

# 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	1234362/1
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](mailto:info@acma.gov.au)

ACMA website: [www.acma.gov.au](http://www.acma.gov.au)

## **Advisory Notes applying to licence no.: 1234362/1**

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](http://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	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	418.137500 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0000694708
Transmitter power	50.00 W
EIRP	83.00 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	408.687500 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0000694711
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 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	5461
Site address	Railway Station, CRONULLA NSW 2230
Co-ordinates (GDA94)	Latitude: -34.05593878 Longitude: 151.15143017

#### Transmitter details

Assigned frequency	418.137500 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0000694696
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	408.687500 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0000694697
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 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	40119
Site address	Rail Corp Site, Nth PI, HELENSBURGH NSW 2508
Co-ordinates (GDA94)	Latitude: -34.17410748 Longitude: 151.00473306

#### Transmitter details

Assigned frequency	418.137500 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0000694698
Transmitter power	50.00 W
EIRP	83.00 W
Emission designator	10K1F3E

#### Antenna details

Antenna ID	106
Antenna polarisation	H - Horizontal linear
Antenna azimuth	
Antenna height (m)	0
Antenna type	Yagi (Horizontal Polarisation)-Y

#### Receiver details

Assigned frequency	408.687500 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0000694699
Transmitter power	N/A
EIRP	N/A
Emission designator	10K1F3E

#### Antenna details

Antenna ID	106
Antenna polarisation	H - Horizontal linear
Antenna azimuth	
Antenna height (m)	0
Antenna type	Yagi (Horizontal 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	40137
Site address	Railway Station, CLYDE NSW 2142
Co-ordinates (GDA94)	Latitude: -33.83627077 Longitude: 151.01737592

#### Transmitter details

Assigned frequency	418.137500 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0000694700
Transmitter power	50.00 W
EIRP	83.00 W
Emission designator	10K1F3E

#### Antenna details

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

#### Receiver details

Assigned frequency	408.687500 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0000694701
Transmitter power	N/A
EIRP	N/A
Emission designator	10K1F3E

#### Antenna details

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

## 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	40146
Site address	Railway Station, CHATSWOOD NSW 2067
Co-ordinates (GDA94)	Latitude: -33.79756509 Longitude: 151.18092843

#### Transmitter details

Assigned frequency	418.137500 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0000694702
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	408.687500 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0000694703
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 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	40170
Site address	Railway Station, BEROWRA NSW 2081
Co-ordinates (GDA94)	Latitude: -33.62146061 Longitude: 151.15585968

#### Transmitter details

Assigned frequency	418.137500 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0000694704
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	408.687500 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0000694705
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 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	54352
Site address	Railway Station, HURLSTONE PARK NSW 2193
Co-ordinates (GDA94)	Latitude: -33.91011651 Longitude: 151.13246801

#### Transmitter details

Assigned frequency	418.137500 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0000694706
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	408.687500 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0000694707
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.