

MARINE ORDERS

Part 14

Accommodation

Issue 1- 1 June 1990

ORDER NO. 5 of 1990

UNDER SECTION 4 OF THE *ACTS INTERPRETATION ACT* 1901 AND THE NAVIGATION (ORDERS) REGULATIONS, I HEREBY MAKE THIS ORDER ISSUING THE ATTACHED MARINE ORDERS, PART 14 TO COME INTO OPERATION ON 1 JUNE 1990.

W P CRONE
DELEGATE OF THE MINISTER
21 MAY 1990

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1 INTERPRETATION

1.1 Preliminary

This Part shall be read and construed subject to Marine Orders, Part 1 (General) except that a definition contained in or referred to in Part 1 shall be disregarded if it is inconsistent with a definition in this Part.

1.2 Definitions

In this Part, unless a contrary intention appears, the following definitions apply:

Assistant Secretary means the person occupying the office of Assistant Secretary, Ship Safety Branch in the Department;

agreement means an agreement that meets the requirements of section 46 of the Navigation Act;

crew accommodation includes sleeping rooms, mess rooms, catering facilities, recreation rooms and facilities, store rooms, sanitary and lavatory accommodation provided for the use of the crew;

Director means the person occupying the office of Director, Marine Personnel, in the Department;

operator, in relation to a ship, means the person having day-to-day control over the employment of the ship;

owner, in relation to a ship, means the person to whose order the ship is to be constructed, altered or reconstructed;

prescribed person, in relation to a request for inspection of crew accommodation, means the surveyor in charge of marine surveys for the Department at the port at which the ship is located at the time of the request;

re-registered means re-registered on the occasion of a simultaneous change in both the place of registration and the ownership of the ship; and

surveyor means a person appointed under section 190 of the Navigation Act.

2 PURPOSE

This Part prescribes:

- (a) for the purpose of section 136 of the Navigation Act, the accommodation (including hospital accommodation) to be provided for the master, officers and crew of a ship; and

- (b) for the purpose of section 270 of the Navigation Act, the number of passengers that may be carried on a ship and their accommodation (including hospital accommodation).

3 ACCOMMODATION FOR CREW

3.1 Plans

3.1.1 The owner of a ship to be constructed must:

- (a) before the construction of the ship commences, cause to be submitted to the Director a plan of the ship, on a scale not smaller than 1 in 200, showing the proposed location and general arrangement of the crew accommodation; and
- (b) before the construction of the crew accommodation is commenced, cause to be submitted to the Director plans of the proposed crew accommodation, on a scale not smaller than 1 in 50, showing clearly:
 - (i) the purpose for which each space in the crew accommodation is to be used;
 - (ii) the proposed disposition of furniture and fittings;
 - (iii) the proposed arrangements for ventilation, lighting and heating; and
 - (iv) the sanitary arrangements.

3.1.2 The owner of a ship the crew accommodation of which is being altered or reconstructed must, before the alteration or reconstruction commences, cause to be submitted to the Director plans of the proposed crew accommodation, on a scale not smaller than 1 in 50, showing clearly:

- (a) the purpose for which each space in the crew accommodation is to be used;
- (b) the proposed disposition of furniture and fittings;
- (c) the proposed arrangements for ventilation, lighting and heating; and
- (d) the sanitary arrangements.

3.1.3 Where an alteration or reconstruction is carried out at a place outside Australia and the alteration or reconstruction is:

- (a) temporary; or
- (b) carried out as a consequence of an emergency or an accident,

the plans referred to in 3.1.2 may be submitted as soon as practicable.

3.1.4 Provisions 3.1.1 and 3.1.2 do not apply if plans meeting the requirements of 3.1.1 or 3.1.2, as appropriate, have been or are to be submitted for the purposes of and in accordance with Marine Orders, Part 31 (Ship Surveys and Certification).

3.1.5 If the plans indicate that the proposed construction, alteration or reconstruction does not accord with the standards set out in this Part, the Director must

- (a) inform the owner of the fact; and
- (b) unless the Director is satisfied that appropriate modifications to the plan are made or are to be made, inform the Marine Council as soon as practicable of the fact.

***Note:** The Director will, on request, certify that proposed crew accommodation meets the requirements of this Part. An owner requiring this service will need to supply an additional copy of the plan and pay such fee as is specified in Marine Orders, Part 2 (Fees).*

3.2 Standards to be applied

3.2.1 The crew accommodation, other than hospital accommodation, of a ship other than:

- (a) a ship of less than 500 gross tonnage;
- (b) a ship the keel of which was laid or the construction of which was otherwise commenced before 21 April 1954;
- (c) a ship primarily propelled by sail; or
- (d) a fishing vessel or ship engaged in whaling or similar pursuits,

must comply with the requirements of Appendix 1.

3.2.2 The crew accommodation, other than hospital accommodation, of a ship other than:

- (a) a ship of less than 1,000 gross tonnage;
- (b) a ship the keel of which was laid or the construction of which was otherwise commenced before 15 March 1977;
- (c) a ship primarily propelled by sail;
- (d) a fishing vessel or ship engaged in whaling or similar pursuits; or
- (e) dynamically supported craft,

must also comply with the requirements of Appendix 2.

***Note:** Where reasonable and practicable, ships of less than 500 gross tonnage should apply the standards set out in Appendix 1 and ships of less than 1,000 gross tonnage should apply the standards set out in Appendix 2.*

3.3 Use of crew accommodation

No part of the crew accommodation provided under this Part is to be appropriated for use by passengers.

4 HOSPITAL ACCOMMODATION

4.1 Hospital accommodation to be provided

A ship, other than a ship that is ordinarily on a route where it can, at any time, reach a port within 48 hours, must be provided with hospital accommodation in accordance with Appendix 3.

4.2 Use of hospital accommodation

Where hospital accommodation is required in accordance with 4.1, it must not be used for a purpose other than the treatment of sick or injured persons.

5 VARIATION OF REQUIREMENTS

5.1 Variations may be proposed

Notwithstanding 3.1.5, 3.2 and 4, the owner of a ship may, in relation to that ship, propose variations to the requirements set out in the Appendices.

5.2 Determination of variations

5.2.1 If the Assistant Secretary or the Director is satisfied that the variations proposed in accordance with 5.1 provide corresponding advantages as a result of which the overall conditions of the crew accommodation of the ship will not be less favourable than would result from applying the requirements of this Part, that officer may, subject to 5.2.2, determine the requirements of this Part to be so varied.

5.2.2 The Director or Assistant Secretary must not make a determination under 5.2.1

unless:

- (a) the view of the Marine Council on the proposed variation or variations has been obtained; or
- (b) the view of the Marine Council has been previously obtained on a similar variation or variations.

6 PASSENGERS

Accommodation and sanitary arrangements must be provided for passengers on board a passenger ship in accordance with Part II of Sub-section E of Section 5 of the Uniform Shipping Laws Code.

7 MAINTENANCE AND CLEANLINESS

7.1 Accommodation to be clean and well-maintained

7.1.1 Crew and hospital accommodation must be maintained in a clean and habitable condition and all equipment and installations required by this Part must be maintained in good working order.

7.1.2 Every part of the crew accommodation, not being a store room, must be kept free of stores and other property not belonging to, or provided for the use of, persons for whom that part of the accommodation is allocated.

7.2 Inspections

7.2.1 The master or an officer appointed by the master for the purpose must, at intervals not exceeding 7 days:

- (a) inspect every part of the crew and hospital accommodation of the ship;
- (b) be accompanied on the inspection by at least one member of the crew; and
- (c) cause to be entered in the ship's official log book a record of:
 - (i) the date and time of the inspection;
 - (ii) the names of the persons making the inspection; and
 - (iii) particulars of any deficiencies found.

7.2.2 The crew accommodation of a ship must be inspected by a surveyor whenever:

- (a) the ship is registered or re-registered;
- (b) all or part of the crew accommodation undergoes substantial alteration or repair, and
- (c) a request for an inspection has been made to a prescribed person, in sufficient time to avoid delay in the sailing of the ship, by or on behalf of the operator of the ship or by an official of an organisation of seamen registered under the *Industrial Relations Act 1988*,

and any deficiencies found by the surveyor must be reported to the master of the ship and the Director.

8 OFFENCES

8.1 Penal provisions

Provisions 3.1.1, 3.1.2, 3.3, 4.2, 6, 7.1.1, 7.1.2 and 7.2.1 are penal provisions.

8.2 Persons responsible

8.2.1 Failure to comply with provisions 3.1.1, 3.1.2 or 6 is an offence by the owner of the ship.

8.2.2 Failure to comply with provisions 4.2, 7.1.2 or 7.2.1 is an offence by the master of the ship.

8.2.3 Failure to comply with provisions 3.3, 6, or 7.1.1 is an offence by the operator, agent and master of the ship.

Note: Regulation 4 of the Navigation (Orders) Regulations provides:

‘4. Where an order made under or in force by virtue of these Regulations provides that the order or a provision of the order is a penal provision, a person who contravenes or fails to comply with that order or provision, as the case may be, is guilty of an offence and is punishable, upon conviction:

- (a) if the offender is a natural person, by a fine not exceeding \$2,000; or*
- (b) if the offender is a body corporate, by a fine not exceeding \$5,000.’*

APPENDIX 1

BASIC REQUIREMENTS

CONTENTS

1	Location and construction	7	Washing and change rooms
2	Heating, lighting and ventilation	8	Laundries and drying rooms
3	Sleeping accommodation	9	Supply and discharge of water
4	Mess and recreation rooms	10	Galleys
5	Offices and day rooms	11	Store rooms
6	Sanitary accommodation		

1 LOCATION AND CONSTRUCTION

1.1 Location of crew accommodation

1.1.1 Crew accommodation must be situated amidships or aft, above the winter load line marked on the ship in accordance with Marine Orders, Part 16 (Load Lines).

1.1.2 In the case of a passenger ship or an off-shore industry vessel, the crew accommodation may be situated in the fore part of the ship but must not be situated forward of the collision bulkhead.

1.2 Protection against weather, etc.

1.2.1 The crew accommodation must be arranged and constructed, and situated in such a position, as to ensure:

- (a) the protection of the crew against injury to the greatest practicable extent;
- (b) the protection of the crew accommodation against the weather and the sea;
- (c) the insulation of the crew accommodation from heat and cold;
- (d) the protection of the crew accommodation against moisture due to condensation;
- (e) the exclusion from the crew accommodation of effluvia (including exhaust gases from any area containing sanitary or lavatory equipment) originating in other spaces in the ship;
- (f) the exclusion from the crew accommodation, to the greatest practicable extent, of noise originating in other spaces in the ship; and

(g) the prevention of the harbouring of vermin.

***Note:** Compliance with either Australian Standard 2254-1979 measured in accordance with Australian Standard 1949-1976, or IMO Resolution A.468(XII) “Code on Noise Levels on Board Ships”, is considered satisfactory for the purposes of 1.2.1(f).*

1.2.2 Where the crew accommodation of a ship is not normally air-conditioned, the crew accommodation must:

- (a) if the ship regularly trades to mosquito-infested ports, be provided with suitable screens to sidescuttles, ventilators and doors; and
- (b) if the ship regularly trades to or in the tropics or the Persian Gulf, be fitted with suitable awnings.

1.3 Accessibility

1.3.1 Crew accommodation must be accessible at all times from the open deck.

1.3.2 An opening from an open deck into the crew accommodation must be protected against the weather and the sea.

1.4 Height

The height of the crew accommodation, measured from the top of the floor beams to the top of the crown beams, must be at least 2.29 metres.

1.5 Construction of bulkheads

1.5.1 Bulkheads separating a part of the crew accommodation (other than a recreation deck space) from a space used as:

- (a) a permanent coal bunker;
- (b) an oil fuel bunker;
- (c) a cargo or machinery space;
- (d) a lamp room or paint room;
- (e) a store room not forming part of the crew accommodation (other than a dry provision store room);
- (f) a chain locker; or
- (g) a cofferdam,

must be so constructed as to be gastight and, where necessary to protect the crew accommodation, watertight.

1.5.2 A bulkhead that separates a part of the crew accommodation from a dry provision store room (whether or not that store room forms part of the crew accommodation) must be gastight.

1.5.3 A bulkhead that separates a part of the crew accommodation from sanitary accommodation, a laundry, a drying room, a galley or a cold store room (whether or not they form part of the crew accommodation) must be gastight, and must be watertight to such height as is necessary to prevent the passage of water into the adjoining space.

1.5.4 A bulkhead that separates sanitary accommodation from another part of the crew accommodation must, except in a doorway, be watertight to a height of not less than 230 millimetres above the floor of the sanitary accommodation.

1.5.5 Provisions 1.5.3 and 1.5.4 of this Appendix do not apply to bulkheads that separate:

- (a) sanitary accommodation from other sanitary accommodation;
- (b) a laundry or drying room from another laundry or drying room;
- (c) a galley from another galley or from a pantry;
- (d) a cold store room from another cold store room; or
- (e) en suite sanitary accommodation from its associated sleeping room or rooms.

1.5.6 Inside panelling in the crew accommodation must be constructed of material with a surface that can easily be kept clean.

1.5.7 Bulkheads or panelling must not be constructed of material likely to harbour vermin.

1.5.8 Bulkheads enclosing rooms used as sleeping rooms, mess rooms or recreation rooms must be lined on the side of those bulkheads with those rooms.

1.6 Openings

1.6.1 There must not be a direct opening between the crew accommodation (other than recreation deck spaces) and spaces used as:

- (a) permanent coal bunkers;
- (b) oil fuel bunkers;
- (c) cargo or machinery spaces;
- (d) lamp rooms or paint rooms;
- (e) store rooms not forming part of the crew accommodation;
- (f) chain lockers; or
- (g) cofferdams.

1.6.2 Except in the case of en suite sanitary accommodation, there must not be a direct opening between the crew accommodation (other than recreation deck spaces or passageways)

and any sanitary accommodation, laundry or drying room (whether or not that sanitary accommodation, laundry or drying room forms part of the crew accommodation).

1.6.3 Provision 1.6.2 does not prohibit a direct opening between spaces forming part of the sanitary accommodation or between spaces appropriated for use as laundries or drying rooms.

1.6.4 There must not be a direct opening between a sleeping room and a galley.

1.7 Pipes

1.7.1 Steam supply and exhaust pipes to machinery must not pass through the crew accommodation except open deck alleyways.

1.7.2 Where steam supply pipes pass through open deck alleyways forming part of the crew accommodation, they must be:

- (a) constructed of solid drawn steel or equivalent material;
- (b) of a scantling sufficient to withstand the maximum pressure from the ship's boiler system;
- (c) connected by faced flanges properly jointed;
- (d) suitably insulated and encased; and
- (e) fitted with adequate drainage arrangements.

1.7.3 Steam pipes and hot water pipes leading to radiators in or serving the crew accommodation must be properly protected or encased.

1.7.4 Hawse pipes must not be situated in the crew accommodation.

1.7.5 Chain pipes and ventilators to cargo spaces must, where they pass through the crew accommodation, be watertight and gastight.

1.7.6 Hot water pipes must be insulated where necessary for the conservation of heat or to ensure the safety of the crew.

1.8 Batteries

Batteries must not be located in the crew accommodation, and precautions must be taken to ensure that fumes from batteries do not discharge into any part of the crew accommodation.

1.9 Floors

1.9.1 Decks that form the floors in the crew accommodation must be properly constructed and must be covered with a material that:

- (a) is impervious to water;
- (b) is capable of reducing the level of noise in the crew accommodation;
- (c) is capable of being easily kept clean; and
- (d) provides a good foothold.

1.9.2 Where a composition or other like material is used to cover a metal deck, the composition or other material must, unless linoleum or like material is superimposed on it, be furnished with a coving.

1.9.3 Floors of wash places, bathrooms, shower recesses, laundries and other compartments where water is used must be:

- (a) covered with rubber-based or other impervious material; and
- (b) fitted with a coving around the perimeter of the compartment.

1.9.4 The floor of a galley must be covered with a rubber-based or other impervious material and, if required by the Director, a suitable surface must be laid over the floor covering to avoid the danger of slipping.

1.9.5 The floor of a galley must be provided with efficient scuppers.

1.10 Drainage

1.10.1 Efficient drainage must be provided for the crew accommodation situated on weather decks.

1.10.2 There must be no drainage from any source into wash places or sanitary accommodation forming part of the crew accommodation, which must be drained separately and independently of other spaces.

1.11 Surface finishing

1.11.1 The interior sides and ceilings of the crew accommodation must be covered with enamel, paint or other suitable material, of good quality and white or light in colour.

1.11.2 Paint containing nitro-cellulose must not be used.

1.11.3 All paint, varnish or other finishes in the crew accommodation must be capable of being easily kept clean and must be maintained in good condition.

2 HEATING, LIGHTING AND VENTILATION

2.1 Heating

2.1.1 Except in the case of ships engaged exclusively in the tropics, sleeping rooms, mess rooms, recreation rooms, offices, and wash places are to be provided with a heating system which must:

- (a) be permanently installed; and
- (b) be capable of ensuring that, when:
 - (i) the ventilation system provided for those rooms is working so as to provide to each room not less than 0.42 cubic metres of fresh air for each person for whom that room is designed; and
 - (ii) the temperature in the open air is -1°C ,
the temperature in those rooms can be maintained at 16°C .

2.1.2 The heating system may be operated by steam, hot water or electricity or may be a system supplying warm air.

2.1.3 The heating system must be so constructed, installed and, if necessary, shielded as to avoid the risk of fire and not to constitute a source of danger or discomfort to the crew.

2.1.4 The heating system must be in operation at all times when any members of the crew are living or working on board the ship and conditions require its use, unless:

- (a) the ship is in port; and
- (b) efficient temporary means of heating are provided for such parts of the crew accommodation as are in use.

2.2 Lighting

2.2.1 Every part of the crew accommodation other than drying rooms, lockers and store rooms must, where practicable, be lighted by natural light.

2.2.2 An efficient system of electric lighting must be provided capable of supplying adequate lighting to all parts of the crew accommodation.

2.2.3 Electric lights must be so arranged as to give the maximum benefit to the crew.

2.2.4 The head of each berth must be fitted with an electric light:

- (a) that must be capable of being switched on and off from the berth;
- (b) the direction of the beam of which must be capable of being adjusted without the use of tools; and
- (c) that is capable of supplying sufficient light to enable a person of normal vision to read in the berth.

2.2.5 Where a desk is provided in the crew accommodation, the desk must be fitted with an electric light enabling a person of normal vision to read while seated at the desk.

Note: Electric lighting is considered adequate if it complies with Australian Standard 1150-1983.

2.3 Mechanical ventilation

2.3.1 The enclosed parts of the crew accommodation of:

- (a) a ship of not less than 3,000 gross tonnage; and
- (b) a ship of not less than 1,000 gross tonnage trading regularly to the tropics,

must be ventilated by a mechanical ventilation system capable of maintaining the air in those parts in a state of purity adequate for the health and comfort of the crew.

2.3.2 The mechanical ventilation system must be so constructed that:

- (a) the velocity of air at each exhaust opening cannot exceed 305 metres per minute when the system is in operation;
- (b) the system is quiet in operation; and
- (c) the trunking forming part of the system is provided with non-return flaps where necessary for the exclusion of effluvia and the preservation of the health of the crew.

2.3.3 The ventilation system may also provide the means of heating the crew accommodation.

2.3.4 If the circulation of heated air by the ventilation system is the sole means provided for heating the crew accommodation, the system must be sub-divided into sections that can be separately controlled to the extent necessary to enable a comfortable temperature to be maintained in all parts of the crew accommodation.

2.3.5 The mechanical ventilation system must be such as to maintain the following air changes per hour under all conditions of weather and climate to which the ship is likely to be subjected during the intended voyages:

In sleeping rooms	12
In mess and recreation rooms and officer's smoke rooms and offices	15
In wash places, water closets, laundries and drying rooms	10
In galleys	25
In pantries	30

2.3.6 Provision 2.3.5 does not apply to a temperature-controlled mechanical ventilation system that creates an environment in accordance with that specified in Australian Standard 1921-1976.

2.3.7 A ship must carry sufficient spare parts for any mechanical ventilation system installed in the ship.

2.4 Natural ventilation

2.4.1 Every enclosed space forming part of the crew accommodation of a ship, being a space not ventilated by a mechanical ventilation system, must be provided with a natural system of inlet and exhaust ventilation.

2.4.2 The sectional area of natural air inlet and exhaust ventilators for a space must be at least 3870 square millimetres for each person for whom that space is designed, with a minimum of 12,260 square millimetres.

2.4.3 The effective area of natural air inlet ventilators serving a space must be capable of being adjusted from fully open to a minimum of 1935 square millimetres for each person likely to use the space at any one time.

2.4.4 Ventilation openings must not be placed over or close to a berth unless it is impracticable to avoid doing so, in which case a duct must be provided under the opening to divert the air away from the berth.

2.4.5 Natural air ventilators must be of a cowl or equally efficient type.

2.4.6 A sleeping room, mess room, recreation room, office, galley or pantry not ventilated by a mechanical ventilation system must be fitted with an electric fan.

3 SLEEPING ACCOMMODATION

3.1 Sleeping rooms

3.1.1 The clear headroom in sleeping rooms must be at least 1.90 metres.

3.1.2 A separate sleeping room must be provided for the master and each officer and, where reasonable and practicable, having regard to the age of the ship and the purpose for which it is used or intended to be used, for each person over the age of 18 years.

3.1.3 Where more than one person is accommodated in a sleeping room:

- (a) no person under the age of 18 may be accommodated with a person over that age; and
- (b) not more than 4 persons may be accommodated in the same room.

3.1.4 The minimum floor area that must be provided for each person in a sleeping room is:

- (a) in the case of a ship of less than 400 gross tonnage, 4.20 square metres;
- (b) in the case of a ship of 400 gross tonnage or more but less than 800 gross tonnage, 5.11 square metres; and

(c) in any other case, 6.05 square metres.

3.1.5 Where a separate sitting room or day room is not appropriated for the exclusive use of an officer, the minimum floor area of the sleeping room of that officer is to be 7.55 square metres.

3.1.6 In 3.1.4 and 3.1.5, the measurement of floor area is to:

- (a) include floor space occupied by berths, lockers, seats and chests of drawers; and
- (b) exclude small or irregularly shaped floor spaces that cannot be used for installing furniture and that do not contribute to the space available for free movement.

3.1.7 Sleeping rooms must be so planned as to ensure reasonable comfort for the occupants and to facilitate tidiness.

3.1.8 The maximum number of persons that may be accommodated in a sleeping room must be indelibly and legibly marked in that room.

3.2 Sleeping berths

3.2.1 Each sleeping room must be fitted with a separate berth for each person to be accommodated in the room.

3.2.2 The framework of each berth must be constructed of metal or other material that is hard and smooth and unlikely to become corroded or harbour vermin.

3.2.3 If a berth is constructed with tubular frames, the frames must be completely sealed and without perforations.

3.2.4 Where a sleeping room has more than one berth:

- (a) no two berths may be placed so that access to one can only be obtained over the other;
- (b) berths must not be arranged in tiers of more than two;
- (c) a berth adjacent to a ship's side and with a sidelight situated above the berth must be in a single tier: and
- (d) an upper berth is to be placed approximately midway between the bottom of the lower berth and the lower side of the deckhead beams.

3.2.5 The bottom of a berth must not be less than 460 millimetres from the floor of the room.

3.2.6 A berth must be at least 198 centimetres long and at least 80 centimetres wide, the measurements being taken inside the lee-boards or lee-rails, if any, and at right angles to each other.

3.2.7 Each berth must be fitted with:

- (a) a spring bottom or other bottom suitable for use with a mattress; and
- (b) a mattress made of material that will resist damp and is unlikely to harbour

3.2.8 Where berths are arranged in a double tier, a bottom of dust-proof material must be fitted to the underside of the upper berth.

3.2.9 Lee-boards fitted to berths must be constructed of hardwood or other suitable material and must be so made as to be unlikely to harbour vermin.

3.2.10 Curtains must be fitted to berths if there are more than one berth in the room.

3.3 Furniture etc. in sleeping rooms

3.3.1 A sleeping room for an officer must be provided with:

- (a) reasonable drawer accommodation;
- (b) a writing desk with drawers;
- (c) a chair with arm rests;
- (d) a bookcase or book rack;
- (e) a wardrobe at least 1.68 metres in height and at least 0.30 square metres in internal sectional area;
- (f) a settee at least 1.83 metres long;
- (g) a carpet of reasonable size;
- (h) a wash-basin of vitreous china or other equally hygienic and durable material, fitted with an efficient and hygienic discharge;
- (i) a splash plate or other means of protection for the wall above the wash-basin, if any;
- (j) a cabinet for toilet requisites;
- (k) a mirror suitable for toilet purposes;
- (l) at least 2 coat-hooks in addition to coat-hooks fitted in the wardrobe; and
- (m) curtains or blinds fitted to each side scuttle.

3.3.2 Where an officer is provided with a day-room, any of the furniture specified in 3.3.1 may be located in the day-room.

3.3.3 Where an officer is provided with direct access from his or her sleeping room to a wash-room, any of the toilet fittings specified in 3.3.1 may be located in the wash-room.

3.3.4 A sleeping room for a rating must be provided with:

- (a) 2 drawers, each having a capacity of not less than 0.06 cubic metre, for each person accommodated in the room;

- (b) comfortable seats sufficient to accommodate at one time all the persons accommodated in the room;
- (c) a clothes locker or a wardrobe of suitable design for each person accommodated in the room;
- (d) a cabinet for toilet requisites;
- (e) a mirror suitable for toilet purposes;
- (f) at least 2 coat-hooks, in addition to coat-hooks fitted in the clothes locker or wardrobe, for each person accommodated in the room;
- (g) a book rack;
- (h) curtains or blinds fitted to each side scuttle;
- (i) a carpet of reasonable size.

3.3.5 A clothes locker must:

- (a) be at least 1.68 metres high;
- (b) be fitted with a shelf at least 230 millimetres below its top; and
- (c) contain fittings on which clothes may be hung.

3.3.6 Lockers, wardrobes, tables, desks, the un-upholstered parts of chairs and settees and like furnishings must be constructed of polished or painted hardwood, rustproof metal or other smooth and impervious material not likely to crack, warp or become corroded.

3.3.7 All furniture must be so made as to be unlikely to harbour vermin.

3.3.8 Wardrobes and clothes lockers must be adequately ventilated.

3.3.9 Locks must be fitted:

- (a) to each sleeping room;
- (b) to each drawer, locker and wardrobe in a sleeping room accommodating more than one person; and
- (c) to at least one drawer, locker or wardrobe in a sleeping room accommodating one person.

4 MESS AND RECREATION ROOMS

4.1 Mess rooms

4.1.1 Mess rooms must be provided for all members of the crew and must be located:

- (a) as close as possible to the galley; and
- (b) apart from sleeping accommodation.

4.1.2 The floor area of a mess room must be at least 1 square metre per person of the planned seating capacity.

4.1.3 Unless otherwise provided in the agreement, mess rooms provided for the master and officers must be separate from those provided for ratings.

4.1.4 A mess room must be provided with sufficient tables to allow a space of at least 610 millimetres, measured along the edge of the table, for each person likely to use the room at any one time.

4.1.5 Tables are to be arranged in such a way as to provide a clear means of access to any table.

4.1.6 Where seating is provided between a table and a bulkhead or the ship's side, the clearance must be at least 635 millimetres.

4.1.7 Not more than 3 persons are to be accommodated along one side of a table.

4.1.8 The width of a table must be at least:

- (a) 760 millimetres wide if seats are provided along both sides; and
- (b) 380 millimetres wide if seats are provided only on one side.

4.1.9 Single chairs must be provided in each mess room for each person using the room at any one time and each chair must be fitted with arm rests unless chairs so fitted are provided in a separate recreation room for the persons using the mess room.

4.1.10 If seating is provided adjacent to a bulkhead or the ship's side, settees:

- (a) at least 380 millimetres wide; and
- (b) provided with upholstered or padded seats and comfortably shaped backs,

may be provided instead of chairs.

4.1.11 Suitable storage for mess utensils must be provided conveniently near the mess room in which the utensils are used.

4.1.12 Each mess room, or pantry readily accessible from a mess room, must be provided with:

- (a) a dresser;
- (b) a sink;
- (c) a hot-press;
- (d) a hot water boiler; and
- (e) a refrigerator.

4.1.13 Subject to 4.1.12(c), lockers, tables, dressers, sideboards and the un-upholstered parts of chairs and settees in mess rooms must be constructed of polished or painted hardwood, rustproof metal or other smooth and impervious material not likely to crack, warp or become corroded.

4.1.14 All furniture must be so made as to resist damp and be unlikely to harbour vermin.

4.1.15 Drinking-water cooling facilities must be provided on each deck on which sleeping accommodation is situated and must be located in a passage way or other place to which all members of the crew have access.

4.2 Recreation rooms

4.2.1 A recreation room fitted with small tables, comfortable chairs and a bookcase must be provided for the master and officers, except that in a ship of under 2,500 gross tonnage, the mess room may be furnished and made available as the recreation room.

4.2.2 Recreation accommodation must be provided for ratings in a mess room or elsewhere, and must be conveniently situated and appropriately furnished.

4.2.3 Unless otherwise provided in the agreement, recreation rooms provided for the master and officers must be separate from those provided for ratings.

4.2.4 The following must be provided for all members of the crew:

- (a) a bookcase; and
- (b) adequate space, with awnings or sun decks, on an open deck for the purpose of recreation.

4.2.5 In a ship of 8,000 gross tonnage or more, the following must be provided for all members of the crew:

- (a) a room in which films may be shown or, in areas where reception of television transmission is possible, television programs may be shown;
- (b) a room for hobbies or games; and
- (c) a swimming pool.

5 OFFICE AND DAY ROOMS

5.1 Office accommodation

In a ship of 2,500 gross tonnage or more, suitable office space must be provided, which must not be combined with a day-room.

5.2 Day-rooms

In a ship of 3,000 gross tonnage or more, a separate day-room must be provided for:

- (a) the master;
- (b) the chief mate; and
- (c) the chief engineer,

which must be adjacent to, and communicate with, the sleeping room of the officer.

6 SANITARY ACCOMMODATION

6.1 Sanitary accommodation to be provided

6.1.1 Sanitary accommodation must be provided for the master and crew on all ships.

6.1.2 Separate sanitary accommodation must be provided for males and females.

6.1.3 In a ship of 800 gross tonnage or more, and unless otherwise provided in the agreement, separate sanitary accommodation must be provided for:

- (a) the master;
- (b) the chief engineer;
- (c) other officers;
- (d) ratings.

6.1.4 One water closet must be provided for every 8 persons for whom separate sanitary accommodation has not been provided and where the total number of those persons is not divisible by 8 without remainder, and the remainder exceeds 3, an additional water closet must be provided.

6.1.5 In addition to the water closets specified in 6.1.4, there must be provided:

- (a) a water closet in:
 - (i) a bathroom provided for the exclusive use of an officer;
 - (ii) a bathroom provided for the exclusive use of 2 officers;
 - (iii) a bathroom provided for the use of ratings;
- (b) such number of water closets, not counting those in (a) and (c), as is required to ensure that the total number of water closets available to the crew is at least:
 - (i) 3, for a ship under 800 gross tonnage;
 - (ii) 4, for a ship of at least 800 gross tonnage but under 3,000 gross tonnage; and

- (iii) 6, for a ship of at least 3,000 gross tonnage; and
- (c) in a ship of 1,600 gross tonnage or more:
 - (i) a water closet adjacent to, but separate from, the navigating bridge; and
 - (ii) a water closet adjacent to, but separate from, the machinery space or the engine room control centre.

6.2 Location and access

6.2.1 Except for those required by 6.1.5(a) and (b), water closets required by 6.1 must be located close to the sleeping rooms of the persons for whom they are provided.

6.2.2 If the access to sanitary accommodation is from a passageway leading to other parts of the crew accommodation, a lobby or, if a lobby is not practicable, a self-closing door must be provided.

6.2.3 A door between sanitary accommodation and a passageway must be close fitting and without apertures.

6.2.4 The entrance to a water closet from an open deck that is not otherwise obscured to ensure privacy must be properly screened.

6.2.5 A water closet in a compartment:

- (a) adjacent to and serving a sleeping room; or
- (b) between 2 sleeping rooms accommodating in total not more than 4 persons,

and provided solely for the use of the persons in those sleeping rooms may be entered direct from that room or those rooms but if provided for the use of more than one person it must be suitably screened.

6.2.6 Where more than one water closet is fitted in a compartment, they must:

- (a) be separated by partitions which may be open at the top and bottom; and
- (b) be provided with separate doors.

6.3 Fittings

A water closet must be provided with:

- (a) a pedestal of single type with:
- (b) a pan of vitreous china or other suitable material;
- (c) a seat of polished hardwood or other suitable material which, if the water closet is provided for the use of more than one person, have an opening of 100 millimetres at the front;
- (d) a trap with a metal inspection plate;

- (e) a means of preventing the escape of gases from the sewage system;
- (f) an adequate flush of water, which must be always available through self-closing non-concussive supply valves;
- (g) a soil pipe not less than 100 millimetres in diameter so constructed as to facilitate cleaning and minimise the risk of obstruction;
- (h) a device for holding toilet paper; and
- (i) a handrail or grip.

7 WASHING AND CHANGE ROOMS

7.1 Washing accommodation to be provided

7.1.1 Washing accommodation must be provided for the master and crew on all ships.

7.1.2 In a ship of 800 gross tonnage or more, and unless otherwise provided in the agreement, separate washing accommodation must be provided for:

- (a) the master;
- (b) the chief engineer;
- (c) other officers;
- (d) ratings.

7.1.3 Except as specified in 7.1.4, washing accommodation must be situated close to the sleeping rooms of the persons for whom they are provided.

7.1.4 Part of the washing accommodation for ratings must be located adjacent to the engine room and stokehold.

7.1.5 Except as provided in 7.1.6, access to washing accommodation must not be directly from a mess room or sleeping room but must wherever reasonable and practicable be from a passageway.

7.1.6 Access to washing accommodation may be direct from not more than 2 sleeping rooms accommodating in total not more than 4 persons if the washing accommodation is provided solely for the use of the persons in those sleeping rooms.

7.2 Provision of bathrooms

7.2.1 In a ship of at least 5,000 gross tonnage but under 15,000 gross tonnage, a bathroom must be provided for the exclusive use of each of not less than 5 of the officers.

7.2.2 In a ship of at least 10,000 gross tonnage but under 15,000 gross tonnage, a bathroom must be provided for the exclusive use of each 2 of the officers, other than those officers for whom an exclusive bathroom has been provided.

7.2.3 In a ship of at least 15,000 gross tonnage, a bathroom must be provided for the exclusive use of each officer.

7.2.4 In a ship of at least 25,000 gross tonnage, a bathroom must be provided for the exclusive use of each 2 of the ratings, other than those ratings for whom an exclusive bathroom has been provided.

7.2.5 Where a bathroom is provided for the exclusive use of 1 or 2 officers, the bathroom must be capable of being entered direct from the sleeping room or rooms of that officer or those officers.

7.2.6 Where a bathroom is provided for the exclusive use of 1 or 2 ratings, the bathroom must be:

- (a) capable of being entered direct from the sleeping room or rooms of that rating or those ratings; or
- (b) adjacent to the sleeping room or rooms of that rating or those ratings.

7.2.7 Any bathroom provided for

- (a) the exclusive use of an officer; or
- (b) ratings,

must be provided with a shower and a wash-basin.

7.2.8 In a ship of at least 5,000 gross tonnage, each sleeping room must, subject to 7.2.9, be provided with a wash-basin.

7.2.9 Where a bathroom is provided for the exclusive use of the occupants of a sleeping room or 2 sleeping rooms, a wash-basin must be provided in:

- (a) the sleeping room or each of the sleeping rooms; or
- (b) the bathroom,

but need not be provided in each room.

7.3 Change rooms

7.3.1 In a ship of at least 1,600 gross tonnage but under 3,500 gross tonnage:

- (a) the engine room officers as a group; and
- (b) the engine room ratings as a group,

must be provided with a change room containing a shower and a wash-basin for their exclusive use unless each officer and rating referred to in (a) and (b) has en suite sanitary accommodation provided in sleeping rooms.

7.3.2 In a ship of at least 3,500 gross tonnage:

- (a) the engine room officers as a group;

- (b) the engine room ratings as a group; and
- (c) the deck ratings as a group,

must be provided with a change room containing a shower and a wash-basin for their exclusive use.

7.3.3 Where provided for in the agreement, change rooms specified for a group in 7.3.1 or 7.3.2 may be combined with those of another group.

7.3.4 A change room referred to in 7.3.2 must be provided with:

- (a) a full-length locker for each person using the room, fitted with:
 - (i) a hook suitably positioned to enable its use for hanging clothing;
 - (ii) a shelf or shelves suitable for holding headwear, boots and shoes; and
 - (iii) a soap container attached to the inside of the door;
- (b) sufficient hooks for the use of the persons using the room, suitably positioned to enable their use for hanging clothing; and
- (c) wooden forms or seats.

7.3.5 A change room provided for engine room personnel must be located outside, but within easy reach of, the engine room.

7.4 Wash places

7.4.1 There must be at least 1.10 square metres of floor space in a wash place for each shower, wash-basin or wash trough, including the space occupied by the shower, wash-basin or wash trough and any seats and lockers.

7.4.2 Washing accommodation must include at least one shower and one wash-basin for each 6 persons for whose use the accommodation is provided, and where the total number of those persons is not divisible by 6 without remainder, and the remainder exceeds 2, an additional shower and an additional wash-basin must be provided.

7.4.3 In calculating the number of wash-basins required for the purpose of 7.4.2, account must not be taken of:

- (a) washing accommodation provided for the exclusive use of not more than 2 persons;
- (b) the persons for whom that accommodation has been provided.

7.5 Showers

7.5.1 Screening must be provided to ensure privacy for a shower that is in the same room as a wash-basin or wash trough or another shower unless the room is appropriated for the sole use of a person.

7.5.2 Each shower space must be provided with:

- (a) a soap holder;
- (b) a hand rail;
- (c) a kerb; and
- (d) individual drainage.

7.5.3 A mat or grating of non-slipping, hygienic material must be provided for use with each shower.

7.5.4 A hinged seat must be provided adjacent to each shower or to each set of two showers, unless an adjacent water-closet is fitted with a lid suitable for sitting on.

8 LAUNDRIES AND DRYING ROOMS

8.1 Laundry facilities to be provided

8.1.1 Wash troughs and washing machines for washing clothes must be provided for the crew and located in rooms affording easy access from the sleeping quarters of the crew.

8.1.2 In a ship of 800 gross tonnage or more, and unless otherwise provided in the agreement, separate laundry facilities must be provided for officers and ratings.

8.1.3 Wash troughs and washing machines must, wherever reasonable and practicable, be situated in rooms appropriated for use solely as laundries, and where they are not so situated, must be situated in the wash places of the persons for whom they are provided.

8.1.4 One wash trough and one washing machine must be provided for each 10 members of the crew, other than members of the crew provided with separate laundry facilities, and where the total number of those persons is not divisible by 10 without remainder, and the remainder exceeds 4, an additional wash trough and washing machine must be provided.

8.1.5 Wash troughs must:

- (a) be made of, or coated with, hygienic and durable material having a smooth and impervious surface not likely to crack, flake or become corroded; and
- (b) be of at least 100 litres capacity.

8.1.6 Where wash troughs are located in a separate laundry, there must be at least 1.10 square metres of floor space for each wash trough, including the space occupied by the wash trough.

8.2 Drying rooms

8.2.1 The crew of a ship must be provided with sufficient:

- (a) irons and ironing boards; and
- (b) drying machines or drying rooms,

to ensure that their clothing is adequately laundered.

8.2.2 Rooms for drying the crew's clothes must be separate from sleeping rooms, mess rooms, recreation rooms, offices, store rooms, galleys, pantries and hospital accommodation.

8.2.3 Unless otherwise provided in the agreement, separate laundry facilities must be provided for officers and ratings, except where provision of separate drying rooms is impracticable or unreasonable in the circumstances

8.2.4 A drying room must be fitted with sufficient lines or other suitable fittings with sufficient space having regard to the number of persons in the crew and the duration of the voyages on which the ship is intended to be engaged.

8.2.5 The heating of a drying room must be capable of being controlled independently of the heating of any other space in the ship.

8.2.6 The exhaust ventilation of a drying room must, unless it is provided by a trunked mechanical ventilation system, be independent of the ventilation of all other spaces in the ship.

8.3 Common laundries

8.3.1 Provisions 8.1 and 8.2 do not apply to a ship that is provided with a common laundry under the control of a laundryman.

8.3.2 A common laundry under the control of a laundryman must be provided with sufficient:

- (a) irons and ironing boards; and
- (b) drying machines,

to ensure that the clothing of the members of the crew is adequately laundered.

8.4 Oilskin lockers

8.4.1 Lockers or compartments, equipped with adequate means of ventilation, must be provided for hanging oilskins and working clothes used by the crew.

8.4.2 Unless otherwise provided in the agreement, separate lockers or compartments must be provided for officers and ratings.

9 SUPPLY AND DISCHARGE OF WATER

9.1 Supply of water

9.1.1 Each member of the crew is entitled to at least 9.1 litres of fresh water per day for washing purposes.

9.1.2 Hot and cold fresh water must be laid on to each wash-basin, wash trough and shower required by this Appendix to be provided.

9.1.3 A water supply must be provided for each wash place for washing down purposes.

9.2 Discharge of water

9.2.1 Each wash-basin, wash trough and shower must be fitted with an efficient and hygienic discharge system.

9.2.2 Waste pipes must be fitted in a manner that will minimise the risk of obstruction and facilitate cleaning.

9.2.3 The scupper in a washplace or laundry must be located in the lowest part of the space and must not be less than 50 millimetres in diameter.

10 GALLEYS

10.1 Galley to be provided

10.1.1 A ship must be provided with a galley for the preparation of food for the crew, unless the circumstances are such that no members of the crew are required to mess on board.

10.1.2 The galley must be situated as near as practicable to the mess rooms provided for the crew.

10.1.3 If the galley is not situated adjacent to a mess room provided for the crew, equipment must be provided that will enable food to be served hot in that mess room in all weathers.

10.1.4 A part of a galley adjoining a stokehold or other heat-producing space must be insulated from heat effects.

10.1.5 A supply of water connected to a tap or other suitable connection must be provided in each galley to facilitate washing down the floor.

10.1.6 Salt water taps must not be fitted over a sink in a galley.

10.1.7 An efficient system of mechanical exhaust ventilation to draw off fumes from cooking appliances must be provided in each galley, unless the natural ventilation provided is adequate to ensure that the fumes escape only to the open air.

10.2 Equipment

10.2.1 A galley must be provided with such equipment, including cooking ranges, ovens and fire grates, as will enable:

- (a) food in sufficient quantity to be properly and readily prepared for the persons whom the galley is intended to serve; and
- (b) cooking utensils to be properly cleaned.

10.2.2 The cooking utensils in a galley must be so arranged as to facilitate the cleaning of the galley.

10.3 Cupboards and dressers

10.3.1 Cupboards and dressers in a galley must be constructed of material that is impervious to dirt and moisture and can be easily kept clean.

10.3.2 Metal parts of cupboards and dressers must be rust-proof.

10.3.3 Where a cupboard or dresser is not flush with the deck, it must have a clearance of at least 255 millimetres above the deck to facilitate cleaning.

11 STORE ROOMS

11.1 Dry provision store rooms

11.1.1 Dry provision store rooms must be provided for the storage of dry provisions for the crew and must have sufficient capacity having regard to:

- (a) the maximum period likely to elapse between successive replenishments of stores, and
- (b) the maximum number of the crew to be carried.

11.1.2 Dry provision store rooms must:

- (a) be enclosed by bulkheads constructed of steel or other suitable material; and
- (b) be so situated, constructed and ventilated as to avoid deterioration of the stores through heat draught, condensation or infestation by insects or vermin.

11.1.3 A dry provision store must not be:

- (a) situated close to a space in which heat is generated, unless it is adequately insulated against heat; or
- (b) used for the storage of bedding or textiles.

11.2 Cold storage rooms

Refrigerating equipment and cold storage rooms must be provided and be adequate for the storage of perishable provisions for the crew having regard to the period likely to elapse between successive replenishment of stores.

APPENDIX 2

ADDITIONAL REQUIREMENTS

1 HEADROOM

The clear headroom in all crew accommodation where full and free movement is necessary must be at least 1.98 metres.

2 MECHANICAL VENTILATION

A mechanical ventilation system specified in 2.3 of Appendix 1 must be temperature-controlled, unless it is ventilating:

- (a) a galley; or
- (b) a laundry; or
- (c) a change room; or
- (d) a storeroom.

Note: Air condition that meets Australian Standard 1921-1976 is satisfactory for the purposes of this Part.

3 SLEEPING ROOMS

3.1 A separate sleeping room must be provided for each rating of 18 years of age or over.

3.2 Not more than 2 persons under the age of 18 may be accommodated in the same room.

4 SANITARY ACCOMMODATION

One water closet must be provided for every 5 persons for whom separate sanitary accommodation has not been provided and where the total number of those persons is not divisible by 5 without a remainder, and the remainder exceeds 2, an additional water closet must be provided.

5 WASHING ACCOMMODATION

Washing accommodation must include at least one shower and one wash-basin for each 5 persons for whom the accommodation has been provided and where the total number of those persons is not divisible by 5 without a remainder, and the remainder exceeds 2, an additional shower and an additional wash-basin must be provided.

6 ASBESTOS

Asbestos must not be used in the crew accommodation constructed after 1 July 1990.

APPENDIX 3

HOSPITAL ACCOMMODATION**1 NUMBER OF BERTHS TO BE PROVIDED**

Berths are to be provided in the hospital accommodation in accordance with Table 1.

Table 1

<i>Number of persons carried</i>	<i>Number of berths</i>
Less than 75	2
More than 74 but less than 150	3
More than 149 but less than 200	4
More than 199 but less than 400	5
More than 399 but less than 500	8
More than 499 but less than 700	9
More than 699 but less than 900	10
More than 899 but less than 1,200	11
More than 1,200	11 plus 1 for every 300 persons in excess of 1,200

2 LOCATION**2.1** Hospital accommodation must be located:

- (a) in a position that will ensure the greatest possible comfort for the patients; and
- (b) so that it is readily accessible and that the patients may receive proper medical attention in all weathers.

2.2 Hospital accommodation in a ship that does not carry a qualified medical practitioner must be situated within easy access of the sleeping accommodation provided for the person in charge of the patients.

3 GENERAL STANDARDS

Unless otherwise provided in this Appendix, the minimum standards specified in Appendix 1 for the sleeping accommodation of ratings on a ship are to apply also to the hospital accommodation of the ship.

4 ARRANGEMENT OF BERTHS

Berths must be arranged:

- (a) in single tier;
- (b) so that at least one berth is accessible from both sides and the foot; and

(c) so as to accommodate readily a stretcher alongside any berth.

5 CONSTRUCTION AND FITTINGS

5.1 The doorway to the hospital accommodation must be sufficiently wide to allow the free passage of a stretcher.

5.2 The floor of the hospital accommodation must be covered with a rubber based or other impervious material and must be fitted with a coving around its perimeter.

5.3 The hospital accommodation must be fitted with at least 2 sidescuttles or windows, each of which must be at least 0.08 square metres in area, fitted with suitable bars or guards.

6 EQUIPMENT

6.1 A suitable locker, a water bottle and a tumbler must be provided for each berth in the hospital accommodation and must be within reach of that berth.

6.2 The hospital accommodation must be provided with:

- (a) a clothes locker;
- (b) an adequate number of seats;
- (c) bed pan; and
- (d) electric bell-pushes so arranged as to be within reach of each berth and communicating with the sleeping accommodation provided for the person in charge of the patients.

7 LIGHTING

Hospital accommodation must be provided with a dedicated system of lighting which must be kept ready at all times for use in the event of a failure of the normal lighting system.

8 VENTILATION

The mechanical ventilation system required by 2.3 of Appendix 1 must be such as to maintain 10 air changes per hour under all conditions of weather and climate to which the ship is likely to be subjected during the intended voyages.

9 SANITARY ARRANGEMENTS

9.1 A sanitary block comprising a bathroom and a water closet must be provided for the exclusive use of patients in the hospital accommodation.

9.2 The bathroom must contain a shower and a wash-basin.

9.3 Access to the sanitary block must be obtained direct from the hospital accommodation.

9.4 The provisions of Appendix 1 relating to sanitary accommodation, wash places and supply and discharge of water apply as appropriate to the sanitary arrangements of the hospital accommodation.