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

DIVISION 3: SHIP RULES

CHAPTER 15: HEALTH FACILITIES

PART 1: 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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¹ <https://www.legislation.gov.au/Series/C1968A00063>

² <https://www.legislation.gov.au/Series/C2004A04868>

³ <https://www.legislation.gov.au/Series/C2004A03712>

⁴ <http://drnet/AssociateSecretary/security/policy/Pages/dspf.aspx>

AUSTRALIAN NAVAL CLASSIFICATION RULES

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Chapter 15: Health Facilities

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Australian Naval Classification Rules**Rule 0. Goal**

- 0.1 The health facilities shall be designed, constructed, operated and maintained to:
- 0.1.1 Provide primary health care to embarked persons;
 - 0.1.2 Provide first aid to casualties in all Foreseeable Operating Conditions; and
 - 0.1.3 Provide clinical care to casualties up to the health care effect defined in the Operating and Support Intent (OSI).

Rule 1. General**Functional Objective**

- 1.1 The purpose of this Rule is to outline the principles and framework of Chapter 15 *Health Facilities* and its application.

Scope

- 1.2 Division 2 Chapter 01 *General Requirements* and Division 3 Chapter 01 *Integrated Platform Survivability* apply to all chapters of the ANC Rules Division 3, as applicable to the design.

Application

- 1.3 The applicability of each Rule of this Chapter shall be determined from the ship's OSI.

General Performance Requirements

- 1.4 Health facilities shall be designed, constructed, and maintained to:
- 1.4.1 Facilitate prevention and control of infection;
 - 1.4.2 Be readily accessible to stretcher cases:
 - 1.4.2.1 To and from the ship's main casualty evacuation locations;
 - 1.4.2.2 Between the on-board health facilities;
 - 1.4.3 Be located where risk of loss of the facility is minimised;
 - 1.4.4 Be located to optimise the environment for patient treatment and convalescence;
 - 1.4.5 Be arranged to enable a smooth workflow of casualties through the facility;
 - 1.4.6 Be provided with emergency supply of:
 - 1.4.6.1 Power, including uninterrupted power for critical medical equipment;
 - 1.4.6.2 Lighting;
 - 1.4.6.3 Potable water, where required for clinical care and rehydration;

Note: See Chapter 04 *Engineering Systems* for requirements relating to power, lighting and potable water systems.

- 1.4.7 Be provided with power distribution and electrical protection arrangements to protect patients and sensitive equipment from unintended electrical or magnetic effects;
- 1.4.8 Be provided with heating, ventilation, and air conditioning to:

1.4.8.1 Maintain a comfortable environment for patient care and equipment storage;

1.4.8.2 Maintain an environment to facilitate the prevention and control of infection; and

Note: See Chapter 04 *Engineering Systems* for requirements relating to heating, ventilation and air conditioning systems.

1.4.9 Where medical gases are supplied to a space, be provided with a gas detection system set to alarm locally and at a manned control station in case any medical gases approach unsafe limits in the facility atmosphere.

Note: See Chapter 04 *Engineering Systems* and Chapter 06 *Fire Safety* for requirements related to the storage and distribution of medical gases.

1.5 Secure storage, monitoring and access to medicines and medical consumables shall be provided.

1.6 Health items not in primary health facility stowages shall be clearly marked and provided with appropriate protection from damage and contamination.

1.7 Sufficient medical equipment and stowage space shall be provided to ensure en-route care during casualty transfer between on-board health facilities or in case of evacuation.

1.8 Where interoperability of health equipment is specified by the OSI, recognised Naval, national or international standards consistent across Naval Vessels shall be applied.

Rule 2. Provision of operational information

Functional Objective

2.1 Operators shall be provided with adequate information and instructions for the safe operation and maintenance of all health facilities' systems and equipment.

Performance Requirements

2.2 To operate, maintain and monitor the effectiveness of the health facilities' systems and equipment, the following information and instructions shall be provided:

2.2.1 Information for the safe operation of all health facilities' systems including: operating locations, performance capability, limitations and restrictions of the systems and equipment;

2.2.2 Information for the maintenance of all health facilities' systems and equipment, incorporated into the ship's maintenance plan; and

2.2.3 Information for the safe testing of health facilities' systems and equipment, including recommended test schedules which shall be incorporated in the ship's maintenance plan.

Rule 3. Casualty first response facilities

Functional Objective

3.1 Casualty first response facilities shall enable in all Foreseeable Operating Conditions:

3.1.1 First aid and stabilising care for casualties; and

3.1.2 Transfer of casualties to the primary health facility or preparation for evacuation.

Performance Requirements

- 3.2 First Aid Posts (FAPs) shall be:
- 3.2.1 Distributed through the ship to rapidly respond to credible damage and casualty scenarios derived from the ship's OSI;
 - 3.2.2 Designed for rapid access and use of emergency equipment and consumables;
 - 3.2.3 Provided with internal communication equipment; and
 - 3.2.4 Provided with equipment required to stabilise casualties before transfer.
- 3.3 First aid boxes shall be:
- 3.3.1 Provided with suitable stowages;
 - 3.3.2 Distributed through the ship at locations convenient for their rapid use at the point of injury; and
 - 3.3.3 Available in survival crafts.
- 3.4 Automated External Defibrillators (AED) shall be distributed through the ship at readily accessible locations determined by risk assessment.

Rule 4. Primary health facilities (Role 1)

Functional Objective

- 4.1 Primary health facilities shall:
- 4.1.1 Enable access to medical information and expertise;
 - 4.1.2 Enable health consultation;
 - 4.1.3 Enable diagnosis, stabilisation and treatment of a casualty;
 - 4.1.4 Enable monitoring of a casualty following initial treatment; and
 - 4.1.5 Enable preparation of casualty for safe transfer to appropriate level of health care in all Foreseeable Operating Conditions.

Performance Requirements

- 4.2 Primary health facilities shall:
- 4.2.1 Provide access to written medical guides;
 - 4.2.2 Provide furniture to facilitate health consultation and administration;
 - 4.2.3 Provide secure storage, monitoring and access to health records;
 - 4.2.4 Be provided with data connections and communication equipment for remote access to qualified medical practitioners and arrange CASEVAC when required.
 - 4.2.5 Be located on or above the Damage Control Deck or equivalent, defined in Chapter 03 *Buoyancy and Stability Rule 2 Watertight Integrity*;
 - 4.2.6 Be located and arranged to allow manoeuvring of a stretchered casualty into, out of and within the facility in all Foreseeable Operating Conditions;
 - 4.2.7 Be arranged with furniture to allow medical equipment and personnel access to examine and treat any part of the casualty;
 - 4.2.8 Be provided with safe storage, access and monitoring for medical equipment, consumables and medicines in all Foreseeable Operating Conditions;

- 4.2.9 Be provided with hand washing and drying facilities;
- 4.2.10 Be well lit, with dedicated lighting for clinical examination and health treatment areas;
- 4.2.11 Be provided with dedicated waste collection facilities for the safe disposal of medical and bio-waste, which also satisfies the requirements of Chapter 14 *Environmental Protection*;
- 4.2.12 Be provided with berths, ancillary equipment and structure to provide high, medium and/or low dependency care to the capacity required by the OSI in all Foreseeable Operating Conditions; and
- 4.2.13 Be provided with dedicated sanitary facilities.
- 4.3 Where required by the OSI, a secondary health facility shall be provided remote from the primary health facility.
 - 4.3.1 The secondary health facility need not be a dedicated health space but shall be capable of satisfying paragraphs 4.2.4 to 4.2.11.

Rule 5. Casualty surgical facilities (Role 2)

Functional Objective

Note: Compliance with Rule 4 *Primary medical facilities (Role 1)* is mandatory for ships to which Rule 5 *Casualty surgical facilities (Role 2)* is applied.

- 5.1 Where required by the OSI, casualty surgical facilities shall:
 - 5.1.1 Provide diagnosis, stabilisation, and ability to conduct interventions to the capacity required by the OSI;
 - 5.1.2 Provide post-operative care of casualties;
 - 5.1.3 Facilitate the use of electrical health equipment for casualty care before, during and after interventions in all Foreseeable Operating Conditions; and
 - 5.1.4 Allow health treatment and interventions to continue in case of loss of the primary health facility;

Performance Requirements

- 5.2 Where required by the OSI, casualty surgical facilities shall:
 - 5.2.1 Be designed, located, and organised to ensure minimum manual handling impost for handling stretchered or immobile patients in all Foreseeable Operating Conditions;
 - 5.2.2 Be arranged with furniture to allow interventions and personnel access to perform interventions at any part of the casualty to the capacity required by the OSI;
 - 5.2.3 Be provided with safe storage, monitoring and access to health equipment, consumables, medical gases and medicines;
 - 5.2.4 Be provided with surgical equipment and consumables sterilisation facilities and storage for sterilised surgical equipment and consumables;
 - 5.2.5 Be provided with hand washing and drying facilities;
 - 5.2.6 Be well lit, with dedicated lighting for clinical examination, intervention and health treatment areas;
 - 5.2.7 Be provided with dedicated heating, ventilation, and air conditioning to maintain a sterile and comfortable environment for interventions;

- 5.2.8 Be provided with dedicated medical storage, emergency potable water and sanitary facilities;
- 5.2.9 Be provided with dedicated medical waste management facility to dispose surgical, medical and bio-waste, which also satisfies the requirements of Chapter 14 *Environmental Protection*;
- 5.2.10 Where anaesthetic gases are specified in the OSI, be provided with a scavenging system for anaesthetic gases.
- 5.2.11 Be provided with data connections and communication equipment for internal communications and remote access to qualified medical practitioners;
- 5.2.12 Be provided with berths, ancillary equipment and structure to provide intensive or high dependency care to the capacity required by the OSI in all Foreseeable Operating Conditions; and
- 5.2.13 Be provided with a dedicated laundry.
- 5.3 Where required by the OSI, an Emergency Operating Station (EOS) shall be provided, which shall:
 - 5.3.1 Be designed, located, and organised to meet the post damage health stabilisation capability required by the OSI;
 - 5.3.2 Work as an alternate emergency location for the primary health facility; and
 - 5.3.3 Comply with 5.2.1 to 5.2.11 to the extent required by the OSI.

Rule 6. Enhancing modules for health facilities

Functional Objective

Note: Compliance with Rule 4 *Primary medical facilities (Role 1)* is mandatory for ships to which Rule 6 *Enhancing modules for health facilities* is applied.

- 6.1 Enhancing modules for health facilities shall provide supplementary diagnostic and treatment facilities where necessary to meet the OSI.

Performance Requirements

- 6.2 Enhancing modules for health facilities shall:
 - 6.2.1 Be located within or adjacent to the primary medical facility;
 - 6.2.2 Be provided with safe storage, access and monitoring for health equipment, consumables and medicines in all Foreseeable Operating Conditions;
 - 6.2.3 Be provided with data connections and communication equipment for internal communications and remote access to qualified medical practitioners; and
 - 6.2.4 Be provided with dedicated waste collection facilities for the safe disposal of medical and bio-waste, which also satisfies the requirements of Chapter 14 *Environmental Protection*.

Rule 7. Mortuary facilities

Functional Objective

- 7.1 Mortuary facilities shall enable secure storage and, where required by the OSI, preservation of deceased casualties.

Performance Requirements

- 7.2 Mortuary facilities shall:
- 7.2.1 Be designated spaces;
 - 7.2.2 Be located and arranged to allow manoeuvring of a stretcher into and out of, and within, the compartment in all Foreseeable Operating Conditions;
 - 7.2.3 Where required by the OSI, be refrigerated with local and remote temperature monitoring and alarm;
 - 7.2.4 Be provided with remotely monitored security arrangements to prevent unauthorised access; and
 - 7.2.5 Be arranged to prevent the spread of pathogens.
- 7.3 Mortuary facilities should not be co-located with the primary health facility.

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