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AUSTRALIAN NAVAL CLASSIFICATION RULES

DIVISION 4: SMALL CRAFT RULES

CHAPTER 08: COMMUNICATIONS

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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Developer:

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:

Australian Naval Classification Authority

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

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Division 4: Small Craft Rules

Part 1: ANC Rules

Chapter 08: Communications

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

- 0.1 The Small Craft shall be provided with communication equipment appropriate for the operational area, to enable it to communicate safely in all Foreseeable Operating Conditions.

Rule 1. General**Functional Objective**

- 1.1 The purpose of this Rule is to outline the principles and framework of Chapter 08 *Communications* 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 08 *Communications* goal, the requirements of both this chapter and Chapter 01 *General Requirements* shall be met.
- 1.3 This chapter covers the requirements for internal and external communication systems to enable Small Craft to communicate in all required operational areas.
- 1.4 The ANC Rules exclude training requirements. Chapter 08 *Communications* 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 Small Craft's OSI.

General Performance Requirements

- 1.6 Small Craft communications shall be continuously and readily available whilst in-service.
- 1.7 Operators shall be provided with access, information and instructions for the safe operation, inspection, repair and maintenance of the communication equipment.

Rule 2. Communications Availability**Functional Objective**

- 2.1 The Small Craft shall provide continuous internal and external communication capability, with availability maintained under all Foreseeable Operating Conditions.

Performance Requirements

- 2.2 The Small Craft shall be capable of communicating continuously internally and externally in the operational area and for the roles described 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.

Rule 3. Radio Sources of Energy**Functional Objective**

- 3.1 Communications shall be sustained through resilient energy provision to ensure their availability and continuity under all Foreseeable Operating Conditions.

Performance Requirements

- 3.2 Small Craft fitted with communication systems shall be supported by energy sources that are independent of the primary onboard electrical supply, such that loss of the primary supply does not prevent operation of required communication functions.
- 3.3 Independent energy sources supporting communication shall be maintained and managed to maximise availability, ensuring they are capable of immediate use when required.
- 3.4 Communications operating on the reserve source of power shall continue to operate for the duration of time it takes the Small Craft to return to safe haven.
- 3.5 Communications shall not be interrupted in emergency conditions.
- 3.6 Other systems which provide interface data to the communications system in order for it to perform its function correctly, shall also be powered for continuous availability.

Rule 4. External Communications**Functional Objective**

- 4.1 The Small Craft shall be able to communicate with external entities for operational and emergency purposes in all Foreseeable Operating Conditions.

Performance Requirements

- 4.2 Means shall be provided to enable the exchange of information between the Small Craft and external entities consistent with the operational area.
- 4.3 Means shall be provided to enable the receipt of navigational and meteorological warnings and urgent safety information onboard the Small Craft consistent with the operational area.
- 4.4 Means shall be provided to enable the exchange of distress alerting between the Small Craft and external entities consistent with the operational area.
- 4.5 Portable communications equipment shall be provided for survival craft.
- 4.6 Independent and self-contained means of transmitting emergency locating signals shall be provided onboard in a float-free or readily available external position according to service category and operational area.
- 4.7 Where required by the OSI, means shall be provided to detect and alert when embarked persons fall overboard.

Note: See also Chapter 09 Navigation and Controllability Rule 2 Navigation Safety – Geospatial, Temporal and Environmental Awareness for requirements relating to broadcast of specified navigation information to enable vessel identification.

Rule 5. Internal Communications**Functional Objective**

- 5.1 The internal communications systems shall enable reliable and effective one-way broadcast and two-way verbal communication between embarked persons for operational coordination, emergency response and alerting, and public addressing.

Performance Requirements

- 5.2 Internal communications shall be provided to:
- 5.2.1 enable safe operation of the Small Craft
 - 5.2.2 alert embarked persons of emergency or hazardous situations
 - 5.2.3 facilitate emergency response and recovery.

Note: See Chapter 07 Escape, Evacuation and Rescue, Rule 5 Alarm and Emergency Communications Systems for additional requirements relating to emergency internal communications.

Rule 6. Installation**Functional Objective**

- 6.1 The location and installation of communications systems shall enable its safe and effective operation.

Performance Requirements

- 6.2 Communication system installations shall:
- 6.2.1 be located for compatibility with, and to avoid harmful interactions with other onboard equipment and systems
 - 6.2.2 be located to ensure the greatest possible degree of safety and operational availability
 - 6.2.3 be located to prevent inadvertent use or damage.
- 6.3 The communications system shall be protected against harmful environmental effects.
- 6.4 The user interface of communications systems shall be audible and functional in all Foreseeable Operating Conditions for the respective installation location.
- 6.5 Communications systems shall be integrated so that they are readily accessible for inspection and maintenance purposes.