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DEPARTMENT OF THE NAVY
NAVAL SEA SYSTEMS COMMAND
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IN REPLY REFER TO
NAVSEAINST 4855.30A
Ser 07/Q071
8 December 1995

NAVSEA INSTRUCTION 4855.30A

From: Commander, Naval Sea Systems Command

Subj: CONTROL OF NON-LEVEL MATERIAL

Ref: (a) NAVSEA 0948-LP-045-7010, Material Control Standard (Non-Nuclear)
(b) NAVSEA 0900-LP-070-6010, Material Control Standard
(c) NAVSEAINST C9210.34, All Nuclear Projects - Material Identification and Control Requirements for Naval Nuclear Reactor Plant Piping Systems (U)

Encl: (1) Requirements for Shipyard Control of Non-level Materials to be Installed in Permanent Shipboard Applications Affecting Ship Reliability and Safety R)

1. Purpose. To reissue Naval Sea Systems Command (NAVSEA) policy and responsibility for the development and implementation of controls for non-level material.

2. Cancellation. NAVSEAINST 4855.30 of 27 November 1981.

3. Scope. This instruction applies to all non-level materials to be permanently installed in naval ships during construction, repair and overhaul, that are not controlled by other NAVSEA documents such as references (a), (b) and (c).

4. Requirements. When not already required by other documents, non-level material to be installed in permanent shipboard applications shall be controlled to assure conformance to specifications. Special emphasis shall be given to metallic materials listed in enclosure (1). Although different materials will require varying levels of control according to their kind, source, application and quality history, as a minimum, materials to be installed in permanent shipboard applications shall be: R)

a. Identified by one or more of the following: nomenclature and technical description, national stock number, material specification, or other industry recognized form of identification from receipt through fabrication or installation.

b. Visually verified at fabrication or installation as being identical to material specified on the drawing or installation plan, or on the document approving substitute material. Material traceability is not required.

5. Action. R)

a. Engineering Directorate (SEA 03).

(1) Incorporate the requirements of this instruction in future combatant shipbuilding specifications. For contracts which invoke the requirements of this instruction, private shipyards are required to:

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(a) Develop and implement procedures for assuring that non-level material conforms to specifications.

(b) Ensure that only the appropriate shipyard engineering organization approves all requests for waivers, deviations and substitutions of non-level material and, where required, obtain the approval of NAVSEA or its designated engineering authority

(2) Provide technical direction for the development of improved non-level material control in the supply system.

b. Naval Shipyard and SUPSHIP Management and Field Activity Support Directorate (SEA 07).

(1) Provide NAVSEA policy guidance to SEA 07 field activities for the uniform implementation of non-level material control requirements.

(2) Ensure naval shipyards establish and implement a system for controlling non-level material.

(3) Ensure that Supervisors of Shipbuilding verify the adequacy of contractor controls for assuring that non-level material conforms to specifications.

(4) Provide quality guidance to Naval Supply Systems Command (NAVSUP) and Defense Logistics Agency (DLA) to ensure that adequate procurement and material controls are used for non-level supply system material.

c. Surface Ship Directorate (SEA 91) and Submarine Directorate (SEA 92).

(1) Incorporate the requirements of this instruction in specifications for shipbuilding, conversion, overhaul and repair contracts for combatant ships. For contracts which invoke the requirements of this instruction, private shipyards are required to:

(a) Develop and implement procedures for assuring that non-level material conforms to specifications.

(b) Ensure that only the appropriate shipyard engineering organization approves all requests for waivers, deviations and substitutions of non-level material and, where required, obtain the approval of NAVSEA or its designated engineering authority.

d. Naval Shipyards.

(1) Develop and implement procedures and processes that incorporate the requirements of this instruction as well as other quality requirements that will assist in assuring that procured non-level material conforms to specifications.

(2) Ensure that only the shipyard technical authority approves all requests for waivers, deviations and substitutions of non-level material and, where required, obtain the approval of NAVSEA or its designated engineering authority.

e. Supervisors of Shipbuilding, Conversion and Repair.

(1) Conduct audits of shipyard controls for ensuring that non-level material conforms to specifications. Such audits shall cover both the adequacy of shipyard controls and shipyard compliance with contract requirements.

(2) Ensure that only the appropriate shipyard engineering organization approves all requests for waivers, deviations and substitutions of non-level material and, where required, obtain the approval of NAVSEA or its designated engineering authority.

T. J. PORTER
Rear Admiral USN
Deputy Commander,
Naval Shipyard and SUPSHIP
Management and Field
Activity Support

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REQUIREMENTS FOR SHIPYARD CONTROL OF NON-LEVEL MATERIALS TO BE INSTALLED IN PERMANENT SHIPBOARD APPLICATIONS AFFECTING SHIP RELIABILITY AND SAFETY

1. The degree of shipyard receipt inspection of material for compliance with technical specification requirements shall be based upon verification of vendor material test certification data, supplier performance history, or testing using sampling techniques. Unless otherwise specified by NAVSEA, material provided by the stock system does not require receipt inspection provided it is properly identified as required by paragraph 4. Shipyard evaluation of supplier performance history should include the use of NAVSEA Material Quality Assessment Office contractor evaluation system data. R)

2. As a minimum, shipyards shall apply these controls to the following types of metallic material to be installed in permanent shipboard applications affecting ship reliability and safety:

a. PLATE: Greater than 3/8" thick - all materials.

b. SHAPES: Structural items - minimum 2 x 2 x 1/4"*.

c. PIPE: All sizes and materials (excluding copper).

d. TUBING: All sizes and materials (excluding copper).

e. BAR STOCK: Greater than 3/8" thick - all materials.

f. WELDING/BRAZING RODS: All sizes and materials.

g. FASTENERS: Limited to studs, bolts, stud bolts, cap screws, and nuts 1/2" and larger. (Does not include wood screws, sheet metal screws, and carriage bolts.)

h. FITTINGS: All welded and brazed fittings. (Does not include threaded fittings, or fittings used with copper pipe and tubing.)

i. Other Materials as NAVSEA specifically directs or as determined by the shipyard.

* All three dimensions (in inches), where 1/4 refers to thickness, must be met or exceeded.