

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	1234351/1
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.: 1234351/1

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	40117
Site address	Railway Station, CORRIMAL NSW 2518
Co-ordinates (GDA94)	Latitude: -34.375587 Longitude: 150.905359

Transmitter details	
Assigned frequency	418.162500 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0000694386
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	408.712500 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0000694389
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 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.

This licence authorises the operation of a supplementary station to be used in conjunction with the main transmitter solely to improve reliability within the service area of the main transmitter.

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.

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	40120
Site address	Railway Station, HELENSBURGH NSW 2508
Co-ordinates (GDA94)	Latitude: -34.176913 Longitude: 150.994252

Transmitter details	
Assigned frequency	418.162500 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0000694380
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	408.712500 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0000694381
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.

This licence authorises the operation of a supplementary station to be used in conjunction with the main transmitter solely to improve reliability within the service area of the main transmitter.

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.

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	203154
Site address	Rail Access Site, ROSEMONT NSW 2529
Co-ordinates (GDA94)	Latitude: -34.583432 Longitude: 150.842162

Transmitter details	
Assigned frequency	418.162500 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0000694382
Transmitter power	10.00 W
EIRP	41.00 W
Emission designator	10K1F2D

Antenna details	
Antenna ID	60126
Antenna polarisation	V - Vertical linear
Antenna azimuth	
Antenna height (m)	20
Antenna type	Yagi (Vertical Polarisation)-Y

Receiver details	
Assigned frequency	408.712500 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0000694383
Transmitter power	N/A
EIRP	N/A
Emission designator	10K1F2D

Antenna details	
Antenna ID	60126
Antenna polarisation	V - Vertical linear
Antenna azimuth	
Antenna height (m)	20
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.

This licence authorises the operation of a supplementary station to be used in conjunction with the main transmitter solely to improve reliability within the service area of the main transmitter.

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.

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	203157
Site address	Kiama Railway Station, KIAMA NSW 2533
Co-ordinates (GDA94)	Latitude: -34.673834 Longitude: 150.853460

Transmitter details	
Assigned frequency	418.162500 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0000694384
Transmitter power	10.00 W
EIRP	41.00 W
Emission designator	10K1F2D

Antenna details	
Antenna ID	60126
Antenna polarisation	V - Vertical linear
Antenna azimuth	
Antenna height (m)	20
Antenna type	Yagi (Vertical Polarisation)-Y

Receiver details	
Assigned frequency	408.712500 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0000694385
Transmitter power	N/A
EIRP	N/A
Emission designator	10K1F2D

Antenna details	
Antenna ID	60126
Antenna polarisation	V - Vertical linear
Antenna azimuth	
Antenna height (m)	20
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.

This licence authorises the operation of a supplementary station to be used in conjunction with the main transmitter solely to improve reliability within the service area of the main transmitter.

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.