

# Apparatus Licence

Issued by Delegate of the Australian Communications and Media Authority



## Licensee details

Customer ID	159310
Licensee	The Wireless Institute of Australia Victorian Division
Licensee address	40G Victory Boulevard, ASHBURTON, VIC 3147

## Licence details

Licence service	Amateur
Licence subservice	Amateur Repeater
Licence number	213151/1
Callsign	VK3RMU
Date of issue	11/03/2021
Date of effect	11/03/2021
Date of expiry	25/03/2022

## 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)

## **Advisory Notes applying to licence no.: 213151/1**

Conditions applicable to the operation of Amateur Repeater station(s) authorised under this licence can be found in the Radiocommunications Licence Conditions (Apparatus Licence) Determination and the Radiocommunications Licence Conditions (Amateur Licence) Determination. Copies of these determinations are available from the ACMA and from the ACMA home page ([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	36223
Site address	Telstra site, MT ST LEONARD VIC 3777
Co-ordinates (GDA94)	Latitude: -37.567537 Longitude: 145.525550

Transmitter details	
Assigned frequency	147.575000 MHz
Bandwidth	25.0000 kHz
Freq. assign. ID	0000515776
Transmitter power	120.00 W
EIRP	
Emission designator	16K0F2D

Antenna details	
Antenna ID	1
Antenna polarisation	V - Vertical linear
Antenna azimuth	
Antenna height (m)	0
Antenna type	Unknown antenna type, size or specifications-

Receiver details	
Assigned frequency	147.575000 MHz
Bandwidth	25.0000 kHz
Freq. assign. ID	0000515777
Transmitter power	N/A
EIRP	N/A
Emission designator	16K0F2D

Antenna details	
Antenna ID	1
Antenna polarisation	V - Vertical linear
Antenna azimuth	
Antenna height (m)	0
Antenna type	Unknown antenna type, size or specifications-

## Technical characteristics

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### Main Station Site

### Station 2:

Site details	
Site ID	36223
Site address	Telstra site, MT ST LEONARD VIC 3777
Co-ordinates (GDA94)	Latitude: -37.567537 Longitude: 145.525550

Transmitter details	
Assigned frequency	1.25350000 GHz
Bandwidth	25.0000 kHz
Freq. assign. ID	0000515778
Transmitter power	120.00 W
EIRP	
Emission designator	16K0F3E

Antenna details	
Antenna ID	1
Antenna polarisation	V - Vertical linear
Antenna azimuth	
Antenna height (m)	0
Antenna type	Unknown antenna type, size or specifications-

Receiver details	
Assigned frequency	1.24150000 GHz
Bandwidth	25.0000 kHz
Freq. assign. ID	0000515779
Transmitter power	N/A
EIRP	N/A
Emission designator	16K0F3E

Antenna details	
Antenna ID	1
Antenna polarisation	V - Vertical linear
Antenna azimuth	
Antenna height (m)	0
Antenna type	Unknown antenna type, size or specifications-

## Technical characteristics

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### Main Station Site

### Station 3:

Site details	
Site ID	36223
Site address	Telstra site, MT ST LEONARD VIC 3777
Co-ordinates (GDA94)	Latitude: -37.567537 Longitude: 145.525550

Transmitter details	
Assigned frequency	144.775000 MHz
Bandwidth	25.0000 kHz
Freq. assign. ID	0000515780
Transmitter power	120.00 W
EIRP	
Emission designator	16K0F2D

Antenna details	
Antenna ID	1
Antenna polarisation	V - Vertical linear
Antenna azimuth	
Antenna height (m)	0
Antenna type	Unknown antenna type, size or specifications-

Receiver details	
Assigned frequency	144.775000 MHz
Bandwidth	25.0000 kHz
Freq. assign. ID	0000515781
Transmitter power	N/A
EIRP	N/A
Emission designator	16K0F2D

Antenna details	
Antenna ID	1
Antenna polarisation	V - Vertical linear
Antenna azimuth	
Antenna height (m)	0
Antenna type	Unknown antenna type, size or specifications-

## Technical characteristics

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### Main Station Site

### Station 4:

Site details	
Site ID	36223
Site address	Telstra site, MT ST LEONARD VIC 3777
Co-ordinates (GDA94)	Latitude: -37.567537 Longitude: 145.525550

Transmitter details	
Assigned frequency	147.375000 MHz
Bandwidth	25.0000 kHz
Freq. assign. ID	0000515782
Transmitter power	120.00 W
EIRP	
Emission designator	16K0F2D

Antenna details	
Antenna ID	1
Antenna polarisation	V - Vertical linear
Antenna azimuth	
Antenna height (m)	0
Antenna type	Unknown antenna type, size or specifications-

Receiver details	
Assigned frequency	147.975000 MHz
Bandwidth	25.0000 kHz
Freq. assign. ID	0000515783
Transmitter power	N/A
EIRP	N/A
Emission designator	16K0F2D

Antenna details	
Antenna ID	1
Antenna polarisation	V - Vertical linear
Antenna azimuth	
Antenna height (m)	0
Antenna type	Unknown antenna type, size or specifications-

## Technical characteristics

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### Main Station Site

### Station 5:

Site details	
Site ID	36223
Site address	Telstra site, MT ST LEONARD VIC 3777
Co-ordinates (GDA94)	Latitude: -37.567537 Longitude: 145.525550

Transmitter details	
Assigned frequency	1.27350000 GHz
Bandwidth	25.0000 kHz
Freq. assign. ID	0000515784
Transmitter power	120.00 W
EIRP	
Emission designator	16K0F3E

Antenna details	
Antenna ID	1
Antenna polarisation	V - Vertical linear
Antenna azimuth	
Antenna height (m)	0
Antenna type	Unknown antenna type, size or specifications-

Receiver details	
Assigned frequency	1.29350000 GHz
Bandwidth	25.0000 kHz
Freq. assign. ID	0000515785
Transmitter power	N/A
EIRP	N/A
Emission designator	16K0F3E

Antenna details	
Antenna ID	1
Antenna polarisation	V - Vertical linear
Antenna azimuth	
Antenna height (m)	0
Antenna type	Unknown antenna type, size or specifications-

## 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	36223
Site address	Telstra site, MT ST LEONARD VIC 3777
Co-ordinates (GDA94)	Latitude: -37.567537 Longitude: 145.525550

Transmitter details	
Assigned frequency	1.28150000 GHz
Bandwidth	25.0000 kHz
Freq. assign. ID	0000515786
Transmitter power	120.00 W
EIRP	
Emission designator	16K0F3E

Antenna details	
Antenna ID	1
Antenna polarisation	V - Vertical linear
Antenna azimuth	
Antenna height (m)	0
Antenna type	Unknown antenna type, size or specifications-

Receiver details	
Assigned frequency	1.29350000 GHz
Bandwidth	25.0000 kHz
Freq. assign. ID	0000515787
Transmitter power	N/A
EIRP	N/A
Emission designator	16K0F3E

Antenna details	
Antenna ID	1
Antenna polarisation	V - Vertical linear
Antenna azimuth	
Antenna height (m)	0
Antenna type	Unknown antenna type, size or specifications-



## Technical characteristics

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### Main Station Site

### Station 7:

Site details	
Site ID	36223
Site address	Telstra site, MT ST LEONARD VIC 3777
Co-ordinates (GDA94)	Latitude: -37.567537      Longitude: 145.525550

Transmitter details	
Assigned frequency	439.800000 MHz
Bandwidth	25.0000 kHz
Freq. assign. ID	0000515788
Transmitter power	120.00 W
EIRP	
Emission designator	16K0F3E

Antenna details	
Antenna ID	67
Antenna polarisation	V - Vertical linear
Antenna azimuth	
Antenna height (m)	0
Antenna type	Dipole-D

Receiver details	
Assigned frequency	434.800000 MHz
Bandwidth	25.0000 kHz
Freq. assign. ID	0000515789
Transmitter power	N/A
EIRP	N/A
Emission designator	16K0F3E

Antenna details	
Antenna ID	67
Antenna polarisation	V - Vertical linear
Antenna azimuth	
Antenna height (m)	0
Antenna type	Dipole-D

## 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	36223
Site address	Telstra site, MT ST LEONARD VIC 3777
Co-ordinates (GDA94)	Latitude: -37.567537 Longitude: 145.525550

Receiver details	
Assigned frequency	433.075000 MHz
Bandwidth	25.0000 kHz
Freq. assign. ID	0000515790
Transmitter power	N/A
EIRP	N/A
Emission designator	16K0F3E

Antenna details	
Antenna ID	1
Antenna polarisation	V - Vertical linear
Antenna azimuth	
Antenna height (m)	0
Antenna type	Unknown antenna type, size or specifications-

## 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	36223
Site address	Telstra site, MT ST LEONARD VIC 3777
Co-ordinates (GDA94)	Latitude: -37.567537 Longitude: 145.525550

Transmitter details	
Assigned frequency	145.200000 MHz
Bandwidth	25.0000 kHz
Freq. assign. ID	0000515791
Transmitter power	50.00 W
EIRP	
Emission designator	16K0F9W

Antenna details	
Antenna ID	60013
Antenna polarisation	V - Vertical linear
Antenna azimuth	
Antenna height (m)	10
Antenna type	Dipole-D

Receiver details	
Assigned frequency	145.200000 MHz
Bandwidth	25.0000 kHz
Freq. assign. ID	0000515792
Transmitter power	N/A
EIRP	N/A
Emission designator	16K0F9W

Antenna details	
Antenna ID	60013
Antenna polarisation	V - Vertical linear
Antenna azimuth	
Antenna height (m)	10
Antenna type	Dipole-D

### Special Conditions applying to Station 9

When the transmitter is coupled to an antenna the level of all discrete spurious components caused by the transmitter & measured at the connection to the antenna must not exceed -30 DBM. Broadband noise floor of the transmitter measured at the same point must not exceed -47 DBM in a 16 kHz bandwidth for frequency offsets greater than 300 kHz from the transmit frequency.

## 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	11727
Site address	Vertel Tower, Mt Warrenheip Lot 2045 Mt Warrenheip Rd, DUNNSTOWN VIC 3352
Co-ordinates (GDA94)	Latitude: -37.576696 Longitude: 143.957383

Transmitter details	
Assigned frequency	440.625000 MHz
Bandwidth	25.0000 kHz
Freq. assign. ID	0000515793
Transmitter power	120.00 W
EIRP	
Emission designator	16K0F1D

Antenna details	
Antenna ID	100
Antenna polarisation	H - Horizontal linear
Antenna azimuth	
Antenna height (m)	0
Antenna type	Yagi (Horizontal Polarisation)-Y

Receiver details	
Assigned frequency	430.625000 MHz
Bandwidth	25.0000 kHz
Freq. assign. ID	0000515794
Transmitter power	N/A
EIRP	N/A
Emission designator	16K0F1D

Antenna details	
Antenna ID	100
Antenna polarisation	H - Horizontal linear
Antenna azimuth	
Antenna height (m)	0
Antenna type	Yagi (Horizontal Polarisation)-Y

## Technical characteristics

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### Main Station Site

### Station 11:

Site details	
Site ID	36223
Site address	Telstra site, MT ST LEONARD VIC 3777
Co-ordinates (GDA94)	Latitude: -37.567537 Longitude: 145.525550

Transmitter details	
Assigned frequency	430.625000 MHz
Bandwidth	25.0000 kHz
Freq. assign. ID	0000515795
Transmitter power	120.00 W
EIRP	
Emission designator	16K0F1D

Antenna details	
Antenna ID	100
Antenna polarisation	H - Horizontal linear
Antenna azimuth	
Antenna height (m)	0
Antenna type	Yagi (Horizontal Polarisation)-Y

Receiver details	
Assigned frequency	440.625000 MHz
Bandwidth	25.0000 kHz
Freq. assign. ID	0000515796
Transmitter power	N/A
EIRP	N/A
Emission designator	16K0F1D

Antenna details	
Antenna ID	100
Antenna polarisation	H - Horizontal linear
Antenna azimuth	
Antenna height (m)	0
Antenna type	Yagi (Horizontal Polarisation)-Y

## 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	11727
Site address	Vertel Tower, Mt Warrenheip Lot 2045 Mt Warrenheip Rd, DUNNSTOWN VIC 3352
Co-ordinates (GDA94)	Latitude: -37.576696 Longitude: 143.957383

Transmitter details	
Assigned frequency	440.750000 MHz
Bandwidth	25.0000 kHz
Freq. assign. ID	0000515797
Transmitter power	120.00 W
EIRP	
Emission designator	16K0F1D

Antenna details	
Antenna ID	100
Antenna polarisation	H - Horizontal linear
Antenna azimuth	
Antenna height (m)	0
Antenna type	Yagi (Horizontal Polarisation)-Y

## 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	36223
Site address	Telstra site, MT ST LEONARD VIC 3777
Co-ordinates (GDA94)	Latitude: -37.567537 Longitude: 145.525550

Receiver details	
Assigned frequency	440.750000 MHz
Bandwidth	25.0000 kHz
Freq. assign. ID	0000515798
Transmitter power	N/A
EIRP	N/A
Emission designator	16K0F1D

Antenna details	
Antenna ID	100
Antenna polarisation	H - Horizontal linear
Antenna azimuth	
Antenna height (m)	0
Antenna type	Yagi (Horizontal Polarisation)-Y