

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	10502699/9
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

Advisory Notes applying to licence no.: 10502699/9

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).

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

Transmitter details

Assigned frequency	421.875000 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0002206957
Transmitter power	50.00 W
EIRP	50.00 W
Emission designator	10K1D7W

Antenna details

Antenna ID	92357
Antenna polarisation	V - Vertical linear
Antenna azimuth	
Antenna height (m)	250
Antenna type	Non-radiating feeder cable

Receiver details

Assigned frequency	427.375000 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0002206958
Transmitter power	N/A
EIRP	N/A
Emission designator	10K1D7W

Antenna details

Antenna ID	92357
Antenna polarisation	V - Vertical linear
Antenna azimuth	
Antenna height (m)	250
Antenna type	Non-radiating feeder cable

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	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	421.875000 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0002206959
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	427.375000 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0002206960
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-

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	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	421.875000 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0002206961
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	427.375000 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0002206962
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-

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

Transmitter details

Assigned frequency	421.875000 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0002206963
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

Assigned frequency	427.375000 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0002206964
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-

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

Transmitter details

Assigned frequency	421.875000 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0002206965
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	427.375000 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0002206966
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-

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	10010688
Site address	Epworth Hospital, 89 Bridge Road, Richmond VIC
Co-ordinates (GDA94)	Latitude: -37.817156 Longitude: 144.992977

Transmitter details

Assigned frequency	421.875000 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0002206967
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	427.375000 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0002206968
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-

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 7:

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	421.875000 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0002206969
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	427.375000 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0002206970
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 8:

Site details

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

Transmitter details

Assigned frequency	421.875000 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0002206971
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	427.375000 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0002206972
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 9:

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	421.875000 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0002206973
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	427.375000 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0002206974
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-

Technical characteristics

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Supplementary Station Site

Station 10:

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	421.875000 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0002206975
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	427.375000 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0002206976
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-

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	47316
Site address	Parliament Underground Station, MELBOURNE VIC 3000
Co-ordinates (GDA94)	Latitude: -37.811313 Longitude: 144.972958

Transmitter details

Assigned frequency	421.875000 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0002206977
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	427.375000 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0002206978
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 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	421.875000 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0002206979
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	427.375000 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0002206980
Transmitter power	N/A
EIRP	N/A
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

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

Transmitter details

Assigned frequency	421.875000 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0002206981
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	427.375000 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0002206982
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 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	421.875000 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0002206983
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	427.375000 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0002206984
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-

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	421.875000 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0002206985
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	427.375000 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0002206986
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-

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	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	421.875000 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0002206987
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	427.375000 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0002206988
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 17:

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	421.875000 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0002206989
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	427.375000 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0002206990
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-

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	142229
Site address	AAMI Park Stadium, Olympic Boulevard, MELBOURNE VIC 3004
Co-ordinates (GDA94)	Latitude: -37.825093 Longitude: 144.98441

Transmitter details

Assigned frequency	421.875000 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0002571592
Transmitter power	8.30 W
EIRP	8.30 W
Emission designator	10K1D7W

Antenna details

Antenna ID	80881
Antenna polarisation	V - Vertical linear
Antenna azimuth	
Antenna height (m)	4
Antenna type	Unknown antenna type, size or specifications-

Receiver details

Assigned frequency	427.375000 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0002571593
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)	4
Antenna type	Unknown antenna type, size or specifications-

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	43428
Site address	Rod Laver Arena Melbourne Park, cnr Batman Avenue & Swan Street, MELBOURNE VIC 3002
Co-ordinates (GDA94)	Latitude: -37.821548 Longitude: 144.978586

Transmitter details	
Assigned frequency	421.875000 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0002571594
Transmitter power	8.30 W
EIRP	8.30 W
Emission designator	10K1D7W

Antenna details	
Antenna ID	80881
Antenna polarisation	V - Vertical linear
Antenna azimuth	
Antenna height (m)	4
Antenna type	Unknown antenna type, size or specifications-

Receiver details	
Assigned frequency	427.375000 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0002571595
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)	4
Antenna type	Unknown antenna type, size or specifications-

Special Conditions applying to Station 19

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 20:

Site details

Site ID	10014800
Site address	Williams Landing SECC, 107 Overton Road, Williams Landing VIC
Co-ordinates (GDA94)	Latitude: -37.866551 Longitude: 144.744429

Transmitter details

Assigned frequency	421.875000 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0002761681
Transmitter power	8.30 W
EIRP	8.30 W
Emission designator	10K1D7W

Antenna details

Antenna ID	80881
Antenna polarisation	V - Vertical linear
Antenna azimuth	
Antenna height (m)	9
Antenna type	Unknown antenna type, size or specifications-

Receiver details

Assigned frequency	427.375000 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0002761682
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)	9
Antenna type	Unknown antenna type, size or specifications-

Special Conditions applying to Station 20

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.

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	10009935
Site address	Mercy Hospital, 300 Princes Highway, WERRIBEE VIC
Co-ordinates (GDA94)	Latitude: -37.886154 Longitude: 144.698711

Transmitter details

Assigned frequency	421.875000 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0003049279
Transmitter power	8.30 W
EIRP	8.30 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	427.375000 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0003049280
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-

Special Conditions applying to Station 21

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

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

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	9013197
Site address	24-26 A'Beckett St, MELBOURNE VIC 3000
Co-ordinates (GDA94)	Latitude: -37.808656 Longitude: 144.962026

Transmitter details

Assigned frequency	421.875000 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0003110277
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)	-5
Antenna type	Radiax (Leaky feeder)-Z

Receiver details

Assigned frequency	427.375000 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0003110278
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)	-5
Antenna type	Radiax (Leaky feeder)-Z

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.

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 23:

Site details

Site ID	10015945
Site address	1 Domain Road, SOUTH YARRA VIC
Co-ordinates (GDA94)	Latitude: -37.8329 Longitude: 144.9726

Transmitter details

Assigned frequency	421.875000 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0003110279
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)	-5
Antenna type	Radiax (Leaky feeder)-Z

Receiver details

Assigned frequency	427.375000 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0003110280
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)	-5
Antenna type	Radiax (Leaky feeder)-Z

Special Conditions applying to Station 23

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.

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 24:

Site details

Site ID	47315
Site address	Melbourne Central Underground Station, MELBOURNE VIC 3000
Co-ordinates (GDA94)	Latitude: -37.809962 Longitude: 144.962546

Transmitter details

Assigned frequency	421.875000 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0003303170
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)	-5
Antenna type	Radiax (Leaky feeder)-Z

Receiver details

Assigned frequency	427.375000 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0003303171
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)	-5
Antenna type	Radiax (Leaky feeder)-Z

Special Conditions applying to Station 24

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.

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 25:

Site details

Site ID	10020395
Site address	762 - 772 Blackburn Rd, CLAYTON VIC
Co-ordinates (GDA94)	Latitude: -37.91249 Longitude: 145.1398

Transmitter details

Assigned frequency	421.875000 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0003644030
Transmitter power	10.00 W
EIRP	8.30 W
Emission designator	10K1D7W

Antenna details

Antenna ID	80881
Antenna polarisation	V - Vertical linear
Antenna azimuth	
Antenna height (m)	27
Antenna type	Unknown antenna type, size or specifications-

Receiver details

Assigned frequency	427.375000 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0003644031
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)	27
Antenna type	Unknown antenna type, size or specifications-

Special Conditions applying to Station 25

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

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

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 26:

Site details

Site ID	10015657
Site address	Sommerville Road, YARRAVILLE VIC
Co-ordinates (GDA94)	Latitude: -37.815139 Longitude: 144.901611

Transmitter details

Assigned frequency	421.875000 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0003644032
Transmitter power	1.00 W
EIRP	2.95 W
Emission designator	10K1D7W

Antenna details

Antenna ID	92965
Antenna polarisation	V - Vertical linear
Antenna azimuth	
Antenna height (m)	-9
Antenna type	Dipole

Receiver details

Assigned frequency	427.375000 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0003644033
Transmitter power	N/A
EIRP	N/A
Emission designator	10K1D7W

Antenna details

Antenna ID	92965
Antenna polarisation	V - Vertical linear
Antenna azimuth	
Antenna height (m)	-9
Antenna type	Dipole

Special Conditions applying to Station 26

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.

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 27:

Site details

Site ID	10035482
Site address	Rosanna Train Station, 5 Turnham Avenue, ROSANNA VIC
Co-ordinates (GDA94)	Latitude: -37.742913 Longitude: 145.066218

Transmitter details

Assigned frequency	421.875000 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0004181759
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	427.375000 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0004181760
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 27

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

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

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 28:

Site details

Site ID	10035483
Site address	Mooroolbark Train Station, 66-94 Manchester Road, MOOROOLBARK VIC
Co-ordinates (GDA94)	Latitude: -37.784778 Longitude: 145.312725

Transmitter details

Assigned frequency	421.875000 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0004181761
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	427.375000 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0004181762
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.

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

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 29:

Site details

Site ID	10035484
Site address	Lilydale Train Station, 4 William Street West, LILYDALE VIC
Co-ordinates (GDA94)	Latitude: -37.757444 Longitude: 145.345539

Transmitter details

Assigned frequency	421.875000 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0004181763
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	427.375000 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0004181764
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.

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

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 30:

Site details

Site ID	10011487
Site address	Parkville Station, Barry Street, Carlton VIC
Co-ordinates (GDA94)	Latitude: -37.800024 Longitude: 144.959847

Transmitter details

Assigned frequency	421.875000 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0004195888
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)	-9
Antenna type	Radiax (Leaky feeder)-Z

Receiver details

Assigned frequency	427.375000 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0004195889
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)	-9
Antenna type	Radiax (Leaky feeder)-Z

Special Conditions applying to Station 30

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

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