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	1233739/1
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

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.: 1233739/1

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	40196
Site address	Railway Station, FASSIFERN NSW 2283
Co-ordinates (GDA94)	Latitude: -32.98583442 Longitude: 151.58098259

Transmitter details		
Assigned frequency	418.325000 MHz	
Bandwidth	12.5000 kHz	
Freq. assign. ID	0000690833	
Transmitter power	50.00 W	
EIRP	83.00 W	
Emission designator	10K1F2D	
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	408.875000 MHz	
Bandwidth	12.5000 kHz	
Freq. assign. ID	0000690836	
Transmitter power	N/A	
EIRP	N/A	
Emission designator	10K1F2D	
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 <u>Station 2:</u>

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	418.325000 MHz		
Bandwidth	12.5000 kHz		
Freq. assign. ID	0000690789		
Transmitter power	50.00 W		
EIRP	83.00 W		
Emission designator	10K1F2D		
Antenna details	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	408.875000 MHz		
Bandwidth	12.5000 kHz		
Freq. assign. ID	0000690790		
Transmitter power	N/A		
EIRP	N/A		
Emission designator	10K1F2D		
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 <u>Station 3:</u>

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	418.325000 MHz	
Bandwidth	12.5000 kHz	
Freq. assign. ID	0000690791	
Transmitter power	50.00 W	
EIRP	83.00 W	
Emission designator	10K1F2D	
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	408.875000 MHz	
Bandwidth	12.5000 kHz	
Freq. assign. ID	0000690792	
Transmitter power	N/A	
EIRP	N/A	
Emission designator	10K1F2D	
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 <u>Station 4:</u>

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	418.325000 MHz	
Bandwidth	12.5000 kHz	
Freq. assign. ID	0000690793	
Transmitter power	50.00 W	
EIRP	83.00 W	
Emission designator	10K1F2D	
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	408.875000 MHz	
Bandwidth	12.5000 kHz	
Freq. assign. ID	0000690794	
Transmitter power	N/A	
EIRP	N/A	
Emission designator	10K1F2D	
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	40174
Site address	Railway Station, GOSFORD NSW 2250
Co-ordinates (GDA94)	Latitude: -33.42424891 Longitude: 151.34147202

Transmitter details	
Assigned frequency	418.325000 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0000690795
Transmitter power	50.00 W
EIRP	83.00 W
Emission designator	10K1F2D
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	408.875000 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0000690796
Transmitter power	N/A
EIRP	N/A
Emission designator	10K1F2D
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	40175			
Site address	Railway Station, LISAROW NSW 22	50		
Co-ordinates (GDA94)	Latitude: -33.3818857	Longitude:	151.37044137	

Transmitter details	
Assigned frequency	418.325000 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0000690797
Transmitter power	50.00 W
EIRP	83.00 W
Emission designator	10K1F2D
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	408.875000 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0000690798
Transmitter power	N/A
EIRP	N/A
Emission designator	10K1F2D
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	40176
Site address	Railway Station, NIAGARA PARK NSW 2250
Co-ordinates (GDA94)	Latitude: -33.3831188 Longitude: 151.35450861

Transmitter details	
Assigned frequency	418.325000 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0000690799
Transmitter power	50.00 W
EIRP	83.00 W
Emission designator	10K1F2D
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	408.875000 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0000690800
Transmitter power	N/A
EIRP	N/A
Emission designator	10K1F2D
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 <u>Station 8:</u>

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	418.325000 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0000690801
Transmitter power	50.00 W
EIRP	83.00 W
Emission designator	10K1F2D
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	408.875000 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0000690802
Transmitter power	N/A
EIRP	N/A
Emission designator	10K1F2D
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	40178
Site address	Railway Station, TUGGERAH NSW 2259
Co-ordinates (GDA94)	Latitude: -33.32912147 Longitude: 151.40462146

Transmitter details	
Assigned frequency	418.325000 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0000690807
Transmitter power	50.00 W
EIRP	83.00 W
Emission designator	10K1F2D
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	408.875000 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0000690808
Transmitter power	N/A
EIRP	N/A
Emission designator	10K1F2D
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	40179			
Site address	Railway Station, WARNERVALE NS\	N 2259		
Co-ordinates (GDA94)	Latitude: -33.247164	Longitude:	151.44904594	

Transmitter details	
Assigned frequency	418.325000 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0000690809
Transmitter power	50.00 W
EIRP	83.00 W
Emission designator	10K1F2D
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	408.875000 MHz
Assigned frequency Bandwidth	408.875000 MHz 12.5000 kHz
Bandwidth	12.5000 kHz
Bandwidth Freq. assign. ID	12.5000 kHz 0000690810
Bandwidth Freq. assign. ID Transmitter power	12.5000 kHz 0000690810 N/A
Bandwidth Freq. assign. ID Transmitter power EIRP	12.5000 kHz 0000690810 N/A N/A
Bandwidth Freq. assign. ID Transmitter power EIRP Emission designator	12.5000 kHz 0000690810 N/A N/A
Bandwidth Freq. assign. ID Transmitter power EIRP Emission designator Antenna details	12.5000 kHz 0000690810 N/A N/A 10K1F2D
Bandwidth Freq. assign. ID Transmitter power EIRP Emission designator Antenna details Antenna ID	12.5000 kHz 0000690810 N/A N/A 10K1F2D 7
Bandwidth Freq. assign. ID Transmitter power EIRP Emission designator Antenna details Antenna ID Antenna polarisation	12.5000 kHz 0000690810 N/A N/A 10K1F2D 7

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	40180		
Site address	Railway Station, WYONG NSW 2259		
Co-ordinates (GDA94)	Latitude: -33.28591425	Longitude:	151.42516677

Transmitter details	
Assigned frequency	418.325000 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0000690811
Transmitter power	50.00 W
EIRP	83.00 W
Emission designator	10K1F2D
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	408.875000 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0000690812
Transmitter power	N/A
EIRP	N/A
Emission designator	10K1F2D
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

Transmitter details

Station 12:

Site details	
Site ID	40181
Site address	Railway Station, COORUMBUNG NSW 2283
Co-ordinates (GDA94)	Latitude: -33.02757505 Longitude: 151.51735834

Assigned frequency	418.325000 MHz	
Bandwidth	12.5000 kHz	
Freq. assign. ID	0000690813	
Transmitter power	50.00 W	
EIRP	83.00 W	
Emission designator	10K1F2D	
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	408.875000 MHz	
Bandwidth	12.5000 kHz	
Freq. assign. ID	0000690814	
Transmitter power	N/A	
EIRP	N/A	
Emission designator	10K1F2D	
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 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	40182			
Site address	Railway Station, MORISSET NSW 2	2264		
Co-ordinates (GDA94)	Latitude: -33.10866941	Longitude:	151.48845567	

Transmitter details	
Assigned frequency	418.325000 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0000690815
Transmitter power	50.00 W
EIRP	83.00 W
Emission designator	10K1F2D
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	408.875000 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0000690816
Transmitter power	N/A
EIRP	N/A
Emission designator	10K1F2D
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	40183		
Site address	Railway Station, VALES POINT NSW 2264		
Co-ordinates (GDA94)	Latitude: -33.14159463	Longitude:	151.48156615

Transmitter details			
Assigned frequency	418.325000 MHz		
Bandwidth	12.5000 kHz		
Freq. assign. ID	0000690817		
Transmitter power	50.00 W		
EIRP	83.00 W		
Emission designator	10K1F2D		
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	408.875000 MHz		
Bandwidth	12.5000 kHz		
Freq. assign. ID	0000690818		
Transmitter power	N/A		
EIRP	N/A		
Emission designator	10K1F2D		
Antenna details	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	40184		
Site address	Microwave Site, WYEE NSW 2262		
Co-ordinates (GDA94)	Latitude: -33.19503958	Longitude:	151.50081125

Transmitter details			
Assigned frequency	418.325000 MHz		
Bandwidth	12.5000 kHz		
Freq. assign. ID	0000690819		
Transmitter power	50.00 W		
EIRP	83.00 W		
Emission designator	10K1F2D		
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	408.875000 MHz		
Bandwidth	12.5000 kHz		
Freq. assign. ID	0000690820		
Transmitter power	N/A		
EIRP	N/A		
Emission designator	10K1F2D		
Antenna details	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 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	40192
Site address	Railway site, BOORAGUL NSW 2284
Co-ordinates (GDA94)	Latitude: -32.97738923 Longitude: 151.59995111

Transmitter details		
Assigned frequency	418.325000 MHz	
Bandwidth	12.5000 kHz	
Freq. assign. ID	0000690821	
Transmitter power	50.00 W	
EIRP	83.00 W	
Emission designator	10K1F2D	
Antenna details	TOKH 25	
Antenna ID	7	
Antenna polarisation	V - Vertical linear	
Antenna azimuth		
Antenna height (m)	0	
Antenna type	Yagi (Vertical Polarisation)-Y	
Receiver details		
Assigned frequency	408.875000 MHz	
Bandwidth	12.5000 kHz	
Freq. assign. ID	0000690822	
Transmitter power	N/A	
EIRP	N/A	
Emission designator	10K1F2D	
Antenna details		
Antenna ID	7	
	· · · · · · · · · · · · · · · · · · ·	
Antenna polarisation	V - Vertical linear	
Antenna polarisation Antenna azimuth		

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	40195			
Site address	Railway Station, COCKLE CREEK NSV	W 2284		
Co-ordinates (GDA94)	Latitude: -32.94248406	Longitude:	151.62424756	

<u>Transmitter details</u>		
Assigned frequency	418.325000 MHz	
Bandwidth	12.5000 kHz	
Freq. assign. ID	0000690823	
Transmitter power	50.00 W	
EIRP	83.00 W	
Emission designator	10K1F2D	
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	408.875000 MHz	
Bandwidth	12.5000 kHz	
Freq. assign. ID	0000690824	
Transmitter power	N/A	
EIRP	N/A	
Emission designator	10K1F2D	
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	40197	
Site address	Newstan Colliery Bridge, FASSIFERN NSW 2283	
Co-ordinates (GDA94)	Latitude: -32.99979462 Longitude: 151.56	352608

Transmitter details	
Assigned frequency	418.325000 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0000690825
Transmitter power	50.00 W
EIRP	83.00 W
Emission designator	10K1F2D
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	408.875000 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0000690826
Transmitter power	N/A
EIRP	N/A
Emission designator	10K1F2D
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

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

Transmitter details

Station 19:

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 actains	
Assigned frequency	418.325000 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0000690827
Transmitter power	50.00 W
EIRP	83.00 W
Emission designator	10K1F2D
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	408.875000 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0000690828
Transmitter power	N/A
EIRP	N/A
Emission designator	10K1F2D
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 19

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 20:

Site details			
Site ID	40199		
Site address	Railcom Site, WICKHAM NSW 2293		
Co-ordinates (GDA94)	Latitude: -32.92497784	Longitude:	151.76119615

<u>Transmitter details</u>	
Assigned frequency	418.325000 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0000690829
Transmitter power	50.00 W
EIRP	83.00 W
Emission designator	10K1F2D
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	408.875000 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0000690830
Transmitter power	N/A
EIRP	N/A
Emission designator	10K1F2D
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 20

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 21:

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	418.325000 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0000690831
Transmitter power	50.00 W
EIRP	83.00 W
Emission designator	10K1F2D
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	408.875000 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0000690832
Transmitter power	N/A
EIRP	N/A
Emission designator	10K1F2D
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 21