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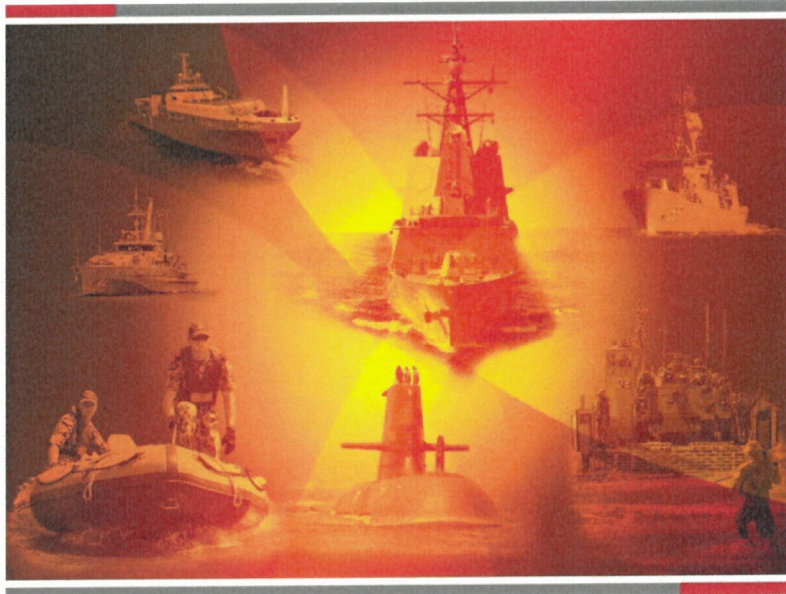
Defence

AUSTRALIAN NAVAL CLASSIFICATION RULES

DIVISION 4: SMALL CRAFT RULES

CHAPTER 10: DANGEROUS GOODS (EXPLOSIVE ORDNANCE)

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)

Division 4: Small Craft Rules, Chapter 10: Dangerous Goods (Explosive Ordnance), Part 1: ANC Rules, May 2024 Edition

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

First issued	May 2024
Reissue date	N/A
Issued by	CN Dagg, CSC, AS ANCA
Document management	This volume will be reviewed periodically from the date of issue, but sooner if necessitated by business requirements, and to ensure it continues to meet the intent of Defence policy.
Availability	The latest version of this volume is only available from the Defence Australia website. Its currency cannot be guaranteed if sourced from other locations. It is available for public release.
Policy domain	Defence Seaworthiness
Accountable Officer	Australian Naval Classification Authority
Publication Owner	Defence Seaworthiness Authority (DSwA)
Policy contact	anca.communications@defence.gov.au
Structure	see Contents ⁵
Cancellation	N/A
Definitions	Definitions that apply to this volume are located in the Division 1, Part 1 Annex A.

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

EDITIONS

Edition	Version	Amendment type	Effective
May 2024	1.0	First issued	September 2026

Division 4: Small Craft
Part 1: ANC Rules

**Chapter 10: Dangerous Goods (Explosive
Ordnance)**

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

- 0.1 The Small Craft shall be designed, constructed, operated, and maintained to enable the safe carriage and use of Explosive Ordnance (EO) onboard whilst minimising SFARP, the risk to embarked persons, the Small Craft and the environment.

Note: This chapter has rules primarily for the carriage and use of Class 1 articles and substances. Class 1 Dangerous Goods is referred to as EO.

Note: Carriage and use of Class 2-9 articles and substances should be in accordance with the IMDG Code.

Rule 1. General**Functional Objective**

- 1.1 The purpose of this rule is to outline the principles and framework of Chapter 10 *Dangerous Goods (Explosive Ordnance)* 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 10 *Dangerous Goods (Explosive Ordnance)* goal, the requirements of both this chapter and Chapter 01 *General Requirements* shall be met.
- 1.3 This chapter covers the arrangements necessary to achieve a minimum level of safety of EO during stowage and handling.
- 1.4 The ANC Rules exclude training requirements. Chapter 10 *Dangerous Goods (Explosive Ordnance)* assumes all embarked persons have an appropriate level of competence for the operation of the installed systems.
- 1.5 This chapter supplements Chapter 04 *Engineering Systems* by providing additional requirements applicable to Class 1 Dangerous Goods (Explosives).
- 1.6 This chapter supplements Chapter 06 *Fire Safety* by providing additional requirements applicable to Class 1 Dangerous Goods (Explosives).
- 1.7 The requirements of this chapter apply directly to all spaces and systems in which EO is stowed and handled, and to those adjacent spaces containing items that might produce a risk of an EO incident.
- 1.8 Chapter 10 *Dangerous Goods (Explosive Ordnance)* does not apply to Dangerous Goods (Class 1-9) which are a permanent component of a Small Craft's system except for Class 1 items stored within their launching mechanisms.

Application

- 1.9 The applicability of each rule of this Chapter shall be determined from the Naval Vessel's Operating and Support Intent (OSI).
- 1.10 This Chapter shall apply from the point at which EO directly makes contact with or places at risk the receiving Small Craft (e.g., on the deck or attached to Small Craft's lifting equipment) to the point at which they no longer put the Small Craft at risk (e.g., after consumption or transfer to another Naval Vessel or shore).

- 1.11 This Chapter applies to the carriage and use of EO during Foreseeable Operating Conditions. For extreme threat conditions, the NVO shall define the requirements in the OSI and set the performance requirements for the safety of EO.

General Performance Requirements

- 1.12 The Small Craft's Safety Management System (SMS) shall include a section specific to EO.
- 1.13 The SMS EO section scope as a minimum shall address all the elements of this chapter and shall be independently assured.
- 1.14 Design standards, acceptance criteria and verification of effective Small Craft arrangements throughout the Small Craft's life shall be derived from the SMS.
- 1.15 Small Craft arrangements supporting the safe carriage and use of EO shall be clearly identified, operated and maintained commensurate with the importance of the risk they manage.
- 1.16 EO shall not be embarked without appropriate documentation that identifies the EO's inherent safety and associated safety parameters.

Rule 2. Layout and Services**Functional Objective**

- 2.1 Small Craft arrangements for the location within the Small Craft, layout of spaces and the provision of supporting services shall maintain the inherent safety of the EO and manage incidents.

Performance Requirements

- 2.2 Equipment and systems for EO stowage, maintenance, embarkation and disembarkation, and emergency procedures shall meet the embarked EO safety requirements.
- 2.3 Spaces adjacent to EO stowages and Small Craft equipment, for both normal and fault conditions, shall be designed to manage the hazards they present to the EO.
- 2.4 Small Craft arrangements for temporary holding areas shall ensure safety of EO and protection from EO hazards.
- 2.5 Small Craft arrangements shall be designed to prevent reactions occurring between EO.
- 2.6 Systems or equipment passing through or located within spaces where EO is stored or used shall not introduce hazards to the EO nor be exposed to hazards arising from the EO, during normal or fault conditions.
- 2.7 EO stowage areas shall enable the containment and detection of hazards arising from the release of hazardous liquids, gases or vapours from EO or other items.
- 2.8 Small Craft arrangements shall maintain essential escape, evacuation and rescue capabilities at or above their defined performance requirements following a credible EO incident.
- 2.9 Incident control systems such as pressure relief systems and containment control shall not endanger the crew or third parties when operated.
- 2.10 EO stowage areas shall provide emergency escape and evacuation arrangements for Embarked Persons. The scope of such arrangements shall be commensurate with the size of the Small Craft and the type of hazard presented by the EO.

- 2.11 The Small Craft arrangements shall control the environment as required for the EO embarked and the armament systems.

Note: The Generic Maritime Environment (GME) defines the internal and external environmental conditions to be considered to integrate the EO and Armament Systems into the Small Craft.

Rule 3. Structural Protection

Functional Objective

- 3.1 Small Craft arrangements shall ensure structural integrity is maintained in all Foreseeable Operating Conditions for any EO Incident.

Performance Requirements

- 3.2 Structure shall be designed, constructed and maintained to protect the Small Craft from incidents occurring with EO.

Note: For foreseeable damage conditions structural requirements relating to fire incidents see Chapter 06 *Fire Safety* Rule 1 *General* and structural requirements relating to damage see Chapter 02 *Structure* Rule 3 *Structural Design and Construction*.

- 3.3 Small Craft structure shall withstand or be protected from loads (e.g., blast, heat, and shock) arising from the use of EO.
- 3.4 The Small Craft structure shall support systems for the safe storage and protection of EO.
- 3.5 Structures supporting equipment and systems used to store, handle and operate EO shall maintain structural integrity under all Foreseeable Operating Conditions such that EO, according to hazard classification, remains safely supported, protected, and free from unintended damage or release.
- 3.6 Temporary or portable Small Craft structure, or fittings associated with the carriage and use of EO shall be designed, built, assembled and tested commensurate with the risk associated with the EO.
- 3.7 Structural fixing items within EO stowages shall remain fixed in all Foreseeable Operating Conditions and extreme conditions.

Rule 4. Fire Protection

Functional Objective

- 4.1 Small Craft arrangements shall eliminate, or minimise SFARP, the risk of fire incidents initiated by EO or that threatens EO.

Note: This rule applies whenever and wherever EO is present and are additional to the requirements of Chapter 06 *Fire Safety*.

Performance Requirements

- 4.2 Small Craft EO fire protection arrangements shall be designed to prevent, detect, contain, control and extinguish fires, consistent with the NVO's recoverability doctrine or damage control philosophy.
- 4.3 The fire protection system shall contain a fire involving EO, and associated hazards under all credible fire scenarios.
- 4.4 Fire protection systems for EO stores shall not be compromised by failure or maintenance of

the Small Craft's equipment and systems that support the fire protection system.

- 4.5 Ventilation arrangements shall support the effectiveness of the fire protection system and provide protection of EO.
- 4.6 The Small Craft shall be capable of continuous remote monitoring of the fire protection system in EO stowages and adjacent compartments.
- 4.7 Arrangements for EO stowage areas shall limit transfer of heat from fires, machinery systems or other equipment or systems outside of the stowage areas to within safe levels.
- 4.8 Small Craft fire protection arrangements shall provide rapid and direct distribution of fire extinguishing or cooling media to EO stowages and adjacent compartments.
- 4.9 Small Craft arrangements shall prevent loss of EO stowage fire-fighting system controls.
- 4.10 Positions where EO are temporarily stowed, prepared or maintained shall be provided with fire protection systems.
- 4.11 Small Craft arrangements shall facilitate the testing of fire systems to ensure their availability and reliability is maintained whilst the EO are present.

Rule 5. Electrical Fittings

Functional Objective

- 5.1 Small Craft arrangements shall protect EO from electrical conditions that could lead to an incident.

Performance Requirements

- 5.2 Electrical items shall be approved and certified intrinsically safe for operation in EO stowages and Designated Danger Areas or in the vicinity of EO or their associated safety systems.
- 5.3 The design of electrical items under normal, overload and fault conditions shall maintain the safety arrangements associated with the protection of EO.
- 5.4 Small Craft arrangements shall maintain the electromagnetic conditions within safe limits wherever and whenever EO are present.

Note: Authorised electrical items are recognised by the ANCA or its Competent Organisations to be safe for operation through meeting or exceeding applicable standards associated with the EO embarked.

Rule 6. Stowage and Handling

Functional Objective

- 6.1 Small Craft arrangements shall provide safe and secure stowage, handling, movement, relocation and transfer of EO.

Performance Requirements

- 6.2 Small Craft arrangements shall have secure restraint systems that maintain the integrity and safety of the EO.
- 6.3 All other items stored within EO stowage areas shall be assessed for compatibility with the EO and restrained such that they do not endanger the EO.
- 6.4 Where bulk or versatile stowage of EO is used, Small Craft arrangements shall provide

segregation, restraint and partitioning.

- 6.5 EO stores on exposed decks shall be provided with protection from environmental conditions and Small Craft operations.
- 6.6 EO stowage layouts shall maintain the minimum clearances required for the operation of installed fire protection and damage control systems.
- 6.7 Areas designated for boundary cooling shall not be obstructed.
- 6.8 The temperature of surfaces in the vicinity of EO shall be maintained at safe levels under all Foreseeable Operating Conditions.
- 6.9 EO shall be monitored for and protected from exposure to water from flooding.
- 6.10 Where embarked vehicles have EO stored for transfer, Small Craft stowage and handling arrangements shall support the embarkation, carriage, and transfer of EO, with the vehicle and EO managed as a temporary EO stowage.
- 6.11 EO transfer systems shall integrate with the Small Craft to ensure safety under all Foreseeable Operating Conditions.
- 6.12 Restraint systems and layout shall allow access to and removal of EO without detriment to the safety of other EO.
- 6.13 The Small Craft EO transfer route arrangements shall enable safe EO movement, relocation, and transfer operations to be conducted without unnecessary staging, holding, or handling activities.
- 6.14 Lifting and handling equipment required for EO transfer shall be assured for EO use.

Note: See also Chapter 05 *Seamanship Systems* Rule 7 *Lifting and Hoisting* for additional requirements relating to lifting appliances.

Rule 7. Not Used

Rule 8. Not Used

Rule 9. Not Used

Rule 10. Not Used