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	1233845/1
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.: 1233845/1

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

Transmitter details

Station 1:

Site details		
Site ID	40138	
Site address	Railway Station, FLEMINGTON NSW 2140	
Co-ordinates (GDA94)	Latitude: -33.86392123 Longitude	: 151.06645839

Assigned frequency	418.487500 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0000691206
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	409.037500 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0000691209
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

No interference shall be caused to any Radiocommunication station or service and no protection from interference by such stations or services shall be afforded.

Transmitter details

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	3930
Site address	Railway site, TEMPE NSW 2044
Co-ordinates (GDA94)	Latitude: -33.92445325 Longitude: 151.1563848

Transmitter details		
Assigned frequency	418.487500 MHz	
Bandwidth	12.5000 kHz	
Freq. assign. ID	0000691146	
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	409.037500 MHz	
Bandwidth	12.5000 kHz	
Freq. assign. ID	0000691147	
Transmitter power	N/A	
EIRP	N/A	
Emission designator	10K1F3E	
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 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.

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.

Station 3:

Supplementary Station Site

Site details	
Site ID	5353
Site address	Railway Station, ROCKDALE NSW 2216
Co-ordinates (GDA94)	Latitude: -33.95175349 Longitude: 151.13696859

Transmitter details		
Assigned frequency	418.487500 MHz	
Bandwidth	12.5000 kHz	
Freq. assign. ID	0000691148	
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	409.037500 MHz	
Bandwidth	12.5000 kHz	
Freq. assign. ID	0000691149	
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 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.

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	40154		
Site address	Railway site, Boronia 1 Tnl Sth Pl, COWAN NSW 2081		
Co-ordinates (GDA94)	Latitude: -33.58245638	Longitude: 151.18308588	

Transmitter details		
Assigned frequency	418.487500 MHz	
Bandwidth	12.5000 kHz	
Freq. assign. ID	0000691152	
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	409.037500 MHz	
Bandwidth	12.5000 kHz	
Freq. assign. ID	0000691155	
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 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.

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 5:

Site details		
Site ID	40155	
Site address	Railway site, Boronia Tnl 2 Nth Pl, COWAN NSW 2081	
Co-ordinates (GDA94)	Latitude: -33.5761863 Longitude: 151.19215966	

Assigned frequency	418.487500 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0000691156
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	409.037500 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0000691157
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 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.

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 6:

Site details		
Site ID	40156	
Site address	Railway site, Boronia Tnl 3 Sth Pl, BROOK	LYN NSW 2083
Co-ordinates (GDA94)	Latitude: -33.55415026 L	ongitude: 151.19606542

Assigned frequency	418.487500 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0000691158
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	409.037500 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0000691159
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 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.

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	40157	
Site address	Railway Station, Pacific Highway, COWAN NSW 2081	
Co-ordinates (GDA94)	Latitude: -33.59359848 Longitude: 151.17154916	

Transmitter details	
Assigned frequency	418.487500 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0000691160
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	409.037500 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0000691161
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

No interference shall be caused to any Radiocommunication station or service and no protection from interference by such stations or services shall be afforded.

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	40165			
Site address	Railway Station, MOUNT KUF	RING-GAI NSW 2080		
Co-ordinates (GDA94)	Latitude: -33.65381176	Longitude:	151.13640732	

Transmitter details	
Assigned frequency	418.487500 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0000691162
Transmitter power	10.00 W
EIRP	17.00 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	409.037500 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0000691163
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

Special Conditions applying to Station 8

No interference shall be caused to any Radiocommunication station or service and no protection from interference by such stations or services shall be afforded.

Transmitter details

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 9:</u>

Site details	
Site ID	40170
Site address	Railway Station, BEROWRA NSW 2081
Co-ordinates (GDA94)	Latitude: -33.62146061 Longitude: 151.15585968

Transmitter details	
Assigned frequency	418.487500 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0000691164
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	409.037500 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0000691165
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 9

No interference shall be caused to any Radiocommunication station or service and no protection from interference by such stations or services shall be afforded.

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	40185		
Site address	Tnl4 Nth Pl, BORONIA NSW 2083		
Co-ordinates (GDA94)	Latitude: -33.55204922	Longitude:	151.20041733

Transmitter details	
Assigned frequency	418.487500 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0000691166
Transmitter power	10.00 W
EIRP	17.00 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	409.037500 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0000691167
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

Special Conditions applying to Station 10

No interference shall be caused to any Radiocommunication station or service and no protection from interference by such stations or services shall be afforded.

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 11:

Site details		
Site ID	40186	
Site address	Broadcast & communications Site, LONG ISLAND NSW 2083	
Co-ordinates (GDA94)	Latitude: -33.53955701 Longitude: 151.22835175	

Assigned frequency	418.487500 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0000691168
Transmitter power	10.00 W
EIRP	17.00 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	409.037500 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0000691169
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

Special Conditions applying to Station 11

No interference shall be caused to any Radiocommunication station or service and no protection from interference by such stations or services shall be afforded.

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	40187
Site address	Tnl Nth Pl, MULLET CREEK NSW 2083
Co-ordinates (GDA94)	Latitude: -33.52569498 Longitude: 151.23014261

Assigned frequency	418.487500 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0000691170
Transmitter power	10.00 W
EIRP	17.00 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	409.037500 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0000691171
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

Special Conditions applying to Station 12

No interference shall be caused to any Radiocommunication station or service and no protection from interference by such stations or services shall be afforded.

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 13:

Site details		
Site ID	40188	
Site address	Railway site, WONDABYNE NSW 2250	
Co-ordinates (GDA94)	Latitude: -33.49358572 Longitude: 151.25522893	

Assigned frequency	418.487500 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0000691172
Transmitter power	10.00 W
EIRP	17.00 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	409.037500 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0000691173
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)	
Antenna neight (m)	0

Special Conditions applying to Station 13

No interference shall be caused to any Radiocommunication station or service and no protection from interference by such stations or services shall be afforded.

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 14:

Site details	
Site ID	40190
Site address	Tnl Nth Pl, WOY WOY NSW 2256
Co-ordinates (GDA94)	Latitude: -33.49433844 Longitude: 151.28976335

Transmitter details	
Assigned frequency	418.487500 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0000691174
Transmitter power	10.00 W
EIRP	17.00 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	409.037500 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0000691175
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

Special Conditions applying to Station 14

No interference shall be caused to any Radiocommunication station or service and no protection from interference by such stations or services shall be afforded.

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 15:

Site details	
Site ID	40191
Site address	Tnl Sth Pl, WOY WOY NSW 2250
Co-ordinates (GDA94)	Latitude: -33.48634757 Longitude: 151.27280857

Transmitter actains	
Assigned frequency	418.487500 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0000691176
Transmitter power	25.00 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	409.037500 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0000691177
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

Special Conditions applying to Station 15

No interference shall be caused to any Radiocommunication station or service and no protection from interference by such stations or services shall be afforded.

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	54349			
Site address	Railway Station, BARDWELL PARI	K NSW 2206		
Co-ordinates (GDA94)	Latitude: -33.93137556	Longitude:	151.12518841	

Transmitter details	
Assigned frequency	418.487500 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0000691178
Transmitter power	50.00 W
EIRP	83.00 W
Emission designator	10K1F8WWN
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	409.037500 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0000691179
Transmitter power	N/A
EIRP	N/A
Emission designator	10K1F8WWN
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

No interference shall be caused to any Radiocommunication station or service and no protection from interference by such stations or services shall be afforded.

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	54351
Site address	Railway Station, DULWICH HILL NSW 2203
Co-ordinates (GDA94)	Latitude: -33.91068643 Longitude: 151.14035088

Transmitter details		
Assigned frequency	418.487500 MHz	
Bandwidth	12.5000 kHz	
Freq. assign. ID	0000691180	
Transmitter power	50.00 W	
EIRP	83.00 W	
Emission designator	10K1F8WWN	
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	409.037500 MHz	
Bandwidth	12.5000 kHz	
Freq. assign. ID	0000691181	
Transmitter power	N/A	
EIRP	N/A	
Emission designator	10K1F8WWN	
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 17

No interference shall be caused to any Radiocommunication station or service and no protection from interference by such stations or services shall be afforded.

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	54353		
Site address	Railway site, KINGSGROVE NSW	2208	
Co-ordinates (GDA94)	Latitude: -33.94064691	Longitude:	151.100535

Transmitter details		
Assigned frequency	418.487500 MHz	
Bandwidth	12.5000 kHz	
Freq. assign. ID	0000691182	
Transmitter power	50.00 W	
EIRP	83.00 W	
Emission designator	10K1F3WWN	
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	409.037500 MHz	
Bandwidth	12.5000 kHz	
Freq. assign. ID	0000691183	
Transmitter power	N/A	
EIRP	N/A	
Emission designator	10K1F3WWN	
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 18

No interference shall be caused to any Radiocommunication station or service and no protection from interference by such stations or services shall be afforded.

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	54355
Site address	Railway Station, NARWEE NSW 2209
Co-ordinates (GDA94)	Latitude: -33.94756346 Longitude: 151.06986976

Assigned frequency	418.487500 MHz	
Bandwidth	12.5000 kHz	
Freq. assign. ID	0000691184	
Transmitter power	50.00 W	
EIRP	83.00 W	
Emission designator	10K1F8WWN	
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	409.037500 MHz	
Bandwidth	12.5000 kHz	
Freq. assign. ID	0000691185	
Transmitter power	N/A	
EIRP	N/A	
Emission designator	10K1F8WWN	
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 19

No interference shall be caused to any Radiocommunication station or service and no protection from interference by such stations or services shall be afforded.

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	54356
Site address	Railway Station, PADSTOW NSW 2211
Co-ordinates (GDA94)	Latitude: -33.95166287 Longitude: 151.03266446

Transmitter details	
Assigned frequency	418.487500 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0000691186
Transmitter power	50.00 W
EIRP	83.00 W
Emission designator	10K1F8WWN
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	409.037500 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0000691187
Transmitter power	N/A
EIRP	N/A
Emission designator	10K1F8WWN
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

No interference shall be caused to any Radiocommunication station or service and no protection from interference by such stations or services shall be afforded.

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	54461
Site address	Railway Station, QUAKERS HILL NSW 2763
Co-ordinates (GDA94)	Latitude: -33.72895916 Longitude: 150.88646157

Transmitter details		
Assigned frequency	418.487500 MHz	
Bandwidth	12.5000 kHz	
Freq. assign. ID	0000691191	
Transmitter power	50.00 W	
EIRP	83.00 W	
Emission designator	10K1F8WWN	
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	409.037500 MHz	
Bandwidth	12.5000 kHz	
Freq. assign. ID	0000691193	
Transmitter power	N/A	
EIRP	N/A	
Emission designator	10K1F8WWN	
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 21

No interference shall be caused to any Radiocommunication station or service and no protection from interference by such stations or services shall be afforded.

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 22:

Site details		
Site ID	54462	
Site address	Railway Station (Staff carpark), RI	CHMOND NSW 2753
Co-ordinates (GDA94)	Latitude: -33.5996147	Longitude: 150.75367345

Assigned frequency	418.487500 MHz	
Bandwidth	12.5000 kHz	
Freq. assign. ID	0000691194	
Transmitter power	50.00 W	
EIRP	83.00 W	
Emission designator	10K1F8WWN	
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	409.037500 MHz	
Bandwidth	12.5000 kHz	
Freq. assign. ID	0000691195	
Transmitter power	N/A	
EIRP	N/A	
Emission designator	10K1F8WWN	
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 22

No interference shall be caused to any Radiocommunication station or service and no protection from interference by such stations or services shall be afforded.

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 23:

Site details				
Site ID	54463			
Site address	Railway Station, RIVERSTONE NS	W 2765		
Co-ordinates (GDA94)	Latitude: -33.67872648	Longitude:	150.86029839	

Transmitter details		
Assigned frequency	418.487500 MHz	
Bandwidth	12.5000 kHz	
Freq. assign. ID	0000691196	
Transmitter power	50.00 W	
EIRP	83.00 W	
Emission designator	10K1F8WWN	
Antenna details	TOKTFOWWIN	
	_ _	
Antenna ID	7	
Antenna polarisation	V - Vertical linear	
Antenna azimuth		
Antenna height (m)	0	
Antenna type	Yagi (Vertical Polarisation)-Y	
Receiver details		
Assigned frequency	409.037500 MHz	
Bandwidth	12.5000 kHz	
Freq. assign. ID	0000691197	
Transmitter power	N/A	
EIRP	N/A	
Emission designator	10K1F8WWN	
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 23

No interference shall be caused to any Radiocommunication station or service and no protection from interference by such stations or services shall be afforded.

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 24:

Site details	
Site ID	54474
Site address	Railway Station, VINEYARD NSW 2765
Co-ordinates (GDA94)	Latitude: -33.65026061 Longitude: 150.85097616

Transmitter details	
Assigned frequency	418.487500 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0000691198
Transmitter power	50.00 W
EIRP	83.00 W
Emission designator	10K1F8WWN
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	409.037500 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0000691199
Transmitter power	N/A
EIRP	N/A
Emission designator	10K1F8WWN
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 24

No interference shall be caused to any Radiocommunication station or service and no protection from interference by such stations or services shall be afforded.

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 25:

Site details	
Site ID	54476
Site address	Railway Station, WINDSOR NSW 2756
Co-ordinates (GDA94)	Latitude: -33.61361812 Longitude: 150.81099855

Transmitter details	
Assigned frequency	418.487500 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0000691200
Transmitter power	50.00 W
EIRP	83.00 W
Emission designator	10K1F8WWN
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	409.037500 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0000691201
Transmitter power	N/A
EIRP	N/A
Emission designator	10K1F8WWN
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 25

No interference shall be caused to any Radiocommunication station or service and no protection from interference by such stations or services shall be afforded.

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 26:

Site details		
Site ID	202261	
Site address	Tunnel Opening City Rail, CENTRAL NSW 2010	
Co-ordinates (GDA94)	Latitude: -33.88879884 Longitude: 151.20272633	

<u> </u>		
Assigned frequency	418.487500 MHz	
Bandwidth	12.5000 kHz	
Freq. assign. ID	0000691202	
Transmitter power	100 mW	
EIRP	8.40 W	
Emission designator	10K1F3E	
Antenna details		
Antenna ID	1	
Antenna polarisation	M - Mixed	
Antenna azimuth		
Antenna height (m)	0	
Antenna type	Unknown antenna type, size or specifications-	
Receiver details		
Assigned frequency	409.037500 MHz	
Bandwidth	12.5000 kHz	
Freq. assign. ID	0000691203	
Transmitter power	N/A	
EIRP	N/A	
Emission designator	10K1F3E	
Antenna details	Antenna details	
Antenna ID	1	
Antenna polarisation	M - Mixed	
Antenna azimuth		
Antenna height (m)	0	
Antenna type	Unknown antenna type, size or specifications-	

Special Conditions applying to Station 26

No interference shall be caused to any Radiocommunication station or service and no protection from interference by such stations or services shall be afforded.

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 27:

Site details	
Site ID	202841
Site address	Wolli Rail Station, TURRELLA NSW 2205
Co-ordinates (GDA94)	Latitude: -33.93010327 Longitude: 151.15431592

Transmitter details	
Assigned frequency	418.487500 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0000691204
Transmitter power	200 mW
EIRP	8.40 W
Emission designator	10K1F3E
Antenna details	
Antenna ID	1
Antenna polarisation	M - Mixed
Antenna azimuth	
Antenna height (m)	0
Antenna type	Unknown antenna type, size or specifications-
Receiver details	
Assigned frequency	409.037500 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0000691205
Transmitter power	N/A
EIRP	N/A
Emission designator	10K1F3E
Antenna details	
Antenna ID	1
Antenna polarisation	M - Mixed
Antenna azimuth	
Antenna height (m)	0
Antenna type	Unknown antenna type, size or specifications-

Special Conditions applying to Station 27

No interference shall be caused to any Radiocommunication station or service and no protection from interference by such stations or services shall be afforded.