

AO
KO
KT
KA
KN
KAF

DDESB-KT (SMCAC/ESP/12 Jan 90) 3rd End Dr. Canada/tm/90-300-3
SUBJECT: Replacement Doors for Corbetta-type Magazines

Department of Defense Explosives Safety Board, 2461 Eisenhower Avenue, Alexandria, VA 22331-0600
12 JUL 1990

FOR DIRECTOR, U. S. ARMY AMMUNITION CENTER AND SCHOOL, ATTN: SMCAC/ESP (LYN LITTLE), SAVANNA, IL 61074-9639

1. The subject explosives safety construction plan to upgrade Corbetta magazine doors at Holston Army Ammunition Plant (HSAAP) and Volunteer Army Ammunition Plant (VAAP) to increase storage capacities to 500,000 pounds has been reviewed with respect to explosives safety. Based upon the information furnished, the construction plan to upgrade the subject doors is approved. Also, storage of up to 500,000 pounds C/D 1.1. explosives material in the subject Corbetta magazines is approved provided the magazines are separated by at least 400 feet and oriented for side-to-side or rear-to-front exposures between the donor and acceptor magazines.

2. Front-to-front exposures between unbarricaded donor and acceptor magazines require a scaled distance of K11, so the maximum weight in Magazines 150 and 151 and any other magazines oriented in a similar manner must be considerably less than the proposed 250,000 pounds. (For a separation distance of 400 feet, the maximum storage weight for a front-to-front exposure is about 48,000 pounds.)

3. Please supply this office with any upgraded site plans that result from this approval.

Jack Mathews
JACK MATHEWS
Colonel, USAF
Chairman

COORDINATION FOR SIGNATURES	
INITIALS	
AO	<i>[Signature]</i>
KA	<i>[Signature]</i>
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KAF	
KO	<i>[Signature]</i>
KT	<i>[Signature]</i>
AC	<i>[Signature]</i>

90-300-3

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File of -
[Signature] - Dr. Canada 0147T

Corbetta Mags.

OFFICE OF THE CHAIRMAN, DDESB "Jan 26-90"

LOG #: 90-425 (TM) Jan 26-90

SUSPENSE DATE: 29 June 90

CORRESPONDENCE DATE: 12 June 90

DATE RECEIVED: 15 June 90

COORDINATION FOR SIG INITIALS

- IK _____
- KA _____
- KN _____
- KAF _____
- KC _____
- KT _____
- AC _____

TO	INITIALS	DATE
2 IK - CHAIRMAN		
COL Mathews	TDY	
IKs Mrs. Bottjer		
KXA- Mrs. Barker		
KXs- Mr. Warren		
2 KA - ARMY REP		
Col Viall		
KN - NAVY REP		
Capt Glover		
KAF- AF REP		
Col Bryant		
A KO - DIRECTOR, OPERATIONS DIV		
Mr. Drake		
KO1- Mr. Clark		
KO2- Mr. Howell		
KO3- Mr. Cruz		
KO4- Mr. Cates		
KO5- Mr. Newbern		
KOs- Ms. Taylor		
A KT - DIRECTOR, TECH PROGRAMS DIV		
Mr. Sawyer		
KT1- Dr. Ward		
KT2- Mr. Moran		
KT3- Dr. Canada	Rec'd 27 June 90	
KT4- Dr. Maurits		
KTs- Ms. Mauck		

- SYMBOL LEGEND
- A - Action
 - C - Concurrence
 - PR- Prepare Reply
 - CO- Comment & Return
 - I - Information
 - F - File
 - R - Return to Sender
 - S - Signature
 - PM - Post Master Call

Secretary/Action Officer Checklist

- SEC _____
- Proper Letterhead (if applicable) _____
- Format _____
- Spelling _____
- Incls Attached (if applicable) _____
- Envelopes attached _____
- Coord Block Noted _____

Rec'd Army Arsenal
NL

↑
HOUSTON
AAP
AND
VOLUNTEER
AAP

REMARKS: (REV 28 Sep 89)

DDESB-KT SMCAC-ESP (385-10d) 3rd End

SUBJECT: Replacement Doors for Corbetta-type Magazines

FOR: Director
U.S. Army Technical Center for Explosives Safety

ATTN: SMCAC-ESP, Savanna, IL 61074-9639

The subject explosives safety construction plan to upgrade Corbetta magazine doors at Holston Army Ammunition Plant (HSAAP) and Volunteer Army Ammunition Plant (VAAP) to increase storage capacities to 500,000 pounds has been reviewed with respect to explosives safety. Based upon the information furnished, the construction plan to upgrade the subject doors is approved. Also, storage of up to 500,000 pounds C/D 1.1 explosives material in the subject Corbetta magazines is approved provided the magazines are separated by at least 400 feet and oriented for side-to-side or rear-to-front exposures between the donor and acceptor magazines.

Front-to-front exposures between unbarricaded donor and acceptor magazines require a scaled distance of K11, so the maximum weight in Magazines 150 and 151 and any other magazines oriented in a similar manner must be considerably less than the proposed 250,000 pounds. (For a separation distance of 400 feet the maximum storage weight for a front-to-front exposure is about 48,000 pounds.)

Please supply this office with any upgraded site plans that result from this approval.

JACK MATHEWS
Colonel, USAF
Chairman

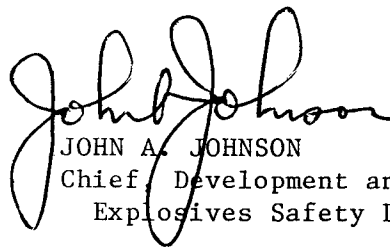
SMCAC-ESP (AMSMC-SFP/12 Jan 90) (385-10d) 2d End
SUBJECT: Replacement Doors for Corbetta-type Magazines

U.S. Army Defense Ammunition Center and School, Savanna IL 61074-9639 12 JUN 1990

FOR Chairman, Department of Defense Explosives Safety Board, ATTN: DDESB-KO,
2461 Eisenhower Avenue, Alexandria, VA 22331-0600

1. Reference FONECON between Mr. James Drake, your office, and Mr. Lyn Little, this office, 17 April 1990, SAB.
2. Corbetta-type magazines in use at Holston Army Ammunition Plant (HSAAP) and Volunteer Army Ammunition Plant (VAAP) are considered nonstandard earth-covered magazines because the doors are inadequate to prevent explosion communication. Storage conditions at HSAAP and VAAP require these magazines be able to store 500,000 pounds. To upgrade these magazines, a design for modification of existing doors and two new designs have been prepared by Corps of Engineers (CE), Huntsville Division. An additional new design has been prepared by the architectural-engineering firm of Foster Wheeler, U.S.A. Corporation, under contract with the U.S. Army Production Base Modernization Activity.
3. During reference FONECON, it was recommended that CE, Huntsville Division, review the design by Foster Wheeler, U.S.A Corporation. This recommendation was noted in enclosure 3. In their reply, U.S. Army Armament, Munitions and Chemical Command (AMCCOM) requested that Department of Defense Explosives Safety Board (DDESB) review the enclosed designs and provide comments; i.e., which design is preferred.
4. We have reviewed these designs with respect to explosives safety and consider them adequate and approval is recommended.
5. Point of contact (POC) is Mr. Lyn Little, SMCAC-ESP, DSN 585-8765.

FOR THE DIRECTOR:



JOHN A. JOHNSON
Chief, Development and Production
Explosives Safety Division

3 Encls
1-2. nc
Added 1 encl
3. as

CF (wo/encls):

Commander, U.S. Army Materiel Command, ATTN: AMCAM-LG, 5001 Eisenhower
Avenue, Alexandria, VA 22333-0001

90-425