

DEPARTMENT OF THE NAVY
Office of the Chief of Naval Operations
Washington, D.C. 20350-2000

OPNAVINST 3140.55
OP-006
5 March 1987

OPNAV INSTRUCTION 3140.55

From: Chief of Naval Operations
To: All Ships and Stations

Subj: SUBMISSION OF REQUIREMENTS FOR
MAPPING, CHARTING, AND GEODESY
(MC&G) PRODUCTS AND SERVICES

- Ref:**
- (a) DMAINST 8050.4, Submission and Validation of Mapping, Charting, and Geodesy Requirements. (NOTAL)
 - (b) DMAINST 8052.1, Validation of Requirements for New or Modified Non-Crisis Mapping, Charting and Geodetic (MC&G) Products and Services. (NOTAL)
 - (c) DMAINST 8240.1, Management of Department of Defense (DOD) Geodetic and Geophysical (G&G) Survey Resources. (NOTAL)
 - (d) DMAINST 8660.9, Procedures for Requesting DMA Digital Mapping, Charting, and Geodesy (MC&G) Data by Weapon System Developers/Vendors for Research, Development, and Acquisition. (NOTAL)

- Encl:**
- (1) Definitions
 - (2) Procedures for Submission of Requirements for New Modified or Unprogrammed MC&G Products
 - (3) DMA Form 8660-6, DMA Digital Data Base Request

1. Purpose. To promulgate Department of Navy (DON) policy and procedures for submitting requirements for Mapping, Charting, and Geodesy (MC&G) products and services. This instruction consolidates the information contained in references (a) through (d).

2. Cancellation. OPNAVINST 3160.18 and OPNAV 3160-3, OPNAV 3160-4 and OPNAV 3160-5.

3. Background. The Director, Defense Mapping Agency (DMA) is the program manager for all Department of Defense MC&G programs. The submission of MC&G requirements and their priorities to DMA by the Unified and Specified (U&S) Commands and Military Services establishes the basis for data collection and production of standard, revised, and new MC&G products.

4. Applicability. The policy and procedures set forth in this directive are applicable to all Navy activities.

a. Navy activities reporting to operational commanders will submit requirements for all MC&G products and

services to their fleet commander in chief via the chain of command following fleet commanders in chief guidance.

b. Navy activities not reporting to an operational commander will submit requirements for all MC&G products and services to Chief of Naval Operations (CNO) (OP-006) via Commander, Naval Oceanography Command (COMNAVOCEANCOM). COMNAVOCEANCOM is CNO's executive agent for evaluation, coordination and review of MC&G requirements.

5. Definitions. See enclosure (1).

6. Policy. All requirements for MC&G products, or services originated by Navy activities or Navy-sponsored contractors, will be forwarded to DMA via the fleet commanders in chief or CNO.

a. Existing DMA products may be requisitioned per the DMA catalog.

b. Reference (a) requires annual review of requirements for existing MC&G products and services. DMA provides specific guidance to those activities responsible for conducting the annual Area Requirement revalidation.

c. Research, Development, and Acquisition (RDA) activities will ensure that systems are designed to use standard MC&G products to the maximum extent possible. Submit anticipated new or modified product requirements as soon as they are identified. Program sponsors who require unique, system-specific, MC&G products may be required to program and fund the marginal costs to DMA for production of those products.

d. Requirements for unprogrammed MC&G products, services, or Geodetic and Geophysical (G&G) surveys which are needed to satisfy an unanticipated requirement with a near-term response may be submitted, when identified, to DMA via the appropriate chain of command.

7. Procedures

a. Fleet commanders in chief will:

(1) Submit requirements for standard MC&G products and services to DMA via the unified commander per current unified command guidance.

(2) Submit requirements for new products to CNO (OP-006) via COMNAVOCEANCOM per enclosure (2). An endorsement by the unified commander should be obtained when the new requirement may have applicability to other services or is in specific support of an operational or contingency plan in his area of responsibility.

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b. COMNAVOCEANCOM will:

(1) Review, coordinate, and evaluate for CNO (OP-006) all MC&G requirements from Navy activities who do not report to operational commanders and new MC&G requirements from fleet commanders in chief.

(2) Submit all MC&G requirements to CNO (OP-006) for validation, prioritization, and forwarding to DMA.

(3) Maintain current status information on the above Navy MC&G requirements and associated priorities for CNO (OP-006).

(4) Conduct an annual review of Area and New Product Requirements in support of the DMA Area Requirements review process, submitting the consolidated requirements of all Navy activities to CNO (OP-006) per procedures defined in reference (a).

(5) Review out-of-cycle Area, New Product, and G&G Survey Requirements under procedures outlined in enclosure (2).

c. Navy activities will submit requirements for new or unprogrammed MC&G products, services, and G&G surveys per procedures outlined in enclosures (2) and (3).

d. Ensure MC&G requirements are identified and documented at the earliest possible time in the program development process.

8. Request for Technical Assistance. Commands or activities requiring technical guidance or consulting services concerning MC&G matters should contact COMNAVOCEANCOM. No specific format is required but requests should include a brief statement of the problem, the capability or product desired, and a point of contact.

9. Report. The reporting requirements contained in this instruction are exempt from reports control by OPNAVINST 5214.7.

J. R. SEESHOLTZ
Oceanographer of the Navy

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DEFINITIONS

1. Geodetic and Geophysical (G&G) Surveys - G&G surveys are required to support the testing and deployment of DoD weapon systems. G&G surveys include the acquisition of the following data: geodetic/astronomic coordinates; bathymetric data; mean gravity anomalies, deflection of the vertical, geoid heights; geodetic datum conversion factors; and magnetic or gravity data.

2. MC&G Requirement - A requirement for an MC&G product or service identified by a user to support planning, testing, or operational deployment of weapon systems, stated in terms of specific geographic area, intended uses and required accuracies. Basic types of MC&G requirement are:

a. Area Requirements are requirements for products in any geographic location. Reference (a) requires an annual validation of Area Requirements by selected activities.

b. Unprogrammed requirements are requirements for MC&G products, or services, which were not validated as part of the last Area Requirements cycle, and are not available from DMA, but are needed to satisfy an unanticipated requirement with a near-term response.

c. New Product Requirements are requirements for a completely new MC&G product, or a modified existing product.

d. Distribution Requirements are requirements for existing products to be forwarded to specific users.

Enclosure (1)

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PROCEDURES FOR SUBMISSION
OF
NEW OR UNPROGRAMMED MC&G REQUIREMENTS

1. General

a. To ensure that DMA has the capacity and resources to produce and provide new or modified MC&G products or services supporting advanced systems, it is essential to identify those requirements early in the development cycle of the system. Once the new product is established within DMA, the Area Requirements process, described in reference (a), is the framework which DMA will use to provide the needed area coverage for those products.

b. Unprogrammed requirements for products, services or G&G surveys should be kept to an absolute minimum. These requirements are more costly to satisfy when they are out of cycle from the annual Area Requirements production planning process. They also disrupt the production of those products in work within DMA.

2. Scope. This enclosure defines the procedures for submitting Navy MC&G requirements:

a. Resulting from changes in concepts and doctrine.

b. For Navy systems requiring new, or modified product support for either research, development, and testing or for operational support.

c. For unprogrammed requirements that include, but are not limited to, the following:

(1) Special chart frameouts.

(2) Special one-time area coverage of a map, chart, data base, etc.

(3) Special data overprints on existing products.

(4) Special formatting of digital and analog data.

(5) Special studies, technical data, etc.

(6) G&G surveys.

3. Procedures

a. Navy activities and program sponsors will submit

requirements to CNO (OP-006) via COMNAVOCEANCOM in the format defined in paragraph 4 below. Requirements may be submitted at any time. Considerable lead time may be required for the development and production of a new product.

b. Commander, Space and Naval Warfare Systems Command (COMSPAWARSYSCOM) SPAWAR Code 3211, should be provided a copy of any requirement submitted by a Systems Command (SYSCOM) or Navy Laboratory.

c. Technical assistance in developing MC&G product requirements and defining MC&G parameters may be initiated by contacting COMNAVOCEANCOM.

d. COMNAVOCEANCOM will evaluate the requirements received. Evaluation categories of requirements are:

(1) Met by an existing product.

(2) An unprogrammed requirement satisfied by special support outlined in paragraph 2c of this enclosure.

(3) Met by a new or modified existing product.

e. Requirements in category 1 will be returned to the originator with directions to use the specified DMA product.

f. Requirements in category 2 will be forwarded to DMA via CNO (OP-006).

g. Category 3 requirements will be referred via CNO (OP-006) to DMA for cost estimates. Those requirements which cannot be met within DMA resources will be referred to the DoD MC&G Requirements and Programs Review Group. This group will either direct DMA to fund and produce the required products or direct the Navy (Program Sponsor) to program and fund the costs which will be incurred by DMA to produce the unique new or modified product.

h. COMNAVOCEANCOM will review all new or unprogrammed requirements received during the year and ensure that those requirements are considered in the next annual Area Requirements submission.

4. Statement of Requirements (SOR). The SOR is the basis for DMA development of a suitable MC&G product or service. The SOR should contain the following information as it can best be determined:

a. Description of the supported system or activity.

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- b. Definition and intended use of the required product or support.
- c. Assessment of impact on development, test, evaluation or operational commitment if the product or service is not provided as requested.
- d. Specific content and accuracy requirements, correlated with the technical characteristics and accuracies of the supported system, or activity.
- e. Identification of closely related existing products and a statement of why they are unsuitable for your use.
- f. Initial area of coverage required for development, test and evaluation and expected area of coverage for operational use.
- g. Priority and precedence order for production.
- h. Maintenance requirements and predicted life expectancy.
- i. Geodetic and Geophysical (G&G) survey requirements, if any.
- j. Required delivery date.
- k. A sketch, illustration or marked-up copy of an existing product, as appropriate.
- l. Distribution list and identification of bulk storage location, as appropriate.
- m. Requests for digital data will include a completed DMA Form 8660-6, DMA Digital Data Base Request (enclosure 3).
- n. Programs being supported by a contractor that require digital data must also include:
 - (1) A copy of the MC&G data specifications from the contract.
 - (2) A copy of all MC&G data specifications, both draft and final, as they emerge.
 - (3) Certification that DMA digital data will be destroyed or returned upon termination of the contract.

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(4) DMA is to be kept informed of MC&G progress and pertinent changes in scope on a semiannual basis through progress reports.

o. Additional information, as appropriate.

