



DEPARTMENT OF DEFENSE EXPLOSIVES SAFETY BOARD

4800 MARK CENTER DRIVE, SUITE 16E12
ALEXANDRIA, VIRGINIA 22350-3606

DDESB-PE

17 MAY 2023

MEMORANDUM FOR COMMANDING OFFICER, NAVAL ORDNANCE SAFETY AND
SECURITY ACTIVITY (ATTENTION: CODE N54)

SUBJECT: Approval of 7-Bar Structural Strength Designation for the Navy Containerized Long Weapons Storage (CLWS) Magazine Constructed to Naval Facilities Engineering Systems Command Drawing Numbers 12877610 through 12877660

- References:
- (a) NOSSA ltr 8020 Ser N41/456 of 10 May 2023, Subject: Expedited Request for Approval of Standard Drawings for Containerized [*sic*] Long Weapons Storage, Navy Earth Covered Magazines [Criteria/Non-WEBSAR/PP-006]
 - (b) Naval Facilities Engineering Systems Command Drawing Numbers 12877610 through 12877660, Containerized Long Weapons Storage Navy Earth Covered Magazine, dated 20 March 2023
 - (c) Defense Explosives Safety Regulation 6055.09, Edition 1, 13 January 2019
 - (d) DDESB Technical Paper 15, "Approved Protective Construction," Revision 4, 26 July 2020

As requested by reference (a), we have reviewed the reference (b) drawings for compliance with Department of Defense explosives safety criteria found in reference (c). Based on our evaluation, the design contained in reference (b) is approved as a 7-Bar earth-covered magazine (ECM). The allowable Hazard Division (HD) 1.1 explosive limit for this design is 500,000 pounds net explosive weight (NEW).

The subject ECM is a novel reinforced concrete box-type design with clear interior dimensions of 119'-0" length by 32'-0" width by minimum 24'-8" height. Its front wall has a door opening with clear dimensions of 32'-0" width by 14'-0" height. The design also includes an interior bridge crane and an optional mechanical room for environmental controls.

The design of reference (b) will be added to Table AP1-1 of reference (d) as approved for new construction.

Point of contact is Mr. Ryan Bowers at Commercial: (571) 372-6706; DSN: 372-6706; or E-mail: ryan.w.bowers.civ@army.mil.



THIERRY L. CHIAPELLO
Executive Director

Cc:
NAVFAC EXWC/SH21
NOSSA
USATCES
AFSEC/SEW
MARCORSYSCOM/AM-EES
USACE CEHNC-EDC-S