

# Apparatus Licence

Issued by Delegate of the Australian Communications and Media Authority



## Licensee details

Customer ID	20053839
Licensee	TELSTRA LIMITED
Trading name	Telstra - Commercial Engineering - Spectrum Strategy
Licensee address	Locked Bag 3501, BRISBANE, QLD 4001

## Licence details

Licence service	PTS
Licence subservice	PMTS Class B
Licence number	1927917/1
Date of issue	12/10/2023
Date of effect	12/10/2023
Date of expiry	11/10/2025

## 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](mailto:info@acma.gov.au)

ACMA website: [www.acma.gov.au](http://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	7319
Site address	Telstra Exchange, BOOMI NSW 2405
Co-ordinates (GDA94)	Latitude: -28.724291 Longitude: 149.579861

#### Transmitter details

Assigned frequency	2.12250000 GHz
Bandwidth	5.000000 MHz
Freq. assign. ID	0000915078
Transmitter power	60.00 W
EIRP	2.13 kW
Emission designator	3M84F9W

#### Antenna details

Antenna ID	80154
Antenna polarisation	SR - Right-hand slant
Antenna azimuth	
Antenna height (m)	50
Antenna type	Panel (1 sector)-R

#### Receiver details

Assigned frequency	1.93250000 GHz
Bandwidth	5.000000 MHz
Freq. assign. ID	0000915081
Transmitter power	N/A
EIRP	N/A
Emission designator	3M84F9W

#### Antenna details

Antenna ID	80154
Antenna polarisation	SR - Right-hand slant
Antenna azimuth	
Antenna height (m)	50
Antenna type	Panel (1 sector)-R

### Advisory Notes applying to Station 1

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

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

### Special Conditions applying to Station 1

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.

The operation of radiocommunications transmitters under this licence must not cause harmful interference to earth receive apparatus licences issued before the date of approval of this licence.

## 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	7333
Site address	LOT 1 Carnarvon Highway, MUNGINDI NSW 2406
Co-ordinates (GDA94)	Latitude: -28.993369 Longitude: 149.016256

#### Transmitter details

Assigned frequency	2.16250000 GHz
Bandwidth	5.000000 MHz
Freq. assign. ID	0000915082
Transmitter power	60.00 W
EIRP	2.13 kW
Emission designator	3M84F9W

#### Antenna details

Antenna ID	80154
Antenna polarisation	SR - Right-hand slant
Antenna azimuth	
Antenna height (m)	76
Antenna type	Panel (1 sector)-R

#### Receiver details

Assigned frequency	1.97250000 GHz
Bandwidth	5.000000 MHz
Freq. assign. ID	0000915085
Transmitter power	N/A
EIRP	N/A
Emission designator	3M84F9W

#### Antenna details

Antenna ID	80154
Antenna polarisation	SR - Right-hand slant
Antenna azimuth	
Antenna height (m)	76
Antenna type	Panel (1 sector)-R

## **Advisory Notes applying to Station 2**

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.

If interference to a station operated under this licence is caused by a radiocommunications device that is authorised to operate under a spectrum licence, ACMA will consider any dispute from the starting point that the spectrum licence has priority over this licence, irrespective of the date that the spectrum licenced device was first operated.

## **Special Conditions applying to Station 2**

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.

The operation of radiocommunications transmitters under this licence must not cause harmful interference to earth receive apparatus licences issued before the date of approval of this licence.

## 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	7319
Site address	Telstra Exchange, BOOMI NSW 2405
Co-ordinates (GDA94)	Latitude: -28.724291 Longitude: 149.579861

#### Transmitter details

Assigned frequency	2.12750000 GHz
Bandwidth	5.000000 MHz
Freq. assign. ID	0000915086
Transmitter power	60.00 W
EIRP	2.13 kW
Emission designator	3M84F9W

#### Antenna details

Antenna ID	80154
Antenna polarisation	SR - Right-hand slant
Antenna azimuth	
Antenna height (m)	50
Antenna type	Panel (1 sector)-R

#### Receiver details

Assigned frequency	1.93750000 GHz
Bandwidth	5.000000 MHz
Freq. assign. ID	0000915089
Transmitter power	N/A
EIRP	N/A
Emission designator	3M84F9W

#### Antenna details

Antenna ID	80154
Antenna polarisation	SR - Right-hand slant
Antenna azimuth	
Antenna height (m)	50
Antenna type	Panel (1 sector)-R

### Advisory Notes applying to Station 3

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

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

### Special Conditions applying to Station 3

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.

The operation of radiocommunications transmitters under this licence must not cause harmful interference to earth receive apparatus licences issued before the date of approval of this licence.

## 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	7333
Site address	LOT 1 Carnarvon Highway, MUNGINDI NSW 2406
Co-ordinates (GDA94)	Latitude: -28.993369 Longitude: 149.016256

Transmitter details	
Assigned frequency	2.15750000 GHz
Bandwidth	5.000000 MHz
Freq. assign. ID	0000915090
Transmitter power	60.00 W
EIRP	2.13 kW
Emission designator	3M84F9W

Antenna details	
Antenna ID	80154
Antenna polarisation	SR - Right-hand slant
Antenna azimuth	
Antenna height (m)	76
Antenna type	Panel (1 sector)-R

Receiver details	
Assigned frequency	1.96750000 GHz
Bandwidth	5.000000 MHz
Freq. assign. ID	0000915093
Transmitter power	N/A
EIRP	N/A
Emission designator	3M84F9W

Antenna details	
Antenna ID	80154
Antenna polarisation	SR - Right-hand slant
Antenna azimuth	
Antenna height (m)	76
Antenna type	Panel (1 sector)-R

## **Advisory Notes applying to Station 4**

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.

If interference to a station operated under this licence is caused by a radiocommunications device that is authorised to operate under a spectrum licence, ACMA will consider any dispute from the starting point that the spectrum licence has priority over this licence, irrespective of the date that the spectrum licenced device was first operated.

## **Special Conditions applying to Station 4**

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.

The operation of radiocommunications transmitters under this licence must not cause harmful interference to earth receive apparatus licences issued before the date of approval of this licence.

## 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	9009432
Site address	Council Water Tower, 63 Blake St, PALLAMALLAWA NSW 2399
Co-ordinates (GDA94)	Latitude: -29.472025 Longitude: 150.143073

#### Transmitter details

Assigned frequency	2.12750000 GHz
Bandwidth	5.000000 MHz
Freq. assign. ID	0000915094
Transmitter power	60.00 W
EIRP	2.13 kW
Emission designator	3M84F9W

#### Antenna details

Antenna ID	80154
Antenna polarisation	SR - Right-hand slant
Antenna azimuth	
Antenna height (m)	26
Antenna type	Panel (1 sector)-R

#### Receiver details

Assigned frequency	1.93750000 GHz
Bandwidth	5.000000 MHz
Freq. assign. ID	0000915097
Transmitter power	N/A
EIRP	N/A
Emission designator	3M84F9W

#### Antenna details

Antenna ID	80154
Antenna polarisation	SR - Right-hand slant
Antenna azimuth	
Antenna height (m)	26
Antenna type	Panel (1 sector)-R

### Advisory Notes applying to Station 5

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

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

### Special Conditions applying to Station 5

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.

The operation of radiocommunications transmitters under this licence must not cause harmful interference to earth receive apparatus licences issued before the date of approval of this licence.



## 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	7255
Site address	Telstra Exchange, Bank Street, MOREE NSW 2400
Co-ordinates (GDA94)	Latitude: -29.463611 Longitude: 149.843988

Transmitter details	
Assigned frequency	2.12750000 GHz
Bandwidth	5.000000 MHz
Freq. assign. ID	0000915098
Transmitter power	60.00 W
EIRP	2.13 kW
Emission designator	3M84F9W

Antenna details	
Antenna ID	80154
Antenna polarisation	SR - Right-hand slant
Antenna azimuth	
Antenna height (m)	55
Antenna type	Panel (1 sector)-R

Receiver details	
Assigned frequency	1.93750000 GHz
Bandwidth	5.000000 MHz
Freq. assign. ID	0000915101
Transmitter power	N/A
EIRP	N/A
Emission designator	3M84F9W

Antenna details	
Antenna ID	80154
Antenna polarisation	SR - Right-hand slant
Antenna azimuth	
Antenna height (m)	55
Antenna type	Panel (1 sector)-R

### Advisory Notes applying to Station 6

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

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

### Special Conditions applying to Station 6

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.

The operation of radiocommunications transmitters under this licence must not cause harmful interference to earth receive apparatus licences issued before the date of approval of this licence.

## 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	7239
Site address	Telstra Exchange, MIRRIADOOL NSW 2400
Co-ordinates (GDA94)	Latitude: -29.662653 Longitude: 149.326199

#### Transmitter details

Assigned frequency	2.12250000 GHz
Bandwidth	5.000000 MHz
Freq. assign. ID	0000915102
Transmitter power	60.00 W
EIRP	2.13 kW
Emission designator	3M84F9W

#### Antenna details

Antenna ID	80154
Antenna polarisation	SR - Right-hand slant
Antenna azimuth	
Antenna height (m)	70
Antenna type	Panel (1 sector)-R

#### Receiver details

Assigned frequency	1.93250000 GHz
Bandwidth	5.000000 MHz
Freq. assign. ID	0000915105
Transmitter power	N/A
EIRP	N/A
Emission designator	3M84F9W

#### Antenna details

Antenna ID	80154
Antenna polarisation	SR - Right-hand slant
Antenna azimuth	
Antenna height (m)	70
Antenna type	Panel (1 sector)-R

### Advisory Notes applying to Station 7

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

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

### Special Conditions applying to Station 7

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.

The operation of radiocommunications transmitters under this licence must not cause harmful interference to earth receive apparatus licences issued before the date of approval of this licence.

## 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	7321
Site address	Telstra Exchange, Weemelah Road, GARAH NSW 2405
Co-ordinates (GDA94)	Latitude: -29.065359 Longitude: 149.632996

#### Transmitter details

Assigned frequency	2.12750000 GHz
Bandwidth	5.000000 MHz
Freq. assign. ID	0000915106
Transmitter power	60.00 W
EIRP	2.13 kW
Emission designator	3M84F9W

#### Antenna details

Antenna ID	80154
Antenna polarisation	SR - Right-hand slant
Antenna azimuth	
Antenna height (m)	120
Antenna type	Panel (1 sector)-R

#### Receiver details

Assigned frequency	1.93750000 GHz
Bandwidth	5.000000 MHz
Freq. assign. ID	0000915109
Transmitter power	N/A
EIRP	N/A
Emission designator	3M84F9W

#### Antenna details

Antenna ID	80154
Antenna polarisation	SR - Right-hand slant
Antenna azimuth	
Antenna height (m)	120
Antenna type	Panel (1 sector)-R

### Advisory Notes applying to Station 8

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

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

### Special Conditions applying to Station 8

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.

The operation of radiocommunications transmitters under this licence must not cause harmful interference to earth receive apparatus licences issued before the date of approval of this licence.

## 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	7239
Site address	Telstra Exchange, MIRRIADOOL NSW 2400
Co-ordinates (GDA94)	Latitude: -29.662653 Longitude: 149.326199

#### Transmitter details

Assigned frequency	2.12750000 GHz
Bandwidth	5.000000 MHz
Freq. assign. ID	0000915110
Transmitter power	60.00 W
EIRP	2.13 kW
Emission designator	3M84F9W

#### Antenna details

Antenna ID	80154
Antenna polarisation	SR - Right-hand slant
Antenna azimuth	
Antenna height (m)	70
Antenna type	Panel (1 sector)-R

#### Receiver details

Assigned frequency	1.93750000 GHz
Bandwidth	5.000000 MHz
Freq. assign. ID	0000915113
Transmitter power	N/A
EIRP	N/A
Emission designator	3M84F9W

#### Antenna details

Antenna ID	80154
Antenna polarisation	SR - Right-hand slant
Antenna azimuth	
Antenna height (m)	70
Antenna type	Panel (1 sector)-R

### Advisory Notes applying to Station 9

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

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

### Special Conditions applying to Station 9

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.

The operation of radiocommunications transmitters under this licence must not cause harmful interference to earth receive apparatus licences issued before the date of approval of this licence.

## 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	7321
Site address	Telstra Exchange, Weemelah Road, GARAH NSW 2405
Co-ordinates (GDA94)	Latitude: -29.065359 Longitude: 149.632996

#### Transmitter details

Assigned frequency	2.12250000 GHz
Bandwidth	5.000000 MHz
Freq. assign. ID	0000915114
Transmitter power	60.00 W
EIRP	2.13 kW
Emission designator	3M84F9W

#### Antenna details

Antenna ID	80154
Antenna polarisation	SR - Right-hand slant
Antenna azimuth	
Antenna height (m)	120
Antenna type	Panel (1 sector)-R

#### Receiver details

Assigned frequency	1.93250000 GHz
Bandwidth	5.000000 MHz
Freq. assign. ID	0000915117
Transmitter power	N/A
EIRP	N/A
Emission designator	3M84F9W

#### Antenna details

Antenna ID	80154
Antenna polarisation	SR - Right-hand slant
Antenna azimuth	
Antenna height (m)	120
Antenna type	Panel (1 sector)-R

### Advisory Notes applying to Station 10

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

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

### Special Conditions applying to Station 10

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.

The operation of radiocommunications transmitters under this licence must not cause harmful interference to earth receive apparatus licences issued before the date of approval of this licence.

## 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	204340
Site address	Vodafone Site, Wallam Copp Creek Rd, MOREE NSW 2400
Co-ordinates (GDA94)	Latitude: -29.301817 Longitude: 149.988519

#### Transmitter details

Assigned frequency	2.12250000 GHz
Bandwidth	5.000000 MHz
Freq. assign. ID	0000915118
Transmitter power	60.00 W
EIRP	2.13 kW
Emission designator	3M84F9W

#### Antenna details

Antenna ID	80154
Antenna polarisation	SR - Right-hand slant
Antenna azimuth	
Antenna height (m)	44
Antenna type	Panel (1 sector)-R

#### Receiver details

Assigned frequency	1.93250000 GHz
Bandwidth	5.000000 MHz
Freq. assign. ID	0000915121
Transmitter power	N/A
EIRP	N/A
Emission designator	3M84F9W

#### Antenna details

Antenna ID	80154
Antenna polarisation	SR - Right-hand slant
Antenna azimuth	
Antenna height (m)	44
Antenna type	Panel (1 sector)-R

### Advisory Notes applying to Station 11

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

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

### Special Conditions applying to Station 11

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.

The operation of radiocommunications transmitters under this licence must not cause harmful interference to earth receive apparatus licences issued before the date of approval of this licence.

## 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	55192
Site address	Telstra Rooftop Site, 18710 Newell Hwy, GURLEY NSW 2398
Co-ordinates (GDA94)	Latitude: -29.7338 Longitude: 149.800447

#### Transmitter details

Assigned frequency	2.12250000 GHz
Bandwidth	5.000000 MHz
Freq. assign. ID	0000915122
Transmitter power	60.00 W
EIRP	2.13 kW
Emission designator	3M84F9W

#### Antenna details

Antenna ID	80154
Antenna polarisation	SR - Right-hand slant
Antenna azimuth	
Antenna height (m)	43
Antenna type	Panel (1 sector)-R

#### Receiver details

Assigned frequency	1.93250000 GHz
Bandwidth	5.000000 MHz
Freq. assign. ID	0000915125
Transmitter power	N/A
EIRP	N/A
Emission designator	3M84F9W

#### Antenna details

Antenna ID	80154
Antenna polarisation	SR - Right-hand slant
Antenna azimuth	
Antenna height (m)	43
Antenna type	Panel (1 sector)-R

### Advisory Notes applying to Station 12

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

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

### Special Conditions applying to Station 12

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.

The operation of radiocommunications transmitters under this licence must not cause harmful interference to earth receive apparatus licences issued before the date of approval of this licence.

## 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	7255
Site address	Telstra Exchange, Bank Street, MOREE NSW 2400
Co-ordinates (GDA94)	Latitude: -29.463611 Longitude: 149.843988

#### Transmitter details

Assigned frequency	2.12250000 GHz
Bandwidth	5.000000 MHz
Freq. assign. ID	0000915126
Transmitter power	60.00 W
EIRP	2.13 kW
Emission designator	3M84F9W

#### Antenna details

Antenna ID	80154
Antenna polarisation	SR - Right-hand slant
Antenna azimuth	
Antenna height (m)	55
Antenna type	Panel (1 sector)-R

#### Receiver details

Assigned frequency	1.93250000 GHz
Bandwidth	5.000000 MHz
Freq. assign. ID	0000915129
Transmitter power	N/A
EIRP	N/A
Emission designator	3M84F9W

#### Antenna details

Antenna ID	80154
Antenna polarisation	SR - Right-hand slant
Antenna azimuth	
Antenna height (m)	55
Antenna type	Panel (1 sector)-R

### Advisory Notes applying to Station 13

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

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

### Special Conditions applying to Station 13

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.

The operation of radiocommunications transmitters under this licence must not cause harmful interference to earth receive apparatus licences issued before the date of approval of this licence.



## 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	204340
Site address	Vodafone Site, Wallam Copp Creek Rd, MOREE NSW 2400
Co-ordinates (GDA94)	Latitude: -29.301817 Longitude: 149.988519

#### Transmitter details

Assigned frequency	2.12750000 GHz
Bandwidth	5.000000 MHz
Freq. assign. ID	0000915130
Transmitter power	60.00 W
EIRP	2.13 kW
Emission designator	3M84F9W

#### Antenna details

Antenna ID	80154
Antenna polarisation	SR - Right-hand slant
Antenna azimuth	
Antenna height (m)	44
Antenna type	Panel (1 sector)-R

#### Receiver details

Assigned frequency	1.93750000 GHz
Bandwidth	5.000000 MHz
Freq. assign. ID	0000915133
Transmitter power	N/A
EIRP	N/A
Emission designator	3M84F9W

#### Antenna details

Antenna ID	80154
Antenna polarisation	SR - Right-hand slant
Antenna azimuth	
Antenna height (m)	44
Antenna type	Panel (1 sector)-R

### Advisory Notes applying to Station 14

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

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

### Special Conditions applying to Station 14

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.

The operation of radiocommunications transmitters under this licence must not cause harmful interference to earth receive apparatus licences issued before the date of approval of this licence.

## 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	55192
Site address	Telstra Rooftop Site, 18710 Newell Hwy, GURLEY NSW 2398
Co-ordinates (GDA94)	Latitude: -29.7338 Longitude: 149.800447

#### Transmitter details

Assigned frequency	2.12750000 GHz
Bandwidth	5.000000 MHz
Freq. assign. ID	0000915134
Transmitter power	60.00 W
EIRP	2.13 kW
Emission designator	3M84F9W

#### Antenna details

Antenna ID	80154
Antenna polarisation	SR - Right-hand slant
Antenna azimuth	
Antenna height (m)	43
Antenna type	Panel (1 sector)-R

#### Receiver details

Assigned frequency	1.93750000 GHz
Bandwidth	5.000000 MHz
Freq. assign. ID	0000915137
Transmitter power	N/A
EIRP	N/A
Emission designator	3M84F9W

#### Antenna details

Antenna ID	80154
Antenna polarisation	SR - Right-hand slant
Antenna azimuth	
Antenna height (m)	43
Antenna type	Panel (1 sector)-R

### Advisory Notes applying to Station 15

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

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

### Special Conditions applying to Station 15

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.

The operation of radiocommunications transmitters under this licence must not cause harmful interference to earth receive apparatus licences issued before the date of approval of this licence.

## 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	9009432
Site address	Council Water Tower, 63 Blake St, PALLAMALLAWA NSW 2399
Co-ordinates (GDA94)	Latitude: -29.472025 Longitude: 150.143073

#### Transmitter details

Assigned frequency	2.12250000 GHz
Bandwidth	5.000000 MHz
Freq. assign. ID	0000915138
Transmitter power	60.00 W
EIRP	2.13 kW
Emission designator	3M84F9W

#### Antenna details

Antenna ID	80154
Antenna polarisation	SR - Right-hand slant
Antenna azimuth	
Antenna height (m)	26
Antenna type	Panel (1 sector)-R

#### Receiver details

Assigned frequency	1.93250000 GHz
Bandwidth	5.000000 MHz
Freq. assign. ID	0000915141
Transmitter power	N/A
EIRP	N/A
Emission designator	3M84F9W

#### Antenna details

Antenna ID	80154
Antenna polarisation	SR - Right-hand slant
Antenna azimuth	
Antenna height (m)	26
Antenna type	Panel (1 sector)-R

### Advisory Notes applying to Station 16

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

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

### Special Conditions applying to Station 16

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.

The operation of radiocommunications transmitters under this licence must not cause harmful interference to earth receive apparatus licences issued before the date of approval of this licence.

## 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	7052
Site address	Telstra Radio Terminal, WENNA NSW 2400
Co-ordinates (GDA94)	Latitude: -29.453657 Longitude: 149.044841

#### Transmitter details

Assigned frequency	2.12750000 GHz
Bandwidth	5.000000 MHz
Freq. assign. ID	0000915142
Transmitter power	60.00 W
EIRP	2.13 kW
Emission designator	3M84F9W

#### Antenna details

Antenna ID	80154
Antenna polarisation	SR - Right-hand slant
Antenna azimuth	
Antenna height (m)	100
Antenna type	Panel (1 sector)-R

#### Receiver details

Assigned frequency	1.93750000 GHz
Bandwidth	5.000000 MHz
Freq. assign. ID	0000915145
Transmitter power	N/A
EIRP	N/A
Emission designator	3M84F9W

#### Antenna details

Antenna ID	80154
Antenna polarisation	SR - Right-hand slant
Antenna azimuth	
Antenna height (m)	100
Antenna type	Panel (1 sector)-R

### Advisory Notes applying to Station 17

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

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

### Special Conditions applying to Station 17

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.

The operation of radiocommunications transmitters under this licence must not cause harmful interference to earth receive apparatus licences issued before the date of approval of this licence.

## 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	7241
Site address	Telstra Site, cnr Newell Hwy & Marlow Rd, TULLOONA NSW 2400
Co-ordinates (GDA94)	Latitude: -28.93415 Longitude: 150.10899

Transmitter details	
Assigned frequency	2.12750000 GHz
Bandwidth	5.000000 MHz
Freq. assign. ID	0000915146
Transmitter power	60.00 W
EIRP	2.13 kW
Emission designator	3M84F9W

Antenna details	
Antenna ID	80154
Antenna polarisation	SR - Right-hand slant
Antenna azimuth	
Antenna height (m)	20
Antenna type	Panel (1 sector)-R

Receiver details	
Assigned frequency	1.93750000 GHz
Bandwidth	5.000000 MHz
Freq. assign. ID	0000915149
Transmitter power	N/A
EIRP	N/A
Emission designator	3M84F9W

Antenna details	
Antenna ID	80154
Antenna polarisation	SR - Right-hand slant
Antenna azimuth	
Antenna height (m)	20
Antenna type	Panel (1 sector)-R

### Advisory Notes applying to Station 18

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

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

### Special Conditions applying to Station 18

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.

The operation of radiocommunications transmitters under this licence must not cause harmful interference to earth receive apparatus licences issued before the date of approval of this licence.

## 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	7247
Site address	Telstra site, WATERCOURSE NSW 2400
Co-ordinates (GDA94)	Latitude: -29.445375 Longitude: 149.570859

#### Transmitter details

Assigned frequency	2.12250000 GHz
Bandwidth	5.000000 MHz
Freq. assign. ID	0000915150
Transmitter power	60.00 W
EIRP	2.13 kW
Emission designator	3M84F9W

#### Antenna details

Antenna ID	80154
Antenna polarisation	SR - Right-hand slant
Antenna azimuth	
Antenna height (m)	86
Antenna type	Panel (1 sector)-R

#### Receiver details

Assigned frequency	1.93250000 GHz
Bandwidth	5.000000 MHz
Freq. assign. ID	0000915153
Transmitter power	N/A
EIRP	N/A
Emission designator	3M84F9W

#### Antenna details

Antenna ID	80154
Antenna polarisation	SR - Right-hand slant
Antenna azimuth	
Antenna height (m)	86
Antenna type	Panel (1 sector)-R

### Advisory Notes applying to Station 19

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

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

### Special Conditions applying to Station 19

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.

The operation of radiocommunications transmitters under this licence must not cause harmful interference to earth receive apparatus licences issued before the date of approval of this licence.

## 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	7241
Site address	Telstra Site, cnr Newell Hwy & Marlow Rd, TULLOONA NSW 2400
Co-ordinates (GDA94)	Latitude: -28.93415 Longitude: 150.10899

#### Transmitter details

Assigned frequency	2.12250000 GHz
Bandwidth	5.000000 MHz
Freq. assign. ID	0000915154
Transmitter power	60.00 W
EIRP	2.13 kW
Emission designator	3M84F9W

#### Antenna details

Antenna ID	80154
Antenna polarisation	SR - Right-hand slant
Antenna azimuth	
Antenna height (m)	20
Antenna type	Panel (1 sector)-R

#### Receiver details

Assigned frequency	1.93250000 GHz
Bandwidth	5.000000 MHz
Freq. assign. ID	0000915157
Transmitter power	N/A
EIRP	N/A
Emission designator	3M84F9W

#### Antenna details

Antenna ID	80154
Antenna polarisation	SR - Right-hand slant
Antenna azimuth	
Antenna height (m)	20
Antenna type	Panel (1 sector)-R

### Advisory Notes applying to Station 20

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

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

### Special Conditions applying to Station 20

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.

The operation of radiocommunications transmitters under this licence must not cause harmful interference to earth receive apparatus licences issued before the date of approval of this licence.

## 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	7247
Site address	Telstra site, WATERCOURSE NSW 2400
Co-ordinates (GDA94)	Latitude: -29.445375 Longitude: 149.570859

#### Transmitter details

Assigned frequency	2.12750000 GHz
Bandwidth	5.000000 MHz
Freq. assign. ID	0000915158
Transmitter power	60.00 W
EIRP	2.13 kW
Emission designator	3M84F9W

#### Antenna details

Antenna ID	80154
Antenna polarisation	SR - Right-hand slant
Antenna azimuth	
Antenna height (m)	86
Antenna type	Panel (1 sector)-R

#### Receiver details

Assigned frequency	1.93750000 GHz
Bandwidth	5.000000 MHz
Freq. assign. ID	0000915161
Transmitter power	N/A
EIRP	N/A
Emission designator	3M84F9W

#### Antenna details

Antenna ID	80154
Antenna polarisation	SR - Right-hand slant
Antenna azimuth	
Antenna height (m)	86
Antenna type	Panel (1 sector)-R

### Advisory Notes applying to Station 21

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

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

### Special Conditions applying to Station 21

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.

The operation of radiocommunications transmitters under this licence must not cause harmful interference to earth receive apparatus licences issued before the date of approval of this licence.



## 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	7052
Site address	Telstra Radio Terminal, WENNA NSW 2400
Co-ordinates (GDA94)	Latitude: -29.453657 Longitude: 149.044841

Transmitter details	
Assigned frequency	2.12250000 GHz
Bandwidth	5.000000 MHz
Freq. assign. ID	0000915162
Transmitter power	60.00 W
EIRP	2.13 kW
Emission designator	3M84F9W

Antenna details	
Antenna ID	80154
Antenna polarisation	SR - Right-hand slant
Antenna azimuth	
Antenna height (m)	100
Antenna type	Panel (1 sector)-R

Receiver details	
Assigned frequency	1.93250000 GHz
Bandwidth	5.000000 MHz
Freq. assign. ID	0000915165
Transmitter power	N/A
EIRP	N/A
Emission designator	3M84F9W

Antenna details	
Antenna ID	80154
Antenna polarisation	SR - Right-hand slant
Antenna azimuth	
Antenna height (m)	100
Antenna type	Panel (1 sector)-R

### Advisory Notes applying to Station 22

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

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

### Special Conditions applying to Station 22

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.

The operation of radiocommunications transmitters under this licence must not cause harmful interference to earth receive apparatus licences issued before the date of approval of this licence.