

Marine Safety Center Guidelines for Review of MODU General Arrangement Plans

Procedure Number T1-36

Revision Date: 07/01/03

References

- a. 46 CFR Subchapter I, Part 108
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Disclaimer

These guidelines were developed by the Marine Safety Center staff as an aid in the preparation and review of vessel plans and submissions. They were developed to supplement existing guidance. They are not intended to substitute or replace laws, regulations, or other official Coast Guard policy documents. The responsibility to demonstrate compliance with all applicable laws and regulations still rests with the plan submitter. The Coast Guard and the U. S. Department of Homeland Security expressly disclaim liability resulting from the use of this document.

Contact Information

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General Review Guidance

- Ensure all spaces are identified and designated on the plans.
 - Means of Escape (46 CFR 108.151-108.167):
 - Two means of escape must be provided from each accommodation space with a deck area > 300 ft²
 - Two means of escape must be provided from each space, other than an accommodation space, that is continuously manned or used on a regular working basis.
 - Two means of escape must be provided from weather deck areas where personnel may be normally employed.
 - The two means of escape must be as remote as practicable.
 - No dead-end corridors can be greater than 43 feet in length.
 - When two means of escape are required from a space below the main deck, one of the means of escape must provide for a rapid escape through openings that are not required to be watertight by damage stability considerations.
 - Stairway width must be > 28", with an inclination < 50 degrees.
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- Accommodations Spaces (46 CFR 108.193-108.207):
 - No direct communication is permitted between accommodation spaces and chain lockers, stowage or machinery spaces.
 - No sounding tubes, vents, or access openings from fuel or oil tanks may open into any accommodation spaces.
 - No accommodation spaces may be located forward of 5%LBP.
 - The deckheads of each crew accommodation space must be located above the deepest load line.
 - To the extent practicable, each occupation group must be berthed together in sleeping spaces arranged to minimize disturbance created by personnel leaving for or arriving from a working period.
 - No sleeping space may berth more than 4 persons, except that a sleeping space for personnel not regularly employed on a unit may berth up to 6 persons.
 - Each sleeping space must have for each occupant:
 - 30 ft² of deck area
 - 210 ft³ of volume
 - 6'-3" of headroom
 - Each occupant of a sleeping space must have a readily accessible locker.
 - Each locker must be at least 300 in² in cross section and 60" high.
 - Each berth must be at least 30" wide by 76" long.
 - Each unit must have at least 1 toilet, 1 washbasin, and 1 shower or bathtub for every 8 persons who occupy sleeping spaces that do not have private or semi-private facilities attached.
 - Each messroom that is not adjacent to the galley that serves it must be equipped with a steamtable.

- Hospital Spaces (46 CFR 108.209 – 108.210):
 - Each unit carrying twelve or more persons on a voyage of more than 3 days requires a hospital space or a designated treatment or isolation room.
 - If they chose to have a hospital space:
 - Each hospital space berth must be hinged and arranged so that it can be secured clear of the lower berth.
 - Each hospital space must have at least one berth that is accessible from both sides.
 - Each hospital space must have one berth for every 12 persons or portion thereof on board, who are berthed in single occupancy rooms, but the number of berths need not exceed 6.
 - Each hospital space must have a toilet, washbasin, and bathtub or shower accessible from the hospital space.
 - Each hospital space must have a clothes locker, a table, and seats.

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- If they chose to have an isolation space:
 - Each isolation space must be a single or double occupancy sleeping space.
 - Each isolation space must be available for immediate medical use.
 - Each isolation space must have a single berth or examination table that is accessible from both sides.
 - Each isolation space must have a washbasin in or immediately adjacent to it.
- Guardrails (46 CFR 108.219):
 - Guardrails or bulwarks are required along the edge of the bridge, of each deck and of each deck opening.
 - The overall height must be > 39.4”
 - Except for exposed peripheries of a freeboard or superstructure deck, each guardrail must have at least two (2) courses.
 - At exposed peripheries of a freeboard or superstructure deck, each guardrail must have at least three (3) courses not more than 15” apart with the lowest course not more than 9” above the deck.
- Storm Rails (46 CFR 108.221):
 - Each unit must have a storm rail on each deckhouse side that is normally accessible, on each side of a passageway that is wider than 6’, and on at least one side of each passageway that is less than 6’ wide.
- Helicopter Deck Location and Size (46 CFR 108.233):
 - When a unit has a helicopter landing facility, each helicopter deck must be at least the size of the rotor diameter of the largest single main rotor helicopter that will be used on the facility. The size of the helicopter landing facility is defined by the length of the smallest deck edge dimension, and is not measured on the diagonal.
- Helicopter Fuel Storage Facilities (46 CFR 108.237):
 - Helicopter fuel storage tanks must be installed as far as practicable from the landing area and each source of vapor ignition.
 - Each marine portable fuel stowage tank must have a means to contain fuel spills or leaks.
- Helicopter Visual Aids (46 CFR 108.241):
 - Each helicopter deck must be marked with the unit’s identification.
 - Each helicopter deck must be marked with a continuous line 16” wide.
 - Each helicopter deck must be marked with aiming circles.