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	1233695/1
Callsign	VL2RW
Date of issue	04/12/2023
Date of effect	04/12/2023
Date of expiry	01/12/2024
Licence conditions	S

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

Certain information contained in this licence record will be disclosed in the Register of Radiocommunications Licences (RRL), established and maintained pursuant to Part 3.5 of the *Radiocommunications Act 1992*.

Advisory Notes applying to licence no.: 1233695/1

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).

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	40198		
Site address	Railway site East Portal, TICKHOLE TUNNEL NSW 2289		
Co-ordinates (GDA94)	Latitude: -32.94470279 Longitude: 151.68786022		
Transmitter details			
Assigned frequency	418.312500 MHz		
Bandwidth	12.5000 kHz		
Freq. assign. ID	0000690591		
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	408.862500 MHz		
Bandwidth	12.5000 kHz		
Freq. assign. ID	0000690594		
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

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	5890
Site address	State Rail Authority Communications Tower, Coorumbung Road, BROADMEADOW NSW 2289
Co-ordinates (GDA94)	Latitude: -32.92496183 Longitude: 151.73264157
Transmitter details	
Assigned frequency	418.312500 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0000690553
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	408.862500 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0000690554
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

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	40085		
Site address	Railway station, AWABA NSW 2283		
Co-ordinates (GDA94)	Latitude: -33.0131628	Longitude:	151.5418997
Transmitter details			
Assigned frequency	418.312500 MHz		
Bandwidth	12.5000 kHz		
Freq. assign. ID	0000690555		
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	408.862500 MHz		
Bandwidth	12.5000 kHz		
Freq. assign. ID	0000690556		
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 3

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	40173
Site address	City Rail Comms Pole, Railway Station, HAMILTON NSW 2296
Co-ordinates (GDA94)	Latitude: -32.91836283 Longitude: 151.74909735
Transmitter details	
Assigned frequency	418.312500 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0000690557
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	408.862500 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0000690558
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 4

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	40177
Site address	Yates Rd, OURIMBAH NSW 2258
Co-ordinates (GDA94)	Latitude: -33.34920266 Longitude: 151.3744901
Transmitter details	
Assigned frequency	418.312500 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0000690559
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	408.862500 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0000690560
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

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	40178		
Site address	Railway Station, TUGGERAH NSV	V 2259	
Co-ordinates (GDA94)	Latitude: -33.32912147	Longitude:	151.40462146
Transmitter details			
Assigned frequency	418.312500 MHz		
Bandwidth	12.5000 kHz		
Freq. assign. ID	0000690561		
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	408.862500 MHz		
Bandwidth	12.5000 kHz		
Freq. assign. ID	0000690562		
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

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	40179		
Site address	Railway Station, WARNERVALE NS	SW 2259	
Co-ordinates (GDA94)	Latitude: -33.247164	Longitude:	151.44904594
Transmitter details			
Assigned frequency	418.312500 MHz		
Bandwidth	12.5000 kHz		
Freq. assign. ID	0000690567		
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	408.862500 MHz		
Bandwidth	12.5000 kHz		
Freq. assign. ID	0000690568		
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 7

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	40180
Site address	Railway Station, WYONG NSW 2259
Co-ordinates (GDA94)	Latitude: -33.28591425 Longitude: 151.42516677
Transmitter details	
Assigned frequency	418.312500 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0000690569
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	408.862500 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0000690570
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 8

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 9:

Site details	
Site ID	40181
Site address	Railway Station, COORUMBUNG NSW 2283
Co-ordinates (GDA94)	Latitude: -33.02757505 Longitude: 151.51735834
Transmitter details	
Assigned frequency	418.312500 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0000690571
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	408.862500 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0000690572
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 9

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 10:

Site details	
Site ID	40182
Site address	Railway Station, MORISSET NSW 2264
Co-ordinates (GDA94)	Latitude: -33.10866941 Longitude: 151.48845567
Transmitter details	
Assigned frequency	418.312500 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0000690573
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	408.862500 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0000690574
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 10

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 11:

Site details		
Site ID	40183	
Site address	Railway Station, VALES POINT NSW 2264	
Co-ordinates (GDA94)	Latitude: -33.14159463 Longitude: 151.48156615	
Transmitter details		
Assigned frequency	418.312500 MHz	
Bandwidth	12.5000 kHz	
Freq. assign. ID	0000690575	
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	408.862500 MHz	
Bandwidth	12.5000 kHz	
Freq. assign. ID	0000690576	
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 11

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 12:

Site details	
Site ID	40184
Site address	Microwave Site, WYEE NSW 2262
Co-ordinates (GDA94)	Latitude: -33.19503958 Longitude: 151.50081125
Transmitter details	
Assigned frequency	418.312500 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0000690577
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	408.862500 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0000690578
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 12

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 13:

Site details	
Site ID	40192
Site address	Railway site, BOORAGUL NSW 2284
Co-ordinates (GDA94)	Latitude: -32.97738923 Longitude: 151.59995111
Transmitter details	
Assigned frequency	418.312500 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0000690579
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	408.862500 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0000690580
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 13

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 14:

Site details	
Site ID	40195
Site address	Railway Station, COCKLE CREEK NSW 2284
Co-ordinates (GDA94)	Latitude: -32.94248406 Longitude: 151.62424756
Transmitter details	
Assigned frequency	418.312500 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0000690581
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	408.862500 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0000690582
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 14

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 15:

Site details	
Site ID	40196
Site address	Railway Station, FASSIFERN NSW 2283
Co-ordinates (GDA94)	Latitude: -32.98583442 Longitude: 151.58098259
Transmitter details	
Assigned frequency	418.312500 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0000690583
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	408.862500 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0000690584
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 15

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 16:

Site details	
Site ID	40197
Site address	Newstan Colliery Bridge, FASSIFERN NSW 2283
Co-ordinates (GDA94)	Latitude: -32.99979462 Longitude: 151.56352608
Transmitter details	
Assigned frequency	418.312500 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0000690585
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	408.862500 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0000690586
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 16

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 17:

Site details	
Site ID	40199
Site address	Railcom Site, WICKHAM NSW 2293
Co-ordinates (GDA94)	Latitude: -32.92497784 Longitude: 151.76119615
Transmitter details	
Assigned frequency	418.312500 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0000690587
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	408.862500 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0000690588
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 17

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 18:

Site details	
Site ID	40200
Site address	Railway Station, CARDIFF NSW 2285
Co-ordinates (GDA94)	Latitude: -32.94347586 Longitude: 151.66573565
Transmitter details	
Assigned frequency	418.312500 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0000690589
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	408.862500 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0000690590
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 18