DEPARTMENT OF THE NAVY

NAVAL SEA SYSTEMS COMMAND
WASHINGTON, D.C. 20362-5101

IN REPLY REFER TO

NAVSEAINST 8020.11A
OPR 66I
21 Jan 92

NAVSEA INSTRUCTION 8020.11A

From: Commander, Naval Sea Systems Command

Subj: HIGH-EXPLOSIVES AND HIGH-EXPLOSIVES-LOADING OF NAVY NON-NUCLEAR MUNITIONS

Ref: (a) DOD Directive 5160.65 (NOTAL)
(b) OPNAVINST 8010.13B
(c) NAVSEAINST 8020.5B
(d) NAVSEAINST 4120.3A
(e) NAVSEAINST 4130.12A
(f) NAVSEAINST 5401.1
(g) NAVSEA OP-3613

1. Purpose. To reinstate the former instruction assigning responsibility and authority within NAVSEA for the use and control of Navy high explosives and the high-explosives loading of Navy non-nuclear munitions. This is a major revision to the basic instruction.

2. Cancellation. NAVSEAINST 8020.11 of 19 May 1977 was canceled by NAVSEANOTE 5215 of 2 January 1986.

3. Background. Reference (a) appointed the Secretary of the Army as the Single Manager for Conventional Ammunition (SMCA) for procurement, production, supply, maintenance, and renovation of assigned conventional ammunition. Reference (a) excludes research and development and pilot-production programs for all munitions and management of such specific munitions as guided missiles, naval mines, torpedoes, nuclear ammunition, cartridge actuated devices, and underwater swimmer weapons from assigned SMCA responsibilities. Although the SMCA produces a substantial portion of the Navy's munitions, the Navy retains the life cycle responsibility for the safety, reliability, and performance of all its explosives and weapons. This Command was assigned as lead Systems Command for Explosive Materials, Energetic Materials, and Insensitive Munitions by reference (b). Within the Command these responsibilities are delegated to the Deputy Commander for Weapons and Combat Systems (SEA 06).

4. Scope. The instruction applies to all Navy activities and to Marine Corps activities to the extent specified by the Commandant. This instruction applies only to booster and main charge high explosives and loading of main charge high explosives into Navy non-nuclear munitions. Policies controlling other

energetic materials are found elsewhere. Definitions of terms used in this instruction are described in reference (c).

5. Policy

a. Developmental studies for the processing of Navy booster and main charge high explosives and for loading main charge high explosives shall be performed to ensure that munitions can be produced safely, efficiently and economically with the requisite quality.

b. The loading of main charge high explosives into munitions shall be described and documented in Navy Munitions Data (NMD) documents and loading drawings. NMDs shall contain requirements which outline and classify the necessary attributes of the high explosive in the munitions. A preliminary NMD with associated drawings shall be included in the request to Commander, Naval Sea Systems Command (SEA 665) for Final (Type) Qualification of a high explosive in a specific application. When a munitions program enters Pilot Production (PP) or Low Rate Initial Production (LRIP), the loadings performed shall be used to validate the processes and requirements of the NMD which resulted from the developmental program. A final, validated NMD with associated drawings shall be included in the procurement package for a munition.

c. Final (Type) Qualified explosives shall be defined by Military Specifications per reference (c). The specification submitted with the data package requesting Final (Type) Qualification of the high explosive shall be a proposed Military Specification. The specification shall be formally issued as a Military Specification, per reference (d), as soon as practicable after Final (Type) Qualification of the explosive.

d. Configuration control shall be maintained for in-service high explosives after their initial Final (Type) Qualification per reference (e). Configuration Control Boards (CCB) shall include designated representatives of the explosive developer, the Office of Primary Responsibility (OPR) for each munition using a specific explosive, NAVSEA (SEA 66I), and the high explosive in-service engineering agent who will act as chairman.

e. Configuration control shall be maintained for NMDs per reference (e) after acceptance of a munition by COMNAVSEA. CCBs for NMDs shall include designated representatives of the OPR, the explosive developer, and the high explosives in-service engineering agent who will act as chairman. Any waivers or

deviations from the requirements of an NMD shall be approved at the level designated by the OPR.

f. High explosive loading of PP and LRIP quantities of munitions shall preferably be performed at Navy facilities. In any case, the high explosive in-service engineering agent will monitor PP and LRIP wherever they are performed and gather data to validate the applicable NMD.

6. Action

a. Naval Sea Systems Command

(1) In the capacity of Lead SYSCOM, the Deputy Commander for Weapons and Combat Systems is the Navy's single point of contact for all matters concerning high explosives materials, processing and loading of munitions.

(2) The Insensitive Munitions Programs Division will provide technical guidance to the NAVSEA Center of Excellence for Explosive Process Development.

(3) The Weapons and Explosives Safety Division will provide representation to CCBs for specifications for Navy high explosives.

b. Naval Ordnance Station, Indian Head

(1) The responsibility for and authority to approve engineering changes, waivers or deviations from the requirements of explosive specifications is delegated to the Commanding Officer. Requests for changes, waivers and deviations shall be coordinated with and concurrence obtained from all cognizant offices through the appropriate CCB.

(2) The responsibility for and authority to sign NMDs is delegated to the Commanding Officer.

(3) The NAVSEA Center of Excellence for Explosives Process Development Engineering, per reference (f), will:

(a) Act as the Command's design agent for the engineering and process development of all Navy booster and main charge high explosives and provide advisory statements on material processing and safe handling characteristics for Final (Type) Qualification requests for those explosives.

(b) Approve, issue and maintain NMDs. Perform, or provide technical expertise for, the development of high

explosives loading requirements/procedures for munitions. Serve as chairman of all CCBs for NMDs. Ensure that high explosives specified for loading into munitions for fleet use have been Final (Type) Qualified per reference (c).

(c) Provide technical expertise for the high explosive loading PP or LRIP of munitions.

(d) Act as the Command's high explosives in-service engineering agent. Serve as chairman for all CCBs for Navy high explosive specifications.

(e) Prepare, issue and maintain reference (g).

c. Naval Air Systems Command

(1) Establish a central point of contact for high explosives to work with and support NAVSEA in implementing this instruction.

(2) Ensure that all NAVAIR munitions are loaded with approved high explosives in accordance with documentation approved by NAVSEA.

d. Naval Surface Warfare Center, Dahlgren and Naval Weapons Center, China Lake

(1) Establish a central point of contact for high explosives to work with and support NAVSEA in implementing this instruction.

(2) Provide representation to CCBs for specifications for Navy high explosives developed by each Center.

e. Offices of Primary Responsibility for Munitions

(1) Establish a central point of contact for high explosives to work with and support NAVSEA in implementing this instruction.

(2) Ensure their munitions are loaded with approved high explosives in accordance with documentation approved by NAVSEA.

(3) Provide technical direction and funding for the necessary studies to develop loading processes for their munitions.

(4) Provide representation to CCBs for specifications for Navy booster and main charge high explosives used in their munitions.

(5) Provide representation to the CCB for the NMD which controls the high explosive loading of their munitions.

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