Regulations of 17 December 1986 concerning the construction and equipment of living quarters on mobile offshore units


§ denotes Section

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Chapter 1

General

§ 1 Definitions

For the purpose of these regulations, the following definitions shall apply:
1. **Unit**: Mobile platforms, including drilling ships, equipped for drilling for subsea petroleum deposits, and mobile platforms for other use than drilling for subsea petroleum deposits.

2. **Owner**: Whoever contracts and/or is responsible for the operation of a unit.
3. **Internal control:** All systematic measures to be taken by the owner in order to ensure that the activity is planned, organized, run and maintained in accordance with the requirements laid down in and pursuant to Acts and regulations, and also requirements and recommendations issued by the control institutions and recognized survey institutions concerned when carrying out control on behalf of the authorities.

4. **System audit:** Planned and systematic review of systems to ensure that these are established, followed and maintained as specified.

5. **System:** Formalized collection of mutually co-ordinated procedures.

6. **Verification:** Investigation/examination to confirm that an activity, product, or service is in accordance with specified requirements.

7. **Approved:** Approved by the Norwegian Maritime Directorate.

8. **Living quarters:** Those areas of the unit which are described in these regulations.

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**§ 2**

**Application**

1. Subject to the provisions of the individual sections, cf. § 13 subsection 2, these regulations shall apply to new units which are registered or which will be registered in a Norwegian Register of Ships.

2. Existing units shall comply with the requirements applicable to such units prior to the entry into force of these regulations.

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**§ 3**

**Responsibility**

1. It rests with the owner to ensure that the provisions of these regulations are complied with. The owner shall also ensure that whoever works for him, either in person, through employees or through independent contractors or sub-contractors complies with the provisions of these regulations. Furthermore, it rests with the owner to see to it that the living quarters with equipment are being maintained in a safe operational condition and in compliance with the regulations at all times.

2. The owner shall make the required arrangements and give the platform manager the necessary instructions by means of the operation manual or similar so that the platform manager as part of the day to day operation can ensure that the operational requirements are complied with.

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**§ 4**

**Drawings, etc.**

1. One copy of the following drawings and information shall be submitted to the Norwegian Maritime Directorate:
   - Accommodation drawings clearly showing furniture and fittings
   - General arrangement drawing
   - Drawing showing escape routes
   - Layout drawing of the ventilation arrangement

2. Drawings and information shall be submitted before the keel is laid or the unit is at a similar stage of construction. In the case of units purchased from abroad for registration under Norwegian flag, drawings and information shall be submitted before the unit is put into operation under Norwegian flag.

3. It is the responsibility of the owner that corrected drawings are submitted in those cases where alterations are made in the course of the building period.

4. Prior to submittance to the Norwegian Maritime Directorate of drawings and information, etc. mentioned in this section, such drawings shall have been checked through the owner's system of internal control.
§ 5
Approval — system audit — verification

1. Documentation referred to under § 4 will normally not be subject to approval by the Norwegian Maritime Directorate.
2. The documentation submitted will normally be used for information and in connection with any inquiries from the owner concerning interpretation, evaluation of equivalent solutions and deviations. The documentation may furthermore be used in connection with system auditing and verification.
3. System auditing may be carried out by the Norwegian Maritime Directorate in order to check that the owner and whoever might be carrying out work on his behalf, have the necessary system and use this in a way which ensures that the regulations are complied with.
4. Verification may be carried out by the Norwegian Maritime Directorate during the phases of construction and operation in order to ensure that activities, products or services which come under these regulations are in accordance with specified requirements.
5. The conditions mentioned in these regulations may be required verified to the extent the Norwegian Maritime Directorate finds necessary prior to the certificates of the unit being issued for the first time and at subsequent renewals of the certificates.

Chapter II
Living quarters, etc.

§ 6
General requirements

1. Living quarters shall be so located as to be adequately separated from danger areas on the unit. Living quarters shall not be adjacent to explosion-hazardous areas.
2. Living quarters shall be sufficiently sound-proof and protected against the weather, heat and cold.
3. Living quarters shall be provided with a sufficient number of exits/staircases which provide easy access to the emergency station. All stairs, doors and corridors shall satisfy the requirement for quick and safe evacuation.
4. Living quarters shall be so marked, either by special signposting or by the use of different colours in corridors, etc. on each separate deck, as to facilitate orientation with regard to one's whereabouts in the living quarters.
5. Living quarters shall be so constructed and located as to ensure adequate ventilation and heating.
6. Living quarters shall contain a sufficient number of bedrooms, day rooms, mess rooms, changing and shower rooms, rooms for washing and drying clothes, sanitary rooms, offices and other store rooms and working rooms, as well as galleys, provision rooms, cooling and refrigerating rooms and a health office. The rooms shall be suitably furnished and equipped, so that they can function as intended.
7. Living quarters shall be suitably furnished and equipped for male and female persons.
8. For operation in arctic areas, special requirements may be made as regards the construction of accommodation.
9. All rooms in the living quarters shall be clearly marked with intended use and where appropriate, number of berths/persons.
§ 7

Structural requirements

1. External floors, ceilings and bulkheads in living quarters which are exposed to the weather and/or are bounded by machinery, equipment, work areas, etc., shall be adequately insulated. The insulation shall have a K-value not exceeding 0.50, and shall be of an approved type. The insulation material shall be laid in such a way that condensation is avoided and shall be securely fastened.

2. For boundary bulkheads and decks in or adjacent to living quarters, constructions having a noise reduction complying with the sound-proofing requirements applicable to ships at the time in question, shall be used.

3. All materials used in the living quarters shall be approved and be easy to keep clean.

4. Bulkheads surrounding engine spaces, heated tanks and areas with low and/or high temperatures bounding directly on living quarters, and also steam and hot water piping in living quarters shall be adequately insulated.

5. Piping systems which through leakage may cause damage to persons or environment shall not be lead through living quarters.

6. Bulkheads and ceilings in sanitary rooms shall be of steel or another approved watertight material and be insulated against external bulkheads. Any internal plating/panelling shall be of approved materials.

7. Ceiling height in living quarters where unrestricted movement is necessary shall be at least 2.300 mm, measured from the top of the finished floor to the lower edge of the ceiling.

8. Free width in corridors shall be at least 1.000 mm.

9. Door frames in living quarters shall have an interior width of at least 750 mm. Door frames in doors to sanitary rooms and to toilet enclosures in common sanitary rooms may nevertheless have an interior width of 600 mm. The door frame to the health office shall have an interior width of at least 850 mm.

Doors shall have a height above deck of at least 2.050 mm.

§ 8

Corridors, exits, emergency exits and escape routes

1. From each deck in the living quarter there shall be at least 2 exits to an open deck, and an interior staircase.

2. All common rooms of more than 20 m² shall have at least 2 exits/staircases placed on opposite sides of the room. Doors in common rooms shall open outwards.

3. Blind passageways of more than 5 metres in length shall have an emergency exit/escape route. The emergency exits/escape routes shall have a width of at least 600 x 800 m.

4. All doors and hatches in emergency exits shall open in the direction of the escape route and shall be easily opened from each side by one person. Doors and hatches with dog bolts shall be operated centrally. Doors to cabins shall be equipped with a kick-through panel 600 x 800 mm.

5. Staircases, emergency exits and escape routes shall not be obstructed or covered, and they shall be so arranged as to provide safe access to emergency stations.

6. Emergency exits/escape routes shall be marked in accordance with the regulations in force at the time in question concerning measures for protection, environment and safety on mobile units.

7. No stairs in living quarters shall be angled more than 45°, measured from the horizontal plane, and the steps shall be equidistant. The stairs shall have a serviceable internal width between winders, though not less than 800 mm. Stairs shall be provided with banisters or handrails on both sides. Stairs of a width exceeding 1.600 mm, shall also have a handrail in the middle.

8. Corridors shall be provided with at least one handrail. Corridors of more than 1.600 mm in width and in other larger openings adjacent to corridors shall have handrails on both sides.
§ 9

Ventilation

1. The living quarters shall be adequately ventilated by mechanical ventilation means. The ventilation system with air intakes shall be so located and constructed that fire-hazardous, noxious or unwholesome gases, dust, etc. are prevented from penetrating into the living quarters.

2. It shall be possible to regulate the ventilation system so that it ensures a comfortable temperature and sufficient circulation of air without draft under the climatic conditions under which the unit is specified to operate. The relative humidity shall not be below 30 % or above 70 %.

3. Air vents from health offices, galleys, laundries and lavatories shall be led in special ducts and never be recirculated.

4. The ventilation system shall have such capacity that every room in the living quarters will be supplied with at least 30 m³ fresh air per person per hour. The number of air changes per hour shall be as follows in the rooms mentioned below:

   Radio room: 10
   Mess rooms and day rooms: 6
   Dry stores rooms: 10
   Galleys: 20 for supply and 30 for suction

5. Injection of fresh and/or heated /cooled air to lavatories may only be permitted where the lavatories have a door to an open deck or mechanical venting.

6. On units with unrestricted trade area, day rooms shall be equipped with air conditioning systems which shall be dimensioned at least in accordance with the fresh air quantity specified under subsection 4 above.

   6.1. At an outdoor temperature of plus 35°C and a relative humidity of approx 70 %, it shall be possible to obtain an indoor temperature of plus 29°C, and a relative humidity of 50 %. Return air shall not exceed 50 %.

   6.2. The cooling engines and air coolers of the system shall moreover be so adjusted that at an outdoor temperature of plus 28°C and approx. 80 % relative humidity, it shall be possible to obtain an indoor temperature of plus 24°C, and a relative humidity of approx 50 %.

7. The spare parts necessary to ensure continuous operation of the ventilation system shall be on board.

§ 10

Heating

1. The heating system shall be so dimensioned as to ensure a minimum temperature of plus 20, under the climatic conditions which the unit is specified to operate. Under the conditions mentioned above, the temperature difference in each individual room shall not exceed 5°. Store rooms, working rooms, washing and drying rooms for clothes, provision rooms and cooling and refrigerating rooms are exempt from this requirement.

2. Heating fixtures shall be securely mounted and screened so that risk of fire or other inconveniences for those on board is avoided.

3. It shall be possible to adjust the temperature independently in each individual cabin in a satisfactory manner.

§ 11

Lighting

1. Cabins, health offices, mess rooms, day rooms and galleys shall as far as possible be lighted by natural light.

2. Artificial lighting shall satisfy the requirements mentioned below.
2.1. The average artificial lighting in each living room shall be at least 100 lux. In cabins and day rooms, ceiling lamps, wall lamps, and table lamps facilitating varied lighting shall be provided. There shall be a reading lamp at every berth.
2.2. On writing desks: At least 300 lux.
2.3. Galley: At least 300 lux on working levels 1 m above the floor.
2.4. Bath rooms and toilet rooms: At least 150 lux.
2.5. Corridors: At least 50 lux. Near deck exits, it shall be in a transition area possible to vary the corridor lighting between daylight: 100 lux, and night light: 20 lux.
2.6. Stairways: At least 100 lux. The light sources shall be so arranged that shadows in the staircase steps are avoided.

3. For measurement of average lighting in a room, all electric light sources normally in use shall be turned on. When the light measurements are performed, all day light shall be blinded off. Five measurements shall be made (one measurement in the middle of the room and one measurement in each of the corners of the room). The measurements shall be made 1 m above the floor.

§ 12
Galley and provision room

1. Bulkheads and ceiling in the galley, refrigeration room and cold storage room shall be of stainless steel. To the extent possible, pipe systems, ducts, cables, etc. shall be concealed and such that the surfaces are even and easy to clean.
2. The floor of the galley shall be covered with non-skid tiles or with other approved materials of equal quality, and a sufficient number of drains for water shall be provided, at least one on each side at the lowest point under all normal conditions of trim. Between the floor and the walls and fixed appliances there shall be concave groves.
3. The floor area of the galley shall not be less than 35 m².
4. Special rooms for storage of provision shall be arranged. The storage rooms shall be located as close to the galley as possible.
5. The provision rooms shall be located, designed and furnished in such a way that orderly storage is facilitated and that provisions will avoid deterioration for reasons such as intense heat, draft and condensation or because of damage and contamination caused by vermin.
6. There shall be a refrigerated room sufficiently large to hold the supply of foods which should be kept frozen. The refrigerated room shall be equipped with a thermometer which can be checked from outside the room. The temperature of refrigerated room shall be minus 20°C or lower.
7. There shall be cold storage rooms sufficiently large to hold the supply of foods which should be kept cooled. The temperature of the cold storage rooms shall be between 0 and plus 4°C.
8. It shall be possible to open the doors of refrigerated rooms and cold storage rooms from the inside even if the door is locked from the outside. There shall be an alarm system from refrigerated rooms and cold storage rooms to the galley.
9. Refrigerated rooms and cold storage rooms with adjoining corridors shall be equipped with water drains in the floor.
10. Galley shall be equipped with facilities for handwashing with mixing batteries which can be operated without using the hands.

§ 13
Cabins

1. Every person living on the unit shall have his own berth. Rooms intended as bedrooms (cabins) shall not be used for other purposes.
2. Cabins shall be furnished for a maximum of 2 persons.

Outside the Norwegian Continental Shelf, this requirement only applies to the regular
crew. The term «regular crew» applies to persons who, because of their field of activity, follow the unit from one location to another.

3. The floor area of a cabin shall be at least 8 m² if the cabin is intended for only one person, and at least 12 m² if the cabin is intended for two persons.

4. When the floor is measured, the part of the surface which is occupied by berths, closets, chests of drawers and seating shall be included, but not small and irregular shapes of the floor surface which are not effectively increasing the room that can be used to move around. Bathroom area may be included in the minimum size of the cabin.

5. There shall be no direct openings to cabins from day rooms, mess rooms, galleys, washing and drying rooms or change rooms.

6. The nurse's cabin shall be arranged adjacent to the health office and preferably be equipped with a door leading to this.

§ 14

Furniture and other equipment for cabins

1. Berths shall be at least 2000 mm long and 800 mm wide, both measurements made internally.

2. The vertical distance between berths and between the upper berth and the ceiling shall be at least 900 mm.

3. In each cabin, there shall be a lockable closet for clothes for every berth. In addition, there shall be a separate closet or place for hanging up the survival suit.

4. The closet shall have an inside height of at least 1800 mm and an inside cross-section of at least 600 x 600 mm.

5. In each cabin, there shall be at least two lockable drawers of 0.06 m³ for every berth.

6. Cabins shall be equipped with a table and comfortable seatings.

7. In cabins intended for more than one person, berths shall be furnished with curtains made of approved material. The windows/sidelights shall have curtains of approved material. Mattresses and bedding shall be of approved material.

§ 15

Mess rooms, day rooms and office rooms

1. The mess rooms shall be sufficiently large to serve at least 50 per cent of the total crew belonging to eat at the same time. The floor in the mess room shall be at least 1.2 m² per person the room is intended for.

2. Mess rooms shall be furnished with several tables. Each person at the table shall have an area at least 600 mm in width and 400 mm in depth. Tables and chairs shall be placed in such a way that the access to the tables is as free as possible. Chairs shall be equipped with back rests.

3. There shall be separate day rooms for smokers and non-smokers.

4. There shall be separate rooms where films can be shown.

5. Day rooms and film rooms shall together make up at least 1 m² per person of the maximum number of persons that may be on board. One of these rooms shall hold at least 50 per cent of these persons.

6. As a general rule, the platform manager, the stability section leader, the technical section leader, and the catering manager shall each have a separate room furnished for use as an office. In case it is desired to use a joint office, this must be of a size and be so furnished that the requirement for separate sections can be complied with to the extent possible.

7. On board, there shall be a separate room with appliances for hot and cold drinks. The room shall located in such a way that it has direct entrance from deck. The room shall be equipped with a wash basin or facilities for hand washing, and shall be heated. The furnishing shall be suitable for out-door working personnel. The floor shall have sufficient drainholes.
8. Furniture, including chairs, in film rooms and day rooms shall be securely fastened. If chairs in mess rooms are not fastened to the floor, there shall be a device in front of the exit doors preventing these from being blocked in case of listing.

§ 16

Health office

1. There shall be a health office in the living quarters. The office shall be located in such a way that stretcher transportation of sick or injured persons may be made in a safe way from a medical point of view inside the living quarters and to/from the work areas and the helicopter deck.
2. The health office shall be furnished and equipped in accordance with the guidelines from the Directorate of Public Health, see Annex.
3. A sanitary room shall be provided adjacent to the health office. The room shall be equipped with WC, shower, bath tub and wash basin with mixing battery.
4. The health office shall not be used as an ordinary cabin.

§ 17

Sanitary rooms, changing rooms, etc.

1. Adjacent to every cabin there shall be a sanitary room equipped with a water closet, shower and wash basin with hot and cold water. The sanitary room shall be equipped with a mirror and a cupboard for toilet things.
2. If there is a sauna on board, the door to this shall open outwards. The sauna shall be equipped with an alarm connected to an alarm bell in the corridor outside and in the control room.
3. In sanitary rooms intended for more than one person, and in changing rooms, the shower shall be screened. For each shower, there shall be a separate water drain.
4. Located close to the galley, there shall be a separate toilet with hand washing facilities for galley personnel.
5. There shall be at least one WC on the work deck and one near control rooms.
6. If there are more than one WC’s in a room, or WC’s in common washing rooms and bathrooms, each WC shall be in a separate enclosure equipped with a lockable door.
7. All doors to sanitary rooms shall be lockable.
8. There shall be separate rooms for changing clothes, etc. Changing rooms shall be located near the entrance of the living quarters and be equipped with individual lockers. The lockers shall be of a size of at least 1800 x 300 x 350 mm. Their doors shall be lockable. There shall be an arrangement for drying of working clothes and footwear.
9. Adjacent to the changing room, there shall be at least one wash basin with mixing battery for hot and cold water per 8 persons the room is intended for, at least one shower per 10 persons the room is intended for and at least one WC per 20 persons the room is intended for; however, as a minimum there must be one of each if there are several small changing rooms. By number of persons the room is intended for, is meant the number of persons supposed to be using the room at the same time.
10. Joint WCs, washing rooms, changing rooms and shower rooms shall be conveniently located in relation to work areas and mess rooms.
11. There shall be a broom closet with a utility sink on each deck in the living quarters. The floor shall have drains for water.
12. Storage rooms for linen shall be located on each deck where there are cabins.
§ 18

Rooms for washing and drying clothes

There shall be facilities for washing and drying clothes to the extent necessary. The washing of working clothes shall take place in a separate washing machine. Washing rooms shall be so arranged that working clothes and private clothes are not mixed. The floor shall have at least one drain hole in each corner.

Chapter III

Miscellaneous provisions

§ 19

Deviations

1. The Norwegian Maritime Directorate may deviate from the requirements of these regulations where special reasons make this necessary or reasonable.
2. If the requirements of the coastal state and the requirements of these regulations are incompatible, the Norwegian Maritime Directorate may deviate from the requirements to the extent this is deemed justifiable.

§ 20

Penalty

Wilful or negligent violation of these regulations is punishable by fines pursuant to the General Civil Penal Code of 22 May 1902 No. 10, § 339 subsection 2, provided no stricter penalty is applicable pursuant to other statutory provisions.

§ 21

Entry into force

1. These regulations enter into force on 2 February 1987. For units the building of which was started prior to 1 March 1982, the requirements of § 7 subsections 7, 8 and 9 do not apply.
2. As from the same date, Regulations of 13 January 1986 concerning the Construction and Equipment of Living Quarters on Drilling Units and Other Mobile Offshore Units are repealed.

ANNEX

Norwegian Directorate of Public Health Offshore Division 15.7.1986

Inventory of medical equipment, etc. on installations in the petroleum activity on the Norwegian continental shelf

This is a guiding inventory of medical equipment, etc. drawn up by the Norwegian Directorate of Public Health, Offshore Division, based on the experience gained by this Division during inspections of the health offices and on correspondence and other contact with the petroleum activity.
The inventory lays no claim to presenting an exhaustive survey of approved equipment or equipment which will be approved by the Directorate of Public Health. It is therefore emphasized that even if the equipment listed below is provided on the unit, this does not exempt the operator from the responsibility of ensuring that the activity is conducted in a safe manner, cf. the Petroleum Act, § 45.

This applies correspondingly to the owner with respect to the requirements for medical equipment, etc. on drilling vessels and mobile units under the maritime legislation.

As a matter of form, it is pointed out that the list does not include medical articles of consumption or disposable equipment, but only equipment which should be a permanent part of the furnishing of the hospital.

FURNITURE

- Bath-tub accessible from three sides
- WC/shower unit with hand basin
- Examination couch which can be elevated/lowered at the head and foot, and with facilities for treatment of medical emergencies
- Hospital bed with mattress, intensive care type, with facilities for treatment of medical emergencies
- Examination chair with neck support
- Paper towel dispenser
- Liquid soap dispenser
- Hand basin in treatment room with mixing battery operated by elbow/foot
- Laboratory/work bench with drawers
- Lockable medicine cupboard with a separate lockable built-in narcotics unit
- Necessary cupboards for storage of equipment
- Writing desk
- Book shelves
- Lockable filing cupboard
- Case sheets for records of medical consultations
- Necessary forms for medical reporting
- Necessary office accessories
- Typewriter
- Working lamp
- Office chair
- Wardrobe
- Bedside table
- Refrigerator, lockable
- Sterilizing unit for instruments/bandages (dry sterilizer or autoclave)
- Alarm system to nurse’s cabin and all day/night manned control room
- Telephone for direct contact with doctor ashore

EQUIPMENT

- Footstool
- Examination stool, adjustable
- Examination lamp with magnifier for eye injuries
- Examination/operation light
- Surgical assistance table
- Instrument table
- Table for hand operations
- Equipment for drug dosage (boxes, envelopes, etc.)
- Dustbin with foot pedal

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- Equipment for measuring pH in potable water
- Conductometer
- Chlorine comparator
- Scales
- Height measure
- Equipment for blood pressure control
- Equipment for blood sedimentation control
- Equipment for blood Hgb
- Thermotherapy bottles
- Thermotherapy sheets
- Blankets
- Woollen socks
- Funnel
- Equipment for fixing fractures
- Neck collar
- Stethoscope
- Equipment for ventricular aspiration
- Stop watch/alarm clock
- Infusion stand with equipment
- Ophthalmoscope/otoscope
- Reflex hammer
- Torch
- Pentorch
- Crutches
- Ring cutter
- Applicator for tubegauze
- Scissors
- Uckerman's cotton pins
- Bandage scissors
- Artery tweezers
- Anatomic tweezers
- Surgical tweezers
- Angled tweezers
- Splinter tweezers
- Surgical hooks
- Cerumenhook
- Needle supporter for suturs
- Scissors for suturs
- Nail forceps
- Nail file
- Cornea scraper
- Eye-lid supporter
- Eye magnet
- Dentist's mirror, dentist's probe, amalgam stopper
- Nose speculum
- Syringe for ear flushing
- Tampon tweezer
- Sponge tweezer
- Veinhook
- Instrument box with cover
- Forceps for instruments with container
- Scalpels
- Kidney bowls of stainless steel
- Bowls of stainless steel
- Pharmacy containers of different sizes
Construction and equipment of living quarters on mobile offshore units

- Cups for measurements of different sizes
- Tape measure
- Metal spatula
- Nose mirror
- Glasses for storage in different sizes
- Infrared/UV lamp
- Thermometers (rectal and hypothermia)
- Spirit/petroleum burner
- Injury priority tags for emergencies
- Test card
- Test chart for myopia
- Ishihara colour test
- Magnifier with headfixing device
- Mirror for ear/nose/throat examinations with headfixing device

- Bedpan
- Urin bottle
- Bags for corpses

- Portable first-aid unit for call-out, containing necessary drugs/bandages/suction unit/intubation equipment and other necessary equipment

- Separate oxygen unit
- Separate suction unit
- Oxygen bank with necessary technical equipment
- Equipment for artificial respiration
- Magills hook
- Mandreng
- Equipment for first-aid training, e.g. the doll Rescusi-Anne
- Stretchers, maritime, with equipment
- Stretchers for head/back injuries
- Scoop stretcher with equipment
- Eyewash stations for to be placed on the unit
- First-aid units for to be placed on the unit
- Cooling bag
- Sterile bottles
- Equipment for enema
- Washtub

- Medical literature
- Toxic data sheets on chemicals on the unit
- Relevant regulations