

## CHAPTER 14 EXPLOSIVES STORAGE

### 14-1. Introduction.

a. This chapter discusses the requirements for a temporary explosives storage facility for FUDS and BRAC/IRP sites.

(1) FUDS. Since FUDS normally do not have existing OE storage facilities, the UXO contractor will, when required by the government, establish a temporary OE magazine storage area. The magazine will be used to store OE awaiting destruction and/or explosive materials for use in destroying OE. If a storage facility exists at a FUDS, the contractor may use it for explosives storage, provided the owner agrees and the facility meets the minimum requirements set forth in this chapter.

(2) BRAC and IRP sites. Storage facilities normally exist at IRP sites, but do not always exist on BRAC sites. The contractor may use existing facilities on these sites if the MACOM approves a waiver to allow the storage of commercial explosives. To obtain this waiver, the contractor will provide a list of explosives to be used, including the DOT EX number, to the USAESCH OE Safety Group. The DOT EX number is issued by the DOT to identify that an explosive has been tested and assigned an accurate hazard classification in accordance with Title 49 CFR. This information will be relayed to USATCES so that a DOD Hazard Classification can be assigned in accordance with Chapter 16 of DA Pam 385-64, Ammunition and Explosives Safety Standards. The USAESCH OE Safety Group will use the DOD Hazard Classification to formally request a waiver from the MACOM. The contractor will be notified when the waiver is approved.

(3) Table 14.1 contains a listing of commercial explosive items that have been hazard classified by the United States Army Technical Center for Explosive Safety.

b. When government storage facilities are not available, they will be constructed or installed by the contractor using this chapter as guidance.

14-2. Temporary Storage Facility. Temporary storage facilities will meet the following requirements:

a. Magazines. When the contractor must establish temporary facilities, Type 2 magazines conforming to the standards set forth in Section 55.206 of ATFP 5400.7, Alcohol, Tobacco, and Firearms (ATF) Explosives Law and Regulations will be used.

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Table 14.1  
Department of Defense Hazard Classifications for Commercial Explosives\*

DOT EX #	Name	DOD Hazard Classification	Date Class.
9806054	Cord, detonating	1.1D	2 Dec 98
9803207	Detonator with fuse assembly	1.1B	12 Jan 99
9709010	Cap, blasting, electric instant	1.4B only when in DOT packaging	27 Jan 99
9707051	Cap, blasting, non-electric	1.4B only when in DOT packaging	2 Dec 98
9608028	Shaped charge, commercial	1.4D	19 Sep 97
9608031	1 lb booster	1.1D	14 Jan 98
9508033	Fuse lighter, commercial	1.4S	27 Oct 97
9404156	Shock Star MS (shock tube)	1.4S	14 Jan 98
9405290	Shaped charge, commercial	1.4S	10 Mar 99
9409002	Shaped charge, commercial	1.4D	27 Oct 97
9308432	Pentolite booster	1.1D	14 Jan 98
9303285	Austin cast booster	1.1D	14 Jan 98
9303282	Cord detonating, commercial	1.1D	14 Jan 98
9303278	Cap, NE, commercial	1.1B	14 Jan 98
9202035	Cord, detonating, commercial	1.1D	19 Sep 97
9201092	Fuse, time safety	1.4S	2 Dec 98
9104118	Cap, blasting electric, commercial	1.4B	19 Sep 97
9106259	Exel MS (shock tube)	1.4S	14 Jan 98
8912113	Demo charge, C-4, commercial	1.1D	27 Jan 99

Table 14.1 (continued)  
Department of Defense Hazard Classifications for Commercial Explosives\*

DOT EX #	Name	DOD Hazard Classification	Date Class.
8601111	Shaped charge, commercial	1.4S	10 Mar 99
8611125	Pentex booster	1.1D	14 Jan 98
8511062	Cap, blasting, NE, commercial	1.4B	27 Oct 97
8311105	Safety fuse, commercial	1.4S	27 Oct 97
8210044	Cord, detonating	1.1D	12 Jan 99

\*The supporting information for this table may be obtained from the USAESCH Safety Group.

b. Placards. Each magazine will display the placards required by DOT regulations in accordance with DOD 6055.9-STD and DA Pam 385-64 for the hazard division of OE stored in the magazine.

c. Quantity Distances (Q-D). A Net Explosive Weight (NEW) will be established for each magazine. The Q-D, based on the NEW, will comply with Table 5-1, DA Pam 385-64. The location of the magazine storage area and the Q-D arcs will be shown on a Q-D map attached to the Work Plan or ESS.

d. Storage Compatibility Groups. OE stored in each magazine will be segregated into the appropriate hazard division. Each OE item will be stored in accordance with its hazard division and the storage compatibility group criteria listed in Chapter 3, DOD 6055.9-STD.

e. Physical Security.

(1) A documented physical security survey will be conducted to determine if fencing or guards are required when temporary facilities must be established. The contractor is responsible for determining the degree of protection required to prevent the theft of OE stored in the magazines.

(2) Locks used on OE storage magazines at a FUDS will meet the standards listed in Section 55.208 (a) (4), ATPF 5400.7.

(3) The requirements for locks used on OE storage magazines at BRAC and IR sites will be determined using the installation's service criteria. A key control system will be documented in the Work Plan.

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f. Lightning Protection.

(1) FUDS. Lightning protection is not required on FUDS if the following criteria are met:

(a) The magazine is constructed of metal that is 3/16 inch steel or larger in accordance with National Fire Protection Association (NFPA) 780.

(b) The magazine is grounded in accordance with NFPA.

(c) The magazine is located at least 6.5 feet from the nearest fence.

(2) BRAC and Active Installations. Lightning protection for BRAC or IRP sites will meet the provisions of DOD 6055.9-STD. Army installations will also meet the provisions of DA Pamphlet 385-64.

g. Fire Protection. Extinguishers of appropriate size and type will be located in all explosives storage facilities.