ammunition in the arms room on file in the arms room?
- b. Is the arms room free of flame producing and flammable items and combustible liquids?
- c. Is a copy of the Security Construction Statement (DA Form 4604-R) on file in the arms room?
- d. Are 2ea. serviceable 10lb class BC fire extinguisher available in the arms room?
- e. Are ammunition containers properly marked?
- f. Is a complete inventory of items stored on file?
- g. Items a-f are not all inclusive requirements to obtain a site license.

14-2. Requirements for storage of HCD 6.1 ammunition

Are the appropriate chemical and fire symbols posted at the entrance to the arms room?

14-3. Requirements for storage of HC 1.4 ammunition

Is fire symbol #4 posted at the entrance to the arms room?

14-4. Requirements for storage of HC 1.3 ammunition

Is fire symbol # 3 posted at the entrance to the arms room?

14-5. Items Not Permitted/Restrictions

Absolutely NO HCD 1.1 or 1.2.2. Ammunition or Explosives **ARE PERMITTED IN ARMS ROOMS!**

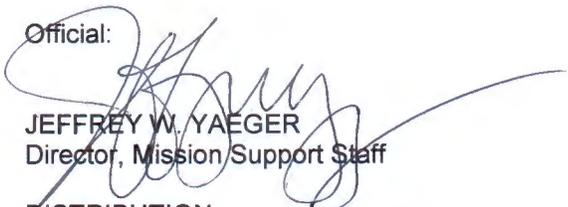
**Chapter 15
Proponent**

5-1. Point of Contact and Proponent

Any questions, concerns, or comments concerning this policy or inspections can be addressed by calling the QASAS at 798-2619/6529 or the Installation Safety Office Explosive Safety Officer at 798-4228. The proponent and point of contact for this regulation is the Installation Safety Office; ATTN IMCB-SO.

SCOTT E. BROWER
Brigadier General, USA
Commanding

Official:


JEFFREY W. YAEGER
Director, Mission Support Staff

DISTRIBUTION:
INTRANET

Appendix A

References (Refer to Appendix A, DA DAM 385-64 for other applicable references)

AR 190-11

Physical Security of Arms, Ammunition, and Explosives

AR 210-20

Real Property Master Planning for Army Installations

AR 350-19

The Army Sustainable Range Program

AR 385-10

The Army Safety Program

AR 385-63

Range Safety

AR 420-1

Army Facilities Management

AR 600-20

Army Command Policy

AR 700-13

Worldwide Ammunition Logistics/Explosives Safety Review and Technical Assistance Program

AR 740-1

Storage and Supply Activity Operations

DA Pam 385-10

The Army Safety Program

DA Pam 385-30

Mishap Risk Management

DA Pam 385-61

Toxic Chemical Agent Safety Standards

DA Pam 385-63

Range Safety

DA Pam 385-64

Ammunition and Explosives Safety Standards

DA Pam 385-65

Explosive and Chemical Site Plan Development and Submission

DoD 6055.09-M

DoD Ammunition and Explosives Safety Standards

ATP 5-19

Risk Management

TM 5-1300

Structures to Resist the Effects of Accidental Explosions

TM 38-410

Storage and Handling of Hazardous Material

Technical Paper 15 (TP-15)

Approved Protective Construction.

Appendix B Terms

Command levels of support

Command levels of support are the HQDA determined levels for the common services that are provided by a garrison. Command levels of support refers to the method by which IMCOM directs all garrisons to deliver specific elements of installation support services (Service Support Programs (SSPs)) at a HQDA approved pre-determined level of service. This strategy is aimed at achieving standardization of installation services across the Army through equitable distribution of resources and garrison accountability for service delivery performance.

Garrison

An IMCOM unit that provides appropriate and equitable services in accordance with HQDA directed CLS to all tenants, Soldiers, other Service Members, Families, and Civilians in the garrison area of responsibility (AOR).

Installation

An aggregation of contiguous or near contiguous, real property holding commanded by a centrally selected commander. Installations represent management organizations. An installation may be made of one or more sites.

Supported commander

In the context of the support command relationship, the commander who receives assistance from another commander's force or capabilities, and who is responsible for ensuring that the supporting commander understands the assistance required.

Supporting commander

In the context of a support command relationship, the commander who aids, protects, complements, or sustains another commander's force, and who is responsible for providing the assistance required by the supported commander.

**Appendix C
Army Explosive Safety Course**

In **DA PAM 385-64, Figure 1-1**. Displays a list of the Army explosives safety courses (applicable to military and civilian personnel)

Training course	Tide or position held and specific duties performed								
	Safety and occupational health professional	Safety and occupational health professional	Quality Assurance Specialist/ Ammunition	Ammunition area and operation	Ammunition handling and operating personnel	Personnel Who prepare review	Personnel who test/inspect ground	Personnel Who handle or manage	Personnel who monitor the safety
AMMO-407	Mandatory	Mandatory	Mandatory	Suggested	Suggested	Mandatory			Mandatory
AMMO-	Mandatory	Mandatory	Mandatory	Mandatory	Mandatory	Mandatory		Mandatory	Mandatory
AMMO-		Suggested	Suggested	Suggested	Suggested			Mandatory	
AMMO-	Mandatory	Mandatory	Mandatory	Suggested	Suggested	Mandatory		Mandatory	Mandatory
AMMO-	Mandatory	Mandatory	Mandatory	Suggested	Suggested	Mandatory			Mandatory
AMMO-54-		Mandatory	Mandatory	Mandatory	Suggested	Suggested	Suggested		
AMMO-68-DL	Suggested	Mandatory-Annual Refresher	Mandatory-Annual Refresher	Mandatory(6) Annual Refresher	Mandatory(6) Annual Refresher			Mandatory-Annual Refresher	Mandatory Annual Refresher
AMMO 65		Suggested	Suggested	Suggested					Mandatory
AMMO 82	Suggested	Mandatory	Mandatory	Suggested	Suggested	Mandatory			
AMMO 28	Suggested	Mandatory	Mandatory				Mandatory		Mandatory
AMMO	Suggested	Mandatory	Mandatory	Suggested	Suggested				Mandatory
		Mandatory	Mandatory			Mandatory			
AMMO-		Mandatory	Mandatory			Mandatory			
AMMO-		Mandatory	Mandatory			Mandatory			
Advanced Explosive Safety	Suggested	Mandatory	Suggested						Suggested
Explosive Safety Tactical		Mandatory	Mandatory						
Explosives Safety in RDTE		Mandatory (7)	Suggested						
AMMO-		Mandatory (8)	Mandatory					Suggested	
AMMO-		Mandatory (8)	Suggested						
AMMO-97-DL		Mandatory (8)	Mandatory						Suggested

Continuation of Appendix C

Legend:

AMMO-107 or 107-DL:	Introduction to Explosives Safety for Safety Professionals
AMMO-45-DL:	Introduction to Ammunition
AMMO-31-DL:	Environmental Considerations for Ammunition Personnel
AMMO-63-DL:	U.S. Army Explosives Safety Familiarization
AMMO-78-DL:	Ammunition Publications
AMMO-54-DL:	Risk Management for and Preparation of SOPs for A&E Operations
AMMO-68-DL:	Military Munitions Rule
AMMO-65:	DOD Contractors' Explosives Safety Standards
AMMO-82:	Explosives Safety Quantity Distance
AMMO-99-DL:	Application of U.S. Army ESQD Principals
AMMO-28-DL:	Electrical Explosives Safety for Army Facilities
AMMO-112-DL:	Explosive Safety in Storage
AMMO-100-DL:	U.S. Army Explosives Safety Site Planning Course
AMMO-101-DL:	Tutorial for DDESB QD Calculator
AMMO-103-DL:	Explosives Safety Siting and Army Site Submission Electronic Tool (ASSET)
AMMO- 87-DL:	Military Munitions Response Program (MMRP)
AMMO-90-DL:	Munitions Response Site Prioritization Protocol
AMMO-97-DL:	Munitions History Program

Notes:

- 1 - AMMO designated numbers are U.S. Army Defense Ammunition Center course numbers.
- 2 - Course numbers ending with DL indicate a distance learning course.
- 3 - See chapter 20 for certification and training requirements associated with the transportation of AE.
- 4 - USACE Ordnance and Explosives Safety Specialists (OESSs) shall follow the minimum requirements of DDESB TP-27 and the CP12 Explosives Safety Handbook.
- 5 - Pre-requisite courses for AMMO-107 are: AMMO-45-DL, AMMO-63-DL, and AMMO-78-DL.
- 6 - Commanders will designate the Ammunition Area/Operation Supervisors and Ammunition Handling and/or Operating Personnel for which this training is mandatory based on their duties.
- 7 - Mandatory for safety professionals with explosives safety roles and responsibilities in industrial and RDT&E missions and functions, recommended for safety professionals with explosives safety roles and responsibilities in munitions response missions and functions.
- 8 - Mandatory for safety professionals with explosives safety roles and responsibilities in munitions response missions and functions.

Appendix E
Example of Deviation Approval and Risk Assessment Document (DARAD) (DA Form 7632)

DEVIATION APPROVAL AND RISK ACCEPTANCE DOCUMENT (DARAD)					
SITE INFORMATION					
1a. Country	1b. State	2. Service	3a. Installation Type		
3b. Installation Name		3c. Type of Site			
DEVIATION INFORMATION					
4. Deviation #	5a. Effective Date	5b. Expiration Date	6. Deviation From		
7. Type of Deviation		5c. Number/Title and Paragraph of Requirement			
8b. What we need to do that deviates from 5c. (Synopsis of Para 24)					
8c. Operational, Strategic or Compelling Reason for Violation:					
9. Potential Consequences of Deviation from Approved Standards		9a. # Fatalities	9b. # Injuries	9c. Equip/Fac Loss \$	10. Date Deviation Initiated
11. Residual Severity	12. Residual Probability	13. Residual Level of Risk		14a. Safety Professional/Analyst (POC Info)	
14b. Analyst Signature		14c. Submitter (POC Info) (if different from 14a.)		14d. Submitter Signature (if different from 14a.)	
14 e. REVIEWED BY:					
DATE	CONCUR (YES/NO)	ORGANIZATION	PRINTED NAME/TITLE	Attachment?	SIGNATURE
				Attachment? <input type="checkbox"/>	
				Attachment? <input type="checkbox"/>	
				Attachment? <input type="checkbox"/>	
				Attachment? <input type="checkbox"/>	
				Attachment? <input type="checkbox"/>	
				Attachment? <input type="checkbox"/>	
DEVIATION APPROVAL/RISK ACCEPTANCE					
I have reviewed the risk assessment and understand the hazard and potential consequences. I am approving this deviation and accepting the additional potential consequences and residual risk based on current operational necessity.					
15. Army HQ:	16b. Unit/Comm.	16a. DATE:	16b. Expiration Date:	17. RANK/TITLE:	
17a. PRINTED NAME:			17b. SIGNATURE:		
17c. Comment:					Attachment? <input type="checkbox"/>

DA FORM 7632, APR 2015

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Page 1 of 3
AFD LC v1 02E5

RISK ASSESSMENT WORKSHEET					
Deviation #		Effective Date:		Expiration Date:	
RISK ANALYSIS INFORMATION					
18. Current Situation: "Provide a description of the situation that necessitates this deviation."					Attachment? <input type="checkbox"/>
19. Hazard Category		20. Specific Hazard:			
21. Duration of Deviation (Choose one of the following)	21a. 1 month or less (select the duration in days)	0	21b. 1 month to 1 year (select the duration in months)	0	21c. 1 year to 5 years (select the duration in years)
22. Deviation Approval Authority (or Equivalent)					
23. Mission Impact of Not Accepting Risk					Attachment? <input type="checkbox"/>
24. What we need to do that violates 5c. (Provide a detailed description of the action that deviates from the standards.)					Attachment? <input type="checkbox"/>
25. Control Measures: "Measures taken, or will take, to reduce hazards of risk being accepted."					Attachment? <input type="checkbox"/>
26. Permanent Corrective Actions (with Milestones): Include est metal cost, military construction project number, etc.					Attachment? <input type="checkbox"/>
27. Alternatives Considered: "Things considered doing but didn't, and why"					Attachment? <input type="checkbox"/>
Alternative 1:					
Alternative 2:					
Alternative 3:					
28. Attach any supporting documents (i.e. Photos, MOU, ASAP-X, ESS, etc.)					Attachment? <input type="checkbox"/>

DA FORM 7632, APR 2015

Page 2 of 3
AFD LC v1 02E5

Appendix F
Example of Unit Arms Room Explosives Storage Site Licensing SOP



DEPARTMENT OF THE ARMY
INSTALLATION MANAGEMENT COMMAND, ATLANTIC REGION
HEADQUARTERS, UNITED STATES ARMY GARRISON, FT CAMPBELL
39 NORMANDY BOULEVARD
FORT CAMPBELL, KENTUCKY 42223-5617

REPLY TO
ATTENTION OF

XXXX-XX

XX XXXX XXXX

Ammunition and Explosives Safety
ARMS ROOM EXPLOSIVES STORAGE SITE LICENSING SOP

<u>SUBJECT</u>	<u>PARAGRAPH</u>
Purpose	1
Scope	2
Policy	3
Responsibilities	4
Storage Configuration	5
How to Request an Explosives Storage License	6
Posting Requirements	7
Renewing Expired Licenses	8
References	9

APPENDIX

- Appendix C: Army Explosive Safety Course (DA PAM 385-64 Figure 1-1)
- Appendix D: Storage Site Distance Worksheet for Explosive Storage License. (FC Form 133)
- Appendix E: Deviation Approval and Risk Acceptance (DARAD) Form (DA Form 7632)
- Appendix F: Risk Management Worksheet for HCD 1.4 Items. (FC Form 4162)
- Appendix G: DA Form 4604-R, Security Construction Statement.
- Appendix H: Unit Arms Room Licensing Requirement Checklist FC Form 385
- Appendix I: Arms Room Explosives Storage Site Licensing SOP

1. PURPOSE.

a. This SOP is established to aid commanders in requesting a local explosives storage site license for their arms rooms to store "Limited Quantities" of ammunition to support operational missions. Operational missions are defined as missions associated with war or peacetime operations in which the consequences of an action justify the risk of loss of equipment and personnel. The qualifier "Operational Necessity" is intended to provide commanders the flexibility to ensure mission performance without a waste of resources. **It does not allow such storage for convenience.** The storage of **ceremonial** ammunition is not considered an operational necessity; however, a limited quantity of Hazard Class and Division (HCD) 1.3 (105mm blank) and HCD 1.4 (blank rifle) may be stored in an arms room for a specific amount of time when a unit has funeral or salute battery detail.

b. Commanders are authorized to store only HCD 1.3 and 1.4 items. All ceremonial ammunition (HCD 1.3 & 1.4) stored will not exceed 100 pounds net explosive weight (NEW) or one full outer pack of ammunition.

c. Units or facilities requesting the storage of ammunition or explosives other than those mentioned above must contact the Division Safety Office (DSO) for requirements. All explosive storage must conform to Department of Defense (DOD) and Army standards for explosives safety.

2. SCOPE. Applies to all units assigned/attached to Fort Campbell, KY.

3. POLICY. It is the policy of the Department of the Army and Fort Campbell to:

a. Provide the maximum possible protection to personnel and property from the dangerous effects of accidents involving ammunition and explosives.

b. Limit exposure to a minimum number of persons, for a minimum amount of time, to the minimum quantity of ammunition and explosives consistent with safe and efficient operations.

c. Comply with DOD and Army ammunition and explosives safety standards.

4. RESPONSIBILITIES.

a. MUC/SUC Commander(s).

(1) The MUC/SUC Commander is responsible for initiating the request for an explosive storage site license through their headquarters to the DSO via their BCT/BDE Safety Manager ensuring the appropriate forms mentioned in paragraph six of this SOP are completed and accompany the request.

(2) Ensure all the items identified in paragraph seven of this SOP are posted in the appropriate location.

(3) Ensure all arms room personnel are briefed annually concerning the limitations of the explosive storage site license (item 10 of the license).

(4) Ensure a copy of the DA Form 581 (Issue Document) which places the ammunition on the unit property book or Hand Receipt is available at the storage site.

(5) Accountability and inventory requirements are the responsibility of the owning unit, as a minimum, on a monthly basis, as part of the monthly sensitive item inventory.

b. MUC/SUC Commanders. Act as the approving authority for all subordinate command requests for arms room explosive storage site licenses. The MUC/SUC Commander signs the FC Form 133 (Storage Site Distance Verification) Explosive Storage Limits License and the FC Form 4162 (Risk Management Worksheet) or DD Form 2977 (Deliberate Risk Assessment Worksheet). MUC/SUC Rear Detachment Commanders must attach a copy of their Assumption of Command orders to facilitate the licensing process during deployments.

c. 101st Division Safety Office (DSO).

(1) Manages the Fort Campbell ammunition and explosives license process.

(2) Coordinates review of license request with units, Facility Engineers and Quality Assurance Specialist Ammunition Surveillance (QASAS).

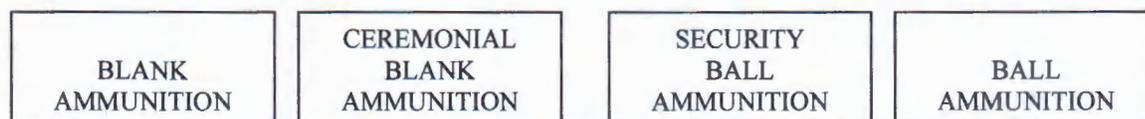
(3) Returns all documents with appropriate signatures to the requesting unit for implementation and use.

5. STORAGE CONFIGURATION.

a. All small arms ammunition stored in unit areas must be stored in the unit arms room vault. The ammunition must be stored in its original container and packaging configuration; however, arms rooms

that support **security** forces or police (military, civilian and contractor) may have one outer pack of each caliber of small arms ammunition open for use. Additionally, ammunition must be stored in a locked metal cabinet or container to allow for additional security and separation of material. The quantity of ammunition stored must not exceed the approved amount authorized on the Explosive Site License (FC Form 133, Storage Site Distance Verification). A copy of the original DA Form 581 (Issue Document) or Hand Receipt shall be available at the storage site.

b. There could be an occasion when blank ammunition will have to be stored with ball ammunition of the same caliber. When this occurs, it may be stored in the same vault but, the blank, ceremonial, security and ball ammunition will be kept separate and one of the following signs designating the difference must be posted on the stack that it applies to:



6. HOW TO REQUEST AN EXPLOSIVE STORAGE SITE LICENSE. Requests for storage site licenses must be approved by memorandum first through battalion/company then MUC/SUC commands prior to submission to the DSO. Enclosed with the memorandum will be the following:

a. Risk Management Worksheet. Use the Appendix A example to prepare a **Risk Management Worksheet (FC Form 4162) or Deliberate Risk Assessment Worksheet (DD Form 2977)** used for storing all items (blank, ceremonial, security or ball). Units will use the example provided and adjust as necessary. HCD 1.4 items must state what the ammunition will be used for (i.e. security or ceremonial), number of rounds, DODIC and must state the number of 105mm blank rounds that will be stored. **NOTE: Only one full pack may be stored in each licensed vault.** The person who is responsible for accepting the risk must sign item #14; this is the MUC/SUC Commander.

b. FC Form 133. Use Appendix B to prepare a **FC Form 133 (Storage Site Distance Verification)**. Complete items as shown on the example. Item #14 must be signed by the MUC/SUC commander. Send the form to the ISO for Verification and will review it and send forward to the Division Safety Office to have the commander sign then return it for posting. **NOTE: A representative from the ISO or Quality Assurance Specialist Ammunition Surveillance (QASAS) may require a site visit prior to signing any site license.**

c. Enclose a signed copy of the DA Form 4604-R (Security Construction Statement) for each vault you wish to license for storage of ammunition. **NOTE: The DA Form 4604-R must have the current unit designation AND be signed within the past 5 years. They expire every 5 years. Units are responsible for acquiring and maintaining a copy of their DA Form 4604-R.** The MUC/SUC Physical Security Officer (S-2) can assist in the completion of this form.

7. POSTING REQUIREMENTS.

a. FC Form 4162 (Risk Management Worksheet) or DD Form 2977 (Deliberate Risk Assessment Worksheet) outside the vault.

b. FC Form 133 (Storage Site Distance Verification) outside the vault.

c. "NO SMOKING" signs inside and outside the vault.

d. Post a Fire Symbol 3 (for salute rounds) or 4 (security ammunition) sign on the outside of the building, vault door and on the container that the ammunition is stored in (if both are stored use Fire Symbol 3). When ammunition is no longer being stored, remove the fire symbol from the vault door and the exterior of the building.

e. In addition to the postings, two 10 BC or greater Multi-Purpose, Dry Chemical Fire Extinguishers will be mounted inside or close to the arms room vault.

8. REQUESTS FOR LICENSE RENEWALS. MUC/SUC Commanders should request a new storage license when they wish to change the amount or type of munitions stored. The procedures for requesting a renewal license are the same as the initial request. Explosive site licenses will expire 90 days after the approving MUC/SUC commander changes command.

9. REFERENCES.

a. AR 385-10, Chapter 5, The Army Safety Program, 27 Nov 2013.

b. DA Pam 385-64, Chapters 5, para 5-2 and 9, Ammunition and Explosives Safety Standards, (RAR) 1 Oct 2013.

c. FORSCOM Reg 700-4, Ammunition, 1 May 00.

10. POINTS OF CONTACT Brigade Safety Manager 798-xxxx, Brigade Ammunition Officer 956-xxxx.

OFFICIAL:

JOHN I. DOE
COL, IN
Commanding

DISTRIBUTION: A

Appendix G
Example of DA Form 4162

MISSION/TASK		PAGE 1 OF 1	
<p>(For use of this form see CAM Regulation 385-5. The purpose of this form is Division Safety Office)</p> <p>RISK MANAGEMENT WORKSHEET</p>			
<p>1. MISSION/TASK Temporary Storage of Ammunition in Unit Arms Rooms BUILDING Arms Room No#</p>		<p>2. BEGIN DTG 050001 APR 13</p> <p>END DTG 042359 APR 16</p>	<p>3. DATE PREPARED</p>
<p>4. PREPARED BY (Rank, Name, Duty Position)</p>		<p>BCT/BN/CO/TRP SAFETY/AMMO</p>	
<p>5. HAZARDS</p>	<p>6. INITIAL RISK WITH SEVERITY AND PROBABILITY</p>	<p>7. CONTROLS</p>	<p>8. RESIDUAL RISK WITH SEVERITY AND PROBABILITY</p>
<p>Storage of ceremonial ammunition in unit arms room (e.g., parades, gun salutes).</p>	<p>M, II, D</p>	<p>A limited quantity of HCD 1.3 and HCD 1.4 ceremonial ammunition (e.g., 7.5mm blank, 105mm blank) may be stored in unit arms rooms. The amount of HCD 1.3 and HCD 1.4 stored will not exceed the lesser of 100 pounds net explosive weight (NEW) or one M1 outer pack of ammunition not to exceed 7 days.</p>	<p>L, III, E</p>
<p>Storage of limited quantities of Operational Load, Small Arms Ammunition (i.e., the amount required to support immediate training/mission needs).</p>	<p>M, II, D</p>	<p>A limited quantity of HCD 1.4S, Operational Load, Small Arms Ammunition, (not to exceed 20 pounds Net Explosive Weight) can be stored in the unit arms room until the mission/training is completed.</p>	<p>L, III, E</p>
<p>Storage of limited quantities of blank ammunition to meet immediate training/mission requirements (i.e., funeral detail).</p>	<p>M, II, D</p>	<p>A limited quantity of HCD 1.4S, 5.56mm Blank Ammunition, (not to exceed 1140 rounds) can be stored in the unit arms room for a period not to exceed 30 days.</p>	<p>L, III, E</p>
<p>9. MISSION/TASK RISK AFTER CONTROLS ARE IMPLEMENTED</p> <p><input checked="" type="checkbox"/> LOW <input type="checkbox"/> MEDIUM <input type="checkbox"/> HIGH <input type="checkbox"/> EXTREMELY HIGH</p>		<p>12. COMMAND REVIEW (Name and Rank)</p> <p>BCT/BN/CO/TRP COMMANDERS</p>	<p>15. COMMAND APPROVING AUTHORITY</p>
<p>10. HOW IMPLEMENTED</p>		<p>11. WHOM/WHY SUPERVISED</p>	<p>14. CONTROLS EFFECTIVE</p>
<p>Ensure that ceremonial ammunition is stored in unit arms room only when needed for mission essential training and returned to the ASP when training/mission is complete.</p>		<p>Commanders, Ammunition NCOs and Physical Security Officers ensure prescribed round limits are not exceeded and ammunition is returned to the ASP upon completion of training.</p>	<p>Commanders, Ammunition NCOs and Physical Security Officers ensure prescribed round limits are not exceeded and ammunition is returned to the ASP upon completion of mission or training.</p>
<p>Ensure that amounts of Operational Load, Small Arms Ammunition, are returned to the ASP when training/mission is complete.</p>		<p>Commanders, Ammunition NCOs and Physical Security Officers ensure prescribed round limits are not exceeded and ammunition is returned to the ASP upon completion of mission or training.</p>	<p>Commanders, Ammunition NCOs and Physical Security Officers ensure prescribed round limits are not exceeded and ammunition is returned to the ASP upon completion of mission or training.</p>
<p>Ensure that amounts of HCD 1.4S, 5.56mm Blank Ammunition, are returned to the ASP when training/mission is complete.</p>		<p>Commanders, Ammunition NCOs and Physical Security Officers ensure prescribed round limits are not exceeded and ammunition is returned to the ASP upon completion of mission or training.</p>	<p>Commanders, Ammunition NCOs and Physical Security Officers ensure prescribed round limits are not exceeded and ammunition is returned to the ASP upon completion of mission or training.</p>

(PREVIOUS EDITIONS ARE OBSOLETE)

Appendix I
Example of DA form 4604

SECURITY CONSTRUCTION STATEMENT

For use of this form see AR 190-11; the proponent agency is PMG.

INSTRUCTIONS

This form will be prepared in three copies. The original will be maintained permanently in the files of the individual signing the form. The first copy will be maintained permanently in the using unit/organizational files. The second copy will be filed permanently in the arms/ammunition storage facility. All entries except item 7 will be typewritten.

1. THE CONSTRUCTION OF THIS FACILITY CONFORMS TO THE CRITERIA OF AR 190-11 WHICH IS IN EFFECT ON THIS DATE EXCEPT AS INDICATED HEREON

2. ROOM AND BUILDING NUMBER, STREET AND INSTALLATION ADDRESS

3. THIS APPLIES TO

- a. AN EXISTING STRUCTURE
- b. CONSTRUCTION OF NEW FACILITY
- c. MODIFICATION OF EXISTING FACILITY (Explain)

4. NAME OF OFFICIAL IN ITEM 7 BELOW	GRADE	6. ADDRESS OF OFFICIAL
5. ORGANIZATION		

7. SIGNATURE

DATE SIGNED

DA FORM 4604, SEP 2006

Appendix J
 Unit Arms Room Licensing Requirement Checklist FC Form 385

UNIT ARMS ROOM LICENSING REQUIREMENT CHECKLIST Ammunition Storage in Unit Arms Room Requires an Approved Explosive Storage License <small>(For use of this form see CAM Reg 385-10, Proponent for this form is the ISO)</small>		
Unit:	<input style="width: 100%;" type="text"/>	
Location:	<input style="width: 100%;" type="text"/>	
POC:	<input style="width: 45%;" type="text"/>	Phone: <input style="width: 45%;" type="text"/>
Date of Inspection:	<input style="width: 100%;" type="text"/>	
NOTE: All potential discrepancies may not be addressed with a checkpoint below. See Remarks. Basic references used for this inspection are DA PAM 385-64, SB 742-1, DA PAM 710-2-1, MIL STD 1168C, MIL STD 129p, CAM Reg 385-9, SB 742-1, and AR 190-11.		
ITEM	Satisfactory	Unsatisfactory
1. Is the correct fire symbol posted on entrance to arms rooms containing am-munition? If no ammunition is storage are signs covered or removed? <i>(DA PAM 385-64, para 6-14c)</i>	<input type="checkbox"/>	<input type="checkbox"/>
2. Commanders may authorize, in writing, the storage of small quantities of am-munition in unit arms storage rooms for operational purposes. This authorization will be posted in the arms room. <i>(AR 190-11, para 5-8c)</i>	<input type="checkbox"/>	<input type="checkbox"/>
3. Is there a valid explosive license for Arms Room? <i>(FC Form 133) (Good for 5 years IAW CAM Reg 385-10)</i>	<input type="checkbox"/>	<input type="checkbox"/>
4. Is there a valid Security Construction Statement (DA Form 4604)? <i>(Good for 5 years IAW CAM Reg 385-10). (AR 190-11, Para 2-2d)</i>	<input type="checkbox"/>	<input type="checkbox"/>
5. Is there a current Hazard Analysis and Risk Assessment signed by the current commander? <i>(DA PAM 385-64, Para 2-2 & DA PAM 385-30)</i>	<input type="checkbox"/>	<input type="checkbox"/>
6. Is there a current SOP covering ammunition storage and handling? <i>(AR 385-64, para 2-4)</i>	<input type="checkbox"/>	<input type="checkbox"/>
7. Is there 2 each serviceable 10:BC Fire Extinguishers within the arms room? <i>(CAM Reg 385-9 ref. CAM Reg 385-10, para 6-4, d)</i>	<input type="checkbox"/>	<input type="checkbox"/>
8. Is there a NO SMOKING sign posted at the entrance? <i>(DA PAM 385-64, para 6-3,b,(7))</i>	<input type="checkbox"/>	<input type="checkbox"/>
9. Is there a record of monthly inventories being conducted? <i>(DA PAM 710-2-1, para 9-10, b)</i>	<input type="checkbox"/>	<input type="checkbox"/>
10. Do the supporting documents (Hand Receipt, property book, etc.) match the quantities and lot numbers of munitions on hand? <i>(DA PAM 710-2-1, para 9-10,b,(1))</i>	<input type="checkbox"/>	<input type="checkbox"/>
11. Do the head stamps on the small arms concur with LOT numbers on record and the lot numbers indicated on the outer pack? <i>(MIL-STD-1168C, para 4, & MIL-STD1168B, 3.4 12.)</i>	<input type="checkbox"/>	<input type="checkbox"/>
12. Are the ammunition cans or boxes marked properly with the NSN, DODIC, QTY, NOMENCLATURE, and LOT number? <i>(SB 742-1, MIL STD 129P, Chap 4)</i>	<input type="checkbox"/>	<input type="checkbox"/>
13. Was ammunition cans or boxes stored in racks/containers fastened to the structure or fastened together in groups totaling more than 500 pounds? <i>(AR 190-11, Para 5-8c (2), & para 4-2,b,(4))</i>	<input type="checkbox"/>	<input type="checkbox"/>
14. Is the ammunition separated by DODIC and LOT number in individual container and is there adequate ventilation throughout the stacks? <i>(DA PAM 385-64, Para 3-1,b)</i>	<input type="checkbox"/>	<input type="checkbox"/>

15. Is the ammunition in a serviceable condition (SB 742-1)	<input type="checkbox"/>	<input type="checkbox"/>
16. Is there at LEAST 18 inches between the ammunition and any heat source like heaters, radiators hot water pipes, etc? (DA PAM 385-64, para 3-1, b)	<input type="checkbox"/>	<input type="checkbox"/>
17. Is the arms room itself neat and orderly, with good housekeeping practices? No excess trash, dirt oily rags, etc. (DA PAM 385-64, Para 2-7)	<input type="checkbox"/>	<input type="checkbox"/>

***NOTE 1: If any "NO"s are recorded above, ammunition license will not be issued.**

***NOTE 2: A copy of all the documents listed above will be given to the installation explosive Safety Manager and the Division Safety Office at the time of the safety inspection.**

REMARKS:

Results of Arms Room Inspection: PASS FAIL

If Failed, Date of re-inspection:

Printed name of Inspector (QASAS, BDE Ammo Officer)

Printed Name of Inspector (0018 or Appropriate Unit Safety Officer)

Any questions, concerns, or comments concerning this inspection can be addressed by calling the QASAS at 798-2619/6529 or the Installation Safety Office Explosive Safety Officer at 798-4428.