



# EXPLOSIVES SAFETY REQUIREMENTS USE OF COMMERCIAL EXPLOSIVES ON DA SITES

PAUL ARMSTRONG  
USACE  
OMAHA DISTRICT



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# USE OF COMMERCIAL EXPLOSIVES ON DA SITES

DA PAM 385-64 Chapter 21

“Using commercial explosives, other than for production and Research, Development, Test, & Evaluation (RDTE), is prohibited unless commercial explosives are mission essential and specifically authorized by the installation’s ACOM, ASCC or DRU commander.”



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# PROCEDURES

- a.* Obtain approval to use commercial explosives before purchase.
- b.* The HD and CG information will be requested and should be received before purchase.
- c.* When commercial explosives are received before USATCES assigns HD and CG information, commercial explosives will be stored as HD 1.1, CG L.
- d.* The NEW will be calculated based on the weight of the explosive or TNT equivalent, whichever is larger.



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# PROCEDURES

e. Approval request to store or handle commercial explosives will be sent through command channels to the installation's ACOM, ASCC or DRU approving authority.

f. When the requesting unit is a tenant activity, the request will be sent through the unit's command channels and the host installation's ACOM, ASCC or DRU approving authority must concur with the approval.”



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# PROCEDURES

g. The HD and CG will be obtained by providing the following information to Director, USATCES.

- (1) Documentaiton of an HD assignment by a competent authority; (DOT)
- (2) Complete item nomenclature.
- (3) Part number, drawing number, or something that uniquely identifies the item in its storage configuration.
- (4) Explosives or hazardous composition and weight. A chart or listing of hazardous materials with their weights is preferred.
- (5) Packaging data.
- (6) Number of independent safety features if the item is a fuze, contains a fuze, or has features similar to a fuze.
- (7) Any other available information that may reflect the function or effects of the explosive.
- (8) A POC and telephone number for the responsible Army organization.



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# GETTING THE AFFECTED RESS APPROVED

RESS is drafted and reviewed by the managing activity and installation



RESS with approval memorandum is sent to USATCES for review



Installation commander approves submission of the RESS to USATCES, and may document approval to use/store commercial explosives within this memorandum

Installation concurrently sends commercial explosives authorization memorandum to command authority



Upon USATCES approval the RESS is sent to DDESB for final approval



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# EXAMPLE MEMO TO THE INSTALLATION COMMANDER

MEMORNDUM FOR Commander, Pueblo Chemical Depot, Building 1, 45825 Highway 96 East, Pueblo, Colorado 81006

SUBJECT: Handling and Use of Commercial Explosives; Resource Conservation and Recovery Act (RCRA) Facility Investigation (RFI) at the Solid Waste Management Units (SWMUs) 3 and 52, Pueblo Chemical Depot, Pueblo, CO

1. References:

- a. Department of Army Pamphlet 385-64, Ammunition and Explosives Safety Standards, Chapter 21 – Storage and handling of commercial explosives.
- b. Department of the Army Memorandum of 3 April 2017, Subject: Army and Department of Defense Explosive Safety Board (DDESB) Final Approval ESP, Pueblo Chemical Depot – SWMU 3, Pueblo, CO, February 2017. [USATCES MEC File Number 3564]
- c. Department of the Army Memorandum of 13 April 2017, Subject: DDESB Approval of ESP, Facility Investigation Solid Waste Management Unit 52, Pueblo Chemical Depot, Pueblo, CO (USATCES MEC File Number 3565]

2. The purpose of this memorandum is to request approval for the handling and use of commercial explosives IAW provisions of DA PAM 385-64. The U.S. Corps of Engineers, Omaha District will be conducting a RCRA Facility Investigation at two conventional Munitions and Explosives of Concern (MEC) sites at PCD. We are requesting approval for the handling and use of commercial explosives that may be required during this investigation. Commercial explosives might be required for the disposal of Material Potentially Presenting an Explosive Hazard (MPPEH)/MEC.

3. Commercial explosives will be delivered to the work site area as needed by Buckley Powder Company and a 100% inventory will be conducted upon delivery. Commercial explosives will be either used on the day of delivery or stored in a Bureau of Alcohol, Tobacco, Firearms and Explosives approved Type II Explosive Storage Magazine at the worksite until needed. All Stored explosives will be inspected weekly and inventoried monthly. Enclosure 1 contains a list of donor explosives potentially required during the RFI's at SWMU's 3 and 52. At no time will the Net Explosive Weight (NEW) exceed 100 pounds at SWMU 52 and 10 pounds at SWUM 3. Safety Data Sheets (SDSs) for the items listed in the table are submitted as Enclosure 2.

4. The point of contract for this action is Mr. Matthew P. Brennan, Project Manager, at (719) 549-4131, email: [matthew.p.brennan@usace.army.mil](mailto:matthew.p.brennan@usace.army.mil).



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# EXAMPLE MEMO TO THE INSTALLATION COMMANDER

MEMORNDUM FOR Commander, Pueblo Chemical Depot, Building 1, 45825 Highway 96 East, Pueblo, Colorado 81006

SUBJECT: Handling and Use of Commercial Explosives; Resource Conservation and Recovery Act (RCRA) Facility Investigation (RFI) at the Solid Waste Management Units (SWMUs) 3 and 52, Pueblo Chemical Depot, Pueblo, CO

Memo is addressed to Installation commander, from tenant activity (USACE)

- Ammunition and Explosives Safety  
ing of commercial explosives.

of 3 April 2017, Subject: Army and  
rd (DDESB) Final Approval ESP, Pueblo

Chemical Depot – SWMU 3, Pueblo, CO, February 2017. [USATCES MEC File Number 3564]

c. Department of the Army Memorandum of 13 April 2017, Subject: DDESB Approval of ESP, Facility Investigation Solid Waste Management Unit 52, Pueblo Chemical Depot, Pueblo, CO (USATCES MEC File Number 3565]

2. The purpose of this memorandum is to request approval for the handling and use of commercial explosives IAW provisions of DA PAM 385-64. The U.S. Corps of Engineers, Omaha District will be conducting a RCRA Facility Investigation at two conventional Munitions and Explosives of Concern (MEC) sites at PCD. We are requesting approval for the handling and use of commercial explosives that may be required during this investigation. Commercial explosives might be required for the disposal of Material Potentially Presenting an Explosive Hazard (MPPEH)/MEC.

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4. The point of contract for this action is Mr. Matthew P. Brennan, Project Manager, at (719) 549-4131, email: [matthew.p.brennan@usace.army.mil](mailto:matthew.p.brennan@usace.army.mil).



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# EXAMPLE MEMO TO THE INSTALLATION COMMANDER

MEMORANDUM FOR Commander, Pueblo Chemical Depot, Building 1, 45825 Highway 96 East, Pueblo, Colorado 81006

SUBJECT: Handling and Use of Commercial Explosives; Resource Conservation and Recovery Act (RCRA) Facility Investigation (RFI) at the Solid Waste Management Units (SWMUs) 3 and 52, Pueblo Chemical Depot, Pueblo, CO

1. References:

a. Department of Army Pamphlet 385-64, Ammunition and Explosives Safety Standards, Chapter 21 – Storage and handling of commercial explosives.

b. Department of the Army Memorandum of 3 April 2017, Subject: Army and Department of Defense Explosive Safety Board (DDESB) Final Approval ESP, Pueblo Chemical Depot – SWMU 3, Pueblo, CO, February 2017. [USATCES MEC File Number 3564]

c. Department of the Army Memorandum of 13 April 2017, Subject: DDESB Approval of ESP, Facility Investigation Solid Waste Management Unit 52, Pueblo Chemical Depot, Pueblo, CO (USATCES MEC File Number 3565]

References should include  
Explosives Safety Submissions

request approval for the handling and use of PAM 385-64. The U.S. Corps of is conducting a RCRA Facility Investigation at two conventional munitions and Explosives of Concern (MEC) sites at PCD. We are requesting approval for the handling and use of commercial explosives that may be required during this investigation. Commercial explosives might be required for the disposal of Material Potentially Presenting an Explosive Hazard (MPPEH)/MEC.

3. Commercial explosives will be delivered to the work site area as needed by Buckley Powder Company and a 100% inventory will be conducted upon delivery. Commercial explosives will be either used on the day of delivery or stored in a Bureau of Alcohol, Tobacco, Firearms and Explosives approved Type II Explosive Storage Magazine at the worksite until needed. All Stored explosives will be inspected weekly and inventoried monthly. Enclosure 1 contains a list of donor explosives potentially required during the RFI's at SWMU's 3 and 52. At no time will the Net Explosive Weight (NEW) exceed 100 pounds at SWMU 52 and 10 pounds at SWUM 3. Safety Data Sheets (SDSs) for the items listed in the table are submitted as Enclosure 2.

4. The point of contract for this action is Mr. Matthew P. Brennan, Project Manager, at (719) 549-4131, email: [matthew.p.brennan@usace.army.mil](mailto:matthew.p.brennan@usace.army.mil).



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# EXAMPLE MEMO TO THE INSTALLATION COMMANDER

MEMORANDUM FOR Commander, Pueblo Chemical Depot, Building 1, 45825 Highway 96 East, Pueblo, Colorado 81006

SUBJECT: Handling and Use of Commercial Explosives; Resource Conservation and Recovery Act (RCRA) Facility Investigation (RFI) at the Solid Waste Management Units (SWMUs) 3 and 52, Pueblo Chemical Depot, Pueblo, CO

1. References:

a. Department of Army Pamphlet 385-64, Ammunition and Explosives Safety Standards, Chapter 21 – Storage and handling of commercial explosives.

b. Department of the Army Memorandum of 3 April 2017, Subject: Army and Department of Defense Explosive Safety Board (DDESB) Final Approval ESP, Pueblo Chemical Depot – SWMU 3, Pueblo, CO, February 2017. [USATCES MEC File Number 3564]

Summarize the extent and purpose of use of commercial explosives on the site, and whether they will be delivered on an as-needed basis or stored on site.

c. Department of the Army Memorandum of 12 April 2017, Subject: DDESB Approval for the handling and use of Commercial Explosives at Pueblo Chemical Depot, The U.S. Corps of Engineers, Pueblo Chemical Depot, Pueblo, CO, February 2017. [USATCES MEC File Number 3564]

for the handling and use of Commercial Explosives at Pueblo Chemical Depot, The U.S. Corps of Engineers, Pueblo Chemical Depot, Pueblo, CO, February 2017. [USATCES MEC File Number 3564]

ity Investigation at two sites at PCD. We are reviewing the use of commercial explosives that may be required during this investigation. Commercial explosives might be required for the disposal of Material Potentially Presenting an Explosive Hazard (MPPEH)/MEC.

3. Commercial explosives will be delivered to the work site area as needed by Buckley Powder Company and a 100% inventory will be conducted upon delivery. Commercial explosives will be either used on the day of delivery or stored in a Bureau of Alcohol, Tobacco, Firearms and Explosives approved Type II Explosive Storage Magazine at the worksite until needed. All Stored explosives will be inspected weekly and inventoried monthly. Enclosure 1 contains a list of donor explosives potentially required during the RFI's at SWMU's 3 and 52. At no time will the Net Explosive Weight (NEW) exceed 100 pounds at SWMU 52 and 10 pounds at SWUM 3. Safety Data Sheets (SDSs) for the items listed in the table are submitted as Enclosure 2.

4. The point of contact for this action is Mr. Matthew P. Brennan, Project Manager, at (719) 549-4131, email: [matthew.p.brennan@usace.army.mil](mailto:matthew.p.brennan@usace.army.mil).



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# RESS INSTALLATION APPROVAL MEMORANDUM



MEMO IS  
ATTENTION OF

DEPARTMENT OF THE ARMY  
US ARMY INSTALLATION MANAGEMENT COMMAND  
HEADQUARTERS, UNITED STATES ARMY GARRISON, FORT POLK  
8881 WARRIOR TRAIL, BLDG 360  
FORT POLK, LOUISIANA 79499-5338

FEB 24 2017

MEMORANDUM FOR Commander, U.S. Army Corps of Engineers,  
Munitions Center of Expertise (USACE CX-MM), PO Box 2600, Hun  
35809

SUBJECT: Explosives Safety Submission (ESS), Munitions and Ex  
Removal Action, Military Munitions Response Program, Castor 5 Tra  
001-R-01) & Blue Hole Recreation Area (Polk-004-R-01) Removal A  
Louisiana

1. Reference Department of Defense Manual 6055.09-M, DoD Ann  
Explosives Safety Standards, February 29, 2008, administratively re  
2010.

2. The U.S. Army Garrison Fort Polk approves this ESS.

3. The Installation Master Planner has reviewed and concurs with th

4. I approve the action and security protocols for the contractor to  
commercial munitions onto Castor 5 Training Area (Polk-001-R-01)  
Recreation Area (Polk-004-R-01), Fort Polk, subject to the technical  
ESS by USATCES and U.S. Department of Defense Explosives Sa  
(DDESB). Such approval is to store those commercial munitions in  
Alcohol, Tobacco, Firearms and Explosives (BATFE) approved Typ  
Storage Magazine at the worksite.

5. Request USACE submit this document through the review and approval chain for  
final review and approval and request interim approval from USATCES.

6. Point of contact for this action is Dr. Charles Stagg, Chief, Environmental,  
commercial (337) 531-7008; DSN: 863, email: [charles.h.stagg.civ@mail.mil](mailto:charles.h.stagg.civ@mail.mil).

  
DAVID G. ATHEY  
COL, AR  
Commanding

“I approve the action and security protocols for the contractor to transport commercial munitions onto Castor 5 Training Area (Polk-001-R-01) & Blue Hole Recreation Area (Polk-004-R-01), Fort Polk, subject to the technical approval of the ESS by USATCES and U.S. Department of Defense Explosives Safety Board (DDESB). Such approval is to store those commercial munitions in a Bureau of Alcohol, Tobacco, Firearms and Explosives (BATFE) approved Type II Explosive Storage Magazine at the worksite.”



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# EXAMPLE COMMAND APPROVAL REQUEST



DEPARTMENT OF THE ARMY  
U.S. ARMY CHEMICAL MATERIALS ACTIVITY  
PUEBLO CHEMICAL DEPOT, BUILDING 1  
45825 HIGHWAY 96 EAST  
PUEBLO, COLORADO 81006-9330

CMPC-SOH

MEMORANDUM THRU Director, US Army Chemical Materials Activity (AMSCM-MO),  
E4595 Hoadley Road, Aberdeen Proving Ground, MD 21010-5424

FOR Commander, US Army Materiel Command (AMCPE-SF/) Building 7612 Cardinal  
Road, Redstone Arsenal, AL 35898

SUBJECT: Request Approval to Accept and Store Commercial Explosives Required for  
Military Munitions Response Program (MMRP) Investigation and Remediation at Pueblo  
Chemical Depot (PCD)

## 1. References:

- a. Department of the Army Pamphlet 385-64, Ammunition and Explosives Safety Standards, Chapter 21 – Storage and handling of commercial explosives
- b. Department of the Army Memorandum of 28 February 2017, Subject: Request for Submission of the Explosive Site Plan (ESP), Pueblo Chemical Depot – Solid Waste Management Unit (SWMU 3), Pueblo, CO, February 2017
- c. Department of the Army Memorandum of 3 April 2017, Subject: Army and Department of Defense Explosive Safety Board (DDESB) Final Approval ESP, Pueblo Chemical Depot – SWMU 3, Pueblo, CO, February 2017. [USATCES MEC File Number 3564]
- d. Department of the Army Memorandum of 28 February 2017, Subject: Request for Submission of the ESP, Pueblo Chemical Depot –SWMU 52, Pueblo, CO, February 2017
- e. Department of the Army Memorandum of 13 April 2017, Subject: DDESB Approval of ESP, Facility Investigation Solid Waste Management Unit 52, Pueblo Chemical Depot, Pueblo, CO (USATCES MEC File Number 3565)
- f. Department of the Army Memorandum of 20 March 2017, Subject: Final Chemical Warfare Materiel (CWM) Site Plan (CSP) Solid Waste Management Units 12 and 13, PCD, Pueblo, CO

2. Commercial explosives will be required for detonation of munitions and explosives of concern (MEC) identified during investigation of the above referenced SWMU's.

SUBJECT: Request Approval to Accept and Store Commercial Explosives Required for Military Munitions Response Program (MMRP) Investigation and Remediation at Pueblo Chemical Depot (PCD)

3. Per reference 1a, PCD requests approval to receive and store select commercial explosives required to support MMRP operations at PCD.
4. References 1c and 1e are the DDESB approvals of the SWMU 3 and 52 ESP prepared to support Supplemental Resource Conservation and Recovery Act (RCRA) Facility Investigations confirming the presence/absence of MEC source area(s) and if MEC is present defining the nature and extent of potential MEC area(s).
5. DDESB approval of the CSP prepared to support the RFI and Corrective Measures Study at SWMU's 12 and 13 is pending.
6. Enclosure 1 is the commercial explosive data requirements. Enclosure 2 provides additional safety information for the commercial explosive component.
7. I approve the action and security protocols for the transport and storage of commercial explosives at Pueblo Chemical Depot SWMU's 3, 12, 13 and 52 subject to the ESP and CSP documents approved by USATCES and DDESB. Such approval is to store commercial explosives in a Bureau of Alcohol, Tobacco, Firearms and Explosives approved Type II Explosive Storage Magazine at the worksite.
8. The point of contact for this action is Mr. Randy J. Wojtala, Safety and Occupational Health Manager, U.S. Army Pueblo Chemical Depot at (719) 549-4533, email: [randy.j.wojtala.civ@mail.mil](mailto:randy.j.wojtala.civ@mail.mil).

Encl

CHRISTOPHER A. GRICE  
COL, CM  
Commanding

cc:  
PCD Document Tracking Center



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# EXAMPLE COMMAND APPROVAL REQUEST



DEPARTMENT OF THE ARMY  
U.S. ARMY CHEMICAL MATERIALS ACTIVITY  
PUEBLO CHEMICAL DEPOT, BUILDING 1  
45825 HIGHWAY 96 EAST  
PUEBLO, COLORADO 81006-9330

CMPC-SOH

MEMORANDUM THRU Director, US Army Chemical Materials Activity (AMSCM-MO),  
E4595 Hoadley Road, Aberdeen Proving Ground, MD 21010-5424

FOR Commander, US Army Materiel Command (AMCPE-SF/) Building 7612 Cardinal  
Road, Redstone Arsenal, AL 35898

SUBJECT: Request Approval to Accept and Store Commercial Explosives Required for  
Military Munitions Response Program (MMRP) Investigation and Remediation at Pueblo  
Chemical Depot (PCD)

1. References:

a. Department of the Army  
Standards, Chapter 21 – Storage

b. Department of the Army  
Submission of the Explosive Site  
Management Unit (SWMU 3), Pueblo, CO, February 2017

c. Department of the Army Memorandum of 3 April 2017, Subject: Army and  
Department of Defense Explosive Safety Board (DDESB) Final Approval ESP, Pueblo  
Chemical Depot – SWMU 3, Pueblo, CO, February 2017. [USATCES MEC File Number  
3564]

d. Department of the Army Memorandum of 28 February 2017, Subject: Request for  
Submission of the ESP, Pueblo Chemical Depot –SWMU 52, Pueblo, CO, February  
2017

e. Department of the Army Memorandum of 13 April 2017, Subject: DDESB  
Approval of ESP, Facility Investigation Solid Waste Management Unit 52, Pueblo  
Chemical Depot, Pueblo, CO (USATCES MEC File Number 3565)

f. Department of the Army Memorandum of 20 March 2017, Subject: Final Chemical  
Warfare Materiel (CWM) Site Plan (CSP) Solid Waste Management Units 12 and 13,  
PCD, Pueblo, CO

2. Commercial explosives will be required for detonation of munitions and explosives of  
concern (MEC) identified during investigation of the above referenced SWMU's.

SUBJECT: Request Approval to Accept and Store Commercial Explosives Required for  
Military Munitions Response Program (MMRP) Investigation and Remediation at Pueblo  
Chemical Depot (PCD)

3. Per reference 1a, PCD requests approval to receive and store select commercial  
explosives required to support MMRP operations at PCD.

4. References 1c and 1e are the DDESB approvals of the SWMU 3 and 52 ESP  
prepared to support Supplemental Resource Conservation and Recovery Act (RCRA)  
Facility Investigations confirming the presence/absence of MEC source area(s) and if  
MEC is present defining the nature and extent of potential MEC area(s).

5. DDESB approval of the CSP prepared to support the RFI and Corrective Measures  
Study at SWMU's 12 and 13 is pending.

6. Enclosure 1 is the commercial explosive data requirements. Enclosure 2 provides  
additional safety information for the commercial explosive component.

7. I approve the action and security protocols for the transport and storage of  
commercial explosives at Pueblo Chemical Depot SWMU's 3, 12, 13 and 52 subject to  
P and CSP documents approved by USATCES and DDESB. Such approval is  
for the commercial explosives in a Bureau of Alcohol, Tobacco, Firearms and  
Explosives approved Type II Explosive Storage Magazine at the worksite.

point of contact for this action is Mr. Randy J. Wojtala, Safety and Occupational  
Manager, U.S. Army Pueblo Chemical Depot at (719) 549-4533, email:  
[wojtala.civ@mail.mil](mailto:wojtala.civ@mail.mil).

Request is submitted by the  
Installation to the Command  
Authority.

Encl

CHRISTOPHER A. GRICE  
COL, CM  
Commanding

cc:  
PCD Document Tracking Center



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# EXAMPLE COMMERCIAL EXPLOSIVES DATA



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# EXAMPLE COMMAND AUTHORIZATION



DEPARTMENT OF THE ARMY  
HEADQUARTERS, U.S. ARMY MATERIEL COMMAND  
4400 MARTIN ROAD  
REDSTONE ARSENAL, AL 35896-5000

AMCPE-SF

MEMORANDUM THRU Director, U.S. Army Chemical Materials Activity (AMSCM-D),  
E4595 Hoadley Road, Aberdeen Proving Ground, MD 21010-5424

FOR Commander, Pueblo Chemical Depot (CMPC-SOH), Building 1, 45825 Highway  
96 East, Pueblo, CO 81006-9330

SUBJECT: Approval to Handling and Use of Commercial Explosives; Resource  
Conservation and Recovery Act (RCRA) Store and Use Commercial Explosives on  
Pueblo Chemical Depot

## 1. References:

a. Department of Army Pamphlet 385-84, 24 May 2011, Ammunition and Explosives  
Safety Standards, Chapter 21 - Storage and Handling of Commercial Explosives.

b. Memorandum w/enclosures, CMPC-SOH, 20 July 2017, subject: Request  
Approval for Handling and Use of Commercial Explosives; Resource Conservation and  
Recovery Act (RCRA) Facility Investigation at Solid Waste Management Units  
(SWMUs) 3 and 52.

c. Memorandum w/enclosures, CMPC-SOH, 20 July 2017, subject: Request  
Approval for Handling and Use of Commercial Explosives; Resource Conservation and  
Recovery Act (RCRA) Facility Investigation/Corrective Measures Study (RFI/CMS) at  
the Solid Waste Management Units (SWMUs), East Chemical Munitions Burial Ground  
(SWMU 13) and the West Chemical Disposal Ground (SWMU 12).

2. The storage, handling, and use of the commercial explosives for use on Pueblo  
Chemical Depot in Facility Investigation/Corrective Measures Study (RFI/CMS) and at  
the Solid Waste Management Units (SWMUs) have been determined as mission  
essential and is approved.

3. The activity using the commercial explosives will comply with reference 1.a. Limit  
the Net Explosives Weight(s) of commercial explosives present in accordance with the  
approved Department of Defense Explosives Safety Board, Explosives Safety Site  
Plans and explosives storage licenses issued by the installation, the Installation  
Explosives Safety Management Program (ESMP). Prepare and execute a plan to

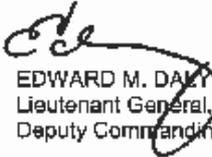
AMCPE-SF

SUBJECT: Approval to Handling and Use of Commercial Explosives; Resource  
Conservation and Recovery Act (RCRA) Store and Use Commercial Explosives on  
Pueblo Chemical Depot

dispose of all unused and/or unserviceable explosive material and residues, and  
participate in the Installation Commander's Explosives Safety Council.

4. Pueblo Chemical Depot will comply with the applicable data call elements of  
Headquarters, Department of the Army (HQDA) Execution (EXORD) 043-17 Campaign  
on Ammunition and Explosives (AE) Safety.

5. The Point of Contact for this action is Mr. Earle Chase, HQ AMC, G-1, Safety Office,  
(256) 450-6511, earle.g.chase.civ@mail.mil.



EDWARD M. DALY  
Lieutenant General, USA  
Deputy Commanding General



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## REFERENCES

- DoDM 6055.09M  
DoDI 4150.62
  - DoD Explosive Safety Manual
    - DoD Guidance on MPPEH Inspection Process
- DDESB TP-16  
DDESB TP-18
  - Primary Source for Protection Requirements
  - Minimum Qualification Standards for UXO Personnel
- Army PAM 385-63  
Army PAM 385-64
  - Range Safety
  - Explosive Safety
- USACE EM 200-1-15
  - Technical Guidance for MMR Actions
- USACE EM 385-1-97
  - Explosive Safety and Health Requirements
- USACE EP 75-1-3
  - Chemical Warfare Material Response Process
- USACE ER 385-1-95
  - Safety and Health for Operations Involving MEC



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# WHAT WOULD A UXO BRIEF BE WITHOUT...



**RECOGNIZE** – If you think you have seen something that looks like a UXO

**DO NOT TOUCH IT!!!**

**RETREAT** – Stop Work, Leave the Area.

**REPORT** – Notify Nearest Law Enforcement Agency

Describe its Size, Shape, and color along with where you saw it.

[www.denix.osd.mil/uxo](http://www.denix.osd.mil/uxo)



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QUESTIONS?



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