

Apparatus Licence

Issued by Delegate of the Australian Communications and Media Authority



Licensee details

Customer ID	1315913
Licensee	DEPARTMENT OF JUSTICE AND REGULATION
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	10502662/2
Date of issue	06/11/2020
Date of effect	06/11/2020
Date of expiry	01/12/2021

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.: 10502662/2

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	12016
Site address	Telstra Site, Dunns Hill, FERNY CREEK VIC 3786
Co-ordinates (GDA94)	Latitude: -37.878987 Longitude: 145.334539

Transmitter details	
Assigned frequency	421.950000 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0002206919
Transmitter power	25.00 W
EIRP	25.00 W
Emission designator	10K1D7W

Antenna details	
Antenna ID	92357
Antenna polarisation	V - Vertical linear
Antenna azimuth	
Antenna height (m)	2
Antenna type	Non-radiating feeder cable

Receiver details	
Assigned frequency	427.450000 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0002206920
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)	2
Antenna type	Non-radiating feeder cable

Technical characteristics

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Supplementary Station Site

Station 2:

Site details	
Site ID	10010695
Site address	CFA tower, 4 Bayview Road, Belgrave VIC
Co-ordinates (GDA94)	Latitude: -37.909555 Longitude: 145.356790

Transmitter details	
Assigned frequency	421.950000 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0002206921
Transmitter power	500 mW
EIRP	6.29 W
Emission designator	10K1D7W

Antenna details	
Antenna ID	80792
Antenna polarisation	V - Vertical linear
Antenna azimuth	300.00
Antenna height (m)	13
Antenna type	Corner Reflector (Vertical Polarisation)-R

Receiver details	
Assigned frequency	427.450000 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0002206922
Transmitter power	N/A
EIRP	N/A
Emission designator	10K1D7W

Antenna details	
Antenna ID	80792
Antenna polarisation	V - Vertical linear
Antenna azimuth	300.00
Antenna height (m)	13
Antenna type	Corner Reflector (Vertical Polarisation)-R

Technical characteristics

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Supplementary Station Site

Station 3:

Site details	
Site ID	10010690
Site address	Chirnside Park Shopping Centre, 239-241 Maroondah Hwy, Chirnside Park VIC
Co-ordinates (GDA94)	Latitude: -37.75681 Longitude: 145.312884

Transmitter details	
Assigned frequency	421.950000 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0002206923
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	427.450000 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0002206924
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

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Supplementary Station Site

Station 4:

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	421.950000 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0002206925
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	427.450000 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0002206926
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 5:

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	421.950000 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0002206927
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	427.450000 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0002206928
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

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Supplementary Station Site

Station 6:

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	421.950000 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0002206929
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	427.450000 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0002206930
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

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Supplementary Station Site

Station 7:

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	421.950000 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0002206931
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	427.450000 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0002206932
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 8:

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	421.950000 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0002206933
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	427.450000 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0002206934
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 9:

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	421.950000 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0002206935
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	427.450000 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0002206936
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	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	421.950000 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0002206937
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)	2
Antenna type	Non-radiating feeder cable

Receiver details	
Assigned frequency	427.450000 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0002206938
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)	2
Antenna type	Non-radiating feeder cable

Technical characteristics

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Supplementary Station Site

Station 11:

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	421.950000 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0002206939
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	427.450000 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0002206940
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

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Supplementary Station Site

Station 12:

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	421.950000 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0002904133
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	427.450000 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0002904134
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 12

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.