



DEPARTMENT OF DEFENSE EXPLOSIVES SAFETY BOARD

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25 JUL 2024

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 Revised Single-Bay Containerized Long Weapons Storage (CLWS) Magazine Constructed to Naval Facilities Engineering Systems Command Drawing Numbers 12905820 through 12905870

- References:**
- (a) NOSSA ltr 8020 Ser N41/582 of 29 May 2024, Subject: Expedited Request for Approval of Revised Single-Bay Containerized Long Weapons Storage Magazine [Criteria/Non-WEBSAR/QQ-014]
 - (b) Naval Facilities Engineering Systems Command Drawing Numbers 12905820 through 12905870, Containerized Long Weapons Storage Navy Earth Covered Magazine, dated 25 April 2024
 - (c) Defense Explosives Safety Regulation 6055.09, Edition 1, Change 1, 23 February 2024
 - (d) DDESB-PE Memorandum, 17 May 2023, 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
 - (e) 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). This approval supersedes reference (d).

The subject ECM is a minor revision to the original CLWS design, which was approved by reference (d). It is a 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 (e) as approved for new construction.

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