



# Radiocommunications (Aircraft and Aeronautical Mobile Stations) Class Licence 2006

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The AUSTRALIAN COMMUNICATIONS AND MEDIA AUTHORITY makes this Class Licence under subsection 132 (1) and section 135 of the *Radiocommunications Act 1992*.

Dated 31<sup>st</sup> August 2006

CHRIS CHAPMAN  
Chairman

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Deputy Chair

Australian Communications and Media Authority

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## Part 1 Preliminary

### 1 Name of Class Licence

This Class Licence is the *Radiocommunications (Aircraft and Aeronautical Mobile Stations) Class Licence 2006*.

### 2 Commencement

This Class Licence commences on the day after it is registered.

### 3 Revocation

The *Radiocommunications (Aircraft Station) Class Licence 2001* is revoked.

### 4 Definitions

In this Class Licence:

***aero club*** means a club formed by individuals to participate in activities relating to aircraft other than model aircraft.

***Aeronautical Information Publication*** has the meaning given by regulation 4.12 of the Air Services Regulations.

***aeronautical mobile station*** means a station that:

- (a) is a mobile station, other than an aircraft station or an earth station; and
- (b) operates on any of the frequencies mentioned in subsection 11 (2); and
- (c) either:
  - (i) operates with a transmitter output power of 5 watts or less; or
  - (ii) at a location where the frequency in use is authorised to a station, licensed under an aeronautical licence (aeronautical assigned station), to which that mobile station relates — operates with a transmitter power exceeding 5 watts but not exceeding 25 watts.

***aircraft*** means a machine or craft that can derive support in the atmosphere from the reactions of the air, other than the reactions of the air against the earth's surface.

***aircraft station***:

- (a) means a station:
  - (i) that is operated on board an aircraft for communication with:
    - (A) other aircraft stations; or
    - (B) aeronautical stations, whether fixed or mobile; and
  - (ii) that operates on any of the frequencies mentioned in subsection 11 (1) and section 12; and

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(b) includes equipment of a kind that is in a survival craft of an aircraft.

**Airservices Australia** means the body called Airservices Australia established by subsection 7 (1) of the *Air Services Act 1995*.

**CASA** means the Civil Aviation Safety Authority established by subsection 8 (1) of the *Civil Aviation Act 1988*.

**charter purposes** has the meaning given by paragraph 206 (1) (b) of the Civil Aviation Regulations.

**Civil Aviation Regulations** means the *Civil Aviation Regulations 1988*.

**Civil Aviation Orders** means orders issued by CASA under regulation 5 of the Civil Aviation Regulations.

**device compliance day** means the most recent of the following days:

- (a) if a device was manufactured in Australia — the day the device was manufactured;
- (b) if a device was manufactured overseas and imported into Australia — the day it was imported;
- (c) if a device was altered or modified in a material respect — the day it was altered or modified.

**ICAO** means the International Civil Aviation Organization referred to in the Convention on International Civil Aviation, ratified at Chicago on 7 December 1944.

**radiodetermination** means:

- (a) determination, on the basis of propagation properties of radio waves, of:
  - (i) the position of an object; or
  - (ii) the velocity of the object; or
  - (iii) other characteristics of the object; or
- (b) the obtaining of information about the characteristics mentioned in paragraph (a).

**radionavigation** means the use of radiocommunications (including radiodetermination) for the purpose of navigation or obstruction warning.

**sport aviation body** has the meaning given by subregulation 2 (1) of the Civil Aviation Regulations.

**survival craft station** means a mobile station in the maritime mobile service or the aeronautical mobile service that is:

- (a) intended only for use for survival purposes; and
- (b) located on a lifeboat, life-raft or other survival equipment.

*Note 1* For the definitions of other expressions used in this Class Licence, including:

- earth receive station

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- space object

see the *Radiocommunications Act 1992* and the *Radiocommunications (Interpretation) Determination 2000*.

*Note 2* Some expressions that are defined in this Class Licence (for example, *aircraft*) are defined in identical terms in the *Civil Aviation Act 1988*.

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**Part 2                      Class licence****5                      Class Licence**

(1) Subject to subsection (2), this Class Licence authorises a person to operate the following stations, if the person complies with the conditions in this Class Licence:

- (a) an aircraft station;
- (b) an aeronautical mobile station.

*Note* Other requirements, under legislation administered by Airservices Australia or CASA, may apply to the person in relation to the operation of an aircraft station or an aeronautical mobile station.

(2) This Class Licence does not apply to any radiocommunications device operating under an apparatus licence that is authorised to operate for a purpose that is substantially the same as the purpose for which, except for this subsection, its operation would be authorised by this Class Licence.

## Part 3                      Conditions

### 6                      **Compliance with specifications, equipment compliance requirements and standards**

A person must not operate an aircraft station or an aeronautical mobile station unless each device included in the station:

- (a) if the device has a device compliance day before 1 July 2001 — complies with a specification, equipment compliance requirement or standard, as in force on the device compliance day, that:
  - (i) is mentioned in Schedule 1; and
  - (ii) applies to the device; or
- (b) if the device has a device compliance day on or after 1 July 2001 — complies with:
  - (i) a specification, equipment compliance requirement or standard, as in force on the device compliance day, that:
    - (A) is mentioned in Schedule 1; and
    - (B) applies to the device; and
  - (ii) any other standard that applies to the device on its device compliance day.

*Note 1* If radiocommunications equipment is required to be fitted to, or carried on, an aircraft under the Civil Aviation Regulations, it must also comply with the relevant Civil Aviation Orders, Minimum Operational Performance Specifications and Technical Standard Orders.

*Note 2* The Australian Communications and Media Authority wishes to make it clear that, if a specification, equipment compliance requirement or standard referred to in this section is amended, or replaced by another specification, equipment compliance requirement or standard, after the device compliance day for a device, the device need not comply with the new or amended specification, equipment compliance requirement or standard.

*Note 3* Under section 5 of the *Radiocommunications Act 1992*, **standard** means a standard made under section 162 of the Act.

### 7                      **Operator qualifications**

A person may operate an aircraft station or an aeronautical mobile station only if the person is qualified to operate the station in accordance with the Civil Aviation Regulations and the relevant Civil Aviation Orders.

### 8                      **Station identification**

- (1) A person who operates an aircraft station must identify the station using:
  - (a) the nationality mark and the registration mark of the aircraft; or
  - (b) the registration issued by a sport aviation body; or

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- (c) any other form of identification that clearly identifies the station.
- (2) A person who operates an aeronautical mobile station must identify the station using a form of identification that clearly identifies the station.

*Note* Other requirements, under legislation administered by Airservices Australia or CASA, may apply to the person in relation to the operation of an aircraft station or an aeronautical mobile station.

**9 Communications between stations**

- (1) A person may operate an aircraft station to communicate only with:
  - (a) another aircraft station; or
  - (b) an aeronautical station; or
  - (c) a station operating on a frequency mentioned in paragraph 11 (1) (d).
- (2) A person may operate an aeronautical mobile station to communicate only with:
  - (a) an aircraft station; or
  - (b) an aeronautical station.
- (3) A communication mentioned in subsection (1) or (2) may be made only if the communication relates to:
  - (a) the safe and expeditious conduct of a flight; or
  - (b) an emergency; or
  - (c) a matter that relates to the particular occupation or industry in which:
    - (i) the aircraft to which the aircraft station relates is engaged; or
    - (ii) the aeronautical mobile station is engaged.
- (4) However, subsection (3) does not apply to a person employed by:
  - (a) Airservices Australia; or
  - (b) CASA.

**10 Operations outside Australia (aircraft stations)**

- (1) A person may operate an aircraft station outside Australia only in accordance with:
  - (a) the International Telecommunication Union Radio Regulations; and
  - (b) if the station is in the territory of another country — the requirements of the country applicable to radiocommunications.
- (2) If an aircraft station is to be operated outside Australia on a frequency authorised by ICAO and published in an Aeronautical Information Publication (or a similar document, as in force, from time to time, for the country in whose territory the station is located), the person may operate the station only to communicate with:
  - (a) an aeronautical station operated in another country; or

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- (b) another aircraft station.

**11 Use of frequencies**

- (1) A person may operate an aircraft station only:
- (a) for a purpose mentioned in column 2 of an item in Part 2.1 of Schedule 2, and on a carrier frequency mentioned in column 3 of the item, utilising single sideband modulation using upper sideband with a necessary bandwidth not exceeding 2.8 kHz; or
  - (b) for a purpose mentioned in column 2 of Part 2.2 of Schedule 2, and on a carrier frequency mentioned in column 3 in relation to that purpose; or
  - (c) on a frequency permitted in an Aeronautical Information Publication; or
  - (d) on any of the following frequencies for the purposes of search and rescue only:
    - (i) 2 182 kHz;
    - (ii) 3 023 kHz;
    - (iii) 4 125 kHz;
    - (iv) 5 680 kHz;
    - (v) 121.5 Mhz;
    - (vi) 123.1 MHz;
    - (vii) 123.2 MHz;
    - (viii) 156.3 MHz;
    - (ix) 156.8 MHz.
- (2) A person may operate an aeronautical mobile station only:
- (a) for a purpose mentioned in column 2 of Part 2.2 of Schedule 2, and on a carrier frequency mentioned in column 3 in relation to that purpose; or
  - (b) on a frequency permitted in an Aeronautical Information Publication; or
  - (c) on either of the following frequencies for the purposes of search and rescue only:
    - (i) 3 023 kHz;
    - (ii) 5 680 kHz;
    - (iii) 121.5 MHz;
    - (iv) 123.1 MHz;
    - (v) 123.2 MHz.

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**12 Operation on radionavigation frequencies (aircraft stations)**

A person may operate an aircraft station on radionavigation frequencies only:

- (a) for a purpose mentioned in column 2 of an item in Part 2.3 of Schedule 2; and
- (b) on a frequency in a frequency band mentioned in column 3 of the item.

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## Schedule 1      Specifications, equipment compliance requirements and standards

(section 6)

### Part 1.1      Aeronautical equipment

Item	Description of document
1	Specification for Radio Equipment Employed in Land and Harbour Mobile Radiocommunication Services (also known as RB 272), published by the Department of Communications in November 1980
2	Specification for Radio Equipment Employed in Land Mobile Radiocommunication Services (also known as RB 203), published by the Department of Communications in June 1982
3	Equipment Specification for Land Mobile Services (70–85 MHz, 92–94 MHz and Aeronautical Band 118–136 MHz) (also known as DOC 203A), published by the Department of Transport and Communications in October 1988
4	Equipment Specification for Land and Harbour Mobile Services (70–85 MHz, 148–174 MHz and Aeronautical Band 118–136 MHz) (also known as DOC 272A), published by the Department of Transport and Communications in February 1989
5	Equipment Compliance Requirements for radio equipment employed in Land Mobile Radiocommunications Services (also known as ECR 203A), published by the Department of Transport and Communications in April 1992
6	Equipment Compliance Requirements for radio equipment intended for use in the Aviation Service (also known as Equipment Compliance Requirement 272A), published by the Department of Transport and Communications in April 1992
7	Radiocommunications (118 MHz to 137 MHz Amplitude Modulated Equipment — Aeronautical Radio Service) Standard 2002, published in the <i>Gazette</i> on 8 May 2002

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### Part 1.2      VHF international maritime mobile service equipment

Item	Description of document
1	Specification for Radio Equipment employed in the International VHF Maritime Mobile Radiotelephone Service (also known as RB 274), published by the Postal and Telecommunications Department in October 1977
2	Specification for Radio Equipment employed in the International VHF Maritime Mobile Radiotelephone Service (also known as RB 275), published by the Postal and Telecommunications Department in October 1977

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<b>Item</b>	<b>Description of document</b>
3	Specification for the International VHF Maritime Mobile Radiotelephone Service (also known as RB 274), published by the Postal and Telecommunications Department in October 1988
4	Equipment Compliance Requirements for Radiotelephony Equipment used in the VHF International Maritime Mobile Service (incorporating Ministerial Standard 274) (also known as ECR 274), published by the Department of Transport and Communications in October 1990
5	Radiocommunications Standard (406 MHz Satellite Distress Beacons) No. 1 of 1996, gazetted on 20 December 1996
6	Radiocommunications Standard (VHF Radiotelephone Equipment — Maritime Mobile Service) No. 1 of 1997, gazetted on 5 March 1997

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## Schedule 2      Frequencies for operation

(sections 11 and 12)

### Part 2.1      Operation on high frequencies — aircraft stations

Item	Purpose	Carrier frequency (kHz)
1	Surveying	2 140
		4 615 <sup>1</sup>
2	General use	3 216 <sup>1</sup>
		3 704
		3 876
		6 628
		6 697

*Note*

- 1 This frequency can be used only for aeronautical communications, including communications relating to flight coordination, primarily outside national or international civil air routes.

### Part 2.2      Operation on very high frequencies — aircraft stations and aeronautical mobile stations

Item	Purpose	Carrier frequency (MHz)	
1	(a)    aero club operations	119.1	
	(b)    flying school operations		
	(c)    firespotting		
2	Parachute club operations	119.2	
3	Helicopter operations:		
	(a)    air to air communications only		120.4
	(b)    ground to air and air to ground communications only	120.8	
4	Aviation sport	120.85	
5	Emergency location:		
	(a)    for aircraft stations and aeronautical mobile stations		121.5 <sup>1</sup>
	(b)    for aircraft stations only		243.0 <sup>1</sup> 406–406.1

Item	Purpose	Carrier frequency (MHz)
<i>Note</i>		
1	As a result of international agreement, the COSPAS-SARSAT system will no longer receive transmission on these frequencies from 1 February 2009.	
6	Glider or sailplane operations	122.5 122.7 122.9
7	Fishing operations or agricultural operations including stock mustering	122.8
8	Pilot to pilot communications	123.45
9	Air show	127.9
10	Traffic information broadcasts by aircraft (TIBA):	
	(a) at or above FL200	128.95
	(b) below FL200	126.35
11	Aircraft industry testing	129.1
12	Crop dusting	129.6
13	Aerodrome operations	129.9
14	Charter purposes (above 20 000 feet)	135.95
15	Charter purposes and other purposes not listed in another item	126.4 128.9 135.55

## Part 2.3      Operation on radionavigation frequencies — aircraft stations

Item	Purpose	Frequency band (MHz)
1	Aeronautical Radionavigation Distance Measuring Equipment	1024–1151
2	Airborne Collision Avoidance System (interrogator)	1026–1034
3	Secondary Surveillance RADAR Airborne Collision Avoidance System (reply) Automatic Dependant Surveillance — Broadcast	1087–1093
4	Radio altimeter	4200–4400
5	Weather RADAR	5350–5470 9300–9500

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<b>Item</b>	<b>Purpose</b>	<b>Frequency band (MHz)</b>
6	Doppler RADAR	8750–8850 13250–13400

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