

Apparatus Licence

Issued by Delegate of the Australian Communications and Media Authority



Licensee details

Customer ID	20013687
Licensee	SYDNEY TRAINS
Licensee address	Attn: Mr Christopher Go Level 2, Clyde Hub, 146-148 Manchester Road, Clyde, NSW 2142

Licence details

Licence service	Land Mobile
Licence subservice	Land Mobile System - > 30MHz
Licence number	1233649/1
Callsign	VL2RW
Date of issue	12/11/2021
Date of effect	12/11/2021
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

ACMA website: www.acma.gov.au

Advisory Notes applying to licence no.: 1233649/1

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	5371
Site address	Railway Station, KOGARAH NSW 2217
Co-ordinates (GDA94)	Latitude: -33.962238 Longitude: 151.132628

Transmitter details	
Assigned frequency	418.175000 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0000690312
Transmitter power	50.00 W
EIRP	83.00 W
Emission designator	10K1F3E

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

Receiver details	
Assigned frequency	408.725000 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0000690315
Transmitter power	N/A
EIRP	N/A
Emission designator	10K1F3E

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

Special Conditions applying to Station 1

No interference shall be caused to any Radiocommunication station or service and no protection from interference by such stations or services shall be afforded.

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	40144
Site address	Railway site, Prince Alfred Sidings 1, CENTRAL NSW 2010
Co-ordinates (GDA94)	Latitude: -33.887465 Longitude: 151.203998

Transmitter details	
Assigned frequency	418.175000 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0000690300
Transmitter power	50.00 W
EIRP	83.00 W
Emission designator	10K1F3E

Antenna details	
Antenna ID	74
Antenna polarisation	V - Vertical linear
Antenna azimuth	
Antenna height (m)	0
Antenna type	Colinear Vertical-U

Receiver details	
Assigned frequency	408.725000 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0000690301
Transmitter power	N/A
EIRP	N/A
Emission designator	10K1F3E

Antenna details	
Antenna ID	74
Antenna polarisation	V - Vertical linear
Antenna azimuth	
Antenna height (m)	0
Antenna type	Colinear Vertical-U

Special Conditions applying to Station 2

No interference shall be caused to any Radiocommunication station or service and no protection from interference by such stations or services shall be afforded.

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	40167
Site address	Railway Station, TURRAMURRA NSW 2074
Co-ordinates (GDA94)	Latitude: -33.731598 Longitude: 151.128144

Transmitter details	
Assigned frequency	418.175000 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0000690302
Transmitter power	50.00 W
EIRP	83.00 W
Emission designator	10K1F3E

Antenna details	
Antenna ID	7
Antenna polarisation	V - Vertical linear
Antenna azimuth	
Antenna height (m)	0
Antenna type	Yagi (Vertical Polarisation)-Y

Receiver details	
Assigned frequency	408.725000 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0000690303
Transmitter power	N/A
EIRP	N/A
Emission designator	10K1F3E

Antenna details	
Antenna ID	7
Antenna polarisation	V - Vertical linear
Antenna azimuth	
Antenna height (m)	0
Antenna type	Yagi (Vertical Polarisation)-Y

Special Conditions applying to Station 3

No interference shall be caused to any Radiocommunication station or service and no protection from interference by such stations or services shall be afforded.

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	54348
Site address	Railway site, BANKSTOWN NSW 2200
Co-ordinates (GDA94)	Latitude: -33.917786 Longitude: 151.034309

Transmitter details	
Assigned frequency	418.175000 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0000690304
Transmitter power	50.00 W
EIRP	83.00 W
Emission designator	10K1F8WWN

Antenna details	
Antenna ID	7
Antenna polarisation	V - Vertical linear
Antenna azimuth	
Antenna height (m)	0
Antenna type	Yagi (Vertical Polarisation)-Y

Receiver details	
Assigned frequency	408.725000 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0000690305
Transmitter power	N/A
EIRP	N/A
Emission designator	10K1F8WWN

Antenna details	
Antenna ID	7
Antenna polarisation	V - Vertical linear
Antenna azimuth	
Antenna height (m)	0
Antenna type	Yagi (Vertical Polarisation)-Y

Special Conditions applying to Station 4

No interference shall be caused to any Radiocommunication station or service and no protection from interference by such stations or services shall be afforded.

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	54460
Site address	Railway Station, PENDLE HILL NSW 2145
Co-ordinates (GDA94)	Latitude: -33.801277 Longitude: 150.956186

Transmitter details	
Assigned frequency	418.175000 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0000690306
Transmitter power	50.00 W
EIRP	83.00 W
Emission designator	10K1F8WWN

Antenna details	
Antenna ID	7
Antenna polarisation	V - Vertical linear
Antenna azimuth	
Antenna height (m)	0
Antenna type	Yagi (Vertical Polarisation)-Y

Receiver details	
Assigned frequency	408.725000 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0000690307
Transmitter power	N/A
EIRP	N/A
Emission designator	10K1F8WWN

Antenna details	
Antenna ID	7
Antenna polarisation	V - Vertical linear
Antenna azimuth	
Antenna height (m)	0
Antenna type	Yagi (Vertical Polarisation)-Y

Special Conditions applying to Station 5

No interference shall be caused to any Radiocommunication station or service and no protection from interference by such stations or services shall be afforded.

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	134146
Site address	Macquarie Park Underground, Macquarie Park Underground Rail Station, MACQUARIE PARK NSW 2113
Co-ordinates (GDA94)	Latitude: -33.785033 Longitude: 151.128547

Transmitter details	
Assigned frequency	418.175000 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0000690308
Transmitter power	5.00 W
EIRP	8.40 W
Emission designator	10K1F3E

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	408.725000 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0000690309
Transmitter power	N/A
EIRP	N/A
Emission designator	10K1F3E

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

No interference shall be caused to any Radiocommunication station or service and no protection from interference by such stations or services shall be afforded.

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	200871
Site address	Olympic Park Railway Station (Comms room p401), HOMEBUSH NSW 2140
Co-ordinates (GDA94)	Latitude: -33.847371 Longitude: 151.069100

Transmitter details	
Assigned frequency	418.175000 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0000690310
Transmitter power	10.00 W
EIRP	41.00 W
Emission designator	10K1F3E

Antenna details	
Antenna ID	4
Antenna polarisation	H - Horizontal linear
Antenna azimuth	
Antenna height (m)	0
Antenna type	Corner Reflector (Horizontal Polarisation)-R

Receiver details	
Assigned frequency	408.725000 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0000690311
Transmitter power	N/A
EIRP	N/A
Emission designator	10K1F3E

Antenna details	
Antenna ID	4
Antenna polarisation	H - Horizontal linear
Antenna azimuth	
Antenna height (m)	0
Antenna type	Corner Reflector (Horizontal Polarisation)-R

Special Conditions applying to Station 7

No interference shall be caused to any Radiocommunication station or service and no protection from interference by such stations or services shall be afforded.