

# Apparatus Licence

Issued by Delegate of the Australian Communications and Media Authority



## Licensee details

|                  |   |
|------------------|---|
| Customer ID      | 1136980   |
| Licensee         | Vodafone Hutchison Australia Pty Limited              |
| Licensee address | Attn Paul Kinnane PO Box 1113, NORTH SYDNEY, NSW 2060 |

## Licence details

|                    |              |
|--------------------|--------------|
| Licence service    | PTS          |
| Licence subservice | PMTS Class B |
| Licence number     | 9940203/6    |
| Date of issue      | 11/12/17     |
| Date of effect     | 11/12/17     |
| Date of expiry     | 12/05/21     |

## 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)

## **Special Conditions applying to licence no.: 9940203/6**

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.

## **Advisory Notes applying to licence no.: 9940203/6**

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.

## 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              | 10007723  |
| Site address         | Bendigo Hospital, 100 Barnard Street, Bendigo VIC |
| Co-ordinates (GDA94) | Latitude: -36.74905 Longitude: 144.28098          |

| Transmitter details |               |
|---------------------|---------------|
| Assigned frequency  | 2.1150000 GHz |
| Bandwidth           | 10.000000 MHz |
| Freq. assign. ID    | 0001995317    |
| Transmitter power   | 20.00 W       |
| EIRP                | 63.20 W       |
| Emission designator | 10M0W7D       |

| Antenna details      |           |
|----------------------|-----------|
| Antenna ID           | 90798     |
| Antenna polarisation | S - Slant |
| Antenna azimuth      |           |
| Antenna height       | 5.00      |
| Antenna type         | Dipole    |

| Receiver details    |               |
|---------------------|---------------|
| Assigned frequency  | 1.9250000 GHz |
| Bandwidth           | 10.000000 MHz |
| Freq. assign. ID    | 0001995318    |
| Transmitter power   | N/A           |
| EIRP                | N/A           |
| Emission designator | 10M0W7D       |

| Antenna details      |           |
|----------------------|-----------|
| Antenna ID           | 90798     |
| Antenna polarisation | S - Slant |
| Antenna azimuth      |           |
| Antenna height       | 5.00      |
| Antenna type         | Dipole    |

## 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              | 10005042   |
| Site address         | Flora Hill, 140-146 Edwards Road, FLORA HILL VIC |
| Co-ordinates (GDA94) | Latitude: -36.78137 Longitude: 144.3024          |

| Transmitter details |                |
|---------------------|----------------|
| Assigned frequency  | 2.11500000 GHz |
| Bandwidth           | 10.000000 MHz  |
| Freq. assign. ID    | 0001856040     |
| Transmitter power   | 80.00 W        |
| EIRP                | 2.65 kW        |
| Emission designator | 10M0W7D        |

| Antenna details      |                    |
|----------------------|--------------------|
| Antenna ID           | 81270              |
| Antenna polarisation | S - Slant          |
| Antenna azimuth      |                    |
| Antenna height       | 30.06              |
| Antenna type         | Panel (1 sector)-R |

| Receiver details    |                |
|---------------------|----------------|
| Assigned frequency  | 1.92500000 GHz |
| Bandwidth           | 10.000000 MHz  |
| Freq. assign. ID    | 0001856041     |
| Transmitter power   | N/A            |
| EIRP                | N/A            |
| Emission designator | 10M0W7D        |

| Antenna details      |                    |
|----------------------|--------------------|
| Antenna ID           | 81270              |
| Antenna polarisation | S - Slant          |
| Antenna azimuth      |                    |
| Antenna height       | 30.06              |
| Antenna type         | Panel (1 sector)-R |

## 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              | 9014905  |
| Site address         | Optus Monopole, 135-137 Breen Street, GOLDEN SQUARE VIC 3555 |
| Co-ordinates (GDA94) | Latitude: -36.771708 Longitude: 144.269591                   |

| Transmitter details |                |
|---------------------|----------------|
| Assigned frequency  | 2.11500000 GHz |
| Bandwidth           | 10.000000 MHz  |
| Freq. assign. ID    | 0001856042     |
| Transmitter power   | 80.00 W        |
| EIRP                | 2.65 kW        |
| Emission designator | 10M0W7D        |

| Antenna details      |                    |
|----------------------|--------------------|
| Antenna ID           | 81270              |
| Antenna polarisation | S - Slant          |
| Antenna azimuth      |                    |
| Antenna height       | 30.00              |
| Antenna type         | Panel (1 sector)-R |

| Receiver details    |                |
|---------------------|----------------|
| Assigned frequency  | 1.92500000 GHz |
| Bandwidth           | 10.000000 MHz  |
| Freq. assign. ID    | 0001856043     |
| Transmitter power   | N/A            |
| EIRP                | N/A            |
| Emission designator | 10M0W7D        |

| Antenna details      |                    |
|----------------------|--------------------|
| Antenna ID           | 81270              |
| Antenna polarisation | S - Slant          |
| Antenna azimuth      |                    |
| Antenna height       | 30.00              |
| Antenna type         | Panel (1 sector)-R |

## 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              | 136808   |
| Site address         | Tower within City Council Depot and Dog Pound, 64-90 Adam Street, BENDIGO VIC 3555 |
| Co-ordinates (GDA94) | Latitude: -36.778497 Longitude: 144.271275   |

| Transmitter details |                |
|---------------------|----------------|
| Assigned frequency  | 2.11500000 GHz |
| Bandwidth           | 10.000000 MHz  |
| Freq. assign. ID    | 0001702365     |
| Transmitter power   | 80.00 W        |
| EIRP                | 2.65 kW        |
| Emission designator | 10MOW7D        |

| Antenna details      |                    |
|----------------------|--------------------|
| Antenna ID           | 81270              |
| Antenna polarisation | S - Slant          |
| Antenna azimuth      |                    |
| Antenna height       | 30.00              |
| Antenna type         | Panel (1 sector)-R |

| Receiver details    |                |
|---------------------|----------------|
| Assigned frequency  | 1.92500000 GHz |
| Bandwidth           | 10.000000 MHz  |
| Freq. assign. ID    | 0001702366     |
| Transmitter power   | N/A            |
| EIRP                | N/A            |
| Emission designator | 10MOW7D        |

| Antenna details      |                    |
|----------------------|--------------------|
| Antenna ID           | 81270              |
| Antenna polarisation | S - Slant          |
| Antenna azimuth      |                    |
| Antenna height       | 30.00              |
| Antenna type         | Panel (1 sector)-R |

## Technical characteristics

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### Main Station Site

### Station 5:

| Site details         |  |
|----------------------|--|
| Site ID              | 9011689  |
| Site address         | Strathfieldsaye, 998 Bendigo-Redesdale Rd, STRATHFIELDSAYE VIC 3551 VIC 3551 |
| Co-ordinates (GDA94) | Latitude: -36.808648 Longitude: 144.363419                                   |

| Transmitter details |                |
|---------------------|----------------|
| Assigned frequency  | 2.11500000 GHz |
| Bandwidth           | 10.000000 MHz  |
| Freq. assign. ID    | 0001702367     |
| Transmitter power   | 80.00 W        |
| EIRP                | 2.65 kW        |
| Emission designator | 10M0W7D        |

| Antenna details      |                    |
|----------------------|--------------------|
| Antenna ID           | 81270              |
| Antenna polarisation | S - Slant          |
| Antenna azimuth      |                    |
| Antenna height       | 30.00              |
| Antenna type         | Panel (1 sector)-R |

| Receiver details    |                |
|---------------------|----------------|
| Assigned frequency  | 1.92500000 GHz |
| Bandwidth           | 10.000000 MHz  |
| Freq. assign. ID    | 0001702368     |
| Transmitter power   | N/A            |
| EIRP                | N/A            |
| Emission designator | 10M0W7D        |

| Antenna details      |                    |
|----------------------|--------------------|
| Antenna ID           | 81270              |
| Antenna polarisation | S - Slant          |
| Antenna azimuth      |                    |
| Antenna height       | 30.00              |
| Antenna type         | Panel (1 sector)-R |

## Technical characteristics

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### Main Station Site

### Station 6:

| Site details         |   |
|----------------------|---|
| Site ID              | 11869   |
| Site address         | GPU Power Net Site, One Tree Hill, BENDIGO VIC 3551 |
| Co-ordinates (GDA94) | Latitude: -36.803136 Longitude: 144.300120          |

| Transmitter details |                |
|---------------------|----------------|
| Assigned frequency  | 2.11500000 GHz |
| Bandwidth           | 10.000000 MHz  |
| Freq. assign. ID    | 0001702369     |
| Transmitter power   | 80.00 W        |
| EIRP                | 2.65 kW        |
| Emission designator | 10M0W7D        |

| Antenna details      |                    |
|----------------------|--------------------|
| Antenna ID           | 81270              |
| Antenna polarisation | S - Slant          |
| Antenna azimuth      |                    |
| Antenna height       | 30.00              |
| Antenna type         | Panel (1 sector)-R |

| Receiver details    |                |
|---------------------|----------------|
| Assigned frequency  | 1.92500000 GHz |
| Bandwidth           | 10.000000 MHz  |
| Freq. assign. ID    | 0001702370     |
| Transmitter power   | N/A            |
| EIRP                | N/A            |
| Emission designator | 10M0W7D        |

| Antenna details      |                    |
|----------------------|--------------------|
| Antenna ID           | 81270              |
| Antenna polarisation | S - Slant          |
| Antenna azimuth      |                    |
| Antenna height       | 30.00              |
| Antenna type         | Panel (1 sector)-R |



## Technical characteristics

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### Main Station Site

### Station 7:

| Site details         |   |
|----------------------|---|
| Site ID              | 570403  |
| Site address         | Bendigo Regional Institute, McCrae Street, BENDIGO VIC 3550 |
| Co-ordinates (GDA94) | Latitude: -36.757291 Longitude: 144.283417                  |

| Transmitter details |                |
|---------------------|----------------|
| Assigned frequency  | 2.11500000 GHz |
| Bandwidth           | 10.000000 MHz  |
| Freq. assign. ID    | 0001702371     |
| Transmitter power   | 80.00 W        |
| EIRP                | 2.65 kW        |
| Emission designator | 10M0W7D        |

| Antenna details      |                    |
|----------------------|--------------------|
| Antenna ID           | 81270              |
| Antenna polarisation | S - Slant          |
| Antenna azimuth      |                    |
| Antenna height       | 30.00              |
| Antenna type         | Panel (1 sector)-R |

| Receiver details    |                |
|---------------------|----------------|
| Assigned frequency  | 1.92500000 GHz |
| Bandwidth           | 10.000000 MHz  |
| Freq. assign. ID    | 0001702372     |
| Transmitter power   | N/A            |
| EIRP                | N/A            |
| Emission designator | 10M0W7D        |

| Antenna details      |                    |
|----------------------|--------------------|
| Antenna ID           | 81270              |
| Antenna polarisation | S - Slant          |
| Antenna azimuth      |                    |
| Antenna height       | 30.00              |
| Antenna type         | Panel (1 sector)-R |

## 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              | 9014231   |
| Site address         | Optus Monopole, 75 Beischer Street, STRATHDALE VIC 3550 |
| Co-ordinates (GDA94) | Latitude: -36.751242 Longitude: 144.309535              |

| Transmitter details |               |
|---------------------|---------------|
| Assigned frequency  | 2.1150000 GHz |
| Bandwidth           | 10.000000 MHz |
| Freq. assign. ID    | 0001702373    |
| Transmitter power   | 80.00 W       |
| EIRP                | 2.65 kW       |
| Emission designator | 10M0W7D       |

| Antenna details      |                    |
|----------------------|--------------------|
| Antenna ID           | 81270              |
| Antenna polarisation | S - Slant          |
| Antenna azimuth      |                    |
| Antenna height       | 30.00              |
| Antenna type         | Panel (1 sector)-R |

| Receiver details    |               |
|---------------------|---------------|
| Assigned frequency  | 1.9250000 GHz |
| Bandwidth           | 10.000000 MHz |
| Freq. assign. ID    | 0001702374    |
| Transmitter power   | N/A           |
| EIRP                | N/A           |
| Emission designator | 10M0W7D       |

| Antenna details      |                    |
|----------------------|--------------------|
| Antenna ID           | 81270              |
| Antenna polarisation | S - Slant          |
| Antenna azimuth      |                    |
| Antenna height       | 30.00              |
| Antenna type         | Panel (1 sector)-R |

## 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              | 11743   |
| Site address         | Southern Cross Site Mt Alexander, Joseph Young Dr, HARCORT NORTH VIC 3453 |
| Co-ordinates (GDA94) | Latitude: -36.990597 Longitude: 144.308725                                |

| Transmitter details |                |
|---------------------|----------------|
| Assigned frequency  | 2.11500000 GHz |
| Bandwidth           | 10.000000 MHz  |
| Freq. assign. ID    | 0001656698     |
| Transmitter power   | 80.00 W        |
| EIRP                | 2.65 kW        |
| Emission designator | 10M0W7D        |

| Antenna details      |                    |
|----------------------|--------------------|
| Antenna ID           | 81270              |
| Antenna polarisation | S - Slant          |
| Antenna azimuth      |                    |
| Antenna height       | 30.00              |
| Antenna type         | Panel (1 sector)-R |

| Receiver details    |                |
|---------------------|----------------|
| Assigned frequency  | 1.92500000 GHz |
| Bandwidth           | 10.000000 MHz  |
| Freq. assign. ID    | 0001656699     |
| Transmitter power   | N/A            |
| EIRP                | N/A            |
| Emission designator | 10M0W7D        |

| Antenna details      |                    |
|----------------------|--------------------|
| Antenna ID           | 81270              |
| Antenna polarisation | S - Slant          |
| Antenna azimuth      |                    |
| Antenna height       | 30.00              |
| Antenna type         | Panel (1 sector)-R |

## 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              | 51142  |
| Site address         | Anne Caudle Centre, B22 East Wing 100-104 Barnard St, BENDIGO VIC 3550 |
| Co-ordinates (GDA94) | Latitude: -36.750027 Longitude: 144.281042                             |

| Transmitter details |                |
|---------------------|----------------|
| Assigned frequency  | 2.11500000 GHz |
| Bandwidth           | 10.000000 MHz  |
| Freq. assign. ID    | 0001288718     |
| Transmitter power   | 80.00 W        |
| EIRP                | 2.65 kW        |
| Emission designator | 10M0W7D        |

| Antenna details      |                    |
|----------------------|--------------------|
| Antenna ID           | 81270              |
| Antenna polarisation | S - Slant          |
| Antenna azimuth      |                    |
| Antenna height       | 30.00              |
| Antenna type         | Panel (1 sector)-R |

| Receiver details    |                |
|---------------------|----------------|
| Assigned frequency  | 1.92500000 GHz |
| Bandwidth           | 10.000000 MHz  |
| Freq. assign. ID    | 0001288719     |
| Transmitter power   | N/A            |
| EIRP                | N/A            |
| Emission designator | 10M0W7D        |

| Antenna details      |                    |
|----------------------|--------------------|
| Antenna ID           | 81270              |
| Antenna polarisation | S - Slant          |
| Antenna azimuth      |                    |
| Antenna height       | 30.00              |
| Antenna type         | Panel (1 sector)-R |