

# 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	1927686/1
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	9008865
Site address	Rio Tinto Workshop, 9 km NNE of Wickham, CAPE LAMBERT WA 6718
Co-ordinates (GDA94)	Latitude: -20.60092 Longitude: 117.171812

#### Transmitter details

Assigned frequency	2.15750000 GHz
Bandwidth	5.000000 MHz
Freq. assign. ID	0000907386
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)	15
Antenna type	Panel (1 sector)-R

#### Receiver details

Assigned frequency	1.96750000 GHz
Bandwidth	5.000000 MHz
Freq. assign. ID	0000907389
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)	15
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	139136
Site address	Lot 367, Central Avenue, DAMPIER WA 6713
Co-ordinates (GDA94)	Latitude: -20.662088 Longitude: 116.712016

#### Transmitter details

Assigned frequency	2.15750000 GHz
Bandwidth	5.000000 MHz
Freq. assign. ID	0000907390
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	1.96750000 GHz
Bandwidth	5.000000 MHz
Freq. assign. ID	0000907393
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 2

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 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	9008865
Site address	Rio Tinto Workshop, 9 km NNE of Wickham, CAPE LAMBERT WA 6718
Co-ordinates (GDA94)	Latitude: -20.60092 Longitude: 117.171812

#### Transmitter details

Assigned frequency	2.16250000 GHz
Bandwidth	5.000000 MHz
Freq. assign. ID	0000907394
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)	15
Antenna type	Panel (1 sector)-R

#### Receiver details

Assigned frequency	1.97250000 GHz
Bandwidth	5.000000 MHz
Freq. assign. ID	0000907397
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)	15
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	35722
Site address	Telstra Structure, Mt Wongama, DAMPIER WA 6715
Co-ordinates (GDA94)	Latitude: -20.580256 Longitude: 116.808757

#### Transmitter details

Assigned frequency	2.15750000 GHz
Bandwidth	5.000000 MHz
Freq. assign. ID	0000907398
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)	37
Antenna type	Panel (1 sector)-R

#### Receiver details

Assigned frequency	1.96750000 GHz
Bandwidth	5.000000 MHz
Freq. assign. ID	0000907401
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)	37
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:

- 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 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	139133
Site address	1.5 km N Fortescue River Rd, CAPE PRESTON WA 6714
Co-ordinates (GDA94)	Latitude: -21.051988 Longitude: 116.144407

#### Transmitter details

Assigned frequency	2.16250000 GHz
Bandwidth	5.000000 MHz
Freq. assign. ID	0000907404
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	1.97250000 GHz
Bandwidth	5.000000 MHz
Freq. assign. ID	0000907409
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 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	35722
Site address	Telstra Structure, Mt Wongama, DAMPIER WA 6715
Co-ordinates (GDA94)	Latitude: -20.580256 Longitude: 116.808757

#### Transmitter details

Assigned frequency	2.16250000 GHz
Bandwidth	5.000000 MHz
Freq. assign. ID	0000907410
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)	37
Antenna type	Panel (1 sector)-R

#### Receiver details

Assigned frequency	1.97250000 GHz
Bandwidth	5.000000 MHz
Freq. assign. ID	0000907413
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)	37
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	49138
Site address	East Intercourse Island Stockpile Sub, DAMPIER WA 6714
Co-ordinates (GDA94)	Latitude: -20.660453 Longitude: 116.676813

#### Transmitter details

Assigned frequency	2.15750000 GHz
Bandwidth	5.000000 MHz
Freq. assign. ID	0000907414
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)	16
Antenna type	Panel (1 sector)-R

#### Receiver details

Assigned frequency	1.96750000 GHz
Bandwidth	5.000000 MHz
Freq. assign. ID	0000907417
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)	16
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	9010225
Site address	Telstra RBS Site, Bulgarra Oval off Searipple Rd, BULGARRA WA 6714
Co-ordinates (GDA94)	Latitude: -20.727411 Longitude: 116.865891

Transmitter details	
Assigned frequency	2.16250000 GHz
Bandwidth	5.000000 MHz
Freq. assign. ID	0000907418
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)	27
Antenna type	Panel (1 sector)-R

Receiver details	
Assigned frequency	1.97250000 GHz
Bandwidth	5.000000 MHz
Freq. assign. ID	0000907421
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)	27
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	139136
Site address	Lot 367, Central Avenue, DAMPIER WA 6713
Co-ordinates (GDA94)	Latitude: -20.662088 Longitude: 116.712016

#### Transmitter details

Assigned frequency	2.16250000 GHz
Bandwidth	5.000000 MHz
Freq. assign. ID	0000907422
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	1.97250000 GHz
Bandwidth	5.000000 MHz
Freq. assign. ID	0000907425
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 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	32113
Site address	Telstra Site Katrins Hill Near Airport, DAMPIER WA 6714
Co-ordinates (GDA94)	Latitude: -20.669291 Longitude: 116.741275

#### Transmitter details

Assigned frequency	2.15750000 GHz
Bandwidth	5.000000 MHz
Freq. assign. ID	0000907426
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)	36
Antenna type	Panel (1 sector)-R

#### Receiver details

Assigned frequency	1.96750000 GHz
Bandwidth	5.000000 MHz
Freq. assign. ID	0000907429
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)	36
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	9010225
Site address	Telstra RBS Site, Bulgarra Oval off Searipple Rd, BULGARRA WA 6714
Co-ordinates (GDA94)	Latitude: -20.727411 Longitude: 116.865891

Transmitter details	
Assigned frequency	2.15750000 GHz
Bandwidth	5.000000 MHz
Freq. assign. ID	0000907430
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)	27
Antenna type	Panel (1 sector)-R

Receiver details	
Assigned frequency	1.96750000 GHz
Bandwidth	5.000000 MHz
Freq. assign. ID	0000907433
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)	27
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	32113
Site address	Telstra Site Katrins Hill Near Airport, DAMPIER WA 6714
Co-ordinates (GDA94)	Latitude: -20.669291 Longitude: 116.741275

#### Transmitter details

Assigned frequency	2.16250000 GHz
Bandwidth	5.000000 MHz
Freq. assign. ID	0000907434
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)	36
Antenna type	Panel (1 sector)-R

#### Receiver details

Assigned frequency	1.97250000 GHz
Bandwidth	5.000000 MHz
Freq. assign. ID	0000907437
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)	36
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	139133
Site address	1.5 km N Fortescue River Rd, CAPE PRESTON WA 6714
Co-ordinates (GDA94)	Latitude: -21.051988 Longitude: 116.144407

#### Transmitter details

Assigned frequency	2.15750000 GHz
Bandwidth	5.000000 MHz
Freq. assign. ID	0000907438
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	1.96750000 GHz
Bandwidth	5.000000 MHz
Freq. assign. ID	0000907441
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 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	601136
Site address	Telstra Site, 1017 Coolawanyah St, KARRATHA WA 6714
Co-ordinates (GDA94)	Latitude: -20.77116 Longitude: 116.864642

#### Transmitter details

Assigned frequency	2.15750000 GHz
Bandwidth	5.000000 MHz
Freq. assign. ID	0000907442
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)	30
Antenna type	Panel (1 sector)-R

#### Receiver details

Assigned frequency	1.96750000 GHz
Bandwidth	5.000000 MHz
Freq. assign. ID	0000907445
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)	30
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	9007831
Site address	Citec Tower, off De Gray Mullewa Stock Route, 80 km SW of, KARRATHA WA 6714
Co-ordinates (GDA94)	Latitude: -21.070252 Longitude: 116.163603

#### Transmitter details

Assigned frequency	2.16250000 GHz
Bandwidth	5.000000 MHz
Freq. assign. ID	0000907446
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)	39
Antenna type	Panel (1 sector)-R

#### Receiver details

Assigned frequency	1.97250000 GHz
Bandwidth	5.000000 MHz
Freq. assign. ID	0000907449
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)	39
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	600447
Site address	Optus Tower, Jaburara Heritage Trail Lookout Site, KARRATHA WA 6714
Co-ordinates (GDA94)	Latitude: -20.749047 Longitude: 116.831828

#### Transmitter details

Assigned frequency	2.16250000 GHz
Bandwidth	5.000000 MHz
Freq. assign. ID	0000907450
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)	17
Antenna type	Panel (1 sector)-R

#### Receiver details

Assigned frequency	1.97250000 GHz
Bandwidth	5.000000 MHz
Freq. assign. ID	0000907453
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)	17
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	600447
Site address	Optus Tower, Jaburara Heritage Trail Lookout Site, KARRATHA WA 6714
Co-ordinates (GDA94)	Latitude: -20.749047 Longitude: 116.831828

Transmitter details	
Assigned frequency	2.15750000 GHz
Bandwidth	5.000000 MHz
Freq. assign. ID	0000907454
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)	17
Antenna type	Panel (1 sector)-R

Receiver details	
Assigned frequency	1.96750000 GHz
Bandwidth	5.000000 MHz
Freq. assign. ID	0000907457
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)	17
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	9010223
Site address	Telstra RBS Site, Cemetery off Madigans Rd, GAP RIDGE WA 6714
Co-ordinates (GDA94)	Latitude: -20.74918 Longitude: 116.78939

Transmitter details	
Assigned frequency	2.16250000 GHz
Bandwidth	5.000000 MHz
Freq. assign. ID	0000907458
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)	27
Antenna type	Panel (1 sector)-R

Receiver details	
Assigned frequency	1.97250000 GHz
Bandwidth	5.000000 MHz
Freq. assign. ID	0000907461
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)	27
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	9010466
Site address	Telstra Site Fortescue Roadhouse Village, North West Coastal Hwy, MARDIE WA 6714
Co-ordinates (GDA94)	Latitude: -21.294284 Longitude: 116.136728

Transmitter details	
Assigned frequency	2.15750000 GHz
Bandwidth	5.000000 MHz
Freq. assign. ID	0000907462
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)	21
Antenna type	Panel (1 sector)-R

Receiver details	
Assigned frequency	1.96750000 GHz
Bandwidth	5.000000 MHz
Freq. assign. ID	0000907465
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)	21
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	601136
Site address	Telstra Site, 1017 Coolawanyah St, KARRATHA WA 6714
Co-ordinates (GDA94)	Latitude: -20.77116 Longitude: 116.864642

Transmitter details	
Assigned frequency	2.16250000 GHz
Bandwidth	5.000000 MHz
Freq. assign. ID	0000907466
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)	30
Antenna type	Panel (1 sector)-R

Receiver details	
Assigned frequency	1.97250000 GHz
Bandwidth	5.000000 MHz
Freq. assign. ID	0000907469
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)	30
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	49138
Site address	East Intercourse Island Stockpile Sub, DAMPIER WA 6714
Co-ordinates (GDA94)	Latitude: -20.660453 Longitude: 116.676813

#### Transmitter details

Assigned frequency	2.16250000 GHz
Bandwidth	5.000000 MHz
Freq. assign. ID	0000907470
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)	16
Antenna type	Panel (1 sector)-R

#### Receiver details

Assigned frequency	1.97250000 GHz
Bandwidth	5.000000 MHz
Freq. assign. ID	0000907473
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)	16
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	36710
Site address	Telstra Exchange, KARRATHA WA 6714
Co-ordinates (GDA94)	Latitude: -20.735115 Longitude: 116.842554

#### Transmitter details

Assigned frequency	2.15750000 GHz
Bandwidth	5.000000 MHz
Freq. assign. ID	0000907474
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)	42
Antenna type	Panel (1 sector)-R

#### Receiver details

Assigned frequency	1.96750000 GHz
Bandwidth	5.000000 MHz
Freq. assign. ID	0000907477
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)	42
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.

## 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	9010466
Site address	Telstra Site Fortescue Roadhouse Village, North West Coastal Hwy, MARDIE WA 6714
Co-ordinates (GDA94)	Latitude: -21.294284 Longitude: 116.136728

Transmitter details	
Assigned frequency	2.16250000 GHz
Bandwidth	5.000000 MHz
Freq. assign. ID	0000907478
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)	21
Antenna type	Panel (1 sector)-R

Receiver details	
Assigned frequency	1.97250000 GHz
Bandwidth	5.000000 MHz
Freq. assign. ID	0000907481
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)	21
Antenna type	Panel (1 sector)-R

### Advisory Notes applying to Station 23

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 23

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 24:

#### Site details

Site ID	9010223
Site address	Telstra RBS Site, Cemetery off Madigans Rd, GAP RIDGE WA 6714
Co-ordinates (GDA94)	Latitude: -20.74918 Longitude: 116.78939

#### Transmitter details

Assigned frequency	2.15750000 GHz
Bandwidth	5.000000 MHz
Freq. assign. ID	0000907482
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)	27
Antenna type	Panel (1 sector)-R

#### Receiver details

Assigned frequency	1.96750000 GHz
Bandwidth	5.000000 MHz
Freq. assign. ID	0000907485
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)	27
Antenna type	Panel (1 sector)-R

### Advisory Notes applying to Station 24

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 24

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 25:

Site details	
Site ID	9007831
Site address	Citec Tower, off De Gray Mullewa Stock Route, 80 km SW of, KARRATHA WA 6714
Co-ordinates (GDA94)	Latitude: -21.070252 Longitude: 116.163603

Transmitter details	
Assigned frequency	2.15750000 GHz
Bandwidth	5.000000 MHz
Freq. assign. ID	0000907486
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)	39
Antenna type	Panel (1 sector)-R

Receiver details	
Assigned frequency	1.96750000 GHz
Bandwidth	5.000000 MHz
Freq. assign. ID	0000907489
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)	39
Antenna type	Panel (1 sector)-R

### Advisory Notes applying to Station 25

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 25

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 26:

#### Site details

Site ID	36709
Site address	Telstra Dixon Microwave Site, ROEBOURNE WA 6720
Co-ordinates (GDA94)	Latitude: -20.705232 Longitude: 117.122905

#### Transmitter details

Assigned frequency	2.15750000 GHz
Bandwidth	5.000000 MHz
Freq. assign. ID	0000907490
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	1.96750000 GHz
Bandwidth	5.000000 MHz
Freq. assign. ID	0000907493
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 26

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 26

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 27:

#### Site details

Site ID	36709
Site address	Telstra Dixon Microwave Site, ROEBOURNE WA 6720
Co-ordinates (GDA94)	Latitude: -20.705232 Longitude: 117.122905

#### Transmitter details

Assigned frequency	2.16250000 GHz
Bandwidth	5.000000 MHz
Freq. assign. ID	0000907494
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	1.97250000 GHz
Bandwidth	5.000000 MHz
Freq. assign. ID	0000907497
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 27

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 27

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 28:

#### Site details

Site ID	36710
Site address	Telstra Exchange, KARRATHA WA 6714
Co-ordinates (GDA94)	Latitude: -20.735115 Longitude: 116.842554

#### Transmitter details

Assigned frequency	2.16250000 GHz
Bandwidth	5.000000 MHz
Freq. assign. ID	0000907498
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)	42
Antenna type	Panel (1 sector)-R

#### Receiver details

Assigned frequency	1.97250000 GHz
Bandwidth	5.000000 MHz
Freq. assign. ID	0000907501
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)	42
Antenna type	Panel (1 sector)-R

### Advisory Notes applying to Station 28

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 28

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 29:

#### Site details

Site ID	38307
Site address	KP5 Robe River Mining Comms Site, off Cape Lambert Rd 5km N of Wickham, WICKHAM WA 6718
Co-ordinates (GDA94)	Latitude: -20.632696 Longitude: 117.152738

#### Transmitter details

Assigned frequency	2.15750000 GHz
Bandwidth	5.000000 MHz
Freq. assign. ID	0000907502
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)	51
Antenna type	Panel (1 sector)-R

#### Receiver details

Assigned frequency	1.96750000 GHz
Bandwidth	5.000000 MHz
Freq. assign. ID	0000907505
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)	51
Antenna type	Panel (1 sector)-R

### Advisory Notes applying to Station 29

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 29

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 30:

#### Site details

Site ID	9010224
Site address	Telstra RBS Site, Millars Well Oval off Tilbrook CI, NICKOL WA 6714
Co-ordinates (GDA94)	Latitude: -20.738001 Longitude: 116.8176

#### Transmitter details

Assigned frequency	2.16250000 GHz
Bandwidth	5.000000 MHz
Freq. assign. ID	0000907506
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)	27
Antenna type	Panel (1 sector)-R

#### Receiver details

Assigned frequency	1.97250000 GHz
Bandwidth	5.000000 MHz
Freq. assign. ID	0000907509
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)	27
Antenna type	Panel (1 sector)-R

### Advisory Notes applying to Station 30

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 30

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 31:

#### Site details

Site ID	151680
Site address	Broadcast Australia Site, off Fisher Drive, MOUNT WELCOME WA 6718
Co-ordinates (GDA94)	Latitude: -20.771858 Longitude: 117.142001

#### Transmitter details

Assigned frequency	2.15750000 GHz
Bandwidth	5.000000 MHz
Freq. assign. ID	0000907510
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)	23
Antenna type	Panel (1 sector)-R

#### Receiver details

Assigned frequency	1.96750000 GHz
Bandwidth	5.000000 MHz
Freq. assign. ID	0000907513
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)	23
Antenna type	Panel (1 sector)-R

### Advisory Notes applying to Station 31

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 31

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 32:

Site details	
Site ID	38307
Site address	KP5 Robe River Mining Comms Site, off Cape Lambert Rd 5km N of Wickham, WICKHAM WA 6718
Co-ordinates (GDA94)	Latitude: -20.632696 Longitude: 117.152738

Transmitter details	
Assigned frequency	2.16250000 GHz
Bandwidth	5.000000 MHz
Freq. assign. ID	0000907514
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)	51
Antenna type	Panel (1 sector)-R

Receiver details	
Assigned frequency	1.97250000 GHz
Bandwidth	5.000000 MHz
Freq. assign. ID	0000907517
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)	51
Antenna type	Panel (1 sector)-R

### Advisory Notes applying to Station 32

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 32

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 33:

#### Site details

Site ID	9010977
Site address	Eramurra Village Cape Preston Mine, 72 km SW of Karratha, MARDIE WA 6714
Co-ordinates (GDA94)	Latitude: -21.081651 Longitude: 116.263989

#### Transmitter details

Assigned frequency	2.15750000 GHz
Bandwidth	5.000000 MHz
Freq. assign. ID	0000907518
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	1.96750000 GHz
Bandwidth	5.000000 MHz
Freq. assign. ID	0000907521
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 33

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 33

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 34:

Site details	
Site ID	133393
Site address	Telstra Exchange, WHIM CREEK WA 6718
Co-ordinates (GDA94)	Latitude: -20.84092 Longitude: 117.836471

Transmitter details	
Assigned frequency	2.15750000 GHz
Bandwidth	5.000000 MHz
Freq. assign. ID	0000907522
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)	35
Antenna type	Panel (1 sector)-R

Receiver details	
Assigned frequency	1.96750000 GHz
Bandwidth	5.000000 MHz
Freq. assign. ID	0000907525
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)	35
Antenna type	Panel (1 sector)-R

### Advisory Notes applying to Station 34

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 34

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 35:

#### Site details

Site ID	151680
Site address	Broadcast Australia Site, off Fisher Drive, MOUNT WELCOME WA 6718
Co-ordinates (GDA94)	Latitude: -20.771858 Longitude: 117.142001

#### Transmitter details

Assigned frequency	2.16250000 GHz
Bandwidth	5.000000 MHz
Freq. assign. ID	0000907526
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)	23
Antenna type	Panel (1 sector)-R

#### Receiver details

Assigned frequency	1.97250000 GHz
Bandwidth	5.000000 MHz
Freq. assign. ID	0000907529
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)	23
Antenna type	Panel (1 sector)-R

### Advisory Notes applying to Station 35

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 35

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 36:

#### Site details

Site ID	9010977
Site address	Eramurra Village Cape Preston Mine, 72 km SW of Karratha, MARDIE WA 6714
Co-ordinates (GDA94)	Latitude: -21.081651 Longitude: 116.263989

#### Transmitter details

Assigned frequency	2.16250000 GHz
Bandwidth	5.000000 MHz
Freq. assign. ID	0000907530
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	1.97250000 GHz
Bandwidth	5.000000 MHz
Freq. assign. ID	0000907533
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 36

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 36

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 37:

#### Site details

Site ID	133393
Site address	Telstra Exchange, WHIM CREEK WA 6718
Co-ordinates (GDA94)	Latitude: -20.84092 Longitude: 117.836471

#### Transmitter details

Assigned frequency	2.16250000 GHz
Bandwidth	5.000000 MHz
Freq. assign. ID	0000907534
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)	35
Antenna type	Panel (1 sector)-R

#### Receiver details

Assigned frequency	1.97250000 GHz
Bandwidth	5.000000 MHz
Freq. assign. ID	0000907537
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)	35
Antenna type	Panel (1 sector)-R

### Advisory Notes applying to Station 37

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 37

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 38:

Site details	
Site ID	9010224
Site address	Telstra RBS Site, Millars Well Oval off Tilbrook CI, NICKOL WA 6714
Co-ordinates (GDA94)	Latitude: -20.738001 Longitude: 116.8176

Transmitter details	
Assigned frequency	2.15750000 GHz
Bandwidth	5.000000 MHz
Freq. assign. ID	0000907538
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)	27
Antenna type	Panel (1 sector)-R

Receiver details	
Assigned frequency	1.96750000 GHz
Bandwidth	5.000000 MHz
Freq. assign. ID	0000907541
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)	27
Antenna type	Panel (1 sector)-R

### Advisory Notes applying to Station 38

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 38

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 39:

#### Site details

Site ID	9013849
Site address	Cape Preston West (Camp 123), Lot 263 North West Coastal Hwy, MARDIE WA 6714
Co-ordinates (GDA94)	Latitude: -21.051801 Longitude: 116.144457

#### Transmitter details

Assigned frequency	2.15750000 GHz
Bandwidth	5.000000 MHz
Freq. assign. ID	0000907542
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)	18
Antenna type	Panel (1 sector)-R

#### Receiver details

Assigned frequency	1.96750000 GHz
Bandwidth	5.000000 MHz
Freq. assign. ID	0000907545
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)	18
Antenna type	Panel (1 sector)-R

### Advisory Notes applying to Station 39

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 39

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 40:

#### Site details

Site ID	602108
Site address	Telstra Exchange, WICKHAM WA 6720
Co-ordinates (GDA94)	Latitude: -20.674206 Longitude: 117.142256

#### Transmitter details

Assigned frequency	2.15750000 GHz
Bandwidth	5.000000 MHz
Freq. assign. ID	0000907546
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)	7
Antenna type	Panel (1 sector)-R

#### Receiver details

Assigned frequency	1.96750000 GHz
Bandwidth	5.000000 MHz
Freq. assign. ID	0000907549
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)	7
Antenna type	Panel (1 sector)-R

### Advisory Notes applying to Station 40

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 40

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 41:

#### Site details

Site ID	9013849
Site address	Cape Preston West (Camp 123), Lot 263 North West Coastal Hwy, MARDIE WA 6714
Co-ordinates (GDA94)	Latitude: -21.051801 Longitude: 116.144457

#### Transmitter details

Assigned frequency	2.16250000 GHz
Bandwidth	5.000000 MHz
Freq. assign. ID	0000907550
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)	18
Antenna type	Panel (1 sector)-R

#### Receiver details

Assigned frequency	1.97250000 GHz
Bandwidth	5.000000 MHz
Freq. assign. ID	0000907553
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)	18
Antenna type	Panel (1 sector)-R

### Advisory Notes applying to Station 41

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 41

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 42:

#### Site details

Site ID	602108
Site address	Telstra Exchange, WICKHAM WA 6720
Co-ordinates (GDA94)	Latitude: -20.674206 Longitude: 117.142256

#### Transmitter details

Assigned frequency	2.16250000 GHz
Bandwidth	5.000000 MHz
Freq. assign. ID	0000907554
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)	7
Antenna type	Panel (1 sector)-R

#### Receiver details

Assigned frequency	1.97250000 GHz
Bandwidth	5.000000 MHz
Freq. assign. ID	0000907557
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)	7
Antenna type	Panel (1 sector)-R

### Advisory Notes applying to Station 42

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 42

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.