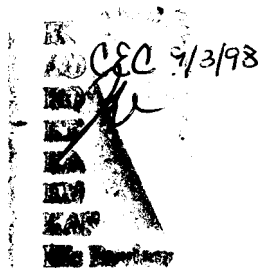




DEPARTMENT OF DEFENSE EXPLOSIVES SAFETY BOARD
2461 EISENHOWER AVENUE
ALEXANDRIA, VIRGINIA 22331-0600

SEP 08 1998



DDESB-KO

MEMORANDUM FOR DIRECTOR US ARMY TECHNICAL CENTER FOR
EXPLOSIVES SAFETY (ATTENTION: SIOAC-ES)

SUBJECT: Design of Prefabricated Earth-Covered Magazine (ECM) by the Reinforced Earth Company

- References:
- (a) Memorandum, SIOAC-EST to DDESB Chairman, "Design of Prefabricated Earth-Covered Magazine (ECM) by the Reinforced Earth Company," 6 August 1998
 - (b) Reinforced Earth Company Project No. 6951, "U.S. Corps of Engineers, Ammunition Magazines, Techspan & Reinforced Earth Design Calculations," 15 May 1998
 - (c) Letter, Kim Truong (Reinforced Earth Company) to Adib Farsoun (US Army Corps of Engineers), Techspan for Ammunition Magazines, Final Submittal," 24 June 1998
 - (d) Telecon, Dr. Chester E. Canada (DDESB-KT2) to Mr. Wallace Watanabe (USACE, Huntsville Division) dated 31 August 1998

The subject safety submission forwarded by reference (a) and supported by information in references (b) and (c) has been reviewed with respect to explosives safety criteria. The submission requests DDESB approval of the subject earth-covered magazine, designated as "Magazine, Precast Concrete Earth-Covered TechSpan™ System", as a 7-bar magazine for siting in accordance with Table 9-5 of DoD 6055.9-STD.

The subject magazine, which has been assigned the drawing number 421-80-05 (reference (d)), is approved as a 7-bar earth-covered magazine for Q/D siting in accordance with Table 9-5 of DoD 6055.9-STD. According to material furnished all structural design and lightning protection requirements associated with explosives safety that qualify the proposed facility as a 7-bar magazine are satisfied.

Design drawings **and** specifications for this ECM are to be maintained by the USACE Huntsville Division.

Point of contact is Dr. Chester E. Canada, DDESB-KT2 (PH: 703-325-1369, FAX: 703-325-6227, E-MAIL: canadce@hqda.army.mil).

/S/ Col Daniel T. Tompkins

DANIEL T. TOMPKINS
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