



DEPARTMENT OF DEFENSE EXPLOSIVES SAFETY BOARD  
2461 EISENHOWER AVENUE  
ALEXANDRIA, VIRGINIA 22331-0600



07 APR 1995

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MEMORANDUM FOR HEADQUARTERS AIR FORCE SAFETY AGENCY  
(ATTENTION: SEW)

SUBJECT: Explosives Site Plan Final Approval Request,  
AFMC-HANSCOM-92-S1

Reference: HQ AFSA/SEW letter of February 28, 1995, Same  
subject

The subject site plan forwarded by the reference has been reviewed with respect to explosives safety criteria. Based on the design of the lightning protection system submitted, final safety review for the proposed magazine at Hanscom AFB, MA is approved.

**/S/ COLONEL W. RICHARD WRIGHT**

W. RICHARD WRIGHT  
Colonel, USA  
Chairman

9: /SP HANSCO

④ - Webster

913. A -  
AF

MFR: This project is for constructing an earth-covered magazine for the storage of an explosives dog kit. The siting of the magazine at reduced QD was provided by us on October 14, 1994. This submission provided the design of the lightning protection system. The zone of protection for the 100 foot radius ball is met. I used the formula  $d=2 \sqrt{2Rh-h}$ , where R is the radius of the ball and h is the height of the air terminals. Approval is met.

*Larry D. Webster*  
Larry D. Webster  
Safety Engineer



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11 4 OCT 1994

DDESB-KO

MEMORANDUM FOR HEADQUARTERS AIR FORCE SAFETY AGENCY  
 (ATTENTION: SEW)

SUBJECT: Explosives Site Plan, Earth-Covered Mag for SPS  
 Detector Dog Training Explosives, AFMC-HANSCOM-92-S1,  
 Project Number: MXRD 92-151B7

*[Handwritten initials]*  
 AO  
 KO  
 KT  
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 KAF  
 IKs Review  
 10/14

Reference: HQ AFSA/SEW letter of September 22, 1994, Same  
 subject

The subject site plan forwarded by reference (a) has been reviewed with respect to explosives safety criteria. Based on the information submitted, preliminary siting for earth-covered magazine at Hanscom AFB, MA with an inhabited building distance of 92 feet and a public traffic route distance of 55 feet is approved. This approval is based on the following:

- a. The limit for the magazine is 18 pounds of Hazard Class/Division 1.1 explosives.
- b. The magazine shell is constructed of eight inch thick reinforced concrete. A one quarter inch thick steel magazine with wood lining is placed in the concrete shell.
- c. The magazine is covered with 38 inches of earth on top and the sides meet the 2 to 1 slope.
- d. The explosives must be stored a minimum of two feet from the magazine walls.

Final safety review will be accomplished upon receipt of the design of the lightning protection system.

W. RICHARD WRIGHT  
 Colonel, USA  
 Chairman

9/13/1 AF

MFR: This project is for siting a magazine with reduced QD for storage of K9 kit (18 pounds). Provided KT concurs with the calculations QD is met. Final safety approval will be done when type and design of LPS is provided. Preliminary siting is recommended.

Larry D. Webster  
Safety Engineer