

137 SHIP NAVIGATION AND TRAFFIC AIDS-BUILDINGS

This code group applies to buildings for housing sea traffic control, navigation aids and navigation services.

137 10 METEOROLOGY AND OCEANOGRAPHY BUILDING (sq.m./SF)

A Meteorology and Oceanography building houses strategically located Naval Meteorology and Oceanography Centers (NAVMETOCEN) and Naval Meteorology and Oceanography Facilities (NAVMETOCFAC). NAVMETOCENs and NAVMETOCFACs provide the Naval Operating Forces and Shore Establishment with meteorological and oceanographic data for air, surface and subsurface operations. NAVMETOCENs and NAVMETOCFACs are established by the Chief of Naval Operations in specifically designated areas and are assigned common and selected additional functions by the Commander, Naval Meteorology and Oceanography Command (COMNAVMETOCCOM).

Both NAVMETOCENs and NAVMETOCFACs provide 24-hour operational support. The number of personnel per shift varies with the location and the assigned tasks of the activity. NAVMETOCENs are assigned more extensive operational, scientific and geographic responsibilities than the NAVMETOCFACs. Additionally, NAVMETOCENs coordinate with NAVMETOCFACs within their assigned area of responsibility to ensure quality and continuity of service. As a result of their more complex mission, NAVMETOCENs have a larger space requirement than NAVMETOCFACs.

The functional areas of both the NAVMETOCENs and NAVMETOCFACs include: administrative, meteorological and oceanographic operations, communications, computer, technical and professional hi, training, maintenance and storage. Electronic display equipment installed in the Meteorological and Oceanographic Operations space include the Tactical Environmental Support System (TESS (3)), Meteorological Satellite Data Receiver - Recorder (AN/SMQ-11), Next Generation Radar (NEXRAD), Joint Operations Tactical System (JOTS) and the Naval Satellite Display System-Geostationary (NSDS-G). "Centers and Facilities" may also be required to support an equipment maintenance shop. The assignment of a Mobile Environmental Team to a "Center" or "Facility" authorizes up to an additional 386 sq.m. (4,150 SF) of space to accommodate those functions.

Subordinate to Naval Meteorology and Oceanography Centers/Facilities are Naval Meteorology and Oceanography Detachments (NAVMETOC DET) whose space is normally included in the Air Operations Building at Naval Air Activities. See Category Code 141-40 for space requirement.

See Section 7 of MIL-HDBK-1024/1 Aviation Operational and Support Facilities of 15 Feb 94 for design criteria. Typical area requirements for the functions of a Naval Meteorology and Oceanography Center and Facility are listed in Table 137-10. Space requirements noted indicate maximum gross square footage allowances including mechanical equipment. Each activity's space requirements are determined individually on the basis of assigned functions.

TABLE 137-10
METEOROLOGY AND OCEANOGRAPHY BUILDING
Typical Area Requirements

Functions	<u>Facility</u>		<u>Center</u>	
	<u>sq.m.</u>	<u>SF</u>	<u>sq.m.</u>	<u>SF</u>
Administrative, Including Regional, Conference, Library, Related Furnishings and Equipment	409	4,400	780	8,400
Operations, Including Related METOC Equipment	251	2,700	399	4,300
Electronic/ADP/AIS Systems and Related Support Equipment	102	1,100	344	3,700
Mobile Environmental Team, Including Storage	*279	*3,000	*386	*4,150
Optimum Track Ship Routing	----	----	37	400
Equipment Service, Maintenance and Storage	232	2,500	269	2,900
Exclusion Areas	----	----	139	1,500
Classified Communications (Includes Vault or * *SCIF)	111	1,200	111	1,200
Unclassified Communications	<u>28</u>	<u>300</u>	<u>42</u>	<u>450</u>
Total Gross Area	1,412 sq.m. 15,200 SF		2,507 sq.m. 27,000 SF	
Rounded Total Gross Area	1,410 sq.m. 15,200 SF		2,510 sq.m. 27,000 SF	

* Only When Assigned

* *Sensitive Compartmented Information Facility

137 20 LIGHTHOUSE (sq.m./SF)

A lighthouse is a structure that houses a navigation beacon that may emit light, sound, radio, radar, or a combination thereof. It may be onshore or offshore. Criteria are supplied by the U.S. Coast Guard. Construction is done overseas when appropriate by the Naval Facilities Engineering Command. See Communications, Navigational Aids and Airfield Lighting, NAVFAC DM-23.

137 30 LORAN BUILDING (sq.m./SF)

Loran buildings house facilities which provide long-range navigational aid to ships. Loran facilities are under the cognizance of the U.S. Coast Guard. The Coast Guard provides criteria and design and contracts for construction. The Naval Facilities Engineering Command performs the construction occasionally by the contract at overseas locations. Two types of Loran are current and have criteria existing. These are:

LORAN A--This consists of a single structure known as the Signal Power Building. The building is approximately 30 x 200 feet, or 6,000 square feet

LORAN C--This is housed preferably in three buildings:

- (1) Transmitter Building 30 x 60 feet, or 1,800 square feet.
- (2) Signal Power Building 30 x 200 feet, or 1,800 square feet.
- (3) Barracks and Subsistence Building. Size unspecified.

See Communication, Navigational Aids, and Airfield Lighting. NAVFAC DM-23.

137 32 DECCA BUILDING (SF)

137 33 NAVIGATION AID TEST CENTER (SF)

No criteria are currently available for Code 137 32 and 33.

137 40 SHIP MOVEMENTS OFFICE (SF)

This facility, which is under the cognizance of the officer in charge of port operations, provides the administrative space for the functions associated with the management of a naval port. The staff for this office will also include such members as the dispatcher, dock master and harbor master. Several of the functions performed are: coordinating logistic support and harbor services, coordinating all movement of ships within the port as well as those entering and leaving, assigning ship berthing spaces, and providing pilots, operating tugs, service craft and small boats. The space for the office proper is based on the number of administrative people assigned. (See category code 610-10 for space allowances).

In conjunction with the office space, a control tower with an unobstructed view of the entrance channel and berthing area may be provided. The tower space requirements should not exceed 600 gross square feet.

For support requirements, see corresponding category code 159-64, Waterfront Operations Support building.