



DEPARTMENT OF THE NAVY

NAVAL SEA SYSTEMS COMMAND
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IN REPLY TO

NAVSEAINST 9098.2B
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3 Mar 03

NAVSEA INSTRUCTION 9098.2B

From: Commander, Naval Sea Systems Command

Subj: NAVAL SEA SYSTEMS COMMAND SHIP MODEL PROGRAM

Encl: 1 Procedures and Responsibilities for Procuring Ship Models

1. Purpose. To outline procedures and describe responsibilities for the procurement of U. S. Naval ship models.

2. Cancellation. NAVSEAINST 9098.2A of 26 Sept 1985.

3. Definitions

a. Exhibition Model. A reduced-scale facsimile of a ship depicting most features in detail and used for general public exhibition purposes.

b. Design Model. A relatively austere scaled-down facsimile of a ship prepared during the design phase. Parts are constructed in sufficient detail to permit three-dimensional evaluation of topside arrangements.

4 Discussion

a. The Naval Sea Systems Command (NAVSEA) holds perhaps the world's largest collection of design and exhibition ship models—over 2000 units. This collection has an ongoing need to also include the most modern ships. In the past, models were routinely created and sent to the collection as part of the NAVSEA controlled design and acquisition process. PEO's should now plan to produce the models and transfer them to NAVSEA.

b. Ship models have three distinct phases of utility. They are first used for technical display: conferences, symposia, training, orientation, and as visual aids to illustrate the shipbuilding program to a technical audience. The model signifies the end-product of a current or future endeavor.

NAVSEAINST 9098.2B

03 MAR 2003

Secondly, the same model represents an active ship of the fleet and has public relations value, for it represents the current fleet in miniature. In the third phase, the model becomes an increasingly valuable historic object, which documents past designs and the evolution of naval engineering.

5. Action. PEO's should follow the procedures in enclosure (1) for procuring ship models.



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03 MAR 2003

Procedures and Responsibilities for Procuring Ship Models

1. The Curatorial Unit of the Naval Surface Warfare Center-Carderock Division (NSWCCD), Bethesda, MD, is jointly sponsored by NAVSEA and NSWC-CD. The Curator of Models (Code 301), under staff control of the Director of Congressional and Public Affairs (SEA 00D), will:
 - a. Provide custody, inventory control, maintenance and conservation of models.
 - b. Prepare specifications for exhibition models and related display cases, and maintain an up-to-date list of model builders for bid purposes.
 - c. Provide Program Objectives Memorandum (POM) cost estimates for exhibition ship models prior to 15 January of each year.
2. Office of Congressional and Public Affairs will:
 - a. Process all documents and correspondence relative to the execution of model loan contract and authorization for public release.
 - b. Maintain and update NAVSEA records on the model program and coordinate issuance and renewal of all NAVSEA ship model loan contracts and relevant insurance documents to protect U.S. Government property.
 - c. With assistance from Curator of Models, Naval Surface Weapons Center-Carderock Division (Code 301), coordinate responses to all correspondence on NAVSEA's model collection; process requests for loans of models, maintain an internal model loan status list, and coordinate responses to higher authority.

Enclosure (1)

03 MAR 2003

d. Reply to correspondence from the general public regarding the NAVSEA model program.

3. Office of Security will:

a. In conjunction with cognizant technical review, provide comments/concurrence on security classification of model drawings/pictures.

b. Assign distribution statement as appropriate.

4. Exhibition Model. The Program Executive Office (PEO) will initiate the request for exhibition models and provide suitable plans, drawings, funding and other associated data to the Curator.

a. Budgeting. Costs for exhibition models are non-recurring and chargeable to the applicable acquisition appropriation. PEO's will budget for ship models as an end-item cost of lead or follow ships, based on the criteria provided in paragraph 4(e). The Curator, before 15 January of each year, will provide PEO's and SEA 01 with cost estimates for models to be procured in succeeding program years. The Curator will also provide updated cost estimates as required until time of execution.

b. Schedule. The model is required by the delivery date of the ship it represents. To be most beneficial, the model should represent, as accurately and as early as possible, the final general design of the ship. Work on the model can begin as soon as the hull form, superstructure, and placement of weapons and sensors has been determined, usually about the time the system functional design is finalized. Minor variations and small changes, within reason, can be made at a later time.

c. Procurement. Exhibition models may be procured two ways:

1 As a part of the shipbuilding contract.

(2) As a separate procurement action from a qualified model building firm:

(a) through a competitive contract in consultation with the Curator;

(b) through the Curator.

03 MAR 2003

Shipbuilders will subcontract models to private firms if they do not have in-house capability. In recent years, considerable savings have been realized by using the method in paragraph 5c(2) (a). The Curator maintains lists of qualified potential bidders for model work, and is capable of handling procurement of models for PEO's, using NAVCOMPT form 2275 or 2276, "Order for Work and Services." However, NSWC-CD will charge labor and overhead rates for financial management time expended in the procurement action. In order to assure fiscal expediency, prices negotiated with contract model builders under paragraph 5c(1) and 5c(2) (a), shall be approved by the Curator.

d. Scale and Size. NAVSEA models are initially procured as visual aids and must be of appropriate size for public display. For uniformity, standard (non-metric) historical scales shall be employed. Models shall not be procured in scales other than 1/16", 1/8", or 1/4"=1 foot, without the expressed permission of the Curator. Model encasing, in any scale, shall not be less than 48" long.

e. Scale and Quantity. Exhibition models shall be procured in the following scales and quantities:

1 Aircraft carriers and amphibious assault ships:

(a) First of class: one (1) model in 1/8"= 1 ft scale, with museum-type display case and typical aircraft on deck; two (2) models in 1/16"= 1 ft scale, with aircraft.

(b) Each follow-on: one 1 model in 1/16"= 1 ft scale with aircraft.

(2) Major surface combatants and amphibious warfare ships:

(a) First of class: one (1) model in 1/4"= 1 ft scale with museum-type case; two (2) models in 1/8"=1 ft scale.

(b) Each follow-on: no models required

03 MAR 2003

3) Submarines:

(a) First of class: three (3) models in 1/8"= 1 ft. scale.

(b) Each follow-on: one (1) model in 1/8"=1 ft. scale.

4 Auxiliaries:

(a) First of class: one (1) model in 1/8"= 1 ft. scale.

(b) Follow-on: no models required.

Mine Warfare ships:

(a) First of class: one 1 model in 1/4"= 1 ft. scale.

(b) Follow-on: no models required.

Small craft and floating drydocks:

(a) First of class: two (2) models in a scale to be determined by size of vessel.

(b) Follow-on: no models required on selected programs.

(7) Conversions and significant rebuilds for selected programs:

(a) Combatants more than 700' long: two (2) models in 1/16"= 1 ft. scale.

(b) Combatants less than 700' long: two (2) models in 1/8"=1 ft. scale.

(c) Auxiliaries and others: one 1 model in 1/8"= 1 ft. scale.

Display cases

(a) Museum-type display cases shall conform to NSWC-CD plan E-1 856.

(b) All other display cases shall conform to NSWC-CD plan E-19 12.

f. Model Specifications. Exhibition models shall be constructed in conformance with standard model specifications provided by the Curator.

5. Design Models. The PEO's may procure design models for combatant ships and other selected ships when, in the opinion of the PEO, the new design departs sufficiently from previous design that construction and use of such a model is warranted. This model shall be constructed generally to the scale of 1:50 (or 1/4 inch to the foot) for ships and craft, under 50 meters (approximately 160 feet) long, 1:100 (or 1/8 inch to the foot) for ships from 50 to 120 meters (approximately 160 to 400 feet) long, and 1:200 or (1/16 inch to the foot) for ships longer than 120 meters (approximately 400 feet) long. If such models are constructed, SEA OOD will determine final disposition of model after completion of its use in the design work. Machinery space models and mockups fall under the purview of NAVSEAINST 9098.1A.