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AUSTRALIAN NAVAL CLASSIFICATION RULES

DIVISION 4: SMALL CRAFT RULES

CHAPTER 09: NAVIGATION AND CONTROLLABILITY

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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ANC RULES (DSwP PUB 201)

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Australian Naval Classification Authority

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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⁵ <https://www.defence.gov.au/business-industry/industry-governance/australian-naval-classification-authority/australian-naval-classification-rules>

AMENDMENTS

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

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Mail to: anca.communications@defence.gov.au

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Division 4: Small Craft Rules

Part 1: ANC Rules

Chapter 09: Navigation and Controllability

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

- 0.1 The Small Craft shall be designed, constructed, operated and maintained to be safely navigated in all Foreseeable Operating Conditions:
- 0.1.1 using navigation equipment and information appropriate for the operational area
- 0.1.2 from a Conning Position which facilitates effective situational awareness and a proper lookout
- 0.1.3 in order to ensure controllability of speed and heading.

Rule 1. General**Functional Objective**

- 1.1 The purpose of this Rule is to outline the principles and framework of Chapter 09 *Navigation and Controllability* 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 09 *Navigation and Controllability* goal, the requirements of both this chapter and Chapter 01 *General Requirements* shall be met.
- 1.3 This chapter describes the navigation arrangements, equipment and information required to ensure the Small Craft can be safely navigated and controlled.
- 1.4 The ANC Rules exclude training requirements. Chapter 09 *Navigation and Controllability* 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 OSI.

General Performance Requirements

- 1.6 The Small Craft shall be designed, constructed, operated and maintained to provide safe and reliable navigation in all Foreseeable Operating Conditions, to ensure the safety of embarked persons and effective management of the mission.

Note: See Division 2 Chapter 01 *General Requirements* Rule 11 *Documentation* for additional requirements relating to operating instructions.

Rule 2. Navigation Safety - Geospatial, Temporal and Environmental Awareness**Functional Objective**

- 2.1 The Small Craft shall be provided with sensors and systems for safe navigation in the

operational areas defined in the OSI.

Note: See Chapter 01 General Requirements Rule 04 Survivability for the requirements of Special Function of Mission Ready State relating to low signatures.

Performance Requirements

- 2.2 Navigation sensors and systems shall be provided, according to the service category and operational area, to:
 - 2.2.1 ensure continuous monitoring of position, velocity and time
 - 2.2.2 generate a precise time reference continuously for intended voyage
 - 2.2.3 determine and input heading information
 - 2.2.4 correct heading and bearings to True at all times
 - 2.2.5 determine and input speed and distance travelled in the water
 - 2.2.6 determine and input depth of water
 - 2.2.7 establish and update the Small Craft's position
 - 2.2.8 detect and display maritime objects and navigational hazards in all visibility conditions
 - 2.2.9 broadcast specified navigation information to enable vessel identification and assist collision avoidance
 - 2.2.10 measure, display, record and analyse, in real time, the Small Craft's behaviour.
- 2.3 Where navigation sensors and systems are provided onboard the Small Craft, they shall be:
 - 2.3.1 continuously and readily available whilst at sea
 - 2.3.2 located so as to prevent their inadvertent use or damage.
- 2.4 The Small Craft shall be provided with up-to-date navigational information to enable it to be navigated safely and independently within its defined operational areas.
- 2.5 The Small Craft shall be provided with visual and audible means of communicating its orientation, intentions and limitations appropriate for its size.
- 2.6 Local meteorological conditions shall be observable by the operators to assist in navigation situational awareness.
- 2.7 A means shall be provided to enable the Small Craft to be detected by radar.

Rule 3. Controllability

Functional Objective

- 3.1 The Small Craft shall maintain controllability of its speed and heading in all Foreseeable Operating Conditions.

Note: See Chapter 03 Buoyancy and Stability for stability and seakeeping requirements of Small Craft manoeuvring.

Note: See Chapter 04 Engineering Systems Rule 2 Propulsion and Manoeuvring for the requirements

relating to the propulsion machinery and manoeuvring equipment.

Performance Requirements

- 3.2 The Small Craft controls shall provide for effective manoeuvring in all Foreseeable Operating Conditions, including:
- 3.2.1 a system for changing speed and direction
 - 3.2.2 crash stop and turning abilities to avoid collision and to facilitate recovery of persons overboard.
- 3.3 Response of the Small Craft to helm controls shall be understandable and communicated to the operator.
- 3.4 Dynamic control systems shall:
- 3.4.1 remain effective for all Foreseeable Operating Conditions
 - 3.4.2 not endanger the Small Craft or embarked persons in the event of its failure.

Note: See Chapter 04 Engineering Systems Rule 5 Control and Alerts for the requirements relating to the control systems operating machinery and systems.

Rule 4. Navigation Arrangements

Functional Objective

- 4.1 The Small Craft shall be provided with means to control propulsion and manoeuvring, navigation and other systems from a safe and secure Conning Position with sufficient visibility for the conduct of safe navigation and operations.

Note: See Division 2 Chapter 01 General Requirements Rule 08 Human Factors Engineering and Rule 10 Control Stations for requirements relating to the Conning Position.

Performance Requirements

- 4.2 The Conning Position shall be designed, arranged and equipped to enable operators to:
- 4.2.1 maintain a proper lookout by sight and hearing at all times
 - 4.2.2 safely observe the Small Craft's path and any onboard or offboard operations for which control of the craft is required
 - 4.2.3 access, understand and act upon essential navigational and operational information continuously and effectively
 - 4.2.4 have unobstructed access to and around it.

Note: See Chapter 03 Buoyancy and Stability Rule 05 Operator Guidance for requirements relating to key information to be displayed.
