



## DEPARTMENT OF DEFENSE EXPLOSIVES SAFETY BOARD

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

26 JAN 2025

DDESB-PE

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

**SUBJECT:** Approval of 7-Bar Structural Strength Designation for the Double-Bay Containerized Long Weapons Storage (CLWS) Magazine Constructed to Naval Facilities Engineering Systems Command Drawing Numbers 12914696 through 12914757

- References:**
- (a) NOSSA ltr 8020 Ser N41/1422 of 27 December 2024, Subject: Expedited Request for Approval of Standard Drawings for Double-Bay Containerized Long Weapons Storage, Navy Earth Covered Magazine [Criteria/Non-WEBSAR/RR-007]
  - (b) Naval Facilities Engineering Systems Command Drawing Numbers 12914696 through 12914757, Containerized Long Weapons Storage (CLWS) Double Bay Navy Earth Covered Magazine, Standard Drawings, NAVFAC Atlantic, 24 September 2024
  - (c) Defense Explosives Safety Regulation 6055.09, Edition 1, Change 1, 23 February 2024
  - (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 two bays separated by an interior reinforced concrete wall. Each bay has clear interior dimensions of 114'-0" length by 50'-0" width by minimum 24'-7 1/2" height. The front wall of each bay has a door opening with clear dimensions of 32'-0" width by 14'-0" height. The design also includes an optional interior bridge crane and two mechanical rooms 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](mailto:ryan.w.bowers.civ@army.mil).

A handwritten signature in blue ink, appearing to read 'Thierry L. Chiapello', is written over a light blue circular stamp. The signature is fluid and cursive.

THIERRY L. CHIAPELLO  
Executive Director

Cc:  
NAVFAC EXWC/SH21  
NOSSA  
USATCES  
AFSEC/SEW  
MARCORSYSCOM/AM-EES  
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