

143 SHIP AND OTHER OPERATIONAL-BUILDINGS

143 10 EMERGENCY VEHICLE GARAGE (SF)

This is a shelter for official emergency and alert vehicles on call, such as ambulances and the like. It is planned where required and specifically justified to keep the vehicles available for immediate response. Shelter for structural and aircraft fire and rescue vehicles are provided for under Codes 141 20, 141 25 and 730 10. The shelter protects the alert vehicle from extremes of weather to improve operational availability. It provides only shelter for the vehicle. Vehicle service, personnel accommodations, and the like are provided elsewhere.

Ambulance Shelters. Ambulance shelters in the form of a garage or carport are authorized as part of a military hospital complex. The following criteria apply at Navy/Marine Corps installations:

A garage may be provided where the heating design temperature on 97-1/2 percent basis is less than 11°F dry bulb.

A carport may be provided where the air conditioning design temperature on the 10 percent basis exceeds 87°F dry bulb.

All design temperatures shall be obtained from NAVFAC P-89.

Both the garage and carport will be limited to 700 net square feet (will accommodate two ambulances). Should more than a two ambulance shelter be required, special justification will be submitted with preliminary study for approval by DOD.

The garage will normally be detached from the hospital proper.

Official Emergency and Alert Vehicles (Except Ambulances). For planning purposes provide:

430 square feet gross for a single vehicle garage.

660 square feet for a two-vehicle garage.

The size of the garage is determined by the vehicle area plus nominal clearances surrounding the vehicle.

143 11 OPERATIONAL VEHICLE GARAGE (SF)

An operational vehicle garage is used for the storage of vehicles which are not utilized on a daily basis and which are exposed to adverse weather conditions that would have a detrimental effect upon them if stored out in the open. Accordingly, the type of vehicle stored, frequency of use and climatic conditions, will determine whether this type of facility is warranted. Written authorization must be obtained from the Naval Facilities Engineering Command Headquarters, Code 1202, Transportation Division, Equipment Operations and Maintenance Branch, prior to programming a requirement for this facility. Sufficient data must be submitted with the request that would provide adequate information to determine whether the construction of this type of facility is justified at the activity requested.

Examples that would warrant this type of facility are: the requirement to protect earthmoving equipment at those activities located in the Pacific which are exposed to salt air, or snow removal equipment located in the northern area of CONUS, which are used only during a small portion of the year.

The total gross area for this facility can be determined when the number and type of each vehicle is known. This can be calculated by adding four feet to the length and width of each vehicle, multiplying these dimensions to determine the area required for each vehicle, and adding these areas to arrive at the total area required for the storage of all vehicles. If an existing facility is converted to this use, an increase of fifteen percent may be added to the total area in order to compensate for incompatible column spacing, wall, etc.

In those instances when the dimensions of vehicles are not available, or are subject to drastic change, Table 143-11 may be used as broad planning guidance for use in determining the gross square footage requirement for this facility, which is based upon the number and types of vehicles to be stored.

In all situations, a "JAM", i.e., first in, last out, type of storage is to be provided since one of the requirements for this type of facility is that the vehicles are stored only during those periods when they are inactive for a long period of time or portion of the year. The following are examples of the types of vehicles stored: (a) Construction Equipment such as road graders, bulldozers, paving equipment, dump trucks, (CESE Allied Equipment) etc., and (b) Special Purpose Vehicles such as snow plows, portable generators, etc.

TABLE 143-11
Storage Space Allowances (SF) Per Vehicle

Type of Equipment	Total SF Allowance Per Vehicle
Special Purpose Vehicles	350
Construction Equipment	410

143 15 RANGE OPERATIONS CENTER (SF)

A range operations center is the control point for testing torpedoes, calibrating ships' firing systems, and training pilots and testing aircraft on gunnery and bombing ranges. The center will vary with the equipment and control areas required. Standard planning factors for a center are not available. Its size must be planned to support the equipment and control areas to be housed.

143 17 SPACE SURVEILLANCE FACILITY (SF)

Currently, criteria is not available.

143 20 ORDNANCE OPERATIONS BUILDING (SF)

An ordnance operations building is authorized where there is a need to control an ordnance operation. Ordnance operations are those involving ammunition storage, handling or disposal.

AMMUNITION STORAGE OR HANDLING ACTIVITY BUILDING. In an ammunition storage or handling activity, such as an ammunition depot, the authorized building space is 150 gross SF per person for administrative personnel and 50 gross SF per person for operating personnel (ammunition handlers, etc.). This provides space for an office, assembly and briefing room for ammunition handlers, locker room, and storage space for ammunition handling tools and equipment.

EXPLOSIVE ORDNANCE DISPOSAL TEAM FACILITIES. There are three basic types of EOD facilities. One type is operated by the Marine Corps and the other two types are operated by the Navy and are classified as "Single Detachment" and "Expanded Detachment". In addition to the EOD Team building proper, there are three supporting facilities which are located in a separate bermed area and are required to be sited in accordance with the explosive safety criteria as published in NAVSEA, OP 5, Volume 1, Fourth Revision, "Ammunition and Explosives Ashore". One facility is a 12 ft. x 17 ft. workshop/storage building which will also house petroleum products, corrosives, and paints. This building should be located as close to the EOD team building as safety standards permit. The two other facilities are a 6 ft. x 6 ft. ready service magazines and are classified under category code 421-35, "Ready Magazines". A description and size of each type of EOD facility is as follows:

Marine Corps EOD Team Facility: This facility provides support for EOD operations on Marine Corps bases and air stations. One team is generally assigned to each base or air station and one team is assigned to each Marine Air Group. The EOD team facility building includes administrative area, security area for document storage, workshop and maintenance area, equipment storage area, personnel and classroom spaces. Accordingly, the space requirements for a Marine Corps EOD Team facility are:

EOD Team Building = 3,600 gross square feet.

EOD Workshop/Storage Building = 204 gross square feet.

EOD Ready Service Magazine (2 required) = 2 (6 ft. x 6 ft.) = 72 gross SF.

Navy EOD Team Facility: The two types of Navy EOD Team facilities are classified as "Single Detachment", which has five to six personnel, and the "Expanded Detachment", which has ten or more personnel. Both types of detachments provide support for EOD operations on naval bases, air stations, weapons stations, naval magazines, submarine bases and RDT&E activities. The EOD detachment facilities include administrative spaces, classified publication strongroom, workshop/maintenance, classrooms, equipment storage, personal locker area, a diving locker with associated support gear (i.e., air compressors, gas transfer pump, changing/storage racks, fresh water washdown area with deep sink, a drying area, and a climate controlled equipment storage area for specific equipment storage.

In addition to this, the Single Detachment facility will house two emergency response vehicles, one twenty four ft. workboat (trailer mounted and two eight ft. by ten ft. response trailers. The Expanded Detachment facility will house four vehicles, two workboats and four trailers.

Selected detachments may also be assigned a specific MCM mission and therefore require an additional 500 gross square feet for the storage of special equipment not normally assigned to a Navy EOD detachment.

Selected Navy detachments that are designated as parachute insertion capable and as such require a parachute loft for drying, packing, storage and maintenance equipment. An additional 1,500 gross square feet should be provided to perform this function. The area dedicated to this function should be assigned category code 211-75, Parachute Survival Equipment Shop.

Therefore, the space requirements for the Navy EOD Team facilities are as follows:

Navy Single Detachment EOD Team Facility:

EOD Team Building = 4,750 gross SF. (Add 140 GSF for mezzanine storage).
EOD Workshop/Storage Building = 204 gross SF.
EOD Magazines (2 required) = 2 (6 ft. x 6 ft.) = 72 gross SF. (Use category code 421-35).

Navy Expanded Detachment EOD Team Facility:

EOD Team Building = 8,370 gross SF. (Add 640 GSF for mezzanine storage).
EOD Workshop/Storage Building = 204 gross SF.
EOD Magazine (2 required) = 2 (6 ft. x 6 ft.) = 72 gross SF. (Use category code 421-35).

The following facilities are to be provided for only at selected activities:

EOD MCM Equipment Storage = 500 gross square feet (Use category code 143-20).

EOD Parachute Survival Equipment Shop = 1,500 gross square feet. (Use category code 211-75).

See NAVFAC P-272, Definitive Designs for Marine Corps Facilities for a plan of the Marine Corps EOD facility. Note: The original category code for this facility was 141-55.

143 25 UNDERWATER DEMOLITION TEAM BUILDING (SF)

No criteria are currently available for this code.

143 30 FLEET MOTION PICTURE EXCHANGE (SF)

Navy Motion Picture Exchanges (NMPXS) are established or disestablished as directed by Commander, Naval Military Command, Washington, DC and receive technical direction from the Navy Motion Picture Service (NMPS) Brooklyn, New York. NMPXS are the primary distribution points for motion pictures for fleet use and are supplementary distribution points for CONUS and overseas shore commands. Locations of NMPXS are listed in the current NMPS manual spaces allocated for NMPS operations should be adequate for administrative functions, film inspection and repair, film issue and receipt desks, film library storage, and screening of films. The classification and space requirements for NMPXS are determined by the average quantity of issues per month. Table 143-30 indicates area requirements for various classes of NMPXS.

TABLE 143-30
Navy Motion Picture Exchange

CLASS	AVERAGE MAX ISSUES/MO	SQUARE FEET
A1	500	600
A2	800	800
A3	1100	1000
A4	1400	1200
B1	1700	1400
B2	2000	1600
B3	2400	1800
B4	2800	2000
C1	3200	2200
C2	3600	2400
C3	4000	2600
C4	4500	2800
BT		

143 35 REGISTERED PUBLICATIONS ISSUING OFFICE (SF)

A Registered Publications Issuing Office (RPIO) has a primary mission of supporting communications operations of the fleet, naval aviation, U.S. Marine Corps, and U.S. Coast Guard. RPIO's receive, store, issue, account for, and-officiate during the destruction of highly classified crypto publications, equipment, and devices circulating in the Registered Publications System (RPS). An RPIO has three major space areas: Storage, Receive/Issue, and Administration. The storage area of the RPIO must be constructed to meet the criteria of a Class A vault as defined in KAG-1D. The size of an RPIO can generally be related to the number of RPS items handled yearly. RPS items are such things as publications, magnetic tapes, films, crypto equipment, spare parts, cards, and other key material. A definitive drawing of a registered publications issuing office is shown in NAVFAC P-272, Drawing No. 895064, listed under the previous code number 610 90-A. See Table 143-35 for planning factors.

TABLE 143-35
Space Allowances - Registered Publications Issuing Office

RPS Items Handled Per Year (Thousands)	Gross Area (SF) (Admin, Receive/Issue, Vault)
100 - 500	7,500
501 - 750	12,500
751 - 1,250	14,000
1,251 - 2,500	16,000

143 40 COMPUTER PROGRAMMING OPERATIONS CENTER (SF)
143 41 AMPHIBIOUS OPERATIONS BUILDING (SF)

No criteria are currently available for these code.

143 45 ARMORY (SF)

A Navy installation armory provides space for storage and routing maintenance of small arms and emergency gear. The materials stored will provide for emergencies and for training of selected personnel in the handling of station emergencies, civil disorders, and area disasters. See Table 143-45A for space allowance. See NAVFAC P-272.

TABLE 143-45A
Armory

Installation Military Strength	Building Gross Area
up to 2,000	576
2,001 - 4,000	880
4,001 - 7,500	1,200
7,501 - 10,000	1,508
Over 10,000 - add 0.1 sq ft per person	

Fleet Marine Force Armory (SF)

Criteria change underway as of 3/00, call 757-322-4848/4851 for guidance.

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143 46 MARINE BARRACKS - GENERAL PURPOSE BUILDING (SF)

The criteria contained herein is applicable to CNO commanded Marine Barracks. The purpose of the Marine Barracks is to provide such security as approved by the Chief of Naval Operations, in coordination with the Commandant of the Marine Corps, and to perform such additional functions as directed by CMC.

The criteria for Marine Barracks covers general purpose functions only (for example, administration/operational, general instruction, armory and supply). Requirements for specific functions such as shop space, specialized storage, etc., should be developed from criteria of the category code for the specific function. This criteria does not include BEQ or community support facility requirements. Planning factor criteria for BEQ and community support facilities necessary to support the Marine Barracks personnel are contained in the 700 category group. However, under normal conditions, the host activity would be expected to provide all community type support.

The following shall be utilized for broad planning purposes when there is an absence of a detailed analysis of functional requirements and a close approximation is considered adequate:

TABLE 143-46

<u>Military Strength</u>	<u>Gross SF/MN</u>
1-50	75
51-100	65
101-150	55
151-200	45
201 - For every man over 200, add 30 gross square feet per man	

Provisions for parking (852-10), and small arms pyrotechnic magazine (421-48) should be provided for by applying the criteria for each appropriate category code.

143 47 ALERT FORCE BUILDING (SF)

An Alert Force Building is programmed in conjunction with an Air/Underwater Weapons Shop, Category Code 216 55, when required to meet the Alert Force response times established for the shop. The Alert Force Building provides barracks facilities, including limited messing facilities necessary to accommodate the guard of the day for an AUW Shop. It also contains a duty office, provision for weapons storage and an alarm repeater panel.

When an Alert Force Building is authorized, the standard Alert Force Building of 1,910 square feet as shown in NAVFAC P-272 is programmed.

143 55 TRANSIT SHED (SF)

A transit shed is planned to support the rapid and orderly transfer of truck and rail freight in shipment from one carrier to another with minimum storage. For a waterfront transit shed, see Category Code 156-10. The transit shed is of the minimum design that will protect the freight from the weather and provide any security necessary. It may be a roofed shed with open sides or completely enclosed space built to the minimum specifications to provide the required protection. Plan at the rate of 250 square feet gross per short ton of throughput per day for a peak day.

143 60 EXPLOSIVES, SHIPPING/TRANSFER DEPOT (SF)

An explosives transfer depot is a facility provided as a holding area for ammunition and explosives in transit. The transfer depot may be in close proximity to a loading platform, a flight line, or a truck or rail center. The combined weight of explosives and ammunition in a transfer depot at any one time shall not exceed that prescribed by the intraplant quantity-distance tables for safety distances. This facility is required only at installations which expend or transship the ordnance materials in large quantities. No planning factors are available. This code is not to be used for containerized ordnance; for containerized ordnance, use Category Code 148 40 Container Transfer Facility (Ordnance).

143 65 OPCON CENTER FOR FLEET OPERATIONS (SF)

An operational control center is a facility in which combat intelligence is gathered and assessed; and by which assigned tactical forces are controlled. An OPCON center will be authorized only at stations designated by CNO. The design and size will be determined by the type and amount of equipment to be installed.

143 70 RADIATION INSTRUMENT CALIBRATION FACILITY (SF)

A health physics calibration building contains facilities required for calibration of health physics survey instruments and area monitoring devices. These devices are used to protect personnel against ionizing radiation from x-rays, atomic particles, and the like. The size of the building will depend upon the type and number of instruments being calibrated.

143 75 POL OPERATIONS/SAMPLING/TESTING BUILDING (SF)

The POL Operations Building provides space required for quality control and administration of a fuel activity. Space is provided in the building for an administrative office and for a fuels testing laboratory. Physical operation and control of the fuel system will be accomplished elsewhere: for example, in a pump house. A POL Operations Building may be planned for an area of 1,600 square feet gross.

143 77 OPERATIONAL STORAGE (MISC.) (SF)

Storage facilities for miscellaneous equipment related to operational facilities will be provided only where it can be individually justified, There are no criteria for this type of facility. General information on normal stacking heights, SF per measurement ton requirements, and other parameters are provided in Category Code 440 series.

143 78 OPERATIONAL HAZARDOUS/FLAMMABLE STORAGE (SF)

143 80 NAVAL SECURITY GROUP REGIONAL REPORTING CENTER

This facility is an analysis and reporting center for the Naval Security Group. The size of a typical facility is 18,000 gross square feet and supports administration, operations, and ADP functions.

The facilities associated with this operation consist of the Reporting Center Operations Building itself, a 2,000 gross square foot standby diesel generator building, with an associated 30 day fuel storage tank and three radomes. The operational facility is enclosed within one large closed loop security fence. Other security measures, such as lighting, doted circuit TV cameras etc., are necessary. For a detailed description of security requirements, see DIA Manual 50-3, Physical Security Standards for Sensitive Compartmented Information Facilities.