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

IN REPLY REFER TO

NAVSEAINST 5450.33C
OPR 65
7 June 1988

NAVSEA INSTRUCTION 5450.33C

From: Commander, Naval Sea Systems Command

Subj: MISSION AND FUNCTIONS OF NAVAL WEAPONS SUPPORT CENTER CRANE

Ref: (a) OPNAVNOTE 5450 of 24 Jul 1987

Encl: (1) Functions of Naval Weapons Support Center Crane

1. Purpose. To promulgate the mission and functions of Naval Weapons Support Center Crane, in support of reference (a). This is a major change to the current instruction.

2. Cancellation. NAVSEAINST 5450.33B of 13 October 1981.

3. Status and Command Relationships. Naval Weapons Support Center Crane 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 Commander, Naval Sea Systems Command. Naval Weapons Support Center Crane is subject to the area coordination authority of Chief of Naval Education and Training to be exercised through Commander, Naval Training Center, Great Lakes, IL.

4. Mission. Provide quality and responsive engineering, technical and material support to the Fleet for combat subsystems, equipments and components; microelectronic technology; microwave components; electronic warfare; acoustic sensors test; electrochemical power systems; conventional ammunition engineering; pyrotechnics; small arms; and electronic module test and repair; as assigned by Commander, Naval Sea Systems Command.

5. Action. In the accomplishment of the assigned mission, Commanding Officer, Naval Weapons Support Center Crane shall perform the functions set forth in enclosure (1). Send recommended changes to Commander, Naval Sea Systems Command (SEA 65).

R. H. AILES
Deputy Commander for Weapons
and Combat Systems

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FUNCTIONS OF NAVAL WEAPONS SUPPORT CENTER CRANE

1. Center of Excellence for Microelectronic Technology.

a. Provide design, development, test, acquisition, in-service, and related engineering for electronic systems, modules, assemblies and components.

b. Conduct assessments of electronics performance and reliability in both normal and radiation environments.

c. Reduce electronics life cycle costs through standardization efforts at component, module and system levels.

d. Provide administrative and technical support to Commander, Naval Sea Systems Command; Commander, Naval Air Systems Command; Commander, Space and Naval Warfare Systems Command; and Director, Strategic Systems Program relative to application, quality, reliability, maintainability, and standardization of electronic equipments, modules, and components.

2. Center of Excellence for Microwave Components.

a. Provide overall management, requirements development, planning, and program coordination in the performance of engineering agent assignments for microwave devices used in Navy and other DoD systems.

b. Provide engineering, design, and development for improved performance, reliability and producibility, monitoring production processes, development of technical documentation for acquisition, evaluation and depot repair for microwave components and subassemblies.

3. Center of Excellence for Electronic Warfare.

a. Provide overall management in the performance of coordinating field activity, In-Service Engineering Agent, and integrated logistics support assignments for shipboard electronic warfare systems used in the Navy.

b. Provide engineering, prototype development, design and fabrication, technical planning, test and evaluation, monitoring of production processes and resolving production problems, engineering investigations, depot level repair, acquisition support, inventory and logistics support, and direct fleet support for assigned equipments.

c. Provide engineering, technical, and logistics support including Design Agent, Acquisition Agent, and In-Service Engineering Agent responsibilities throughout the life cycle of numerous off-board countermeasures devices.

4. Center of Excellence for Electronic Module Test and Repair.

a. Serve as the In-Service Engineering Agent for all deployed Commander, Naval Sea Systems Command general purpose Automatic Test Equipment and Technical Design Agent for additional Automatic Test Equipment requirements for deployment onboard ships and at Intermediate Maintenance Activities.

b. Provide a centralized point of contact for management support to Commander, Naval Sea Systems Command (SEA 06QM) for the development of all Test Program Sets for electronic modules used in Commander, Naval Sea Systems Command systems and equipments including standard electronic modules.

c. Perform as the lead field activity for the development and deployment of specifically tailored test and repair capabilities on-board ships and at Intermediate Maintenance Activities where more traditional general purpose Automatic Test Equipment and associated Test Program Sets are not applicable.

d. Provide engineering studies and management of the Miniature and Microminiature (2M) Electronic Repair Program to develop and maintain fleet repair capabilities.

5. Center of Excellence for Acoustic Sensors Test.

a. Provide hydroacoustic engineering and testing for acoustic sensor products. These products include transducers, hydrophones, sonobuoys, acoustic absorption materials, and related calibration systems.

b. Perform specific engineering functions relating to acoustic sensor products including development, prototyping, test and evaluation, production support, technical documentation, installation, fleet support, integrated logistics support, and overhaul and repair.

6. Center of Excellence for Electrochemical Power Systems.

a. Provide support to design, development, production, logistics support, and disposition of electrochemical power systems and associated equipments.

b. Assess the performance of electrochemical power systems, components, and associated equipments.

c. Reduce life-cycle costs through product improvement and standardization efforts.

d. Provide technical and administrative support to Navy, other Department of Defense activities, and government agencies relative to design, application, quality, reliability, maintainability, and safety of electrochemical power systems, components and equipments.

7. Center of Excellence for Conventional Ammunition Engineering.

a. Perform Acquisition Agent and In-Service Engineering Agent functions for Commander, Naval Sea Systems Command 2T cognizant ammunition and Marine Corps OT ammunition.

b. Provide engineering support for all explosive loaded ammunition (less nuclear) subject to production or maintenance processes under the cognizance of Commander, Naval Sea Systems Command.

c. Develop and maintain automated ammunition logistics systems and provide analytical support for ammunition procurement, maintenance and accountability requirements.

d. Provide and maintain product quality engineering and Test and Evaluation services and assess quality, safety, and acceptability for service use.

e. Evaluate quality and reliability of strategic weapons systems, ordnance subsystems, and components to establish service life, aging trends, and failure analysis.

f. Provide technical support for all phases of demilitarization and disposal of Navy ordnance items.

8. Center of Excellence for Pyrotechnics.

a. Serve as the Navy's lead research, development, test, and engineering activity for pyrotechnics.

b. Perform research in technological areas related to pyrotechnics, perform development, test, and evaluation projects on pyrotechnic items and provide specialized expertise in this area. Serve as data agent for surface and subsurface pyrotechnics, demolition items, and non-lethal loads.

c. Serve as the cognizant shore activity and Deputy Assistant Program Manager for air-launched pyrotechnics.

9. Center of Excellence for Small Arms.

a. Provide engineering and logistic support and maintenance for small arms, the 25mm gun system, machine guns, mounts, grenade launchers, night vision devices, flame weapons, and ammunition.

b. Perform technical services including all the engineering agent functions, research and conceptual development, and malfunction investigations plus technical management responsibilities encompassing initial issue, outfitting, and maintenance.

10. Provide Weapons Quality Engineering Center facilities and services. Operate a Calibration Laboratory in support of the Naval Sea Systems Command Quality Evaluation Program and related programs of other Systems Commands and product managers.

11. Provide administrative support and services to the Crane Army Ammunition Activity, and other tenant activities and offices as assigned.

12. Operate a Multiple Services Household Goods Shipping Office for the geographical area assigned.

13. Provide explosive ordnance disposal services for Commander, Naval Training Center, Great Lakes.

14. Provide support to Naval Sea Systems Command for mobilization planning and industrial readiness.

15. Store materials under inventory control of Naval Sea Systems Command, Naval Air Systems Command, Navy Ship Parts Control Center and National Stockpile Material maintained for the General Services Administration.