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AUSTRALIAN NAVAL CLASSIFICATION RULES

DIVISION 4: SMALL CRAFT RULES

CHAPTER 05: SEAMANSHIP SYSTEMS

PART 1: ANC RULES



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

A handwritten signature in black ink, appearing to read 'CN Dagg'.

CN Dagg, CSC
Assistant Secretary
Australian Naval Classification Authority
Department of Defence
CANBERRA ACT 2600
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 <https://dpeintranet-seg.defence.gov.au/guidance-compliance/security-management/policy-advice/defencesecurity-principles-framework>

AUSTRALIAN NAVAL CLASSIFICATION RULES

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AMENDMENTS

Proposals for amendments to the ANC Rules may be sent to:

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Division 4: Small Craft

Part 1: ANC Rules

Chapter 05: Seamanship Systems

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

- 0.1 The Small Craft shall be designed, constructed, operated and maintained with seamanship systems that:
 - 0.1.1 operate in a predictable manner with a level of integrity commensurate with operational requirements
 - 0.1.2 enable them to be operated safely by embarked persons as and when required within the Small Craft's design or imposed limitations in all Foreseeable Operating Conditions
 - 0.1.3 ensure the fire, watertight and weathertight integrity of the Small Craft.

Rule 1. General**Functional Objective**

- 1.1 The purpose of this Rule is to outline the principles and framework of Chapter 05 *Seamanship Systems* and its application.

Scope

- 1.2 Chapter 01 *General Requirements* applies to all chapters of this Division, as applicable to the vessel design, and therefore in order to meet the Chapter 05 *Seamanship Systems* goal, the requirements of both this chapter and Chapter 01 *General Requirements* shall be met.
- 1.3 This chapter covers the seamanship functions of embarkation and disembarkation, anchoring, mooring, towing, lifting and hoisting, diving systems, and access to the open deck and working on the open deck.
- 1.4 The ANC Rules exclude training requirements. Chapter 05 *Seamanship Systems* assumes all embarked persons have an appropriate level of competence for the operation of the installed systems.

Application

- 1.5 The applicability of each rule of this Chapter shall be determined from the Naval Vessel's Operating and Support Intent (OSI).

General Performance Requirements

- 1.6 The availability of Seamanship Systems associated with Safety Functions shall be sustained or restored by means of the selection of reliable equipment.

Note: See Division 2 Chapter 01 *General Requirements* Rule 3 *System Safety* and Rule 4 *Systems Architecture* for the requirements relating to system safety and reliability.

- 1.7 Where required, the Small Craft shall be provided with means to safely embark, secure and deploy mission equipment with a level of integrity and redundancy to meet the OSI.
- 1.8 The Small Craft shall provide the means to operate and control seamanship systems in a safe, controlled and stable manner in all Foreseeable Operating Conditions.

- 1.9 Seamanship systems shall be inspected, maintained and repaired in accordance with the maintenance philosophy and schedule requirements defined in the OSI.
- 1.10 Where required, access to Seamanship Systems and equipment with a safety function shall be continuously available.

Rule 2. Provision of Operational Information

Functional Objective

- 2.1 Operators shall be provided with access to information and instructions for the safe operation and maintenance of all Seamanship Systems.

Performance Requirements

- 2.2 For Small Craft other than Open Boats, onboard documentation shall:
 - 2.2.1 provide information and instructions for the conduct of effective seamanship activities
 - 2.2.2 define safe operating limits and operating restrictions
 - 2.2.3 be readily found and be available at locations where they might be needed.

Rule 3. Embarkation and Disembarkation

Functional Objective

- 3.1 The Small Craft shall provide safe embarkation and disembarkation of persons and stores in all Foreseeable Operating Conditions covered by the OSI.

Performance Requirements

- 3.2 The Small Craft shall enable persons and stores to embark and disembark safely under the following conditions:
 - 3.2.1 whilst alongside a fixed structure
 - 3.2.2 whilst alongside another vessel that is not underway
 - 3.2.3 between the Small Craft and the water
 - 3.2.4 whilst the Small Craft is out of the water.
- 3.3 Small Craft with the Special Function of Personnel and Cargo Transfer, shall have arrangements for the safe transfer of persons and cargo to and from another vessel while at sea.

Rule 4. Anchoring and Mooring

Functional Objective

- 4.1 The Small Craft shall be provided with means of anchoring and mooring to suit its defined area of operation in accordance with the OSI.

Performance Requirements

- 4.2 The Small Craft mooring and anchoring systems shall secure the Small Craft in position up

to the limitations defined in the OSI.

- 4.3 The Small Craft anchoring system shall, independent of the Small Craft's power, provide means to:
 - 4.3.1 control the deployment of the anchor
 - 4.3.2 lock the anchor into position
 - 4.3.3 abandon the anchor.
- 4.4 The securing points on the Small Craft shall be available, independent of the Small Craft's own power.
- 4.5 The Small Craft securing points shall maintain structural integrity to withstand the design loads of the anchoring and mooring system.

Note: See Chapter 02 Structure Rule 3 Structural Design and Construction for the requirements relating to the supporting structure.

- 4.6 Where winches are provided, they shall:
 - 4.6.1 be positioned so the operation of the winch is directly observed by the operator
 - 4.6.2 have the provision of immediate control and emergency stopping capability during operation.
- 4.7 Where loose anchoring and mooring equipment are carried by the Small Craft, secure stowage shall be provided when not in use.
- 4.8 Provision shall be arranged such that where an element of a system fails due to the safe working load being exceeded, the mode of failure minimises SFARP, the risk of injury to embarked persons.
- 4.9 Consideration shall be given to Rule 5 *Towing*, if the anchoring and mooring equipment is used for towing.
- 4.10 For Small Craft with the Special Function of Mission Ready State, where carriage of an anchor is expected but the OSI specifies that they are not carried in a Mission Ready State, equivalent alternative arrangements shall be in place and approved by the ANCA.
- 4.11 For Small Craft with the Special Function of Landing Craft, a safe means to recover the Small Craft from ashore shall be provided.
- 4.12 Effective means of communication shall be provided between mooring and anchoring control positions and the Conning Position.

Rule 5. Towing

Functional Objective

- 5.1 The Small Craft shall be provided with means to enable it to tow or be towed with a level of integrity and redundancy to the operational scope required by the OSI.

Performance Requirements

- 5.2 All Small Craft shall be towable in an emergency.

- 5.3 The Safe Working Load (SWL) of equipment shall meet or exceed the maximum design load in all Foreseeable Operating Conditions.
- 5.4 The SWL shall be displayed on or adjacent to the equipment.
- 5.5 The towing system shall be arranged such that when the design limit is exceeded the system fails in such a way that the mode of failure minimises SFARP, the risk to embarked persons and damage to the structure of the Small Craft.

Note: See Chapter 02 Structure Rule 3 Structural Design and Construction for the requirements relating to the supporting structure.

- 5.6 Systems or devices for the safe cutting of the towing connection shall be installed.
- 5.7 Towing equipment shall be available in all Foreseeable Operating Conditions.
- 5.8 Loose towing equipment shall be provided with secure stowage when not in use.
- 5.9 The requirement to take the Small Craft in tow is a key safety function and as such all associated equipment necessary to perform that function shall demonstrate an appropriate level of integrity.

Note: See Chapter 03 Buoyancy and Stability Rule 4 Stability for the requirements relating to stability during towing operations.

- 5.10 Consideration shall be given to Rule 4 Anchoring and Mooring, if the towing equipment is used for anchoring or mooring.
- 5.11 Effective means of communication shall be provided between towing control positions and the Conning Position.
- 5.12 For Small Craft with the Special Function of Routine Towing, the arrangements shall be suited for routine towing of another Small Craft in all Foreseeable Operating Conditions.
- 5.13 Where winches are provided, they shall:
- 5.13.1 be positioned so the operation of the winch is directly observed by the operator
- 5.13.2 have the provision of immediate control and emergency stopping capability during operation.

Rule 6. Launch and Recovery

Functional Objective

- 6.1 For Small Craft with the Special Function of Launch and Recovery, the Small Craft shall be provided with means to be safely and reliably launched and recovered, including from a parent vessel.

Performance Requirements

- 6.2 The Small Craft shall be provided with means to be safely launched and recovered in conditions as required by the OSI, and the arrangements shall minimise SFARP, the risk to embarked persons.
- 6.3 During launching and recovery, the trim of the Small Craft shall be within limits that support safe operations in conditions required by the OSI.

- 6.4 Where the Small Craft is launched or recovered with persons onboard, additional safety factors shall be applied for the lifting points.

Note: See Chapter 02 *Structure* Rule 3 *Structural Design and Construction* for the requirements relating to lifting and securing points on the Small Craft for the purpose of launch and recovery.

Rule 7. Lifting and Hoisting

Functional Objective

- 7.1 Where required by the OSI, the Small Craft shall be provided with means to safely and reliably lift persons or mission equipment.

Note: See Chapter 02 *Structure* for the requirements relating to local structural loads.

Note: See Chapter 03 *Buoyancy and Stability* for the requirements relating to stability.

Note: See Chapter 10 *Dangerous Goods (Explosive Ordnance)* for the requirements relating to lifting appliances for munitions.

Performance Requirements

- 7.2 Lifting appliances shall be equipped with requisite safety devices.

Note: For this Chapter, lifting and hoisting are synonymous.

- 7.3 The lifting appliance shall remain under control during all modes of operation.
- 7.4 Identification of the Working Load Limit (WLL) or SWL and the maximum test load shall be displayed on or adjacent to the equipment.
- 7.5 The lifting appliance shall be located such that the load can be viewed directly by the operator.
- 7.6 The lifting appliance shall not be controlled from more than one operating position at the same time.
- 7.7 Where a lifting appliance is used for lifting or suspending persons, additional safety factors shall be applied.
- 7.8 In the event of motive power failure of the lifting appliance:
- 7.8.1 the load shall remain in position
- 7.8.2 means shall be provided to safely move the load to a predetermined location.
- 7.9 For Small Craft with the Special Function of Landing Craft fitted with an actuated ramp, the Small Craft shall provide an alternative means of ramp recovery.

Rule 8. Diving Systems

Functional Objective

- 8.1 For Small Craft with the Special Function of Diving Operations, the Small Craft shall safely support those operations.

Performance Requirements

- 8.2 Diving systems shall be in accordance with the Division 3 *Ship Rules* Chapter 05 *Seamanship Systems* Rule 14 *Diving Operations*.

Rule 9. Access to the Open Deck and Working on the Open Deck**Functional Objective**

- 9.1 The accessibility to and working environment of the open deck shall enable the Embarked Persons to safely fulfil their tasks.

Performance Requirements

- 9.2 Stairs, ladders, doors, and hatches shall be provided to enable access to the open deck and facilitate the activities required by the OSI.

*Note: See Chapter 03 **Buoyancy and Stability** Rule 2 **Watertight Integrity** for the requirements relating to watertight and weathertight boundaries.*

- 9.3 Access equipment and systems to the open deck shall be designed, constructed, and maintained to eliminate or minimise SFARP, the risk to embarked persons in all Foreseeable Operating Conditions.

- 9.4 Hatches and doors shall be operable from both sides for accessible compartments.

- 9.5 Means shall be provided to ensure that access hatches and doors can be opened and closed manually.

- 9.6 Lighting shall be provided at access points and working areas of the open deck.

*Note: See Chapter 04 **Engineering** Rule 6 **Lighting** for the requirements relating to primary and emergency lighting.*

- 9.7 The open deck shall provide space for embarked persons to undertake functions associated with the role defined in the OSI.

- 9.8 The Small Craft shall be provided with means to prevent embarked persons on the open deck from being lost overboard without impeding their ability to carry out the functions associated with the role defined in the OSI.

*Note: See Chapter 11 **Protection of Embarked Persons** Rule 4 **Safe Movement of Embarked Persons** for the requirements relating to protection from falls.*
