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DEPARTMENT OF THE NAVY
OFFICE OF THE CHIEF OF NAVAL OPERATIONS
WASHINGTON, D.C. 20350

IN REPLY REFER TO
OPNAVINST 5000.39A
Op-221C
MAR 1 1976

OPNAV INSTRUCTION 5000.39A

From: Chief of Naval Operations

Subj: Change or Exchange of Command of Nuclear Powered
Ships; report of

- Ref: (a) U.S. Navy Regulations 1973, Article 0707 (R)
- (b) OPNAVINST C3000.5C, Operation of Nuclear (R)
Powered Ships (U)
- (c) DOD Directive 5000.19 of 12 Mar 76 (NOTAT) (A)

Encl: (1) Engineering Department Change of Command
Inspection List

1. Purpose. To establish the requirement that a description of all significant deficiencies related to the propulsion plants of naval nuclear powered ships be included in the report of all changes or exchanges of command of these ships. (R)

2. Cancellation. OPNAVINST 5000.39. (A)

3. Background. Reference (a) requires that upon occasion of a change of command, an inspection and report of the condition of the command shall be made to the immediate superior with copies to the Fleet Commander in Chief and intermediate superiors. Reports containing unsatisfactory or adverse conditions must be submitted to the Chief of Naval Operations, via the chain of command, with a copy direct to the Fleet Commander in Chief concerned. Reference (b) assigns the responsibility for research, development, technical assistance, and all aspects of reactor safety related to naval nuclear propulsion plants to the Commander, Naval Sea Systems Command (in cooperation with the Deputy Assistant Secretary for Naval Reactors, Department of Energy). (R)

4. Discussion. In recognition of the special procedures required to insure the health and safety of the crews and of the general public, it is necessary that all deficiencies associated with naval nuclear propulsion plants be identified and corrected in a timely and responsible manner. Accordingly, it is appropriate that the report submitted incident to a change or

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exchange of command of these ships shall include a detailed listing of all significant deficiencies which exist in the propulsion plant at the time of the change or exchange of command. (R)
Copies of this report are required by the Deputy Commander for Nuclear Propulsion, Naval Sea Systems Command, in order to support that command's responsibilities in connection with the safety of naval nuclear propulsion plants. This requirement to include a listing of significant propulsion plant deficiencies applies only to naval nuclear powered ships and does not supersede or replace other requirements of reference (a) or other reports which may be required incident to change or exchange of command. (R)

5. Action. A list of significant deficiencies found to exist in the propulsion plants of nuclear powered ships shall be included in the report of all changes or exchanges of command of these ships. The following requirements are established to provide instructions for the preparation and submission of this report. (R)

a. A comprehensive and complete material and administrative inspection of the engineering department and spaces shall be conducted during the turnover period prior to the official change of command. This inspection shall encompass, whenever possible, observations of the propulsion plant in both operating and shut-down conditions. An official and detailed listing shall be compiled during this inspection which shall include all material defects, administrative deficiencies, personnel readiness or training limitations, matters of cleanliness and preservation, and status of major unaccomplished repairs, maintenance and alterations applicable to the propulsion plant. Enclosure (1) provides a minimum listing of specific items to be inspected.

b. The commanding officer being relieved shall cause the inspection to be accomplished and the list of deficiencies to be prepared. The relieving commanding officer shall participate in the inspection of the engineering department to the degree necessary to assure accuracy and completeness of the list of items developed from the inspection. The relieving commanding officer shall be required and permitted to contribute such additional matters as considered warranted from independent observations.

c. The commanding officer being relieved shall develop a list of significant deficiencies from the inspection and shall include the listing in the report of relief. By endorsement to the report of change of command, the relieving commanding officer shall accept the listing of significant deficiencies as being complete and definitive or shall comment on or add such additional items as are considered warranted. The commanding (R)

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officer's signature to the report shall be certification that the engineering department conditions are satisfactory except as noted. Copies of such reports will be forwarded to the Deputy Commander for Nuclear Propulsion, Naval Sea Systems Command, in addition to other required distribution.

6. Report. This report is exempt from reports control by reference (c).

(A)

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Engineering Department Change of Command Inspection List

General. All abnormalities, unsatisfactory conditions or deficiencies noted during the inspection of the following items shall be listed and significant deficiencies included in the change of command report. If any deficiencies identified are of such a nature as to be considered by the relieving commanding officer or any superior as an unsatisfactory condition, the change of command report shall be submitted via the chain of command as prescribed in reference (a).

(R)

I. AdministrationA. Preventive Maintenance Program

1. Review records to determine if they are in accordance with current instructions.
2. Review preventive maintenance items. List any that are overdue.

B. Publications

1. Inventory technical manuals to determine that required reference material is on board and that changes are up-to-date and properly entered.
2. Check all volumes of the Reactor Plant Manual for conditions and entry of latest changes.

C. Logs

1. Review the Engineering Log.
2. Review primary and secondary chemistry logs, graphs, records, and reports.
3. Conduct an inventory and audit of radioactive and fissionable material receipt and transfer. Review all records associated with radioactive discharge or transfer of radioactive material.
4. Review the Propulsion Plant Status File and the Equipment Status Log.

D. Inspection Documents

1. Review applicable portions of the report of the most recent Operational Reactor Safeguards Examination and

Enclosure (1)

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the status of corrective action.

2. Review latest INSURV Board of Inspection report. Summarize status of corrective actions required.

3. Review applicable portions of the most recent Command Inspection Report and status of corrective action.

E. Conduct an audit of all current tagout documents.

* F. Review Engineering Department Organization Manual. Note and list any deviation from, or lack of compliance with, the Engineering Department Manual for Naval Nuclear Propulsion Plants (NAVSHIPS 0989-019-2000) or other directives of higher authority.

* G. Review radiation health program including results of latest audit.

* H. Review Nuclear Accident/Incident documentation and procedures.

II. Personnel

* A. Complement

1. Compare assigned personnel, by rate and Navy Enlisted Classification code, against ship's authorized allowance.

2. Review personnel receipts and transfers pending, tour completion dates, allowance change requests, and related matters.

* B. Qualification

1. Review qualification records and note any discrepancies. Compare level of individual qualifications achieved with rate and time on board.

2. List any personnel delinquent in qualification.

3. Review total numbers of personnel qualified for each watch station to determine ability to satisfactorily man a 3-section underway and inport watch.

4. Review biennial requalification program and status of periodic watch requalification of personnel assigned. List personnel overdue for requalification.

Enclosure (1)

5. Review officer progress in submarine or surface warfare qualification, EOWW qualification, and Prospective Engineer Officer qualification. Review command's annual planning letter to the Bureau of Naval Personnel. Note and list any discrepancies.

6. Review status of qualification of Welders and Engineering Laboratory Technicians.

* C. Training

1. Observe proficiency of propulsion plant operators while conducting actual plant operations. Observe each watch section conduct a representative number of propulsion plant evolutions and drills.

2. Review training records for adequacy and thoroughness.

3. Review the long range training program.

4. Review the status of training course graduates as required by directives of higher authority.

III. Material

A. Identify all components or equipment that are in an out-of-commission or reduced operational status. Review planned corrective action.

B. Review outstanding repair and/or work lists.

C. Conduct an inspection of fluid systems paying particular attention to:

1. Insulation - inspect for damaged, missing or wet insulation.

2. Hangers - verify that installed hangers are properly connected, resilient mounts are not sound shorted, and there are no missing clamps or fasteners.

3. Piping and components (including foundations) - inspect for damage, corrosion, leaks, and the presence of required locking devices. Check to determine that freedom of motion for component or foundation sliding feet is not restricted.

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4. Valves - inspect for items such as:

a. Missing or damaged valve caps, valve cap vent plugs, o-rings, hand wheels, and locking devices.

b. Permanent identification by system valve number and proper color coding of hand wheels.

c. Location and proper storage of tools required for operating valves.

5. Sound Shorts - inspect resilient mounted components for sound shorts caused by improper stowage, unauthorized attachments, improper preservation of mounts, improperly installed ground straps, or similar deficiencies. Verify that solidly mounted piping or equipment is not improperly in contact with sound isolated machinery.

6. Cleanliness - inspect for the presence of clogged drain funnels or bilge suctions, salt deposits or verdigris on components, and opaque gauge glasses.

D. Conduct an inspection of electrical panels, paying particular attention to:

1. Cleanliness - inspect for presence of foreign material or adrift hardware.

2. Nameplates and markers - inspect for illegible, missing, broken, and painted over nameplates.

3. Miscellaneous - inspect for broken switches, inoperative or uncalibrated meters, missing fuses, and unauthorized attachments to panels.

E. Conduct a below-decks inspection, paying particular attention to stowage, cleanliness, and absence of unauthorized alterations.

F. Inspect preservation, particularly of foundations and bilges.

G. Review status of equipment and spare parts and note any shortages.

Notes

1. Asterisks (*) indicate those items not applicable to SSBN crew exchange.

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2. For ships organized with separate Engineering and Reactor Departments, inspection requirements listed above for the Engineering Department shall similarly apply to the Reactor Department.