



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



28 DEC 1992

DDESB-KT

MEMORANDUM FOR CORPS OF ENGINEERS, HUNTSVILLE DIVISION,
ATTN: CEHND-ED-CS (A. FARSOON)
P. O. BOX 1600, HUNTSVILLE, AL 93043-5003

SUBJECT: DDESB Approval of the Steel Oval Arch Magazine (Drawing
STD 421-80-03)

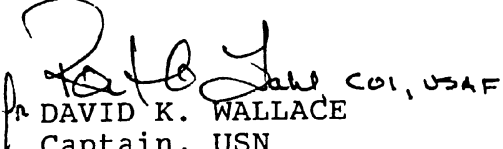
1. The earth-covered magazine (ECM) described in Drawing
STD-421-80-3, "Steel Oval Arch, Earth Covered Magazine," has been
reviewed for explosives safety. Recommend that safety-specific
notes be added to the drawing to address maximum NEW, siting
requirements (blast and debris), and any design requirements
driven by safety issues. As a minimum, the following should be
addressed in the notes:

- a. Maximum NEW, i.e., 500,000 pounds (C/D 1.1.)
- b. Siting for IMD
- c. Design features required to satisfy safety requirements
- d. Requirements for locations of the air terminals.

2. The magazine of Drawing STD 421-80-03 is approved for a
maximum NEW of 500,000 pounds at the following siting distances
from DoD 6055.9-STD, "Ammunition and Explosives Safety Standards,"
(October 1992):

IMD: Standard ECM sitings in Table 9-5
PTR: Columns 6-8 in Table 9-1
IBD: Columns 2-4 in Table 9-1.

3. POC for this action is Dr. C. E. Canada (DSN 221-8624).


DAVID K. WALLACE
Captain, USN
Chairman

CF:
HQDA, DACS-SF
CNO (N411)
HQ AFSA/SEW
CEMP-ET
SMCAC-ES
NAVSEA