

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	1141360/1
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.: 1141360/1

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).

This service is authorised to operate outside of harmonised frequency ranges as set out in Australian Radiofrequency Spectrum Plan footnote AUS98.

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	54480
Site address	Railway site, Tunnel 2/3, ZIG ZAG NSW 2790
Co-ordinates (GDA94)	Latitude: -33.49603651 Longitude: 150.22761423

Transmitter details

Assigned frequency	465.475000 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0000628030
Transmitter power	10.00 W
EIRP	83.00 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	455.475000 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0000628033
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

Advisory Notes applying to Station 1

This frequency band is currently under review to accommodate changes in technology. This review may lead to a requirement to change frequency or to cease transmission.

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	54459
Site address	Railway site, NEWNES JUNCTION NSW 2790
Co-ordinates (GDA94)	Latitude: -33.47263424 Longitude: 150.24955356

Transmitter details

Assigned frequency	465.475000 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0000628016
Transmitter power	5.00 W
EIRP	8.40 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	455.475000 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0000628017
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

Advisory Notes applying to Station 2

This frequency band is currently under review to accommodate changes in technology. This review may lead to a requirement to change frequency or to cease transmission.

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	54478
Site address	Railway site, ZIG ZAG NSW 2790
Co-ordinates (GDA94)	Latitude: -33.47256868 Longitude: 150.20232911

Transmitter details

Assigned frequency	465.475000 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0000628018
Transmitter power	5.00 W
EIRP	8.40 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	455.475000 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0000628019
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

Advisory Notes applying to Station 3

This frequency band is currently under review to accommodate changes in technology. This review may lead to a requirement to change frequency or to cease transmission.

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	54479
Site address	Railway site, Tunnel 1 Up, ZIG ZAG NSW 2790
Co-ordinates (GDA94)	Latitude: -33.4896644 Longitude: 150.23696401

Transmitter details

Assigned frequency	465.475000 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0000628021
Transmitter power	5.00 W
EIRP	8.40 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	455.475000 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0000628024
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

Advisory Notes applying to Station 4

This frequency band is currently under review to accommodate changes in technology. This review may lead to a requirement to change frequency or to cease transmission.

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	54482
Site address	Railway site, Tunnel 6/7, ZIG ZAG NSW 2790
Co-ordinates (GDA94)	Latitude: -33.48944061 Longitude: 150.21491326

Transmitter details

Assigned frequency	465.475000 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0000628026
Transmitter power	5.00 W
EIRP	8.40 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	455.475000 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0000628027
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

Advisory Notes applying to Station 5

This frequency band is currently under review to accommodate changes in technology. This review may lead to a requirement to change frequency or to cease transmission.

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	54484
Site address	Tunnel 9/10, ZIG ZAG NSW 2790
Co-ordinates (GDA94)	Latitude: -33.48290865 Longitude: 150.20909722

Transmitter details

Assigned frequency	465.475000 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0000628028
Transmitter power	5.00 W
EIRP	8.40 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	455.475000 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0000628029
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

Advisory Notes applying to Station 6

This frequency band is currently under review to accommodate changes in technology. This review may lead to a requirement to change frequency or to cease transmission.