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**AUSTRALIAN NAVAL CLASSIFICATION AUTHORITY MANUAL
(VOLUME 2)**

DIVISION 3: SHIP RULES

CHAPTER 12: HABITABILITY

PART 2: SOLUTIONS TO THE ANC RULES



This document is issued for use by Defence and Defence Industry personnel and is effective forthwith.

Handwritten signature of CN Dagg, CSC.

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May 2024 Edition

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AUSTRALIAN NAVAL CLASSIFICATION RULES

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Solutions to the ANC Rules**Rule 0. Goal**

0.1 The Goal for this Chapter is contained in Part 1.

Rule 1. General**Solutions**

- 1.1 The Naval Vessel Operator (NVO) shall present and justify a Solution for demonstrating compliance to Part 1 of the ANC Rules. In the presentation and justification of a solution, the following shall be considered.
- 1.2 All Rules, Regulations, Codes and Standards used shall be the latest versions as amended at the time of drafting the ANC Basis unless a specific version date is specified in the text.

Note: For all references in this Chapter to *Marine Order 11 (MO11)* and *Maritime Labour Convention (MLC)*, where the document uses the term "Competent Authority", it should be read to mean "Naval Vessel Operator (NVO)", "Seafarer" means "Embarked Persons" and "Must" means "Shall".

- 1.3 The Naval Vessel size and arrangement of accommodation spaces and workspaces shall be developed in accordance with the anthropometric & physical characteristics applicable for the area as defined by Division 2 *Core Design Rules*, Chapter 1 *General Requirements*, Rule 8 *Human Factors Engineering*.

Rule 2. Internal Environment**Solutions**

- 2.1 The NVO shall present and justify a Solution for demonstrating compliance to Part 1 of the ANC Rules. In the presentation and justification of a solution, the following shall be considered.

Air-conditioning and ventilation

- 2.2 The Naval Vessel shall meet the requirements of MLC Standard *A3.1 paragraph 7* for HVAC requirements supplemented by the following:
- 2.2.1 HVAC requirement for manned spaces of Chapter 04 *Engineering Systems* Rule 19 *Heating, Ventilation and Air Conditioning (HVAC)*;
- 2.2.2 Galleys shall comply with the HVAC requirements specified in Marine Order 11;
- 2.2.3 Dry Provision Stores shall comply with the HVAC requirements specified in Marine Order 11;
- 2.2.4 The HVAC systems in accommodation spaces shall incorporate a local control system that allows for adjustment of the HVAC of accommodation space (e.g. recreation rooms) or group of spaces (e.g. sleeping cabins); and
- 2.2.5 Intake vents which supply air to the accommodation ventilation system shall be situated away from diesel or sewage treatment plant emissions.

Thermal insulation

- 2.3 The Naval Vessel shall comply with insulation requirements for accommodation areas as specified in Marine Order 11, supplemented by Chapter 04 *Engineering Systems* Rule 19 *Heating, Ventilation, and Air Conditioning (HVAC)*.

Lighting

- 2.4 Living and working spaces shall be equipped with fixed electrical lighting that complies with the requirements of Marine Order 11, supplemented by Chapter 04 *Engineering Systems* Rule 14 *Lighting*.

Materials

- 2.5 Material used to construct living and working spaces shall meet the requirements of Marine Order 11 for decks, flooring, bulkhead and deckhead surfaces supplemented by the following:
- 2.5.1 Division 2 Chapter 01 *General Requirements* Rule 5 *Material Selection*;
- 2.5.2 Chapter 01 *Integrated Platform Survivability* Rule 6 *Blast Hardening*; and
- 2.5.3 Chapter 06 *Fire Safety* Rule 2 *Structural Integrity in case of fire*, Rule 4 *Fire Growth Potential* and Rule 5 *Smoke Generation and Toxicity*

Rule 3. Noise and Vibration**Solutions**

- 3.1 The NVO shall present and justify a Solution for demonstrating compliance to Part 1 of the ANC Rules. In the presentation and justification of a solution, the following shall be considered.
- 3.2 All Naval Vessels shall meet the requirements of resolution IMO MSC.337(91) - *Code on Noise Levels on Board Ships* supplemented by the following:
- 3.2.1 When IMO MSC.337(91) - *Code on Noise Levels on Board Ships* does not apply to the Naval Vessel, the NVO shall assess the Naval Vessel in accordance with Marine Order 11.
- 3.3 MSC.337(91) does not cover recommended maximum noise levels in laundries, toilets, showers, bathrooms and change rooms. Therefore, the following levels are the maximum levels that shall be achieved in these spaces:
- 3.3.1 Laundries – 75 dB(A) (Laundry equipment not working); and
- 3.3.2 Toilets, showers, bathrooms and change rooms – 75 dB(A).

Note: The WHS Act Regulation 56 and Defence Safety Management requirements may contain additional operational requirements and noise protection and signage requirements for the protection of embarked persons.

- 3.4 Naval Vessels shall meet the requirements of ISO 20283-5: *Mechanical vibration - Measurement of vibration on ships - Part 5: Guidelines for measurement, evaluation and reporting of vibration* with regard to habitability on passenger and merchant ships.

Rule 4. Naval Vessel Configuration**Solutions**

- 4.1 The NVO shall present and justify a Solution for demonstrating compliance to Part 1 of the ANC Rules. In the presentation and justification of a solution, the following shall be considered.
- 4.2 The Naval Vessel shall meet the general requirements for accommodation of MLC Standard A3.1 - *Accommodation and Recreational facilities* paragraph 6(a), 6(c), 6(d) and 6(e), supplemented by the following:
- 4.2.1 For paragraph 6(a) of MLC Standard A3.1, the minimum permitted headroom shall be taken as 2150 mm.
- 4.2.2 For paragraph 6(c) and 6(d) of MLC Standard A3.1, for Naval Vessel not assigned a load line in accordance with the *International Convention on Load Lines*, "load line amidship" shall be read as the minimum allowable freeboard as determined by Chapter 03 *Buoyancy and Stability*.
- 4.2.3 No manhole or other opening to an oil tank shall be located in the accommodation spaces of the Naval Vessel.
- 4.2.4 No manhole or other opening to an explosives magazine shall be located in the accommodation spaces of the Naval Vessel.
- 4.3 The Naval Vessel shall meet the requirements of MLC Standard A3.1 paragraph 10(a) for mess room and galley locations.
- 4.4 Galleys shall be located as close as practicable to provision stores.
- 4.5 The sleeping cabins shall be separated from recreational spaces and arranged and allocated in accordance with:
- 4.5.1 Separate watches; and
- 4.5.2 Ensure that no crew working during the day shares a room with a watchkeeper.
- 4.6 Sanitary facilities on the Naval Vessel shall be easily accessible from sleeping cabins, recreational spaces, operational areas and in accordance with other places as specified by Marine Order 11.
- 4.7 Where required by the OSI, accommodation shall be provided for non-crew.
- 4.8 The design and layout of accesses and passageways shall:
- 4.8.1 Meet the requirement of Chapter 07 *Emergency Escape and Rescue* and;
- 4.8.2 Be sized to allow the required movement of stores, food and provisions taking into account any handling equipment requirements.
- 4.9 Safety measures against rough weather, as required by Chapter 03 *Buoyancy and Stability* Rule 2 and Rule 6, shall be incorporated in the overall design of accommodation spaces supplemented by the following, but not limited to:
- 4.9.1 Fixed furniture shall be firmly secured and rattle-free;
- 4.9.2 Means shall be provided to stow and secure portable furniture;

- 4.9.3 Doors, including those to cupboards and other items of furniture, shall be so retained as not to open accidentally;
- 4.9.4 Drawers shall be so designed such that they do not slide open or fall out; and
- 4.9.5 Tables, shelves, stowage racks and other similar fittings shall be fitted with retaining lips or bars or with non-slip surfaces.
- 4.10 Openings and accesses into enclosed accommodation spaces from exposed superstructures decks shall be situated and constructed in accordance with Chapter 03 *Buoyancy and Stability* Rule 2 *Watertight Integrity*.
- 4.11 The naval vessel shall meet the piping requirements from Marine Order 11 supplemented by the following:
- 4.11.1 Soil pipes shall not pass overhead in sleeping rooms, dining rooms, recreation spaces or the hospital, except where it is impracticable to place them elsewhere.
- 4.11.2 Soil pipes shall be insulated to remove noise disturbance in accommodation areas through which they pass.
- 4.11.3 Pipes used for accommodation services in particular, soil pipes and waste pipes shall be so constructed as to minimise the risk of obstruction and to facilitate cleaning.
- 4.11.4 Valves, flanges and associated couplings on liquid system pipework shall not be positioned above bunks or tables.
- 4.11.5 Opening, including sounding tube openings, tank vent openings, filling connections, and pipe system drain-down points shall not be located inside accommodation spaces.
- 4.11.6 Requirements of Chapter 04 *Engineering Systems* Rule 6 *Pressure and Piping Systems*.
- 4.12 The Naval Vessel shall comply with Marine Order 11 requirements for the storage of batteries.
- 4.13 Furniture, fixtures, and fittings in accommodation spaces shall be installed such that transmitted noise and vibrations are minimised, this includes:
- 4.13.1 Pipe-work, ventilation trunking and rod gearing that also transit through compartments with high levels of vibration, shall not be ran through accommodation spaces.
- 4.13.2 Moving parts of accommodation doors, hatches, cupboards, and drawer openings shall be designed to and operate with minimal noise and vibration.
- 4.14 All furniture and fittings shall be designed and installed to avoid injuries from bodily contact including avoidance of sharp edges, corners, and protuberances.
- 4.15 Heated and ventilated change facilities shall be provided commensurate with the number of embarked persons to stow and dry foul weather gear and work clothing.
- 4.15.1 This stowage shall be external to the sleeping cabins.
-
- Note: See Rule 2 - *Internal Environment* for HVAC requirements.
-
- 4.16 A curtain or blind shall be fitted for each port-light/side-scuttle in every sleeping/dining/recreation room.

- 4.17 Facilities shall be provided for the storage and hanging of hats and outerwear outside dining and recreation areas.
- 4.18 Heads serving communal areas shall be provided with full length polycarbonate mirrors within the vicinity of the entrance.

Rule 5. Sleeping and Cabin Arrangements

Solutions

- 5.1 The NVO shall present and justify a Solution for demonstrating compliance to Part 1 of the ANC Rules. In the presentation and justification of a solution, the following shall be considered.
- 5.2 When sleeping cabins are required for embarked persons on board a Naval Vessel, the following requirements shall apply:
- 5.2.1 Paragraphs 9(b) to 9(d) and 9(n) of MLC Standard A3.1 shall be met.
- 5.2.2 The allocation of single or multi-berth cabins, or additional adjoining sitting room, day room, ensembles or equivalent additional space, shall be specified by the NVO and dependant on the crew's rank.
- 5.2.3 Sleeping cabins shall be provided with the following items:
- 5.2.3.1 A polycarbonate mirror;
- 5.2.3.2 A small cabinet for toiletries; and
- 5.2.3.3 Coat hooks.
- 5.2.4 Furniture structure in sleeping cabins shall be made of a smooth, hard, material resistant to warping and corrosion.
- 5.2.5 Any part of a bulkhead separating the sleeping cabins shall be:
- 5.2.5.1 constructed of materials in accordance with Chapter 06 *Fire Safety*;
- 5.2.5.2 watertight; and
- 5.2.5.3 gastight.
- 5.2.6 There must not be any direct openings into sleeping rooms from any of the following areas:
- 5.2.6.1 cargo spaces;
- 5.2.6.2 machinery spaces;
- 5.2.6.3 galleys;
- 5.2.6.4 storerooms;
- 5.2.6.5 drying rooms; and
- 5.2.6.6 communal sanitary areas.
- 5.2.7 All sleeping cabins shall be provided with the following services:

- 5.2.7.1 Switched lighting to include room light and reading light;
- 5.2.7.2 A wash basin;
- 5.2.7.3 General Purpose Outlets (GPOs);
- 5.2.7.4 Naval Vessel main communication network connection;
- 5.2.7.5 Telephone connection point in Officers Cabins;
- 5.2.7.6 IT terminal connection points; and
- 5.2.7.7 A sealable laundry bag facility for each occupant.

Officers Sleeping Cabins

- 5.2.8 For Officers sleeping cabins, the minimum floor area shall not be less than:
 - 5.2.8.1 6 m² for single berth cabins;
 - 5.2.8.2 8 m² for sleeping cabins occupied by a maximum of two Officers; or
 - 5.2.8.3 as determined by the NVO.
- 5.2.9 Officers sleeping cabins shall be provided with a table or desk, which may be of the fixed, drop-leaf or slide-out type, and with comfortable seating accommodation as necessary as well as desk light and GPO.

Note: The NVO may relax this requirement for Officers' sleeping cabins not conducting administrative duties.

- 5.2.10 Officers and higher ranks sleeping cabins shall be fitted with a security container.

Senior Non-Commissioned Officers (NCOs) Sleeping Cabins

- 5.2.11 For Senior NCOs sleeping cabins, the minimum free floor area shall not be less than:
 - 5.2.11.1 5 m² for single berth sleeping cabins;
 - 5.2.11.2 8 m² for two berths sleeping cabins;
 - 5.2.11.3 12 m² for four berths sleeping cabins; or
 - 5.2.11.4 as determined by the NVO.
- 5.2.12 Senior NCOs sleeping cabins shall be provided with a table or desk, which may be of the fixed, drop-leaf or slide-out type, and with comfortable seating accommodation as necessary as well as desk light and GPO.

Note: The NVO may relax this requirement for Officers' sleeping cabins not conducting administrative duties.

Junior NCOs Sleeping Cabins

- 5.2.13 For Junior NCOs sleeping cabins, the minimum free floor area shall be not less than:
 - 5.2.13.1 2 m² per person for sleeping cabins occupied by a maximum of six Junior NCOs; or
 - 5.2.13.2 As determined by the NVO.

Other Ranks Sleeping Cabins

5.2.14 For Other Ranks sleeping cabins, the minimum free floor area shall not be less than:

5.2.14.1 1.6 m² per person; or

5.2.14.2 as determined by the NVO.

Sleeping Berths

5.3 Sleeping berths shall meet the requirements of *Marine Order 11* supplemented by the following:

5.3.1 The minimum dimensions for both the length and the width of berths shall be taken as 2100 mm and 800 mm respectively;

5.3.2 Berths shall only be oriented with their length along the fore and aft Naval Vessel's axis with the head end forward;

5.3.3 The material of the framework and lee-board of berths shall be in accordance with Rule 2 *Internal Environment*;

5.3.4 Every berth shall be provided with a reading light;

5.3.5 Every berth shall be provided with a GPO with USB power connection in accordance with Chapter 04 *Engineering Systems* Rule 13 *Electrical Distribution and Equipment*;

5.3.6 The design of berths shall allow reading in the sitting up position.

5.3.7 Berths shall be fitted with a belt designed to hold the occupant in the berths in high sea states.

5.3.7.1 This belt shall also double as a restraint for the bedding materials so as to avoid pumping hazards (ingestion of bedding, pillows, etc. into the pump suction pipe) in a damage control situation.

5.3.8 Curtains or alternative arrangements in multi-berth cabins are to cover the whole opening to ensure privacy.

5.3.9 In multi-berth cabins, the head and foot end of berths (if open) shall also be screened to ensure privacy.

5.3.10 Crew members shall be able to control the airflow at their individual sleeping berths.

Non-Crew Sleeping Facilities

5.4 Specific sleeping facilities shall be provided for non-crew as required by the OSI.

5.5 These facilities shall comply with the crew sleeping requirements of this chapter unless otherwise defined by the NVO.

Rule 6. Hygiene

Solutions

6.1 The NVO shall present and justify a Solution for demonstrating compliance to Part 1 of the ANC Rules. In the presentation and justification of a solution, the following shall be considered.

Hygiene and Cleanliness

- 6.2 Furniture, equipment, fixtures, and fittings shall be designed for ease of maintenance and cleaning to maintain a safe, and habitable condition. This includes:
- 6.2.1 Be easily kept clean;
 - 6.2.2 Resistant to the harbouring of vermin and collection of dirt; and
 - 6.2.3 Structure made of a smooth, hard, material resistant to warping and corrosion;

Note: See Rule 2 *Internal Environment* for broader materials selection

- 6.3 Where items of furniture, fittings etc are built or boxed in there is a danger that voids will become a breeding area for vermin. Voids spaces shall be fitted with access for inspection and cleaning.
- 6.4 Access shall be provided behind and under all stowage.
- 6.5 The naval vessel shall have designated facilities for the storage and washing of cleaning equipment with efficient access to the areas they serve in accordance with Rule 4.8.
- 6.6 Compartments shall be provided with garbage collection point and collected, processed, stored and disposed in accordance with the garbage management plan.

Sanitary Facilities

- 6.7 Sanitary facilities shall meet the requirements of MLC Standard A3.1 paragraph 11 supplemented by *Marine Order 11* and the following:
- 6.7.1 Heads
 - 6.7.1.1 Shall be of a closet pan type allowing a person to both sit or stand;
 - 6.7.1.2 Shall be provided with hand wash and drying facilities in or adjacent to head cubicles; and
 - 6.7.1.3 Shall be provided with a hand rail.
 - 6.7.2 Washbasins
 - 6.7.2.1 Shall have a shelf in the vicinity of each basin;
 - 6.7.2.2 Shall have a polycarbonate mirror;
 - 6.7.2.3 In private ensembles, the mirrors shall be fitted with a light above it; and
 - 6.7.2.4 Shall have a GPO in accordance with *Chapter 04 Engineering Systems*.
 - 6.7.3 Shower Spaces
 - 6.7.3.1 Free floor space shall be provided immediately adjacent to the shower recess access and have an area not less than the base of the shower recess;
 - 6.7.3.2 This area shall also be provided with a deck drain;
 - 6.7.3.3 Each shower space shall be fully enclosed and screened for privacy;
 - 6.7.3.4 Shower screens shall be made of material that will not shatter on impact;
 - 6.7.3.5 Enclosed storage shall be provided for the stowage of toiletries; and

- 6.7.3.6 Shower spaces shall be designed to prevent the accumulation and minimise spillage of water outside the shower;
- 6.7.4 Wash facilities within sanitary facilities shall be fitted with thermostatic device to regulate the temperature of hot water, at the outlet, to 50 degrees Celsius.
- 6.7.5 Sanitary facilities shall be provided with safe and hygienic garbage disposal facilities in accordance with 6.6.
- 6.7.6 The NVO shall determine the segregation of sanitary facilities of embarked persons outside of sleeping cabins.

Laundry Facilities

- 6.8 Laundry facilities of adequate number and fit out for embarked persons shall meet the requirements of Marine Order 11 supplemented by the following:
- 6.8.1 All equipment in the laundry shall be securely fastened to the ship structure.
- 6.8.2 Laundry facilities shall be well ventilated.

Rule 7. Stores

Solutions

- 7.1 The NVO shall present and justify a solution for demonstrating compliance to Part 1 of the ANC Rules. In the presentation and justification of a solution, the following shall be considered.
- 7.2 The Naval Vessel storerooms shall be located, arranged, ventilated, lit, drained, secured, protected, and equipped to comply, in all foreseeable environmental conditions, with the Chapters 01 to 15, relevant to the intended contents of the stores.
- 7.3 The number, size and type of storerooms shall be in accordance with the OSI requirements.
- 7.4 Provisions storerooms shall meet the requirements of Marine Order 11 for the storage of food supplemented by the following:
- 7.4.1 Chapter 04 *Engineering Systems* Rule 23 *Refrigeration Systems* for cold and cool stores; and
- 7.4.2 All frozen food shall be kept at temperature below -18C.

Rule 8. Food Preparation and Handling

Solutions

- 8.1 The NVO shall present and justify a solution for demonstrating compliance to Part 1 of the ANC Rules. In the presentation and justification of a solution, the following shall be considered.
- 8.2 Safe and efficient galley, food preparation and handling.
- 8.2.1 The galley shall have means for securing or stabilising loose equipment and stores.
- 8.2.2 The Naval Vessel galley shall at minimum comply with the equipment requirement of Marine Order 11.

- 8.2.2.1 The galley shall include facilities and dedicated space(s) for food and garbage disposal.
- 8.2.2.2 Galley shall have a dedicated space (marked accordingly) for the storage of First Aid equipment in accordance with the OSI.
- 8.2.3 The Naval Vessel galley shall comply with the requirements of MLC regulation *A3.2.2.a, and A3.2.2.b*.
- 8.3 Food Preparation and Handling areas shall comply with Marine Order 11.
- 8.3.1 Catering compartments shall have not direct access to toilets, tank vents nor machinery compartments;
- 8.3.2 Washing, drying and storage facilities for cooking equipment and utensils shall be provided.
- 8.4 The galley shall have a designated administrative area, separate from food preparation, cooking and cleaning facilities.
- 8.5 Communication systems shall be provided between storage, food preparation, handling and servicing areas.

Rule 9. Food Service, Dining and Clearing

Solutions

- 9.1 The NVO shall present and justify a solution for demonstrating compliance to Part 1 of the ANC Rules. In the presentation and justification of a solution, the following shall be considered.

Food Service Area

- 9.2 The food service areas shall:
- 9.2.1 Provide means to maintain food at the required temperature and;
- 9.2.2 Allow embarked persons to conduct self-service requirements safely and efficiently.
- 9.2.3 The dining room(s) shall have quantities of mess utensils, plates and cup that are of material that is durable, corrosion resistant, hygienic, easily cleanable, and appropriate in number.
- 9.3 Dining areas for embarked persons shall meet the requirements mentioned in Marine Order 11 *Schedule 7* supplemented by military rank operational requirements as per the OSI.
- 9.4 Facilities shall be provided for embarked persons to readily access snack food and hot or cold beverage at any period of the day in accordance with Marine Order 11 *Schedule 7*.

Cleaning and disposal of catering equipment and food

- 9.5 The main dining area shall include, in or adjacent, facilities and dedicated space(s) for efficient cleaning and washing gear, as well as waste food and other waste collection.
- 9.6 The floor and work area shall be commensurate with the size of the dining area it supports.
- 9.7 The area shall be provided with dishwashing facilities.
- 9.8 The movement of dishes and waste into the area shall not interfere with food preparation, collection or food service spaces.

Safety of use

- 9.9 Equipment shall be provided to enable food to be served hot in the mess room in all foreseeable weather conditions.

Rule 10. Recreation, Group Activity Arrangements and Offices**Solutions**

- 10.1 The NVO shall present and justify a solution for demonstrating compliance to Part 1 of the ANC Rules. In the presentation and justification of a solution, the following shall be considered

Recreational Facilities

- 10.2 The Naval Vessel shall be provided with recreational facilities meet the requirements of Marine Order 11, with allowance for separation of hierarchical groups as determined by the NVO.
- 10.3 Recreational facilities shall meet the needs of embarked persons as defined by the NVO and include facilities for reading, writing, games, video, and sound entertainment.

Training and education facilities

- 10.4 Designated areas for training and education, as defined by the NVO, shall be equipped and have the ability to facilitate the following:
- 10.4.1 Use of computer equipment;
- 10.4.2 Use of video/digital projection equipment; and
- 10.4.3 Access to the Naval Vessel's LAN.

Naval Vessel's Offices

- 10.5 Office spaces shall be provided and arranged, as determined by the NVO, to meet the OSI.
- 10.6 Ship's offices shall be provided with secured facilities that includes, but not limited to, workstations, seating, computers, storage.
- 10.6.1 Provision shall be provided at all office workspaces for computers to connect to the Naval Vessel LAN.