

**NORTHERN TERRITORY OF AUSTRALIA**

**MARINE (AIR-CUSHIONED VEHICLES) REGULATIONS**

As in force at 2 April 2001

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# NORTHERN TERRITORY OF AUSTRALIA

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As in force at 2 April 2001

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## MARINE (AIR-CUSHIONED VEHICLES) REGULATIONS

### Regulations under the *Marine Act*

#### Part 1 Preliminary

##### 1 Citation

These Regulations may be cited as the *Marine (Air-Cushioned Vehicles) Regulations*.

##### 2 Commencement

These Regulations shall come into operation on 1 November 1994.

##### 3 Definitions

In these Regulations, unless the contrary intention appears:

***approved*** means approved by the Director.

***construct*** includes alter.

***designer*** means the person or organisation responsible for the accuracy of data and drawings and specifications submitted for the approval of an air-cushioned vehicle.

***item*** means an item of the Schedule.

***manufacturer*** means the person or organisation responsible for the standards and procedures adopted during construction or alteration of an air-cushioned vehicle.

***Volume 1*** means the publication entitled "Standard Relating to Design, Construction and Operational Safety of Dynamically Supported Craft in Canada. Vol. 1. Air-Cushion Vehicles", December 1985, Revision 1.

**4 Application of Parts III And IV of Act**

- (1) Parts III and IV of the Act apply to and in relation to the class of air-cushioned vehicles to which these Regulations apply.
- (2) These Regulations apply to all air-cushioned vehicles operated in the Territory.

**5 Exemptions**

The Minister may, by notice in writing, exempt an air-cushioned vehicle from a requirement of these Regulations:

- (a) where the action to be taken or the provision to be made as regards the subject matter of the requirement is at least as effective as is actual compliance with the requirement; or
- (b) where the specified requirement would cause undue hardship but where there will be substantial compliance with the general requirement to the extent that the prime considerations of safety of persons on board or any other person would not be impaired.

**Part 2 Survey****6 Application for survey**

- (1) An application for survey shall be made to the Director on the form entitled "Application for Initial Acceptance into Survey".
- (2) An application under subregulation (1) shall be made in a completed form and shall be accompanied by:
  - (a) drawings and specifications which conform to the provisions of item 1; and
  - (b) the operational documentation which conform to the provisions of item 2.

**7 Schedule of inspections**

A person who proposes to construct an air-cushioned vehicle shall:

- (a) submit a proposed schedule of inspection stages during construction when inspections may be made by a surveyor; and
- (b) obtain the approval of the Director for the proposed schedule.

## **Part 3                    Design and construction**

### **8                    Design**

- (1) The design of an air-cushioned vehicle shall be consistent with the intended operating limitations applicable in relation to the vehicle.
- (2) The design specification shall conform to the provisions of item 3.

### **9                    Buoyancy and hydrostatic stability**

- (1) The buoyancy and hydrostatic stability of an air-cushioned vehicle (including the general subdivision and watertight integrity of the vehicle) shall conform to the provisions of item 4.
- (2) The provisions applicable in relation to buoyancy shall be taken together with the provisions relating to design, dynamic stability, structural strength and operational documentation.

### **10                  Dynamic stability**

The dynamic stability of an air-cushioned vehicle shall be considered at the design stage of the vehicle in accordance with item 5.

### **11                  Structural strength**

- (1) The structural strength of an air-cushioned vehicle shall be calculated in accordance with the provisions of item 6 unless an alternative analysis demonstrating equivalent values for the structure of the vehicle is approved.
- (2) Load factors and inertia forces to be used in calculating structural strength shall be those applicable under the relevant standard applied under subregulation (1).

### **12                  Strength of materials**

- (1) The material to be used for the rigid structure of an air-cushioned vehicle shall be of sufficient strength for the purpose for which the member or article in question is to be used.
- (2) Where fibre reinforced plastics or composite materials are proposed to be used in the construction of an air-cushioned vehicle, data submitted with the application for survey shall include the manufacturer's recommendations and test results obtained in accordance with the appropriate Australian Standard that corresponds with subsection 5K of the Uniform Code.

- (3) Material used in the construction of the flexible structure of an air-cushioned vehicle shall conform to the provisions in item 7.

### **13 Engineering requirements for certain equipment**

- (1) The engineering requirements applicable in relation to the main and auxiliary machinery of an air-cushioned vehicle are set out in item 8.
- (2) Fans installed for lift or propulsion in an air-cushioned vehicle shall be designed and tested in accordance with the provision of item 9.
- (3) Propellers of an air-cushioned vehicle shall be installed and tested and manufacturer's data is to be presented in accordance with the provisions of item 10.
- (4) Transmission components of an air-cushioned vehicle shall conform to the provisions in item 11.
- (5) Bilge system of an air-cushioned vehicle shall conform to the provisions in item 12.
- (6) Fuel systems of an air-cushioned vehicle, including fuel tanks, shall conform to the provisions in item 13.
- (7) Electrical installation of an air-cushioned vehicle shall conform to the provisions in item 14.

### **14 Structural fire protection**

- (1) The structural fire protection system of an air-cushioned vehicle shall conform to the provisions in item 15.
- (2) Notwithstanding subregulation (1), where evacuation from the passenger area to an open deck is not provided for, a machinery space fire detection and smothering system shall be installed.

### **15 Passenger and crew accommodation compartment**

- (1) The design of the passenger and crew accommodation compartments of an air-cushioned vehicle shall conform to the provisions in item 16.
- (2) Crew stations and control arrangements of an air-cushioned vehicle shall conform to the provisions in item 17.

**16 Safety equipment**

- (1) An air-cushioned vehicle shall carry or be fitted with:
  - (a) life saving equipment in accordance with the provisions in item 18;
  - (b) fire appliances in accordance with the provisions in item 19;
  - (c) radio equipment in accordance with the provisions in item 20;
  - (d) miscellaneous equipment in accordance with the provisions in item 21;
  - (e) navigation lights in accordance with the provisions in item 22;
  - (f) in the case of an air-cushioned vehicle that is a class 1C, 2C or 3C vessel – an approved Emergency Position Indicating Radio Beacon having an operation frequency of 121.5 MHz and 243 MHz or 406 MHz; and
  - (g) in the case of an air-cushioned vehicle that is a class 1B, 2B or 3B vessel – an approved Emergency Position Indicating Radio Beacon having an operation frequency of 406 MHz.
- (2) For the purposes of subregulation (1)(f) or (g), **approved** means approved by:
  - (a) the Director; or
  - (b) the Australian Maritime Safety Authority established by the *Australian Maritime Safety Authority Act 1990* of the Commonwealth.

**Part 4 Inspection and testing****17 Construction and installation**

The construction of an air-cushioned vehicle shall be in accordance with the provisions in item 23.

**18 Tests and trials**

- (1) Functional tests of an air-cushioned vehicle shall be conducted in accordance with the provisions in item 24.
- (2) Operational trials for the purposes of the approval of an air-cushioned vehicle shall be in accordance with provisions in item 25.

**Part 5                    General****19                    Securing, anchoring and mooring**

The arrangements for the securing, anchoring and mooring of an air-cushioned vehicle shall be in accordance with the provisions in item 21.

**20                    Director to maintain codes**

(1) The Director:

- (a) shall cause a copy of every code or standard referred to in these Regulations to be available for inspection by members of the public at the office of the Director during normal office hours; and
- (b) may cause copies of every code or standard referred to in these Regulations to be available for purchase by members of the public on payment of such charge as the Minister determines.

**21                    Fees**

The fees payable in relation to any matter or thing under the *Marine (Survey) Regulations* are payable in relation to the corresponding matter or thing under these Regulations.

**22                    Offences**

A person shall not operate an air-cushioned vehicle unless the design, construction and operation of the air-cushioned vehicle conforms to the provisions of these Regulations.

Penalty:        20 penalty units.

**23                    Savings and transitional**

- (1) Notwithstanding anything in these Regulations, but subject to subregulation (2), nothing in Part 3 or 4 of these Regulations applies to or in relation to:
  - (a) an air-cushioned vehicle that was operating in the Territory at the commencement of these Regulations or was constructed in the Territory before that commencement; or
  - (b) an air-cushioned vehicle the drawings and specifications relating to which were submitted for approval under a law of a State or Territory of the Commonwealth that corresponds to these Regulations before the commencement of these



Regulations but the construction of which was not completed before that commencement.

- (2) Where the Minister is satisfied that:
- (a) the drawings and specifications relating to the construction of an air-cushioned vehicle were submitted for an approval referred to in subregulation (1)(b) before the commencement of these Regulations but the construction of the air-cushioned vehicle was not completed at that commencement; and
  - (b) compliance with a specified requirement of these Regulations or a standard referred to in these Regulations would cause undue hardship but there will be substantial compliance with the specified requirement to the extent that the prime considerations of safety of persons on the air-cushioned vehicle or any other person will not be impaired,

the Minister may exempt the air-cushioned vehicle from any of the requirements of these Regulations or any standard referred to in these Regulations.

## Schedule

regulation 3

1. Drawings and Specifications: Volume 1, Chapter 2 – Design General. (See Application for Initial Acceptance.) A suitable Design Data Sheet is given in Volume 1, Division 6, Appendix 1.
2. Operational documentation: Volume 1, Division 5.
3. Design specification: Volume 1, Chapter 2, Design – General. To be consistent with operating limitations and shall include data sheet as in Volume 1 Division 6 Appendix 1.
4. Buoyancy: Volume 1, Chapter 3 – Buoyancy, Subdivision and Hydrostatic Stability.
5. Dynamic Stability and control: Volume 1, Chapter 4 – Dynamic Stability and Control (including appendix to chapter 4).
6. Structural Strength: Volume 1, Chapter 5 – Structural Strength.
7. Materials for flexible structure: Volume 1, Chapter 6, Sections 605 and 606.
8. Engineering requirements for main and auxiliary machinery: Uniform Code, Section 9.
9. Fans for lift or propulsion: Volume 1, Chapter 7, Sections 740 to 746.
10. Propellers: Volume 1, Chapter 7, sections 760 to 766.
11. Transmission components: Volume 1, Chapter 1, sections 780 to 787.
12. Bilge systems: Volume 1, Chapter 9, sections 950 to 959.
13. Fuel systems including fuel tanks: Uniform Code, section 9.
14. Electrical installation: Uniform Code, section 9.
15. Structural fire protection: Uniform Code, section 5, subsection F.
16. Design of passenger and crew accommodation compartments Volume 1, Chapter 11 – Compartment Design.
17. Crew stations and control arrangements: Volume 1, Chapter 12, Control Stations, Monitoring and Alarms.
18. Life saving equipment: Uniform Code, section 10.

19. Fire appliances: Uniform Code, section 11.
20. Radio equipment: Uniform Code, section 12.
21. Miscellaneous equipment: Uniform Code, section 13; Securing, Anchoring and Mooring arrangements shall be in accordance with Volume 1 Chapter 13.
22. Navigation lights: Volume 1, Chapter 14, sections 1470 to 1477.
23. Construction and installation: Volume 1, Division 3, Chapter 1 and Chapter 2, sections 3200, 3201, 3206 and Chapter 3.
24. Functional tests: Volume 1, Division 4, Part A and Part B.
25. Operational trials: Volume 1, Division 4, Part C and Part D.

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**ENDNOTES**

**1 KEY**

Key to abbreviations

<b>amd = amended</b>	<b>od = order</b>
<b>app = appendix</b>	<b>om = omitted</b>
<b>bl = by-law</b>	<b>pt = Part</b>
<b>ch = Chapter</b>	<b>r = regulation/rule</b>
<b>cl = clause</b>	<b>rem = remainder</b>
<b>div = Division</b>	<b>renum = renumbered</b>
<b>exp = expires/expired</b>	<b>rep = repealed</b>
<b>f = forms</b>	<b>s = section</b>
<b>Gaz = Gazette</b>	<b>sch = Schedule</b>
<b>hdg = heading</b>	<b>sdiv = Subdivision</b>
<b>ins = inserted</b>	<b>SL = Subordinate Legislation</b>
<b>lt = long title</b>	<b>sub = substituted</b>
<b>nc = not commenced</b>	

**2 LIST OF LEGISLATION**

***Marine (Air-Cushioned Vehicles) Regulations (SL No. 39, 1994)***

Notified	1 November 1994
Commenced	1 November 1994 (r 2)

***Amendments of Marine (Air-Cushioned Vehicles) Regulations (SL No. 4, 2001)***

Notified	2 April 2001
Commenced	2 April 2001

**3 LIST OF AMENDMENTS**

r 16	amd No. 4, 2001, r 1
r 22	amd No. 4, 2001, r 2