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	1234258/1
Callsign	VL2RW
Date of issue	04/12/2023
Date of effect	04/12/2023
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.: 1234258/1

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	40133
Site address	Railway Station, AUBURN NSW 2144
Co-ordinates (GDA94)	Latitude: -33.84886756 Longitude: 151.03253885

Transmitter details	
Assigned frequency	418.125000 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0000693820
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	408.675000 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0000693823
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	3400
Site address	Underground Railway Line Near Town Hall Railway Station, SYDNEY NSW 2000
Co-ordinates (GDA94)	Latitude: -33.87335676 Longitude: 151.20742894

Transmitter details	
Assigned frequency	418.125000 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0000693806
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	408.675000 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0000693807
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 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	40127
Site address	Railway site, WOLLONGONG NSW 2500
Co-ordinates (GDA94)	Latitude: -34.42695768 Longitude: 150.88841005

Transmitter details	
Assigned frequency	418.125000 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0000693808
Transmitter power	50.00 W
EIRP	83.00 W
Emission designator	10K1F3E
Antenna details	
Antenna ID	107
Antenna polarisation	V - Vertical linear
Antenna azimuth	
Antenna height (m)	0
Antenna type	Yagi (Vertical Polarisation)-Y

Receiver details	
Assigned frequency	408.675000 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0000693809
Transmitter power	N/A
EIRP	N/A
Emission designator	10K1F3E
Antenna details	
Antenna ID	107
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	40144
Site address	Railway site, Prince Alfred Sidings 1, CENTRAL NSW 2010
Co-ordinates (GDA94)	Latitude: -33.88746482 Longitude: 151.20399827

Transmitter details	
Assigned frequency	418.125000 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0000693810
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	408.675000 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0000693811
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 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	40145
Site address	Railway site, Redfern 2, REDFERN NSW 2016
Co-ordinates (GDA94)	Latitude: -33.89154388 Longitude: 151.19926345

Transmitter details	
Assigned frequency	418.125000 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0000693812
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	408.675000 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0000693813
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 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	54263
Site address	Railway Station, CAMPBELLTOWN NSW 2560
Co-ordinates (GDA94)	Latitude: -34.06533665 Longitude: 150.81227178

Transmitter details	
Assigned frequency	418.125000 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0000693814
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	408.675000 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0000693815
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 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	54270
Site address	Railway Station, MINTO NSW 2565
Co-ordinates (GDA94)	Latitude: -34.01010112 Longitude: 150.85006932

Transmitter details	
Assigned frequency	418.125000 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0000693816
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	408.675000 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0000693817
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 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.

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	202261
Site address	Tunnel Opening City Rail, CENTRAL NSW 2010
Co-ordinates (GDA94)	Latitude: -33.88879884 Longitude: 151.20272633

Transmitter details	
Assigned frequency	418.125000 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0000693818
Transmitter power	10.00 W
EIRP	17.00 W
Emission designator	10K1F3E
Antenna details	
Antenna ID	70085
Antenna polarisation	V - Vertical linear
Antenna azimuth	
Antenna height (m)	0
Antenna type	Dipole-D

Receiver details	
Assigned frequency	408.675000 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0000693819
Transmitter power	N/A
EIRP	N/A
Emission designator	10K1F3E
Antenna details	
Antenna ID	70085
Antenna polarisation	V - Vertical linear
Antenna azimuth	
Antenna height (m)	0
Antenna type	Dipole-D

Special Conditions applying to Station 8

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