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AUSTRALIAN NAVAL CLASSIFICATION RULES

DIVISION 4: SMALL CRAFT RULES

CHAPTER 07: ESCAPE, EVACUATION AND RESCUE

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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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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Division 4: Small Craft Rules

Part 1: ANC Rules

Chapter 07: Escape, Evacuation and Rescue

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

- 0.1 The arrangements for the escape, evacuation and rescue of embarked persons shall be designed, constructed and maintained to:
 - 0.1.1 provide effective escape for all embarked persons from all manned spaces to a place of safety in the event of foreseeable accidents and emergencies at least until the threat has receded
 - 0.1.2 provide an effective means of evacuation from the Small Craft
 - 0.1.3 provide an effective means of recovering persons from the sea.
- 0.2 Escape, evacuation and rescue arrangements shall be such that the survival time, accounting for the foreseeable environmental conditions, is greater than the planned time to rescue specified in the OSI.

Rule 1. General**Functional Objective**

- 1.1 The purpose of this Rule is to outline the principles and framework of Chapter 07 *Escape, Evacuation and Rescue* 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 07 *Escape, Evacuation and Rescue* goal, the requirements of both this chapter and Chapter 01 *General Requirements* shall be met.
- 1.3 This chapter covers the arrangements necessary to provide safe escape, evacuation and rescue.
- 1.4 The ANC Rules exclude training requirements. Chapter 07 *Escape, Evacuation and Rescue* 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 Escape, Evacuation and Rescue Measures shall:
 - 1.6.1 be robust and have maximised protection from damage under Foreseeable Operating Conditions, which may include, where required in the OSI, hostile damage
 - 1.6.2 not have a detrimental impact on other Escape, Evacuation and Rescue Measures onboard
 - 1.6.3 be compatible with clothing or protective equipment worn by embarked persons

- 1.6.4 take into account the number and distribution of embarked persons, their physical characteristics, their knowledge of the Small Craft and its safety equipment
- 1.6.5 reflect foreseeable emergencies resulting in escape, evacuation and rescue activities.

Note: As a minimum would include list, trim, flooding, capsize, fire, smoke, hazardous vapours and obstruction of fixtures and fittings such as doors.

Rule 2. Inspection and Maintenance

Functional Objective

- 2.1 Inspection and maintenance procedures shall ensure that any escape, evacuation and rescue arrangement or equipment is always available when the Small Craft is in-service.

Performance Requirements

- 2.2 **Escape, Evacuation and Rescue Measures shall be inspected, maintained and repaired in accordance with the maintenance philosophy and schedule requirements defined in the OSI.**
- 2.3 Maintenance and inspection activities shall be undertaken:
 - 2.3.1 by suitably qualified and experienced personnel
 - 2.3.2 in accordance with approved procedures
 - 2.3.3 with supporting records.

Rule 3. Provision of Emergency and Operational Information

Functional Objective

- 3.1 Emergency procedures and operational information shall enable assigned crew members to perform their assigned escape, evacuation and rescue tasks effectively.

Note: See Division 2 Chapter 01 *General Requirements* Rule 11 *Documentation* for related requirements.

Performance Requirements

- 3.2 Emergency escape, evacuation and rescue procedures shall:
 - 3.2.1 cover all duties in the escape, evacuation and rescue process
 - 3.2.2 incorporate redundancy based on the operational area defined in the OSI.
- 3.3 Routine Escape, Evacuation and Rescue Procedures shall:
 - 3.3.1 ensure that Escape, Evacuation and Rescue Measures are available onboard for the forthcoming operation, considering:
 - 3.3.1.1 the embarked persons
 - 3.3.1.2 the areas of operation
 - 3.3.1.3 the planned time to rescue, as defined in the OSI, accounting for the foreseeable environmental conditions.
 - 3.3.2 ensure that crew are aware of their responsibilities and trained to discharge their duties

- 3.3.3 ensure that embarked persons have received basic escape, evacuation and rescue instruction
- 3.3.4 ensure that, prior to proceeding to sea, all embarked persons are accounted for.
- 3.4 For Small Craft other than Open Boats, onboard documentation shall provide information for the conduct of effective escape, evacuation and rescue activities and shall:
 - 3.4.1 cover information necessary for embarked persons to conduct escape, evacuation and rescue activities
 - 3.4.2 be readily found and shall be available at locations where they might be needed.

Rule 4. Escape, Evacuation and Rescue Equipment Stowage

Functional Objective

- 4.1 Escape, Evacuation and Rescue Equipment Stowage shall protect any onboard escape, evacuation and rescue equipment, and ensure any onboard escape, evacuation and rescue equipment is readily available.

Performance Requirements

- 4.2 If applicable, the Escape, Evacuation and Rescue Equipment Stowage shall protect the stowed equipment from:
 - 4.2.1 external environmental factors such as green water, vessel motions, sea state, icing or wind, and attitude of the vessel including inversion
 - 4.2.2 heat, fire, smoke or hazardous gases.
- 4.3 Equipment stowages shall:
 - 4.3.1 enable stored equipment to be accessible and readily deployed
 - 4.3.2 be robust and have maximised protection from damage
 - 4.3.3 be readily identified
 - 4.3.4 allow inspection of the stored equipment
 - 4.3.5 not have a detrimental effect on the stored equipment
 - 4.3.6 not have a detrimental impact on the ready deployment of any other stored equipment in case of an emergency
 - 4.3.7 be free from undue hazards, such as protrusions or obstructions which could cause injury, or ensnare clothing, life-jackets or personal thermal protection suits
 - 4.3.8 withstand vessel's seakeeping motions.
- 4.4 Stowages of inflatable survival craft and externally stored personal thermal protection suits or lifejackets, shall enable the equipment to float free or be released manually.

Rule 5. Alarm and Emergency Communications Systems**Functional Objective**

- 5.1 Alarm and emergency communications systems shall enable the notification of all embarked persons in a timely manner that a hazardous situation exists.

Note: See Chapter 08 *Communications* Rule 1 *General*, Rule 2 *Communications Availability*, Rule 4 *External Communications*, and Rule 5 *Internal Communications* for the requirements related to onboard two-way communications.

Performance Requirements

- 5.2 The general emergency alarm system and emergency communications shall:

- 5.2.1 be clearly noticeable by all embarked persons

Note: See Division 02 Chapter 01 *General Requirements* Rule 7 *Hazardous Areas* for the requirements related to noise limits.

- 5.2.2 be easily distinguishable and recognisable
- 5.2.3 be continuously available
- 5.2.4 be protected from hazards such as fire, vibration, electrical interference, flooding
- 5.2.5 be provided such that any incident which may cause alarm failure shall be guarded against by system or equipment redundancy
- 5.2.6 be operable from Strategic Escape, Evacuation and Rescue Positions.

Rule 6. Lighting During Escape, Evacuation and Rescue Emergencies**Functional Objective**

- 6.1 Escape, Evacuation and Rescue Lighting shall provide illumination to conduct any escape, evacuation and rescue activity.

Note: See Chapter 04 *Engineering Systems* Rule 6 *Lighting* for the requirements relating to lighting during escape, evacuation and rescue emergencies.

Performance Requirements

- 6.2 Escape, Evacuation and Rescue Lighting shall:
- 6.2.1 provide illumination to any location essential for any escape, evacuation and rescue activity
- 6.2.2 operate for a period not less than as necessary to complete all escape, evacuation and rescue activities
- 6.2.3 be provided such that any primary power loss to lighting will be guarded against by system or equipment redundancy
- 6.2.4 be resilient to damage
- 6.2.5 be readily identifiable as Emergency Lighting.

Rule 7. Escape Routes and Escape Exits**Functional Objective**

- 7.1 Escape routes and escape exits shall enable the movement of embarked persons within the Small Craft to the evacuation stations as quickly and as safely as reasonably practicable.

Performance Requirements

- 7.2 If applicable, escape routes and escape exits shall:
- 7.2.1 be provided from any location within the Small Craft and shall lead to the evacuation stations
 - 7.2.2 be as direct as reasonably practicable
 - 7.2.3 be as flexible as reasonably practicable to provide for the possibility that certain escape routes may not be available as a result of fire, flooding or other damage
 - 7.2.4 remain functional as long as reasonably practicable during fire, flooding, list and trim
 - 7.2.5 be arranged such that they do not contribute to the spread of fire, flood, smoke or other toxic gases to any muster, evacuation or launching station.
- 7.3 Escape routes and escape exits, including associated fittings and fixtures, shall allow for safe and easy movement of embarked persons, taking into account:
- 7.3.1 the anticipated number, physical characteristics and distribution of embarked persons
 - 7.3.2 the size, location, function and risks of individual compartments onboard
 - 7.3.3 the clothing and personal protective equipment that may be worn or carried
 - 7.3.4 the possibility that some injured embarked persons may be transported by stretchers (if defined in the OSI).
- 7.4 Escape and evacuation routes shall provide a place of assembly to accommodate all embarked persons, while wearing lifejackets and personal thermal protection suits.
- 7.5 Escape routes, escape exits, and any muster or evacuation stations, shall be marked and readily identifiable by embarked persons.

Rule 8. Survival Craft**Functional Objective**

- 8.1 Where applicable, survival craft shall provide a place of relative safety away from the damaged Small Craft following evacuation.

Performance Requirements

- 8.2 Survival craft shall:
- 8.2.1 be provided taking into account the number of embarked persons
 - 8.2.2 have means to manoeuvre away from the damaged Small Craft
 - 8.2.3 protect embarked persons against the natural environment

- 8.2.4 provide provisions and habitability during the planned time to rescue
- 8.2.5 be designed for minimum motion sickness
- 8.2.6 allow the survival craft to be readily located under different environmental conditions (e.g. weather, sea state and darkness)
- 8.2.7 be easily boarded from the water.
- 8.3 For Small Craft with the Special Function of Mission Ready State, where carriage of life raft 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.

Rule 9. Lifejackets

Functional Objective

- 9.1 Lifejackets shall provide effective flotation assistance for persons overboard.

Performance Requirements

- 9.2 Lifejackets shall:
 - 9.2.1 turn unconscious drowning persons face-up thereby lifting the mouth above the water
 - 9.2.2 be provided to accommodate the full range of physical characteristics of embarked persons
 - 9.2.3 be provided for the maximum number of embarked persons
 - 9.2.4 be compatible with the personal thermal protection suits or other PPE that is to be worn by embarked persons whilst onboard
 - 9.2.5 allow a person overboard to be readily located under different environmental conditions (e.g., weather, sea state and at all times of day or night)
 - 9.2.6 allow a person to escape from an inverted Small Craft
 - 9.2.7 not impede entry into the survival craft or interfere with occupant safety or operation of the survival craft
 - 9.2.8 protect the face and airways from waves and sea-spray.
 - 9.2.9 consider additional requirements for persons carrying or wearing heavy equipment.

Rule 10. Personal Thermal Protection Suits

Functional Objective

- 10.1 Personal thermal protection suits shall help prevent the effect of severe environmental conditions.

Note: See Rule 8 Survival Craft for the requirements related to thermal protection located in survival craft.

Performance Requirements

- 10.2 Personal thermal protection suits shall:

- 10.2.1 be designed to provide protection from the effect of severe environmental conditions
- 10.2.2 maintain protection for the planned time to rescue
- 10.2.3 be provided to accommodate the full range of physical characteristics of embarked persons
- 10.2.4 be unpacked and donned easily, swiftly and without assistance
- 10.2.5 not hinder the person wearing it to conduct evacuation and rescue activities
- 10.2.6 not hinder the person wearing it to don a lifejacket, if not combined in the thermal protection suit
- 10.2.7 not hinder the person wearing it to swim a short distance through the water and board a survival craft
- 10.2.8 be provided relating to the number of embarked persons.

Rule 11. Rescue Arrangements

Functional Objective

- 11.1 Rescue arrangements shall enable persons to be safely rescued from the sea.

Performance Requirements

- 11.2 Rescue arrangements shall:
 - 11.2.1 permit effective and rapid rescue of persons overboard
 - 11.2.2 eliminate, or minimise SFARP, the risk to the rescue crew and casualty.
- 11.3 For Small Craft where capsize in-service is a foreseeable event, which are not self-righting, a means for recovering embarked persons from the capsized Small Craft shall be provided.