

Apparatus Licence

Issued by Delegate of the Australian Communications and Media Authority



Licensee details

Customer ID	46975
Licensee	Department of Defence
Trading name	Director Defence Spectrum Office
Licensee address	D DSO APW-GF-173, Anzac Park West PO Box 7953, CANBERRA BC, ACT 2610

Licence details

Licence service	Aeronautical
Licence subservice	Aeronautical Assigned System
Licence number	1135359/1
Callsign	VL1DEF
Date of issue	11/09/2023
Date of effect	11/09/2023
Date of expiry	19/09/2024

Licence conditions

Your licence is subject to conditions set out in the *Radiocommunications Act 1992*. Your licence may also be subject to such other licence conditions as determined by the ACMA (in licence condition determinations) from time to time, and is also subject to special conditions as detailed on this licence.

The conditions that are imposed on a licence vary according to the type of licence issued, the service being operated and the section of the *Radiocommunications Act 1992* under which the licence has been issued. For further information about the conditions that apply to your licence, please contact the ACMA (see contact details below).

Rights of appeal

A decision by the ACMA to impose further conditions or revoke or vary the conditions of your licence may be reviewable. If you are affected by, and dissatisfied with, such a decision you may apply to the ACMA to have the ACMA reconsider the decision under section 288 of the *Radiocommunications Act 1992*.

An application for reconsideration must state the reasons for the request, and should be sent to the Customer Service Centre, Australian Communications and Media Authority, PO Box 78, Belconnen, ACT, 2616. Applications for review of decisions can be made using the R051 - Application for review of Decision form, available on the ACMA website.

Important

An application for the ACMA to reconsider a decision to impose or vary licence conditions must be made to the ACMA within 28 days of the day on which you are informed of the decision. An application for reconsideration made after that time may not be accepted.

ACMA contact details

Customer Service Centre
PO Box 78
BELCONNEN ACT 2616

Telephone: 1300 850 115
Email: info@acma.gov.au

ACMA website: www.acma.gov.au

Advisory Notes applying to licence no.: 1135359/1

Conditions applicable to the operation of Aeronautical Assigned System station(s) authorised under this licence can be found in the Radiocommunications Licence Conditions (Apparatus Licence) Determination and the Radiocommunications Licence Conditions (Aeronautical Licence) Determination. Copies of these determinations are available from the ACMA and from the ACMA home page (www.acma.gov.au).

Technical characteristics

Below is a summary of the technical characteristics of the licensed service. Further technical details not displayed here may be found on the ACMA website.

Main Station Site

Station 1:

Site details	
Site ID	39343
Site address	Localiser, AMBERLEY QLD 4306
Co-ordinates (GDA94)	Latitude: -27.650062 Longitude: 152.717626

Transmitter details	
Assigned frequency	110.700000 MHz
Bandwidth	200.0000 kHz
Freq. assign. ID	0001129740
Transmitter power	15.00 W
EIRP	
Emission designator	12K5A9A

Antenna details	
Antenna ID	40
Antenna polarisation	H - Horizontal linear
Antenna azimuth	
Antenna height (m)	2
Antenna type	Log Periodic-G

Technical characteristics

Below is a summary of the technical characteristics of the licensed service. Further technical details not displayed here may be found on the ACMA website.

Main Station Site

Station 2:

Site details

Site ID	100207
Site address	Localiser, Edinburgh RAAF Base, EDINBURGH SA 5111
Co-ordinates (GDA94)	Latitude: -34.719875 Longitude: 138.612995

Transmitter details

Assigned frequency	110.700000 MHz
Bandwidth	200.0000 kHz
Freq. assign. ID	0001129742
Transmitter power	15.00 W
EIRP	
Emission designator	12K5A9A

Antenna details

Antenna ID	40
Antenna polarisation	H - Horizontal linear
Antenna azimuth	
Antenna height (m)	2
Antenna type	Log Periodic-G

Technical characteristics

Below is a summary of the technical characteristics of the licensed service. Further technical details not displayed here may be found on the ACMA website.

Main Station Site

Station 3:

Site details

Site ID	131238
Site address	Localiser, Nowra Naval Airfield, NOWRA NSW 2541
Co-ordinates (GDA94)	Latitude: -34.951618 Longitude: 150.533171

Transmitter details

Assigned frequency	108.500000 MHz
Bandwidth	200.0000 kHz
Freq. assign. ID	0001129744
Transmitter power	25.00 W
EIRP	
Emission designator	15K0A3A

Antenna details

Antenna ID	40
Antenna polarisation	H - Horizontal linear
Antenna azimuth	
Antenna height (m)	3
Antenna type	Log Periodic-G

Technical characteristics

Below is a summary of the technical characteristics of the licensed service. Further technical details not displayed here may be found on the ACMA website.

Main Station Site

Station 4:

Site details

Site ID	39348		
Site address	Localiser, OAKLEY QLD 4401		
Co-ordinates (GDA94)	Latitude: -27.416503	Longitude:	151.747917

Transmitter details

Assigned frequency	110.500000 MHz
Bandwidth	200.0000 kHz
Freq. assign. ID	0001129746
Transmitter power	15.00 W
EIRP	
Emission designator	12K5A9A

Antenna details

Antenna ID	40
Antenna polarisation	H - Horizontal linear
Antenna azimuth	
Antenna height (m)	2
Antenna type	Log Periodic-G

Technical characteristics

Below is a summary of the technical characteristics of the licensed service. Further technical details not displayed here may be found on the ACMA website.

Main Station Site

Station 5:

Site details

Site ID	39353		
Site address	Runway 18, Localiser, PEARCE WA 6084		
Co-ordinates (GDA94)	Latitude: -31.686778	Longitude: 116.01694	

Transmitter details

Assigned frequency	110.700000 MHz
Bandwidth	200.0000 kHz
Freq. assign. ID	0001129748
Transmitter power	15.00 W
EIRP	
Emission designator	12K5A9A

Antenna details

Antenna ID	40
Antenna polarisation	H - Horizontal linear
Antenna azimuth	
Antenna height (m)	2
Antenna type	Log Periodic-G

Technical characteristics

Below is a summary of the technical characteristics of the licensed service. Further technical details not displayed here may be found on the ACMA website.

Main Station Site

Station 6:

Site details

Site ID	39358		
Site address	Localiser, TINDAL NT 0852		
Co-ordinates (GDA94)	Latitude: -14.532983	Longitude:	132.387477

Transmitter details

Assigned frequency	110.700000 MHz
Bandwidth	200.0000 kHz
Freq. assign. ID	0001129750
Transmitter power	15.00 W
EIRP	
Emission designator	12K5A9A

Antenna details

Antenna ID	40
Antenna polarisation	H - Horizontal linear
Antenna azimuth	
Antenna height (m)	2
Antenna type	Log Periodic-G

Technical characteristics

Below is a summary of the technical characteristics of the licensed service. Further technical details not displayed here may be found on the ACMA website.

Main Station Site

Station 7:

Site details

Site ID	39363		
Site address	Localiser, WILLIAMTOWN NSW 2318		
Co-ordinates (GDA94)	Latitude: -32.806419	Longitude:	151.849533

Transmitter details

Assigned frequency	110.500000 MHz
Bandwidth	200.0000 kHz
Freq. assign. ID	0001129752
Transmitter power	15.00 W
EIRP	
Emission designator	12K5A9A

Antenna details

Antenna ID	40
Antenna polarisation	H - Horizontal linear
Antenna azimuth	
Antenna height (m)	2
Antenna type	Log Periodic-G

Technical characteristics

Below is a summary of the technical characteristics of the licensed service. Further technical details not displayed here may be found on the ACMA website.

Main Station Site

Station 8:

Site details

Site ID	39344		
Site address	Glide Path, AMBERLEY QLD 4306		
Co-ordinates (GDA94)	Latitude: -27.624456	Longitude: 152.708419	

Transmitter details

Assigned frequency	330.200000 MHz
Bandwidth	300.0000 kHz
Freq. assign. ID	0001129754
Transmitter power	5.00 W
EIRP	
Emission designator	18K5A9A

Antenna details

Antenna ID	41
Antenna polarisation	H - Horizontal linear
Antenna azimuth	
Antenna height (m)	2
Antenna type	Log Periodic-G

Technical characteristics

Below is a summary of the technical characteristics of the licensed service. Further technical details not displayed here may be found on the ACMA website.

Main Station Site

Station 9:

Site details	
Site ID	100209
Site address	Glide Slope, Edinburgh RAAF Base, EDINBURGH SA 5114
Co-ordinates (GDA94)	Latitude: -34.697328 Longitude: 138.61577
Transmitter details	
Assigned frequency	330.200000 MHz
Bandwidth	300.0000 kHz
Freq. assign. ID	0001129756
Transmitter power	5.00 W
EIRP	
Emission designator	18K5A9A
Antenna details	
Antenna ID	41
Antenna polarisation	H - Horizontal linear
Antenna azimuth	
Antenna height (m)	2
Antenna type	Log Periodic-G

Technical characteristics

Below is a summary of the technical characteristics of the licensed service. Further technical details not displayed here may be found on the ACMA website.

Main Station Site

Station 10:

Site details

Site ID	131239
Site address	Glide Slope Transceiver, Naval Airfield, NOWRA NSW 2541
Co-ordinates (GDA94)	Latitude: -34.937311 Longitude: 150.548339

Transmitter details

Assigned frequency	329.900000 MHz
Bandwidth	300.0000 kHz
Freq. assign. ID	0001129758
Transmitter power	5.00 W
EIRP	
Emission designator	18K5A8B

Antenna details

Antenna ID	41
Antenna polarisation	H - Horizontal linear
Antenna azimuth	
Antenna height (m)	15
Antenna type	Log Periodic-G

Technical characteristics

Below is a summary of the technical characteristics of the licensed service. Further technical details not displayed here may be found on the ACMA website.

Main Station Site

Station 11:

Site details

Site ID	39349		
Site address	Glide Slope, OAKEY QLD 4401		
Co-ordinates (GDA94)	Latitude: -27.404042	Longitude:	151.740156

Transmitter details

Assigned frequency	329.600000 MHz
Bandwidth	300.0000 kHz
Freq. assign. ID	0001129760
Transmitter power	5.00 W
EIRP	
Emission designator	18K5A9A

Antenna details

Antenna ID	41
Antenna polarisation	H - Horizontal linear
Antenna azimuth	
Antenna height (m)	2
Antenna type	Log Periodic-G

Technical characteristics

Below is a summary of the technical characteristics of the licensed service. Further technical details not displayed here may be found on the ACMA website.

Main Station Site

Station 12:

Site details

Site ID	39354		
Site address	Runway 18, Glide Path, PEARCE WA 6084		
Co-ordinates (GDA94)	Latitude: -31.664957	Longitude:	116.012771

Transmitter details

Assigned frequency	330.200000 MHz
Bandwidth	300.0000 kHz
Freq. assign. ID	0001129762
Transmitter power	5.00 W
EIRP	
Emission designator	18K5A9A

Antenna details

Antenna ID	41
Antenna polarisation	H - Horizontal linear
Antenna azimuth	
Antenna height (m)	2
Antenna type	Log Periodic-G

Technical characteristics

Below is a summary of the technical characteristics of the licensed service. Further technical details not displayed here may be found on the ACMA website.

Main Station Site

Station 13:

Site details

Site ID	39364
Site address	Glide Path, WILLIAMTOWN NSW 2314
Co-ordinates (GDA94)	Latitude: -32.791344 Longitude: 151.826506

Transmitter details

Assigned frequency	329.600000 MHz
Bandwidth	300.0000 kHz
Freq. assign. ID	0001129764
Transmitter power	5.00 W
EIRP	
Emission designator	18K5A9A

Antenna details

Antenna ID	41
Antenna polarisation	H - Horizontal linear
Antenna azimuth	
Antenna height (m)	2
Antenna type	Log Periodic-G

Technical characteristics

Below is a summary of the technical characteristics of the licensed service. Further technical details not displayed here may be found on the ACMA website.

Main Station Site

Station 14:

Site details

Site ID	39359		
Site address	Glide Path, TINDAL NT 0852		
Co-ordinates (GDA94)	Latitude: -14.515366	Longitude:	132.369492

Transmitter details

Assigned frequency	330.200000 MHz
Bandwidth	300.0000 kHz
Freq. assign. ID	0001129766
Transmitter power	5.00 W
EIRP	
Emission designator	18K5A9A

Antenna details

Antenna ID	41
Antenna polarisation	H - Horizontal linear
Antenna azimuth	
Antenna height (m)	2
Antenna type	Log Periodic-G

Technical characteristics

Below is a summary of the technical characteristics of the licensed service. Further technical details not displayed here may be found on the ACMA website.

Main Station Site

Station 15:

Site details	
Site ID	39345
Site address	Middle Marker, AMBERLEY QLD 4306
Co-ordinates (GDA94)	Latitude: -27.613721 Longitude: 152.702406
Transmitter details	
Assigned frequency	75.000000 MHz
Bandwidth	25.0000 kHz
Freq. assign. ID	0001129768
Transmitter power	3.00 W
EIRP	19.00 W
Emission designator	10K1F2D
Antenna details	
Antenna ID	949
Antenna polarisation	H - Horizontal linear
Antenna azimuth	
Antenna height (m)	2
Antenna type	Log Periodic-G

Technical characteristics

Below is a summary of the technical characteristics of the licensed service. Further technical details not displayed here may be found on the ACMA website.

Main Station Site

Station 16:

Site details	
Site ID	100208
Site address	Middle Marker, Edinburgh RAAF Base, EDINBURGH SA 5121
Co-ordinates (GDA94)	Latitude: -34.684804 Longitude: 138.619339
Transmitter details	
Assigned frequency	75.000000 MHz
Bandwidth	25.0000 kHz
Freq. assign. ID	0001129770
Transmitter power	3.00 W
EIRP	19.00 W
Emission designator	10K1F2D
Antenna details	
Antenna ID	949
Antenna polarisation	H - Horizontal linear
Antenna azimuth	
Antenna height (m)	2
Antenna type	Log Periodic-G

Technical characteristics

Below is a summary of the technical characteristics of the licensed service. Further technical details not displayed here may be found on the ACMA website.

Main Station Site

Station 17:

Site details

Site ID	39350		
Site address	Middle Marker, OAKEY QLD 4401		
Co-ordinates (GDA94)	Latitude: -27.395264	Longitude:	151.731353

Transmitter details

Assigned frequency	75.000000 MHz
Bandwidth	25.0000 kHz
Freq. assign. ID	0001129772
Transmitter power	3.00 W
EIRP	19.00 W
Emission designator	10K1F2D

Antenna details

Antenna ID	949
Antenna polarisation	H - Horizontal linear
Antenna azimuth	
Antenna height (m)	2
Antenna type	Log Periodic-G

Technical characteristics

Below is a summary of the technical characteristics of the licensed service. Further technical details not displayed here may be found on the ACMA website.

Main Station Site

Station 18:

Site details

Site ID	39355		
Site address	Runway 18L Middle Marker, RAAF BASE PEARCE WA 6084		
Co-ordinates (GDA94)	Latitude: -31.653003	Longitude:	116.012466

Transmitter details

Assigned frequency	75.000000 MHz
Bandwidth	25.0000 kHz
Freq. assign. ID	0001129774
Transmitter power	3.00 W
EIRP	19.00 W
Emission designator	10K1F2D

Antenna details

Antenna ID	949
Antenna polarisation	H - Horizontal linear
Antenna azimuth	
Antenna height (m)	2
Antenna type	Log Periodic-G

Technical characteristics

Below is a summary of the technical characteristics of the licensed service. Further technical details not displayed here may be found on the ACMA website.

Main Station Site

Station 19:

Site details	
Site ID	39360
Site address	Middle Marker, TINDAL NT 0852
Co-ordinates (GDA94)	Latitude: -14.505034 Longitude: 132.362456
Transmitter details	
Assigned frequency	75.000000 MHz
Bandwidth	25.0000 kHz
Freq. assign. ID	0001129776
Transmitter power	3.00 W
EIRP	19.00 W
Emission designator	10K1F2D
Antenna details	
Antenna ID	949
Antenna polarisation	H - Horizontal linear
Antenna azimuth	
Antenna height (m)	2
Antenna type	Log Periodic-G

Technical characteristics

Below is a summary of the technical characteristics of the licensed service. Further technical details not displayed here may be found on the ACMA website.

Main Station Site

Station 20:

Site details	
Site ID	39365
Site address	Middle Marker, WILLIAMTOWN NSW 2301
Co-ordinates (GDA94)	Latitude: -32.782844 Longitude: 151.816123

Transmitter details	
Assigned frequency	75.000000 MHz
Bandwidth	25.0000 kHz
Freq. assign. ID	0001129778
Transmitter power	3.00 W
EIRP	19.00 W
Emission designator	10K1F2D

Antenna details	
Antenna ID	949
Antenna polarisation	H - Horizontal linear
Antenna azimuth	
Antenna height (m)	2
Antenna type	Log Periodic-G

Technical characteristics

Below is a summary of the technical characteristics of the licensed service. Further technical details not displayed here may be found on the ACMA website.

Main Station Site

Station 21:

Site details	
Site ID	39346
Site address	Outer Marker, AMBERLEY QLD 4306
Co-ordinates (GDA94)	Latitude: -27.539248 Longitude: 152.66878

Transmitter details	
Assigned frequency	75.000000 MHz
Bandwidth	25.0000 kHz
Freq. assign. ID	0001129780
Transmitter power	3.00 W
EIRP	19.00 W
Emission designator	10K0F2D

Antenna details	
Antenna ID	949
Antenna polarisation	H - Horizontal linear
Antenna azimuth	
Antenna height (m)	2
Antenna type	Log Periodic-G

Technical characteristics

Below is a summary of the technical characteristics of the licensed service. Further technical details not displayed here may be found on the ACMA website.

Main Station Site

Station 22:

Site details

Site ID	100210
Site address	Outer Marker, Edinburgh RAAF Base, EDINBURGH SA 5501
Co-ordinates (GDA94)	Latitude: -34.624741 Longitude: 138.630217

Transmitter details

Assigned frequency	75.000000 MHz
Bandwidth	25.0000 kHz
Freq. assign. ID	0001129782
Transmitter power	3.00 W
EIRP	19.00 W
Emission designator	10K1F2D

Antenna details

Antenna ID	949
Antenna polarisation	H - Horizontal linear
Antenna azimuth	
Antenna height (m)	2
Antenna type	Log Periodic-G

Technical characteristics

Below is a summary of the technical characteristics of the licensed service. Further technical details not displayed here may be found on the ACMA website.

Main Station Site

Station 23:

Site details

Site ID	131240
Site address	Outer Marker Beacon Terara, NOWRA NSW 2540
Co-ordinates (GDA94)	Latitude: -34.865297 Longitude: 150.635753

Transmitter details

Assigned frequency	75.000000 MHz
Bandwidth	25.0000 kHz
Freq. assign. ID	0001129784
Transmitter power	3.00 W
EIRP	19.00 W
Emission designator	10K1F2D

Antenna details

Antenna ID	949
Antenna polarisation	H - Horizontal linear
Antenna azimuth	
Antenna height (m)	2
Antenna type	Log Periodic-G

Technical characteristics

Below is a summary of the technical characteristics of the licensed service. Further technical details not displayed here may be found on the ACMA website.

Main Station Site

Station 24:

Site details	
Site ID	39351
Site address	Outer Marker, OAKEY QLD 4352
Co-ordinates (GDA94)	Latitude: -27.350687 Longitude: 151.696485

Transmitter details	
Assigned frequency	75.000000 MHz
Bandwidth	25.0000 kHz
Freq. assign. ID	0001129786
Transmitter power	3.00 W
EIRP	19.00 W
Emission designator	10K1F2D

Antenna details	
Antenna ID	949
Antenna polarisation	H - Horizontal linear
Antenna azimuth	
Antenna height (m)	2
Antenna type	Log Periodic-G

Technical characteristics

Below is a summary of the technical characteristics of the licensed service. Further technical details not displayed here may be found on the ACMA website.

Main Station Site

Station 25:

Site details

Site ID	39356
Site address	Runway 18L Outer Marker, RAAF BASE PEARCE WA 6501
Co-ordinates (GDA94)	Latitude: -31.577562 Longitude: 116.001996

Transmitter details

Assigned frequency	75.000000 MHz
Bandwidth	25.0000 kHz
Freq. assign. ID	0001129788
Transmitter power	3.00 W
EIRP	19.00 W
Emission designator	10K1F2D

Antenna details

Antenna ID	949
Antenna polarisation	H - Horizontal linear
Antenna azimuth	
Antenna height (m)	2
Antenna type	Log Periodic-G

Technical characteristics

Below is a summary of the technical characteristics of the licensed service. Further technical details not displayed here may be found on the ACMA website.

Main Station Site

Station 26:

Site details

Site ID	39361		
Site address	Outer Marker, TINDAL NT 0850		
Co-ordinates (GDA94)	Latitude: -14.462729	Longitude: 132.324586	

Transmitter details

Assigned frequency	75.000000 MHz
Bandwidth	25.0000 kHz
Freq. assign. ID	0001129790
Transmitter power	3.00 W
EIRP	19.00 W
Emission designator	10K1F2D

Antenna details

Antenna ID	949
Antenna polarisation	H - Horizontal linear
Antenna azimuth	
Antenna height (m)	2
Antenna type	Log Periodic-G

Technical characteristics

Below is a summary of the technical characteristics of the licensed service. Further technical details not displayed here may be found on the ACMA website.

Main Station Site

Station 27:

Site details

Site ID	39366		
Site address	Outer Marker, WILLIAMTOWN NSW 2324		
Co-ordinates (GDA94)	Latitude: -32.731132	Longitude:	151.74455

Transmitter details

Assigned frequency	75.000000 MHz
Bandwidth	25.0000 kHz
Freq. assign. ID	0001129792
Transmitter power	3.00 W
EIRP	19.00 W
Emission designator	10K1F2D

Antenna details

Antenna ID	949
Antenna polarisation	H - Horizontal linear
Antenna azimuth	
Antenna height (m)	2
Antenna type	Log Periodic-G

Technical characteristics

Below is a summary of the technical characteristics of the licensed service. Further technical details not displayed here may be found on the ACMA website.

Main Station Site

Station 28:

Site details

Site ID	600779
Site address	Runway 36R Outer Marker, RAAF BASE PEARCE WA 6056
Co-ordinates (GDA94)	Latitude: -31.773482 Longitude: 116.028147

Transmitter details

Assigned frequency	75.000000 MHz
Bandwidth	25.0000 kHz
Freq. assign. ID	0001129794
Transmitter power	3.00 W
EIRP	19.00 W
Emission designator	10K1F2D

Antenna details

Antenna ID	949
Antenna polarisation	H - Horizontal linear
Antenna azimuth	
Antenna height (m)	2
Antenna type	Log Periodic-G

Technical characteristics

Below is a summary of the technical characteristics of the licensed service. Further technical details not displayed here may be found on the ACMA website.

Main Station Site

Station 29:

Site details

Site ID	600780
Site address	Runway 36R Middle Marker, RAAF BASE PEARCE WA 6084
Co-ordinates (GDA94)	Latitude: -31.692546 Longitude: 116.017354

Transmitter details

Assigned frequency	75.000000 MHz
Bandwidth	25.0000 kHz
Freq. assign. ID	0001129796
Transmitter power	3.00 W
EIRP	19.00 W
Emission designator	10K1F2D

Antenna details

Antenna ID	949
Antenna polarisation	H - Horizontal linear
Antenna azimuth	
Antenna height (m)	2
Antenna type	Log Periodic-G