

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	1234215/1
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.: 1234215/1

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	204017		
Site address	North End Railway Tunnel, BOMBO NSW 2533		
Co-ordinates (GDA94)	Latitude: -34.66354091	Longitude:	150.85257952

Transmitter details

Assigned frequency	418.400000 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0000693640
Transmitter power	10.00 W
EIRP	83.00 W
Emission designator	10K1F2D

Antenna details

Antenna ID	60126
Antenna polarisation	V - Vertical linear
Antenna azimuth	
Antenna height (m)	15
Antenna type	Yagi (Vertical Polarisation)-Y

Receiver details

Assigned frequency	408.950000 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0000693643
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)	15
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 -22dBm.

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	40130
Site address	Railway Station, DAPTO NSW 2530
Co-ordinates (GDA94)	Latitude: -34.49331992 Longitude: 150.79178358

Transmitter details

Assigned frequency	418.400000 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0000693630
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	408.950000 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0000693631
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 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 -22dBm.

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: -34.58343153 Longitude: 150.84216188

Transmitter details

Assigned frequency	418.400000 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0000693632
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	408.950000 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0000693633
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 -22dBm.

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	203155		
Site address	Rail Access Site, ALBION PARK RAIL NSW 2527		
Co-ordinates (GDA94)	Latitude: -34.56240192	Longitude:	150.7979684

Transmitter details

Assigned frequency	418.400000 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0000693634
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	408.950000 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0000693635
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 -22dBm.

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 5:

Site details

Site ID	203156
Site address	Rail Access Site, KIAMA DOWNS NSW 2533
Co-ordinates (GDA94)	Latitude: -34.64417582 Longitude: 150.85367932

Transmitter details

Assigned frequency	418.400000 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0000693636
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	408.950000 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0000693637
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 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.

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 -22dBm.

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 6:

Site details

Site ID	203157
Site address	Kiama Railway Station, KIAMA NSW 2533
Co-ordinates (GDA94)	Latitude: -34.67383393 Longitude: 150.8534596

Transmitter details

Assigned frequency	418.400000 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0000693638
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	408.950000 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0000693639
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 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.

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 -22dBm.

The level of all discreet spurious components, measured at the output of the transmitter, must not exceed -30dBm.