

Apparatus Licence

Issued by Delegate of the Australian Communications and Media Authority



Licensee details

Customer ID	1425181
Licensee	Arrow Energy Ltd
Trading name	Arrow Energy Ltd
Licensee address	GPO Box 5262, BRISBANE, QLD 4001

Licence details

Licence service	PTS
Licence subservice	PMTS Class B
Licence number	10572813/1
Date of issue	15/03/2023
Date of effect	15/03/2023
Date of expiry	30/08/2024

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

Special Conditions applying to licence no.: 10572813/1

Sections 5 and 7 of the Radiocommunications Licence Conditions (PTS Licence) Determination do not apply with respect to the operation of a station under the licence, if the station:

- a) has an indoor fixed antenna and a radiated true mean power less than or equal to 24 dBm EIRP/occupied bandwidth;
- b) is within a 15 kilometre radius of the location specified for the spectrum access; and
- c) uses the receive or transmit frequencies and the emission designator specified for the spectrum access.

If sections 5 and 7 of the Radiocommunications Licence Conditions (PTS Licence) Determination do not apply to a station because of a condition specified in this licence, the station must be operated:

- a) in a manner that does not cause harmful interference to licensed radiocommunications devices; and
- b) on the basis that the licensee cannot claim protection from harmful interference from licensed radiocommunications devices.

The licensee must cooperate to the extent necessary to prevent its radiocommunications services from inhibiting the use of radiofrequency spectrum by other licensees operating under a public telecommunication service licence in the area surrounding the station location specified on this licence.

Advisory Notes applying to licence no.: 10572813/1

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

The shared spectrum arrangements and uncoordinated nature of mobile-satellite service transmitters operated under class licences in the 1980-2010 MHz band:

- a. may result in interference from nearby class licensed radiocommunications devices and may reduce system performance; and
- b. protection from such interference cannot be afforded.

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	10013390
Site address	Arrow TWR01, Collierville Elphinstone Rd, Newlands QLD
Co-ordinates (GDA94)	Latitude: -21.1222 Longitude: 147.9576

Transmitter details

Assigned frequency	2.11500000 GHz
Bandwidth	10.000000 MHz
Freq. assign. ID	0002309320
Transmitter power	10.00 W
EIRP	724.44 W
Emission designator	10M0D7W

Antenna details

Antenna ID	91737
Antenna polarisation	S - Slant
Antenna azimuth	
Antenna height (m)	50
Antenna type	Panel (1 sector)

Receiver details

Assigned frequency	1.92500000 GHz
Bandwidth	10.000000 MHz
Freq. assign. ID	0002309321
Transmitter power	N/A
EIRP	N/A
Emission designator	10M0D7W

Antenna details

Antenna ID	91737
Antenna polarisation	S - Slant
Antenna azimuth	
Antenna height (m)	50
Antenna type	Panel (1 sector)

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	10013391
Site address	Arrow TWR05, Red Hill Rd, Burton QLD
Co-ordinates (GDA94)	Latitude: -21.5581 Longitude: 148.0321

Transmitter details	
Assigned frequency	2.12500000 GHz
Bandwidth	10.000000 MHz
Freq. assign. ID	0002309322
Transmitter power	10.00 W
EIRP	724.44 W
Emission designator	10M0D7W

Antenna details	
Antenna ID	91737
Antenna polarisation	S - Slant
Antenna azimuth	
Antenna height (m)	50
Antenna type	Panel (1 sector)

Receiver details	
Assigned frequency	1.93500000 GHz
Bandwidth	10.000000 MHz
Freq. assign. ID	0002309323
Transmitter power	N/A
EIRP	N/A
Emission designator	10M0D7W

Antenna details	
Antenna ID	91737
Antenna polarisation	S - Slant
Antenna azimuth	
Antenna height (m)	50
Antenna type	Panel (1 sector)

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	10013392
Site address	Arrow TWR06, Kemmis Creek Rd, Kemmis QLD
Co-ordinates (GDA94)	Latitude: -21.6217 Longitude: 148.3222

Transmitter details

Assigned frequency	2.12500000 GHz
Bandwidth	10.000000 MHz
Freq. assign. ID	0002309324
Transmitter power	10.00 W
EIRP	724.44 W
Emission designator	10M0D7W

Antenna details

Antenna ID	91737
Antenna polarisation	S - Slant
Antenna azimuth	
Antenna height (m)	50
Antenna type	Panel (1 sector)

Receiver details

Assigned frequency	1.93500000 GHz
Bandwidth	10.000000 MHz
Freq. assign. ID	0002309325
Transmitter power	N/A
EIRP	N/A
Emission designator	10M0D7W

Antenna details

Antenna ID	91737
Antenna polarisation	S - Slant
Antenna azimuth	
Antenna height (m)	50
Antenna type	Panel (1 sector)

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	9017935
Site address	Arrow Energy Node 3 Compression Facility Repeater, 3.6km NW of Wotonga, MORANBAH QLD 4744
Co-ordinates (GDA94)	Latitude: -21.908692 Longitude: 148.089906

Transmitter details	
Assigned frequency	2.12500000 GHz
Bandwidth	10.000000 MHz
Freq. assign. ID	0002309326
Transmitter power	10.00 W
EIRP	724.44 W
Emission designator	10M0D7W

Antenna details	
Antenna ID	91737
Antenna polarisation	S - Slant
Antenna azimuth	
Antenna height (m)	50
Antenna type	Panel (1 sector)

Receiver details	
Assigned frequency	1.93500000 GHz
Bandwidth	10.000000 MHz
Freq. assign. ID	0002309327
Transmitter power	N/A
EIRP	N/A
Emission designator	10M0D7W

Antenna details	
Antenna ID	91737
Antenna polarisation	S - Slant
Antenna azimuth	
Antenna height (m)	50
Antenna type	Panel (1 sector)

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	10013393
Site address	Arrow TWR15, Fitzroy Developmental Rd, Valkyrie QLD
Co-ordinates (GDA94)	Latitude: -22.0714 Longitude: 148.6471

Transmitter details

Assigned frequency	2.11500000 GHz
Bandwidth	10.000000 MHz
Freq. assign. ID	0002309328
Transmitter power	10.00 W
EIRP	724.44 W
Emission designator	10M0D7W

Antenna details

Antenna ID	91737
Antenna polarisation	S - Slant
Antenna azimuth	
Antenna height (m)	50
Antenna type	Panel (1 sector)

Receiver details

Assigned frequency	1.92500000 GHz
Bandwidth	10.000000 MHz
Freq. assign. ID	0002309329
Transmitter power	N/A
EIRP	N/A
Emission designator	10M0D7W

Antenna details

Antenna ID	91737
Antenna polarisation	S - Slant
Antenna azimuth	
Antenna height (m)	50
Antenna type	Panel (1 sector)

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	10013394
Site address	Arrow TWR17, Fitzroy Developmental Rd, Valkyrie QLD
Co-ordinates (GDA94)	Latitude: -22.3258 Longitude: 148.3832

Transmitter details	
Assigned frequency	2.11500000 GHz
Bandwidth	10.000000 MHz
Freq. assign. ID	0002309330
Transmitter power	10.00 W
EIRP	724.44 W
Emission designator	10M0D7W

Antenna details	
Antenna ID	91737
Antenna polarisation	S - Slant
Antenna azimuth	
Antenna height (m)	50
Antenna type	Panel (1 sector)

Receiver details	
Assigned frequency	1.92500000 GHz
Bandwidth	10.000000 MHz
Freq. assign. ID	0002309331
Transmitter power	N/A
EIRP	N/A
Emission designator	10M0D7W

Antenna details	
Antenna ID	91737
Antenna polarisation	S - Slant
Antenna azimuth	
Antenna height (m)	50
Antenna type	Panel (1 sector)

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	10013395
Site address	Arrow TWR19, May Downs Rd , Junee National Park QLD
Co-ordinates (GDA94)	Latitude: -22.6944 Longitude: 148.912

Transmitter details

Assigned frequency	2.11500000 GHz
Bandwidth	10.000000 MHz
Freq. assign. ID	0002309332
Transmitter power	10.00 W
EIRP	724.44 W
Emission designator	10M0D7W

Antenna details

Antenna ID	91737
Antenna polarisation	S - Slant
Antenna azimuth	
Antenna height (m)	50
Antenna type	Panel (1 sector)

Receiver details

Assigned frequency	1.92500000 GHz
Bandwidth	10.000000 MHz
Freq. assign. ID	0002309333
Transmitter power	N/A
EIRP	N/A
Emission designator	10M0D7W

Antenna details

Antenna ID	91737
Antenna polarisation	S - Slant
Antenna azimuth	
Antenna height (m)	50
Antenna type	Panel (1 sector)

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	10013396
Site address	Arrow TWR20, Rolfe Creek Booroondarra Rd, May Downs QLD
Co-ordinates (GDA94)	Latitude: -22.7866 Longitude: 148.6043

Transmitter details

Assigned frequency	2.11500000 GHz
Bandwidth	10.000000 MHz
Freq. assign. ID	0002309334
Transmitter power	10.00 W
EIRP	724.44 W
Emission designator	10M0D7W

Antenna details

Antenna ID	91737
Antenna polarisation	S - Slant
Antenna azimuth	
Antenna height (m)	50
Antenna type	Panel (1 sector)

Receiver details

Assigned frequency	1.92500000 GHz
Bandwidth	10.000000 MHz
Freq. assign. ID	0002309335
Transmitter power	N/A
EIRP	N/A
Emission designator	10M0D7W

Antenna details

Antenna ID	91737
Antenna polarisation	S - Slant
Antenna azimuth	
Antenna height (m)	50
Antenna type	Panel (1 sector)

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	10013397		
Site address	Arrow TWR21, Hills Acc, Jellinbah QLD		
Co-ordinates (GDA94)	Latitude: -23.2902	Longitude:	148.9755

Transmitter details

Assigned frequency	2.14500000 GHz
Bandwidth	10.000000 MHz
Freq. assign. ID	0002309336
Transmitter power	10.00 W
EIRP	724.44 W
Emission designator	10M0D7W

Antenna details

Antenna ID	91737
Antenna polarisation	S - Slant
Antenna azimuth	
Antenna height (m)	50
Antenna type	Panel (1 sector)

Receiver details

Assigned frequency	1.95500000 GHz
Bandwidth	10.000000 MHz
Freq. assign. ID	0002309337
Transmitter power	N/A
EIRP	N/A
Emission designator	10M0D7W

Antenna details

Antenna ID	91737
Antenna polarisation	S - Slant
Antenna azimuth	
Antenna height (m)	50
Antenna type	Panel (1 sector)

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	10013398
Site address	Arrow TWR22, Capricorn Hwy, Blackwater QLD
Co-ordinates (GDA94)	Latitude: -23.5705 Longitude: 148.9413

Transmitter details

Assigned frequency	2.14500000 GHz
Bandwidth	10.000000 MHz
Freq. assign. ID	0002309338
Transmitter power	10.00 W
EIRP	724.44 W
Emission designator	10M0D7W

Antenna details

Antenna ID	91737
Antenna polarisation	S - Slant
Antenna azimuth	
Antenna height (m)	50
Antenna type	Panel (1 sector)

Receiver details

Assigned frequency	1.95500000 GHz
Bandwidth	10.000000 MHz
Freq. assign. ID	0002309339
Transmitter power	N/A
EIRP	N/A
Emission designator	10M0D7W

Antenna details

Antenna ID	91737
Antenna polarisation	S - Slant
Antenna azimuth	
Antenna height (m)	50
Antenna type	Panel (1 sector)

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	10013399
Site address	Arrow TWR23, Diamond Dee Rd, Goowarra QLD
Co-ordinates (GDA94)	Latitude: -23.7188 Longitude: 149.4366

Transmitter details

Assigned frequency	2.11500000 GHz
Bandwidth	10.000000 MHz
Freq. assign. ID	0002309340
Transmitter power	10.00 W
EIRP	724.44 W
Emission designator	10M0D7W

Antenna details

Antenna ID	91737
Antenna polarisation	S - Slant
Antenna azimuth	
Antenna height (m)	50
Antenna type	Panel (1 sector)

Receiver details

Assigned frequency	1.92500000 GHz
Bandwidth	10.000000 MHz
Freq. assign. ID	0002309341
Transmitter power	N/A
EIRP	N/A
Emission designator	10M0D7W

Antenna details

Antenna ID	91737
Antenna polarisation	S - Slant
Antenna azimuth	
Antenna height (m)	50
Antenna type	Panel (1 sector)

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	10013400
Site address	Arrow TWR25, Smiths Rd, Barnard QLD
Co-ordinates (GDA94)	Latitude: -24.0177 Longitude: 149.6758

Transmitter details

Assigned frequency	2.11500000 GHz
Bandwidth	10.000000 MHz
Freq. assign. ID	0002309342
Transmitter power	10.00 W
EIRP	724.44 W
Emission designator	10M0D7W

Antenna details

Antenna ID	91737
Antenna polarisation	S - Slant
Antenna azimuth	
Antenna height (m)	50
Antenna type	Panel (1 sector)

Receiver details

Assigned frequency	1.92500000 GHz
Bandwidth	10.000000 MHz
Freq. assign. ID	0002309343
Transmitter power	N/A
EIRP	N/A
Emission designator	10M0D7W

Antenna details

Antenna ID	91737
Antenna polarisation	S - Slant
Antenna azimuth	
Antenna height (m)	50
Antenna type	Panel (1 sector)