

**421-80-01**

DDESB-KT (CEEC-ET/11 Apr 88) 1st End Dr. Canada/ph/325-8624  
SUBJECT: Request for Final Safety Approval of "Magazine, Steel,  
Semicircular-Arch, Earth Covered" per U.S. Army Corps of Engineers  
Standard Drawing STD 421-80-01

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

28 JUN 1988

FCR: COMMANDER, U.S. ARMY CORPS OF ENGINEERS, ATTN: CEEC-ET,  
WASHINGTON, DC 20314-1000

1. The subject drawing defining an earth-covered magazine has been reviewed with respect to explosives safety and is approved for incorporation in DoD 6055.9-STD, Change 2.
2. Inclusion of your recommendation in NATO Document AC/258-D/211 presents a problem which will probably require further analysis. Several AC/258 members are concerned about openings in the headwall of storage magazines for both safety and security reasons. In fact, NATO will likely soon add a fragment loading criteria (1 kgm, hard rock, @ 300m/s) to design requirements. Consequently, an analysis addressing effects of the openings in the headwall of the proposed magazine should be done before the structure is recommended to NATO through the AC/258 Committee.

/s/ COLONEL THOMAS F. HALL, JR.

wd all encls

THOMAS F. HALL, JR.  
Colonel, USA  
Chairman