

# Apparatus Licence

Issued by Delegate of the Australian Communications and Media Authority



## Licensee details

Customer ID	1315913
Licensee	DEPARTMENT OF JUSTICE AND COMMUNITY SAFETY
Trading name	ESTA Emergency Services Telecommunications Authority
Licensee address	c/-10 Wesley Court - Motorola MMR Project, Tally Ho Bus Pk, EAST BURWOOD, VIC 3151

## Licence details

Licence service	Land Mobile
Licence subservice	Land Mobile System - > 30MHz
Licence number	1911705/3
Callsign	VNV877
Date of issue	15/11/2021
Date of effect	15/11/2021
Date of expiry	01/12/2022

## 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)

Certain information contained in this licence record will be disclosed in the Register of Radiocommunications Licences (RRL), established and maintained pursuant to Part 3.5 of the *Radiocommunications Act 1992*.

## **Advisory Notes applying to licence no.: 1911705/3**

Conditions applicable to the operation of Land Mobile System station(s) authorised under this licence can be found in the Radiocommunications Licence Conditions (Apparatus Licence) Determination and the Radiocommunications Licence Conditions (Land Mobile 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	11599
Site address	Rialto Towers, 525 Collins Street, MELBOURNE VIC 3000
Co-ordinates (GDA94)	Latitude: -37.818520 Longitude: 144.957141

Transmitter details	
Assigned frequency	421.725000 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0000899553
Transmitter power	25.00 W
EIRP	83.00 W
Emission designator	10K1D7W

Antenna details	
Antenna ID	77
Antenna polarisation	V - Vertical linear
Antenna azimuth	
Antenna height (m)	0
Antenna type	Radiax (Leaky feeder)-Z

Receiver details	
Assigned frequency	427.225000 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0000899552
Transmitter power	N/A
EIRP	N/A
Emission designator	10K1D7W

Antenna details	
Antenna ID	77
Antenna polarisation	V - Vertical linear
Antenna azimuth	
Antenna height (m)	0
Antenna type	Radiax (Leaky feeder)-Z

### Special Conditions applying to Station 1

The level of power in the adjacent channel must not exceed -16dBm.

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.

### Supplementary Station Site

### Station 2:

Site details	
Site ID	11633
Site address	MMR site boiler house Austin Hospital, 145 Studley Rd, HEIDELBERG VIC 3084
Co-ordinates (GDA94)	Latitude: -37.756838 Longitude: 145.056901

Transmitter details	
Assigned frequency	421.725000 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0000899513
Transmitter power	5.00 W
EIRP	8.40 W
Emission designator	10K1D7W

Antenna details	
Antenna ID	77
Antenna polarisation	V - Vertical linear
Antenna azimuth	
Antenna height (m)	0
Antenna type	Radiax (Leaky feeder)-Z

Receiver details	
Assigned frequency	427.225000 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0000899514
Transmitter power	N/A
EIRP	N/A
Emission designator	10K1D7W

Antenna details	
Antenna ID	77
Antenna polarisation	V - Vertical linear
Antenna azimuth	
Antenna height (m)	0
Antenna type	Radiax (Leaky feeder)-Z

## Special Conditions applying to Station 2

The level of power in the adjacent channel must not exceed -16dBm.

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.

### Supplementary Station Site

### Station 3:

Site details	
Site ID	12013
Site address	TXA Ornata Road Site Tower, 12 Ornata Road, MOUNT DANDENONG VIC 3767
Co-ordinates (GDA94)	Latitude: -37.837476 Longitude: 145.346610

Transmitter details	
Assigned frequency	421.725000 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0000899515
Transmitter power	25.00 W
EIRP	41.00 W
Emission designator	10K1D7W

Antenna details	
Antenna ID	77
Antenna polarisation	V - Vertical linear
Antenna azimuth	
Antenna height (m)	0
Antenna type	Radiax (Leaky feeder)-Z

Receiver details	
Assigned frequency	427.225000 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0000899516
Transmitter power	N/A
EIRP	N/A
Emission designator	10K1D7W

Antenna details	
Antenna ID	77
Antenna polarisation	V - Vertical linear
Antenna azimuth	
Antenna height (m)	0
Antenna type	Radiax (Leaky feeder)-Z

### Special Conditions applying to Station 3

The level of power in the adjacent channel must not exceed -16dBm.

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.

### Supplementary Station Site

### Station 4:

Site details	
Site ID	12016
Site address	Telstra Site, Dunns Hill, FERNY CREEK VIC 3786
Co-ordinates (GDA94)	Latitude: -37.87921 Longitude: 145.33423

Transmitter details	
Assigned frequency	421.725000 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0000899517
Transmitter power	25.00 W
EIRP	41.00 W
Emission designator	10K1D7W

Antenna details	
Antenna ID	77
Antenna polarisation	V - Vertical linear
Antenna azimuth	
Antenna height (m)	0
Antenna type	Radiax (Leaky feeder)-Z

Receiver details	
Assigned frequency	427.225000 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0000899518
Transmitter power	N/A
EIRP	N/A
Emission designator	10K1D7W

Antenna details	
Antenna ID	77
Antenna polarisation	V - Vertical linear
Antenna azimuth	
Antenna height (m)	0
Antenna type	Radiax (Leaky feeder)-Z

### Special Conditions applying to Station 4

The level of power in the adjacent channel must not exceed -16dBm.

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.

### Supplementary Station Site

### Station 5:

Site details	
Site ID	41628
Site address	Knox City Shopping Centre, Cnr Stud Rd and Burwood Hwy, WANTIRNA SOUTH VIC 3152
Co-ordinates (GDA94)	Latitude: -37.868395 Longitude: 145.238374

Transmitter details	
Assigned frequency	421.725000 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0000899519
Transmitter power	5.00 W
EIRP	8.40 W
Emission designator	10K1D7W

Antenna details	
Antenna ID	77
Antenna polarisation	V - Vertical linear
Antenna azimuth	
Antenna height (m)	0
Antenna type	Radiax (Leaky feeder)-Z

Receiver details	
Assigned frequency	427.225000 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0000899520
Transmitter power	N/A
EIRP	N/A
Emission designator	10K1D7W

Antenna details	
Antenna ID	77
Antenna polarisation	V - Vertical linear
Antenna azimuth	
Antenna height (m)	0
Antenna type	Radiax (Leaky feeder)-Z

## Special Conditions applying to Station 5

The level of power in the adjacent channel must not exceed -16dBm.

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.

### Supplementary Station Site

### Station 6:

Site details	
Site ID	42652
Site address	Monash Medical Centre, 246 Clayton Rd, CLAYTON VIC 3168
Co-ordinates (GDA94)	Latitude: -37.920596 Longitude: 145.123253

Transmitter details	
Assigned frequency	421.725000 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0000899521
Transmitter power	5.00 W
EIRP	8.40 W
Emission designator	10K1D7W

Antenna details	
Antenna ID	77
Antenna polarisation	V - Vertical linear
Antenna azimuth	
Antenna height (m)	0
Antenna type	Radiax (Leaky feeder)-Z

Receiver details	
Assigned frequency	427.225000 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0000899522
Transmitter power	N/A
EIRP	N/A
Emission designator	10K1D7W

Antenna details	
Antenna ID	77
Antenna polarisation	V - Vertical linear
Antenna azimuth	
Antenna height (m)	0
Antenna type	Radiax (Leaky feeder)-Z

## Special Conditions applying to Station 6

The level of power in the adjacent channel must not exceed -16dBm.

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

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### Supplementary Station Site

### Station 7:

Site details	
Site ID	43054
Site address	Myer Northland 2-50 Murray Rd, PRESTON VIC 3072
Co-ordinates (GDA94)	Latitude: -37.739013 Longitude: 145.029914

Transmitter details	
Assigned frequency	421.725000 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0000899523
Transmitter power	5.00 W
EIRP	8.40 W
Emission designator	10K1D7W

Antenna details	
Antenna ID	77
Antenna polarisation	V - Vertical linear
Antenna azimuth	
Antenna height (m)	0
Antenna type	Radiax (Leaky feeder)-Z

Receiver details	
Assigned frequency	427.225000 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0000899524
Transmitter power	N/A
EIRP	N/A
Emission designator	10K1D7W

Antenna details	
Antenna ID	77
Antenna polarisation	V - Vertical linear
Antenna azimuth	
Antenna height (m)	0
Antenna type	Radiax (Leaky feeder)-Z

### Special Conditions applying to Station 7

The level of power in the adjacent channel must not exceed -16dBm.

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

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### Supplementary Station Site

### Station 8:

Site details	
Site ID	48849
Site address	Various Site Highpoint Shopping Centre, Rosamond Road, MARIBYRNONG VIC 3032
Co-ordinates (GDA94)	Latitude: -37.773798 Longitude: 144.889345

Transmitter details	
Assigned frequency	421.725000 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0000899528
Transmitter power	5.00 W
EIRP	8.40 W
Emission designator	10K1D7W

Antenna details	
Antenna ID	77
Antenna polarisation	V - Vertical linear
Antenna azimuth	
Antenna height (m)	0
Antenna type	Radiax (Leaky feeder)-Z

Receiver details	
Assigned frequency	427.225000 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0000899530
Transmitter power	N/A
EIRP	N/A
Emission designator	10K1D7W

Antenna details	
Antenna ID	77
Antenna polarisation	V - Vertical linear
Antenna azimuth	
Antenna height (m)	0
Antenna type	Radiax (Leaky feeder)-Z

### Special Conditions applying to Station 8

The level of power in the adjacent channel must not exceed -16dBm.

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.

### Supplementary Station Site

### Station 9:

Site details	
Site ID	50368
Site address	Hospital, Gordon Street, FOOTSCRAY VIC 3011
Co-ordinates (GDA94)	Latitude: -37.792354 Longitude: 144.886432

Transmitter details	
Assigned frequency	421.725000 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0000899531
Transmitter power	5.00 W
EIRP	8.40 W
Emission designator	10K1D7W

Antenna details	
Antenna ID	77
Antenna polarisation	V - Vertical linear
Antenna azimuth	
Antenna height (m)	0
Antenna type	Radiax (Leaky feeder)-Z

Receiver details	
Assigned frequency	427.225000 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0000899532
Transmitter power	N/A
EIRP	N/A
Emission designator	10K1D7W

Antenna details	
Antenna ID	77
Antenna polarisation	V - Vertical linear
Antenna azimuth	
Antenna height (m)	0
Antenna type	Radiax (Leaky feeder)-Z

### Special Conditions applying to Station 9

The level of power in the adjacent channel must not exceed -16dBm.

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.

### Supplementary Station Site

### Station 10:

Site details	
Site ID	51389
Site address	Karingal Hub Shopping Centre, 330 Cranbourne Rd, FRANKSTON VIC 3199
Co-ordinates (GDA94)	Latitude: -38.153997 Longitude: 145.163048

Transmitter details	
Assigned frequency	421.725000 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0000899533
Transmitter power	5.00 W
EIRP	8.40 W
Emission designator	10K1D7W

Antenna details	
Antenna ID	77
Antenna polarisation	V - Vertical linear
Antenna azimuth	
Antenna height (m)	0
Antenna type	Radiax (Leaky feeder)-Z

Receiver details	
Assigned frequency	427.225000 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0000899534
Transmitter power	N/A
EIRP	N/A
Emission designator	10K1D7W

Antenna details	
Antenna ID	77
Antenna polarisation	V - Vertical linear
Antenna azimuth	
Antenna height (m)	0
Antenna type	Radiax (Leaky feeder)-Z

## Special Conditions applying to Station 10

The level of power in the adjacent channel must not exceed -16dBm.

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.

### Supplementary Station Site

### Station 11:

Site details	
Site ID	51716
Site address	Centre Block Alfred Hospital, Commercial Road, PRAHRAN VIC 3181
Co-ordinates (GDA94)	Latitude: -37.846263 Longitude: 144.982514

Transmitter details	
Assigned frequency	421.725000 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0000899535
Transmitter power	5.00 W
EIRP	8.40 W
Emission designator	10K1D7W

Antenna details	
Antenna ID	77
Antenna polarisation	V - Vertical linear
Antenna azimuth	
Antenna height (m)	0
Antenna type	Radiax (Leaky feeder)-Z

Receiver details	
Assigned frequency	427.225000 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0000899536
Transmitter power	N/A
EIRP	N/A
Emission designator	10K1D7W

Antenna details	
Antenna ID	77
Antenna polarisation	V - Vertical linear
Antenna azimuth	
Antenna height (m)	0
Antenna type	Radiax (Leaky feeder)-Z

## Special Conditions applying to Station 11

The level of power in the adjacent channel must not exceed -16dBm.

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.

### Supplementary Station Site

### Station 12:

Site details	
Site ID	52708
Site address	Eastland Shopping Centre 171-175 Maroondah Hwy, RINGWOOD VIC 3134
Co-ordinates (GDA94)	Latitude: -37.812964 Longitude: 145.228957

Transmitter details	
Assigned frequency	421.725000 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0000899537
Transmitter power	5.00 W
EIRP	8.40 W
Emission designator	10K1D7W

Antenna details	
Antenna ID	77
Antenna polarisation	V - Vertical linear
Antenna azimuth	
Antenna height (m)	0
Antenna type	Radiax (Leaky feeder)-Z

Receiver details	
Assigned frequency	427.225000 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0000899538
Transmitter power	N/A
EIRP	N/A
Emission designator	10K1D7W

Antenna details	
Antenna ID	77
Antenna polarisation	V - Vertical linear
Antenna azimuth	
Antenna height (m)	0
Antenna type	Radiax (Leaky feeder)-Z

## Special Conditions applying to Station 12

The level of power in the adjacent channel must not exceed -16dBm.

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.

### Supplementary Station Site

### Station 13:

Site details	
Site ID	100126
Site address	Crown Casino Site, SOUTHBANK VIC 3205
Co-ordinates (GDA94)	Latitude: -37.822797 Longitude: 144.959523

Transmitter details	
Assigned frequency	421.725000 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0000899539
Transmitter power	5.00 W
EIRP	8.40 W
Emission designator	10K1D7W

Antenna details	
Antenna ID	77
Antenna polarisation	V - Vertical linear
Antenna azimuth	
Antenna height (m)	0
Antenna type	Radiax (Leaky feeder)-Z

Receiver details	
Assigned frequency	427.225000 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0000899540
Transmitter power	N/A
EIRP	N/A
Emission designator	10K1D7W

Antenna details	
Antenna ID	77
Antenna polarisation	V - Vertical linear
Antenna azimuth	
Antenna height (m)	0
Antenna type	Radiax (Leaky feeder)-Z

## Special Conditions applying to Station 13

The level of power in the adjacent channel must not exceed -16dBm.

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.

### Supplementary Station Site

### Station 14:

Site details	
Site ID	300439
Site address	Royal Childrens Hospital, Flemington Road, PARKVILLE VIC 3052
Co-ordinates (GDA94)	Latitude: -37.794655 Longitude: 144.950303

Transmitter details	
Assigned frequency	421.725000 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0000899541
Transmitter power	5.00 W
EIRP	8.40 W
Emission designator	10K1D7W

Antenna details	
Antenna ID	77
Antenna polarisation	V - Vertical linear
Antenna azimuth	
Antenna height (m)	0
Antenna type	Radiax (Leaky feeder)-Z

Receiver details	
Assigned frequency	427.225000 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0000899542
Transmitter power	N/A
EIRP	N/A
Emission designator	10K1D7W

Antenna details	
Antenna ID	77
Antenna polarisation	V - Vertical linear
Antenna azimuth	
Antenna height (m)	0
Antenna type	Radiax (Leaky feeder)-Z

## Special Conditions applying to Station 14

The level of power in the adjacent channel must not exceed -16dBm.

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.

### Supplementary Station Site

### Station 15:

Site details	
Site ID	301559
Site address	Marvel Stadium, Harbour Esplanade, DOCKLANDS VIC 3000
Co-ordinates (GDA94)	Latitude: -37.815459 Longitude: 144.946289

Transmitter details	
Assigned frequency	421.725000 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0000899543
Transmitter power	5.00 W
EIRP	8.40 W
Emission designator	10K1D7W

Antenna details	
Antenna ID	77
Antenna polarisation	V - Vertical linear
Antenna azimuth	
Antenna height (m)	0
Antenna type	Radiax (Leaky feeder)-Z

Receiver details	
Assigned frequency	427.225000 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0000899544
Transmitter power	N/A
EIRP	N/A
Emission designator	10K1D7W

Antenna details	
Antenna ID	77
Antenna polarisation	V - Vertical linear
Antenna azimuth	
Antenna height (m)	0
Antenna type	Radiax (Leaky feeder)-Z

### Special Conditions applying to Station 15

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.

The level of power in the adjacent channel must not exceed -16dBm.

## 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.

### Supplementary Station Site

### Station 16:

Site details	
Site ID	302012
Site address	Federation Square, Flinders St, MELBOURNE VIC 3004
Co-ordinates (GDA94)	Latitude: -37.817635 Longitude: 144.968526

Transmitter details	
Assigned frequency	421.725000 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0000899545
Transmitter power	5.00 W
EIRP	8.40 W
Emission designator	10K1D7W

Antenna details	
Antenna ID	77
Antenna polarisation	V - Vertical linear
Antenna azimuth	
Antenna height (m)	0
Antenna type	Radiax (Leaky feeder)-Z

Receiver details	
Assigned frequency	427.225000 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0000899546
Transmitter power	N/A
EIRP	N/A
Emission designator	10K1D7W

Antenna details	
Antenna ID	77
Antenna polarisation	V - Vertical linear
Antenna azimuth	
Antenna height (m)	0
Antenna type	Radiax (Leaky feeder)-Z

## Special Conditions applying to Station 16

The level of power in the adjacent channel must not exceed -16dBm.

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.

### Supplementary Station Site

### Station 17:

Site details	
Site ID	303186
Site address	Target BLDG, Fountain Gate Shopping Link Rd, NARRE WARREN VIC 3805
Co-ordinates (GDA94)	Latitude: -38.018153 Longitude: 145.304452

Transmitter details	
Assigned frequency	421.725000 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0000899547
Transmitter power	5.00 W
EIRP	8.40 W
Emission designator	10K1D7W

Antenna details	
Antenna ID	77
Antenna polarisation	V - Vertical linear
Antenna azimuth	
Antenna height (m)	0
Antenna type	Radiax (Leaky feeder)-Z

Receiver details	
Assigned frequency	427.225000 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0000899548
Transmitter power	N/A
EIRP	N/A
Emission designator	10K1D7W

Antenna details	
Antenna ID	77
Antenna polarisation	V - Vertical linear
Antenna azimuth	
Antenna height (m)	0
Antenna type	Radiax (Leaky feeder)-Z

### Special Conditions applying to Station 17

The level of power in the adjacent channel must not exceed -16dBm.

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.

### Supplementary Station Site

### Station 18:

Site details	
Site ID	303454
Site address	Near Road Bridge Southland 1239 Nepean Hwy, CHELTENHAM VIC 3192
Co-ordinates (GDA94)	Latitude: -37.958118 Longitude: 145.053210

Transmitter details	
Assigned frequency	421.725000 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0000899549
Transmitter power	5.00 W
EIRP	8.40 W
Emission designator	10K1D7W

Antenna details	
Antenna ID	77
Antenna polarisation	V - Vertical linear
Antenna azimuth	
Antenna height (m)	0
Antenna type	Radiax (Leaky feeder)-Z

Receiver details	
Assigned frequency	427.225000 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0000899550
Transmitter power	N/A
EIRP	N/A
Emission designator	10K1D7W

Antenna details	
Antenna ID	77
Antenna polarisation	V - Vertical linear
Antenna azimuth	
Antenna height (m)	0
Antenna type	Radiax (Leaky feeder)-Z

## Special Conditions applying to Station 18

The level of power in the adjacent channel must not exceed -16dBm.

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.

### Supplementary Station Site

### Station 19:

Site details	
Site ID	9016401
Site address	Eastlink Tunnel DAS, Eastlink Freeway, DONVALE VIC 3132
Co-ordinates (GDA94)	Latitude: -37.801233 Longitude: 145.196496

Transmitter details	
Assigned frequency	421.725000 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0002214707
Transmitter power	10.00 W
EIRP	10.00 W
Emission designator	10K1D7W

Antenna details	
Antenna ID	80881
Antenna polarisation	V - Vertical linear
Antenna azimuth	
Antenna height (m)	-1
Antenna type	Unknown antenna type, size or specifications-

Receiver details	
Assigned frequency	427.225000 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0002214708
Transmitter power	N/A
EIRP	N/A
Emission designator	10K1D7W

Antenna details	
Antenna ID	80881
Antenna polarisation	V - Vertical linear
Antenna azimuth	
Antenna height (m)	-1
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.

### Supplementary Station Site

### Station 20:

Site details	
Site ID	10010687
Site address	Forest Hill Police Station, 469 Springvale Road, Vermont South VIC
Co-ordinates (GDA94)	Latitude: -37.845713 Longitude: 145.171576

Transmitter details	
Assigned frequency	421.725000 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0002214709
Transmitter power	10.00 W
EIRP	10.00 W
Emission designator	10K1D7W

Antenna details	
Antenna ID	80881
Antenna polarisation	V - Vertical linear
Antenna azimuth	
Antenna height (m)	6
Antenna type	Unknown antenna type, size or specifications-

Receiver details	
Assigned frequency	427.225000 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0002214710
Transmitter power	N/A
EIRP	N/A
Emission designator	10K1D7W

Antenna details	
Antenna ID	80881
Antenna polarisation	V - Vertical linear
Antenna azimuth	
Antenna height (m)	6
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.

### Supplementary Station Site

### Station 21:

Site details	
Site ID	10010677
Site address	Waverley Gardens Shopping Centre, Cnr Police and Jacksons Road, Mulgrave VIC
Co-ordinates (GDA94)	Latitude: -37.935394                      Longitude: 145.189638

Transmitter details	
Assigned frequency	421.725000 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0002214711
Transmitter power	10.00 W
EIRP	10.00 W
Emission designator	10K1D7W

Antenna details	
Antenna ID	80881
Antenna polarisation	V - Vertical linear
Antenna azimuth	
Antenna height (m)	6
Antenna type	Unknown antenna type, size or specifications-

Receiver details	
Assigned frequency	427.225000 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0002214712
Transmitter power	N/A
EIRP	N/A
Emission designator	10K1D7W

Antenna details	
Antenna ID	80881
Antenna polarisation	V - Vertical linear
Antenna azimuth	
Antenna height (m)	6
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.

### Supplementary Station Site

### Station 22:

Site details	
Site ID	48127
Site address	Maroondah Hospital, Mt Dandenong Road, RINGWOOD EAST VIC 3135
Co-ordinates (GDA94)	Latitude: -37.806993 Longitude: 145.254601

Transmitter details	
Assigned frequency	421.725000 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0002904129
Transmitter power	5.00 W
EIRP	5.00 W
Emission designator	10K1D7W

Antenna details	
Antenna ID	80881
Antenna polarisation	V - Vertical linear
Antenna azimuth	
Antenna height (m)	3
Antenna type	Unknown antenna type, size or specifications-

Receiver details	
Assigned frequency	427.225000 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0002904130
Transmitter power	N/A
EIRP	N/A
Emission designator	10K1D7W

Antenna details	
Antenna ID	80881
Antenna polarisation	V - Vertical linear
Antenna azimuth	
Antenna height (m)	3
Antenna type	Unknown antenna type, size or specifications-

## Special Conditions applying to Station 22

The level of all discreet spurious components, measured at the output of the transmitter, must not exceed -30dBm.

The level of power in the adjacent channel must not exceed -16dBm.