# 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	1911712/5
Callsign	VNV883
Date of issue	10/11/2023
Date of effect	10/11/2023
Date of expiry	01/12/2024

#### 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

ACMA website: 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.: 1911712/5

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).

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**

Transmitter details

#### Station 1:

Site details	
Site ID	11596
Site address	120 Collins Street, MELBOURNE VIC 3000
Co-ordinates (GDA94)	Latitude: -37.813822 Longitude: 144.969482

Assigned frequency	422.162500 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0000899731
Transmitter power	50.00 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	427.662500 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0000899730
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.

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**

Transmitter details

#### Station 2:

47316		
Parliament Underground Station, MELE	BOURNE VIC	3000
Latitude: -37.811313	Longitude:	144.972958
P	arliament Underground Station, MELI	arliament Underground Station, MELBOURNE VIC

422.162500 MHz
12.5000 kHz
0000899723
5.00 W
8.40 W
10K1D7W
77
V - Vertical linear
0
Radiax (Leaky feeder)-Z
427.662500 MHz
12.5000 kHz
0000899724
N/A
N/A
10K1D7W
77
V - Vertical linear
0
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.

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**

**Transmitter details** 

### Station 3:

Site details		
Site ID	47317	
Site address	Flagstaff Underground Station, MELBOURNE VIC 3003	
Co-ordinates (GDA94)	Latitude: -37.81213 Longitude: 144.955046	

Assigned frequency	422.162500 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0000899725
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	427.662500 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0000899726
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.

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	304093			
Site address	Telstra Site City Link tunnels, ne	ar Dodds St, SOUTH	MELBOURNE VIC 3002	
Co-ordinates (GDA94)	Latitude: -37.827309	Longitude:	144.986098	

Transmitter details	
<u>Transmitter details</u>	
Assigned frequency	422.162500 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0000899727
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	427.662500 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0000899728
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

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.

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	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	422.162500 MHz		
Bandwidth	12.5000 kHz		
Freq. assign. ID	0002214681		
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)	10		
Antenna type	Unknown antenna type, size or specifications-		
Receiver details			
Assigned frequency	427.662500 MHz		
Bandwidth	12.5000 kHz		
Freq. assign. ID	0002214682		
Transmitter power	N/A		
EIRP	N/A		
Emission designator	10K1D7W		
Antenna details			
Antenna ID	80881		

Antenna polarisation

Antenna azimuth
Antenna height (m)

Antenna type

V - Vertical linear

Unknown antenna type, size or specifications-

10

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	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	422.162500 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0002214683
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)	10
Antenna type	Unknown antenna type, size or specifications-
Receiver details	
Assigned frequency	427.662500 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0002214684
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)	10
Antenna type	Unknown antenna type, size or specifications-

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 7:

-		
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	422.162500 MHz	
Bandwidth	12.5000 kHz	
Freq. assign. ID	0002214685	
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)	10	
Antenna type	Unknown antenna type, size or specifications-	

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Receiver details		
Assigned frequency	427.662500 MHz	
Bandwidth	12.5000 kHz	
Freq. assign. ID	0002214686	
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)	10	
Antenna type	Unknown antenna type, size or specifications-	

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**

Site details

Antenna ID

Antenna type

Antenna polarisation
Antenna azimuth
Antenna height (m)

### Station 8:

Oite details			
Site ID	10010688		
Site address	Epworth Hospital, 89 Bridge Road, Richmond VIC		
Co-ordinates (GDA94)	Latitude: -37.817156 Longitude: 144.992977		
Transmitter details			
Assigned frequency	422.162500 MHz		
Bandwidth	12.5000 kHz		
Freq. assign. ID	0002214687		
Transmitter power	10.00 W		
EIRP	10.00 W		
Emission designator	10K1D7W		
Antenna details	Antenna details		
Antenna ID	80881		
Antenna polarisation	V - Vertical linear		
Antenna azimuth			
Antenna height (m)	-10		
Antenna type	Unknown antenna type, size or specifications-		
Receiver details			
Assigned frequency	427.662500 MHz		
Bandwidth	12.5000 kHz		
Freq. assign. ID	0002214688		
Transmitter power	N/A		
EIRP	N/A		
Emission designator	10K1D7W		
Antenna details			

80881

-10

V - Vertical linear

Unknown antenna type, size or specifications-

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**

Site details

Emission designator

# Station 9:

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	422.162500 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0002214689
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	427.662500 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0002214690
Transmitter power	N/A
EIRP	N/A

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

10K1D7W

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	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	422.162500 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0002214691
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)	10
Antenna type	Unknown antenna type, size or specifications-
Receiver details	
Assigned frequency	427.662500 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0002214692
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)	10
Antenna type	Unknown antenna type, size or specifications-

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	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	422.162500 MHz		
Bandwidth	12.5000 kHz		
Freq. assign. ID	0002214693		
Transmitter power	10.00 W		
EIRP	10.00 W		
Emission designator	10K1D7W		
Antenna details	Antenna details		
Antenna ID	80881		
Antenna polarisation	V - Vertical linear		
Antenna azimuth			
Antenna height (m)	10		
Antenna type	Unknown antenna type, size or specifications-		
Receiver details			
Assigned frequency	427.662500 MHz		
Bandwidth	12.5000 kHz		
Freq. assign. ID	0002214694		
Transmitter power	N/A		
EIRP	N/A		
Emission designator	10K1D7W		
Antenna details			
Antenna ID	80881		
Antenna polarisation	V - Vertical linear		
Antenna azimuth			

Unknown antenna type, size or specifications-

Antenna height (m)

Antenna type

10

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	11599		
Site address	Rialto Towers, 525 Collins Street, MELBOURNE VIC 3000		
Co-ordinates (GDA94)	Latitude: -37.81852 Longitude: 144.957141		
Transmitter details			
Assigned frequency	422.162500 MHz		
Bandwidth	12.5000 kHz		
Freq. assign. ID	0002214695		
Transmitter power	10.00 W		
EIRP	10.00 W		
Emission designator	10K1D7W		
Antenna details			
Antenna ID	92357		
Antenna polarisation	V - Vertical linear		
Antenna azimuth			
Antenna height (m)	265		
Antenna type	Non-radiating feeder cable		
Receiver details			
Assigned frequency	427.662500 MHz		
Bandwidth	12.5000 kHz		
Freq. assign. ID	0002214696		
Transmitter power	N/A		
EIRP	N/A		
Emission designator	10K1D7W		
Antenna details			

92357

265

V - Vertical linear

Non-radiating feeder cable

Antenna ID

Antenna type

Antenna polarisation
Antenna azimuth
Antenna height (m)

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**

Site details

EIRP

Emission designator

# Station 13:

Onto dotano			
Site ID	300439		
Site address	Royal Childrens Hospital, Flemington Road, PARKVILLE VIC 3052		
Co-ordinates (GDA94)	Latitude: -37.794655 Longitude: 144.950303		
Fransmitter details			
Assigned frequency	422.162500 MHz		
Bandwidth	12.5000 kHz		
Freq. assign. ID	0002214697		
Transmitter power	10.00 W		
EIRP	10.00 W		
Emission designator	10K1D7W		
Antenna details	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	427.662500 MHz		
Bandwidth	12.5000 kHz		
Freq. assign. ID	0002214698		
Transmitter power	N/A		

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

N/A

10K1D7W

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	303454
Site address	Near Road Bridge Southland 1239 Nepean Hwy, CHELTENHAM VIC 3192
Co-ordinates (GDA94)	Latitude: -37.958118 Longitude: 145.05321
Transmitter details	
Assigned frequency	422.162500 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0002214699
Transmitter power	10.00 W
EIRP	10.00 W
Emission designator	10K1D7W
Antenna details	
Antenna ID	80881

Antenna ID	80881
Antenna polarisation	V - Vertical linear
Antenna azimuth	
Antenna height (m)	10
Antenna type	Unknown antenna type, size or specifications-
	-   1
Receiver details	71 7 1
	427.662500 MHz
Receiver details	

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)	10	

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**

Site details

# Station 15:

Offic 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	422.162500 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0002214701
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)	10
Antenna type	Unknown antenna type, size or specifications-
Receiver details	
Assigned frequency	427.662500 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0002214702
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)	10

Unknown antenna type, size or specifications-

Antenna type

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	10010679
Site address	Victorian Comprehensive Cancer Centre (VCCC), 305 Grattan St, Melbourne VIC
Co-ordinates (GDA94)	Latitude: -37.800109 Longitude: 144.956645
Transmitter details	
Assigned frequency	422.162500 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0002214703
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	427.662500 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0002214704
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-

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	50368			
Site address	Hospital, Gordon Street, FOOTS	CRAY VIC 3011		
Co-ordinates (GDA94)	Latitude: -37.792354	Longitude:	144.886432	
Transmitter details				
Assigned frequency	422.162500 MHz			
Bandwidth	12.5000 kHz			
Freq. assign. ID	0002214705			
Transmitter power	10.00 W			
EIRP	10.00 W			
Emission designator	10K1D7W			

Afficentia details	
Antenna ID	80881
Antenna polarisation	V - Vertical linear
Antenna azimuth	
Antenna height (m)	10
Antenna type	Unknown antenna type, size or specifications-

Antenna azimuth	
Antenna height (m)	10
Antenna type	Unknown antenna type, size or specifications-
Receiver details	
Assigned frequency	427.662500 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0002214706
Transmitter power	N/A
EIRP	N/A
Emission designator	10K1D7W
Antenna details	
Antenna ID	80881
Antenna polarisation	V - Vertical linear
Antenna azimuth	
A 4	1.0

Antenna details	
Antenna ID	80881
Antenna polarisation	V - Vertical linear
Antenna azimuth	
Antenna height (m)	10
Antenna type	Unknown antenna type, size or specifications-

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:

10010693
Box Hill Railway Station, Station St / Bank St, Box Hill VIC
Latitude: -37.819231 Longitude: 145.12155
422.162500 MHz
12.5000 kHz
0002326247
5.00 W
5.00 W
10K1D7W
77
V - Vertical linear
6
Radiax (Leaky feeder)-Z
427.662500 MHz
12.5000 kHz
0002326248
N/A
N/A
10K1D7W
77

V - Vertical linear

Radiax (Leaky feeder)-Z

6

Antenna polarisation
Antenna azimuth
Antenna height (m)

Antenna type

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	10010692
Site address	Broadmeadows Railway Station, Johnstone St / Pascoe Vale Rd, Broadmeadows VIC
Co-ordinates (GDA94)	Latitude: -37.683289 Longitude: 144.919313
Transmitter details	
Assigned frequency	422.162500 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0002326249
Transmitter power	5.00 W
EIRP	5.00 W
Emission designator	10K1D7W
Antenna details	·
Antenna ID	77
Antenna polarisation	V - Vertical linear
Antenna azimuth	
Antenna height (m)	6
Antenna type	Radiax (Leaky feeder)-Z
Receiver details	
Assigned frequency	427.662500 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0002326250
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)	6
Antenna type	Radiax (Leaky feeder)-Z

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:

10010691
Caulfield Railway Station, Station St / Normanby Ave, Caulfield VIC
Latitude: -37.877326 Longitude: 145.042342
422.162500 MHz
12.5000 kHz
0002326251
5.00 W
5.00 W
10K1D7W
77
V - Vertical linear
6
Radiax (Leaky feeder)-Z
427.662500 MHz
12.5000 kHz
0002326252
N/A
N/A
10K1D7W
77
V - Vertical linear

Antenna azimuth
Antenna height (m)

Antenna type

6

Radiax (Leaky feeder)-Z

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	10010689
Site address	Clifton Hill Railway Station, Heidelberg Rd / John St, Clifton Hill VIC
Co-ordinates (GDA94)	Latitude: -37.78857 Longitude: 144.99551
Transmitter details	
Assigned frequency	422.162500 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0002326253
Transmitter power	5.00 W
EIRP	5.00 W
Emission designator	10K1D7W
Antenna details	
Antenna ID	77
Antenna polarisation	V - Vertical linear
Antenna azimuth	
Antenna height (m)	6
Antenna type	Radiax (Leaky feeder)-Z
Receiver details	
Assigned frequency	427.662500 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0002326254
Transmitter power	N/A
EIRP	N/A
Emission designator	10K1D7W
Antenna details	
Antenna ID	77
A ( 1 ' ('	M M C 18

Antenna polarisation

Antenna azimuth
Antenna height (m)

Antenna type

V - Vertical linear

Radiax (Leaky feeder)-Z

6

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	10010685
Site address	Macleod Railway Station, Birdwood Ave, Macleod VIC
Co-ordinates (GDA94)	Latitude: -37.726005 Longitude: 145.06939
Transmitter details	
Assigned frequency	422.162500 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0002326255
Transmitter power	5.00 W
EIRP	5.00 W
Emission designator	10K1D7W
Antenna details	
Antenna ID	77
Antenna polarisation	V - Vertical linear
Antenna azimuth	
Antenna height (m)	6
Antenna type	Radiax (Leaky feeder)-Z
Receiver details	
Assigned frequency	427.662500 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0002326256
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)

Antenna type

6

Radiax (Leaky feeder)-Z

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 23:

Site details	
Site ID	10010683
Site address	Mordialloc Railway Station, Bear St / Albert St, Mordialloc VIC
Co-ordinates (GDA94)	Latitude: -38.00605 Longitude: 145.08711
Transmitter details	
Assigned frequency	422.162500 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0002326257
Transmitter power	5.00 W
EIRP	5.00 W
Emission designator	10K1D7W
Antenna details	
Antenna ID	77
Antenna polarisation	V - Vertical linear
Antenna azimuth	
Antenna height (m)	6
Antenna type	Radiax (Leaky feeder)-Z
Receiver details	
Assigned frequency	427.662500 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0002326258
Transmitter power	N/A
EIRP	N/A
Emission designator	10K1D7W
Antenna details	
Antenna ID	77
Antenna polarisation	V - Vertical linear

6

Radiax (Leaky feeder)-Z

Antenna azimuth
Antenna height (m)

Antenna type

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 24:

Site details	
Site ID	10010682
Site address	Springvale Railway Station, Springvale Rd / Lightwood Rd, Springvale VIC
Co-ordinates (GDA94)	Latitude: -37.949033 Longitude: 145.153053
Transmitter details	
Assigned frequency	422.162500 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0002326259
Transmitter power	5.00 W
EIRP	5.00 W
Emission designator	10K1D7W
Antenna details	
Antenna ID	77
Antenna polarisation	V - Vertical linear
Antenna azimuth	
Antenna height (m)	6
Antenna type	Radiax (Leaky feeder)-Z
Receiver details	
Assigned frequency	427.662500 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0002326260
Transmitter power	N/A
EIRP	N/A
Emission designator	10K1D7W
Antenna details	
Antenna ID	77

V - Vertical linear

Radiax (Leaky feeder)-Z

6

Antenna polarisation
Antenna azimuth
Antenna height (m)

Antenna type

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 25:

77

6

V - Vertical linear

Radiax (Leaky feeder)-Z

Antenna ID

Antenna type

Antenna polarisation
Antenna azimuth
Antenna height (m)

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 26:

Site details	
Site ID	10010676
Site address	Werribee Railway Station, Manly St, Werribee VIC
Co-ordinates (GDA94)	Latitude: -37.899272 Longitude: 144.661527
Transmitter details	
Assigned frequency	422.162500 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0002326263
Transmitter power	5.00 W
EIRP	5.00 W
Emission designator	10K1D7W
Antenna details	
Antenna ID	77
Antenna polarisation	V - Vertical linear
Antenna azimuth	
Antenna height (m)	6
Antenna type	Radiax (Leaky feeder)-Z
Receiver details	
Assigned frequency	427.662500 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0002326264
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)

Antenna type

6

Radiax (Leaky feeder)-Z

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**

Site details

#### Station 27:

Site ID	10023307	
Site address	Ormond railway station building, Northwest corner of North and K Ormond VIC	Katandra Roads,
Co-ordinates (GDA94)	Latitude: -37.903592 Longitude: 145.0395	69
Transmitter details		
Assigned frequency	422.162500 MHz	
Bandwidth	12.5000 kHz	
Freq. assign. ID	0003087824	
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)	3	
Antenna type	Unknown antenna type, size or specifications-	
Receiver details		

Antenna type	Officiowit afficiate by Specifications-
Receiver details	
Assigned frequency	427.662500 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0003087825
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

#### **Special Conditions applying to Station 27**

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

Unknown antenna type, size or specifications-

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

Antenna type

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 28:

Site details	
Site ID	10033791
Site address	Mernda Train Station, Bridge Inn Road opp. Station Road, MERNDA VIC
Co-ordinates (GDA94)	Latitude: -37.602357 Longitude: 145.100949

Transmitter details	
Assigned frequency	422.162500 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0004020154
Transmitter power	5.00 W
EIRP	5.00 W
Emission designator	10K1D7W
Antenna details	
Antenna ID	77
Antenna polarisation	V - Vertical linear
Antenna azimuth	
Antenna height (m)	3
Antenna type	Radiax (Leaky feeder)-Z
Receiver details	
Assigned frequency	427.662500 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0004020155
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)	3
Antenna type	Radiax (Leaky feeder)-Z

# **Special Conditions applying to Station 28**

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

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 29:

Site details	
Site ID	10033792
Site address	Clayton Train Station, Cnr Clayton & Carinish Roads, CLAYTON VIC
Co-ordinates (GDA94)	Latitude: -37.924592 Longitude: 145.120606

Transmitter details	
Assigned frequency	422.162500 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0004020156
Transmitter power	5.00 W
EIRP	5.00 W
Emission designator	10K1D7W
Antenna details	·
Antenna ID	77
Antenna polarisation	V - Vertical linear
Antenna azimuth	
Antenna height (m)	3
Antenna type	Radiax (Leaky feeder)-Z
Receiver details	
Assigned frequency	427.662500 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0004020157
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)	3
Antenna type	Radiax (Leaky feeder)-Z

# **Special Conditions applying to Station 29**

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

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 30:

Site details			
Site ID	10033793		
Site address	Hawkestowe Train Station, Cnr VIC	Plenty Road & Hawkesto	we Parade, SOUTH MORANG
Co-ordinates (GDA94)	Latitude: -37.622576	Longitude: 1	45.097382
Transmitter details			
Assigned frequency	422.162500 MHz		
Bandwidth	12.5000 kHz		
Freq. assign. ID	0004020158		

<b>Antanna</b>	

**EIRP** 

Transmitter power

Emission designator

Antenna detans	
Antenna ID	77
Antenna polarisation	V - Vertical linear
Antenna azimuth	
Antenna height (m)	3
Antenna type	Radiax (Leaky feeder)-Z

Antenna type	Radiax (Leaky feeder)-Z		
Receiver details	Receiver details		
Assigned frequency	427.662500 MHz		
Bandwidth	12.5000 kHz		
Freq. assign. ID	0004020159		
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)	3		
Antenna type	Radiax (Leaky feeder)-Z		

### **Special Conditions applying to Station 30**

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

5.00 W

5.00 W 10K1D7W

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 31:

Site details	
Site ID	10033794
Site address	Noble Park Train Station, Cnr Mons Parade & Leonard Avenue, NOBLE PARK VIC
Co-ordinates (GDA94)	Latitude: -37.966468 Longitude: 145.176176

Transmitter details	
	400 400500 MHz
Assigned frequency	422.162500 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0004020160
Transmitter power	5.00 W
EIRP	5.00 W
Emission designator	10K1D7W
Antenna details	
Antenna ID	77
Antenna polarisation	V - Vertical linear
Antenna azimuth	
Antenna height (m)	3
Antenna type	Radiax (Leaky feeder)-Z
Receiver details	
Assigned frequency	427.662500 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0004020161
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)	3
Antenna type	Radiax (Leaky feeder)-Z

# **Special Conditions applying to Station 31**

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