



DEPARTMENT OF THE NAVY
NAVAL SEA SYSTEMS COMMAND
WASHINGTON, DC 20362-5101

IN REPLY REFER TO

NAVSEAINST 5450.3B
OPR 6511
17 Jul 89

NAVSEA INSTRUCTION 5450.3B

From: Commander, Naval Sea Systems Command

Subj: NAVAL ORDNANCE STATION, INDIAN HEAD, MARYLAND MISSION AND
FUNCTIONS

Ref: (a) OPNAVNOTE 5450 Ser 09B22/9U510564 of 6 Feb 1989

Encl: (1) Functions of Naval Ordnance Station, Indian Head,
Maryland

1. Purpose. To restate the mission and functions of the Naval Ordnance Station, Indian Head, Maryland in support of reference (a). This is a major change to the basic instruction.

2. Cancellation. NAVSEAINST 5450.3A of 5 September 1978.

3. Status and Command Relationships. The Naval Ordnance Station, Indian Head, Maryland is a shore activity in an active operating status under a commanding officer and under the command of the Chief of Naval Operations, exercised through the Commander, Naval Sea Systems Command. The Naval Ordnance Station, Indian Head, Maryland is subject to the area coordination authority of the Commandant, Naval District, Washington, D.C.

4. Mission. Provide quality and responsive engineering, technical and material support to the Fleet for combat subsystems, equipment and components; gun, rocket, and missile propulsion; energetic chemicals; ordnance devices (CAD/PAD); explosive process development engineering; and missile weapons simulators and training shapes; as assigned by the Commander, Naval Sea Systems Command.

5. Action. In the accomplishments of the assigned mission, the Commanding Officer, Naval Ordnance Station, Indian Head shall perform the functions set forth in enclosure (1). Send change recommendations to the Naval Sea Systems Command (SEA 65).


P. M. HEKMAN, JR.

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FUNCTIONS OF
NAVAL ORDNANCE STATION
INDIAN HEAD, MARYLAND

1. Center of Excellence for Guns, Rockets and Missile Propulsion

a. Provide research, development, test, quality evaluation and certification, in-service engineering and propellant manufacture services for gun ammunition propelling charge assemblies. Serve as Design Agent (DA) and Technical Direction Agent (TDA) and provide in-service support.

b. Provide product development, product improvement engineering, pilot production, production engineering, depot repair and rework, technical data validation, second source qualification, quality evaluation, logistics and maintenance engineering, in-service and acquisition engineering, DA and technical management functions for missile and rocket systems.

2. Center of Excellence for Energetic Chemicals

a. Provide engineering expertise in development of manufacturing methods and facilities to accomplish process development, scale-up production, critical chemical production, in-service engineering configuration management and technical consultation for energetic chemicals.

b. Provide technical support in the areas of critical non-energetic chemicals and hazardous materials environmental control.

3. Center of Excellence for Ordnance Devices

a. Serve as the tri-service authority for cartridges, Cartridge Actuated Devices (CADs) and Aircrew Escape Propulsion Systems (AEPSSs).

b. Responsibilities include research and development, basic design engineering, production, product improvement, qualification and service release testing, maintenance and in-service engineering production support, logistics support, quality evaluation and acquisition management.

4. Center of Excellence for Missile Weapon Simulators and Training Shapes

a. Serve as the Navy's authority for surface and air, missile simulators, training shapes and guided missile training rounds.

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b. Serve as Acquisition Engineering Agent (AEA), DA and In-Service Engineering Agent (ISEA).

c. Provide fleet support, program management, production and depot maintenance service.

5. Center of Excellence for Explosives Process Development Engineering

a. Provide technical direction of developmental loading studies for all explosive loaded Navy munitions. Has sole approval authority delegated by COMNAVSEASYSKOM for Navy Munitions Data (NMD). Provide explosives engineering, analytical services and operational services to COMNAVSEASYSKOM, other Navy activities, DOD activities, government agencies, authorized private contractors and allied countries, as directed.

b. Provide support to COMNAVSEASYSKOM in meeting its responsibility for explosive material and explosives safety.

c. Perform DA functions for the engineering and process development of all Navy booster and main charge explosives. Provide COMNAVSEASYSKOM with data and recommendations on the ability to process and safe handling characteristics of new explosive formulations; ensure that explosive compounds specified for new weapons have been service approved; develop and document explosive loading and removal processes for all Navy non-nuclear munitions; develop and document processes for the reclamation of used explosives; provide technical direction for the pilot production of all Navy non-nuclear munitions; review, evaluate, and act on all requests for engineering change proposals, waivers, and deviations concerning explosives loading documentation.

d. Perform ISEA functions for explosives. Provide engineering support for the COMNAVSEASYSKOM in-service explosive program and perform process studies of in-service explosives for product improvement, producibility, safety, standardization and cost reduction.

e. Act as central COMNAVSEASYSKOM agency for review, evaluation and approval of explosive specifications and specifications of materials used in contact with explosives and for engineering change proposals, and for waivers and deviations from these specifications; provide assistance and consultation to solve explosives production problems.

f. Act as associated components DA for the explosive load of Navy gun ammunition (20mm to 16-inch) and rocket ammunition.

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g. Act as the COMNAVAIRSYSCOM cognizant shore activity for Signals, Underwater Sound (SUS).

h. Act as the COMNAVAIRSYSCOM performing shore activity for the explosive load in all free fall air-launched weapons (bombs).

i. Operative the Navy Pilot Plant for Explosives. Formulate explosive compositions; explosive load weapons, test charges, experimental devices and other ordnance; and machine explosives and explosive loaded ordnance.

j. Provide technical consultation, support and test services to COMNAVSEASYSYSCOM, other DOD activities, authorized private contractors and allied countries relative to explosives and explosives loading, planning information on equipment and facility requirements for new explosives and weapons, sensitivity of explosives and their compatibility with other materials.