# Apparatus Licence

Issued by Delegate of the Australian Communications and Media Authority



525851
NEW SOUTH WALES GOVERNMENT TELECOMMUNICATIONS AUTHORITY
Telco Authority (PSN)
Locked Bag 2, HAYMARKET, NSW 1240
Land Mobile
Land Mobile System - > 30MHz
1215159/4
VH2RAH
27/11/2023
27/11/2023
30/06/2024

#### 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.: 1215159/4

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	200836		
Site address	Wynyard Railway Station (Underground), SYDNEY NSW 2000		
Co-ordinates (GDA94)	Latitude: -33.86571694 Longitude: 151.20596389		
Transmitter details			
Assigned frequency	416.687500 MHz		
Bandwidth	12.5000 kHz		
Freq. assign. ID	0000681347		
Transmitter power	50.00 W		
EIRP	83.00 W		
Emission designator	10K1F3E		
Antenna details			
Antenna ID	77		
Antenna polarisation	H - Horizontal linear		
Antenna azimuth			
Antenna height (m)	0		
Antenna type	Radiax (Leaky feeder)-Z		
Receiver details			
Assigned frequency	407.237500 MHz		
Bandwidth	12.5000 kHz		
Freq. assign. ID	0000681350		
Transmitter power	N/A		
EIRP	N/A		
Emission designator	10K1F3E		
Antenna details			
Antenna ID	77		
Antenna polarisation	H - Horizontal linear		
Antenna azimuth			
Antenna height (m)	0		
Antenna type	Radiax (Leaky feeder)-Z		

# Advisory Notes applying to Station 1

This frequency band is currently under review to accommodate changes in technology. This review may lead to a requirement to change frequency or to cease transmission.

### **Special Conditions applying to Station 1**

When the transmitter is coupled to an antenna the level of all discrete spurious components caused by the transmitter & measured at the connection to the antenna must not exceed -30 DBM. Broadband noise floor of the transmitter measured at the same point must not exceed -47 DBM in a 16 kHz bandwidth for frequency offsets greater than 300 kHz from the transmit frequency.

An efficient cavity filter must be fitted between the transmitter and the antenna.

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	3457		
Site address	Redfern Railway Station (Underground), REDFERN NSW 2016		
Co-ordinates (GDA94)	Latitude: -33.89217306 Longitude: 151.19934694		
Transmitter details			
Assigned frequency	416.687500 MHz		
Bandwidth	12.5000 kHz		
Freq. assign. ID	0000681331		
Transmitter power	50.00 W		
EIRP	41.00 W		
Emission designator	10K1F3E		
Antenna details			
Antenna ID	77		
Antenna polarisation	H - Horizontal linear		
Antenna azimuth			
Antenna height (m)	0		
Antenna type	Radiax (Leaky feeder)-Z		
Receiver details			
Assigned frequency	407.237500 MHz		
Bandwidth	12.5000 kHz		
Freq. assign. ID	0000681332		
Transmitter power	N/A		
EIRP	N/A		
Emission designator	10K1F3E		
Antenna details			
Antenna ID	77		
Antenna polarisation	H - Horizontal linear		
Antenna azimuth			
Antenna height (m)	0		
Antenna type	Radiax (Leaky feeder)-Z		

### Advisory Notes applying to Station 2

This frequency band is currently under review to accommodate changes in technology. This review may lead to a requirement to change frequency or to cease transmission.

### **Special Conditions applying to Station 2**

An efficient cavity filter must be fitted between the transmitter and the antenna.

An efficient cavity filter must be fitted between the receiver and the antenna.

When the transmitter is coupled to an antenna the level of all discrete spurious components caused by the transmitter & measured at the connection to the antenna must not exceed -30 DBM. Broadband noise floor of the transmitter measured at the same point must not exceed -47 DBM in a 16 kHz bandwidth for frequency offsets greater than 300 kHz from the transmit frequency.

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	3540		
Site address	Railway Station, KINGS CROSS NSW 2011		
Co-ordinates (GDA94)	Latitude: -33.87467963 Longitude: 151.22091464		
Transmitter details			
Assigned frequency	416.687500 MHz		
Bandwidth	12.5000 kHz		
Freq. assign. ID	0000681333		
Transmitter power	50.00 W		
EIRP	41.00 W		
Emission designator	10K1F3E		
Antenna details			
Antenna ID	77		
Antenna polarisation	H - Horizontal linear		
Antenna azimuth			
Antenna height (m)	0		
Antenna type	Radiax (Leaky feeder)-Z		
Receiver details			
Assigned frequency	407.237500 MHz		
Bandwidth	12.5000 kHz		
Freq. assign. ID	0000681334		
Transmitter power	N/A		
EIRP	N/A		
Emission designator	10K1F3E		
Antenna details			
Antenna ID	77		
Antenna polarisation	H - Horizontal linear		
Antenna azimuth			
Antenna height (m)	0		
Antenna type	Radiax (Leaky feeder)-Z		

### Advisory Notes applying to Station 3

This frequency band is currently under review to accommodate changes in technology. This review may lead to a requirement to change frequency or to cease transmission.

### **Special Conditions applying to Station 3**

When the transmitter is coupled to an antenna the level of all discrete spurious components caused by the transmitter & measured at the connection to the antenna must not exceed -30 DBM. Broadband noise floor of the transmitter measured at the same point must not exceed -47 DBM in a 16 kHz bandwidth for frequency offsets greater than 300 kHz from the transmit frequency.

An efficient cavity filter must be fitted between the transmitter and the antenna.

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	3736		
Site address	Bondi Junction, Railway Station (Underground), BONDI JUNCTION NSW 2022		
Co-ordinates (GDA94)	Latitude: -33.89119806 Longitude: 151.248645		
Transmitter details			
Assigned frequency	416.687500 MHz		
Bandwidth	12.5000 kHz		
Freq. assign. ID	0000681335		
Transmitter power	50.00 W		
EIRP	41.00 W		
Emission designator	10K1F3E		
Antenna details			
Antenna ID	77		
Antenna polarisation	H - Horizontal linear		
Antenna azimuth			
Antenna height (m)	0		
Antenna type	Radiax (Leaky feeder)-Z		
Receiver details			
Assigned frequency	407.237500 MHz		
Bandwidth	12.5000 kHz		
Freq. assign. ID	0000681336		
Transmitter power	N/A		
EIRP	N/A		
Emission designator	10K1F3E		
Antenna details			
Antenna ID	77		
Antenna polarisation	H - Horizontal linear		
Antenna azimuth			
Antenna height (m)	0		
Antenna type	Radiax (Leaky feeder)-Z		

### Advisory Notes applying to Station 4

This frequency band is currently under review to accommodate changes in technology. This review may lead to a requirement to change frequency or to cease transmission.

### **Special Conditions applying to Station 4**

When the transmitter is coupled to an antenna the level of all discrete spurious components caused by the transmitter & measured at the connection to the antenna must not exceed -30 DBM. Broadband noise floor of the transmitter measured at the same point must not exceed -47 DBM in a 16 kHz bandwidth for frequency offsets greater than 300 kHz from the transmit frequency.

An efficient cavity filter must be fitted between the transmitter and the antenna.

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	5371		
Site address	Railway Station, KOGARAH NSW 2217		
Co-ordinates (GDA94)	Latitude: -33.96223756	Longitude:	151.13262784
Transmitter details			
Assigned frequency	416.687500 MHz		
Bandwidth	12.5000 kHz		
Freq. assign. ID	0000681337		
Transmitter power	5.00 W		
EIRP	8.40 W		
Emission designator	10K1F9W		
Antenna details			
Antenna ID	80091		
Antenna polarisation	V - Vertical linear		
Antenna azimuth			
Antenna height (m)	5		
Antenna type	Dipole-D		
Receiver details			
Assigned frequency	407.237500 MHz		
Bandwidth	12.5000 kHz		
Freq. assign. ID	0000681338		
Transmitter power	N/A		
EIRP	N/A		
Emission designator	10K1F9W		
Antenna details			
Antenna ID	80091		
Antenna polarisation	V - Vertical linear		
Antenna azimuth			
Antenna height (m)	5		
Antenna type	Dipole-D		

### Advisory Notes applying to Station 5

This frequency band is currently under review to accommodate changes in technology. This review may lead to a requirement to change frequency or to cease transmission.

### **Special Conditions applying to Station 5**

An efficient cavity filter must be fitted between the receiver and the antenna.

When the transmitter is coupled to an antenna the level of all discrete spurious components caused by the transmitter & measured at the connection to the antenna must not exceed -30 DBM. Broadband noise floor of the transmitter measured at the same point must not exceed -47 DBM in a 16 kHz bandwidth for frequency offsets greater than 300 kHz from the transmit frequency.

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	5386		
Site address	Railway Station, HURSTVILLE NSW 2220		
Co-ordinates (GDA94)	Latitude: -33.967363	Longitude:	151.10221343
Transmitter details			
Assigned frequency	416.687500 MHz		
Bandwidth	12.5000 kHz		
Freq. assign. ID	0000681339		
Transmitter power	5.00 W		
EIRP	8.40 W		
Emission designator	10K1F9W		
Antenna details			
Antenna ID	80091		
Antenna polarisation	V - Vertical linear		
Antenna azimuth			
Antenna height (m)	5		
Antenna type	Dipole-D		
Receiver details			
Assigned frequency	407.237500 MHz		
Bandwidth	12.5000 kHz		
Freq. assign. ID	0000681340		
Transmitter power	N/A		
EIRP	N/A		
Emission designator	10K1F9W		
Antenna details			
Antenna ID	80091		
Antenna polarisation	V - Vertical linear		
Antenna azimuth			
Antenna height (m)	5		
Antenna type	Dipole-D		

### Advisory Notes applying to Station 6

This frequency band is currently under review to accommodate changes in technology. This review may lead to a requirement to change frequency or to cease transmission.

### **Special Conditions applying to Station 6**

When the transmitter is coupled to an antenna the level of all discrete spurious components caused by the transmitter & measured at the connection to the antenna must not exceed -30 DBM. Broadband noise floor of the transmitter measured at the same point must not exceed -47 DBM in a 16 kHz bandwidth for frequency offsets greater than 300 kHz from the transmit frequency.

An efficient cavity filter must be fitted between the transmitter and the antenna.

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	5507		
Site address	Sutherland Railway Station, SUTHERLAND NSW 2232		
Co-ordinates (GDA94)	Latitude: -34.03166986 Longitude: 151.0570283		
Transmitter details			
Assigned frequency	416.687500 MHz		
Bandwidth	12.5000 kHz		
Freq. assign. ID	0000681341		
Transmitter power	5.00 W		
EIRP	8.40 W		
Emission designator	10K1F9W		
Antenna details			
Antenna ID	80091		
Antenna polarisation	V - Vertical linear		
Antenna azimuth			
Antenna height (m)	15		
Antenna type	Dipole-D		
Receiver details			
Assigned frequency	407.237500 MHz		
Bandwidth	12.5000 kHz		
Freq. assign. ID	0000681342		
Transmitter power	N/A		
EIRP	N/A		
Emission designator	10K1F9W		
Antenna details			
Antenna ID	80091		
Antenna polarisation	V - Vertical linear		
Antenna azimuth			
Antenna height (m)	15		
Antenna type	Dipole-D		

# Advisory Notes applying to Station 7

This frequency band is currently under review to accommodate changes in technology. This review may lead to a requirement to change frequency or to cease transmission.

### **Special Conditions applying to Station 7**

When the transmitter is coupled to an antenna the level of all discrete spurious components caused by the transmitter & measured at the connection to the antenna must not exceed -30 DBM. Broadband noise floor of the transmitter measured at the same point must not exceed -47 DBM in a 16 kHz bandwidth for frequency offsets greater than 300 kHz from the transmit frequency.

An efficient cavity filter must be fitted between the transmitter and the antenna.

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	134145		
Site address	North Ryde Metro Station (Underground), NORTH RYDE NSW 2113		
Co-ordinates (GDA94)	Latitude: -33.79453806 Longitude: 151.13795194		
Transmitter details			
Assigned frequency	416.687500 MHz		
Bandwidth	12.5000 kHz		
Freq. assign. ID	0000681343		
Transmitter power	50.00 W		
EIRP	83.00 W		
Emission designator	10K1F9W		
Antenna details			
Antenna ID	77		
Antenna polarisation	V - Vertical linear		
Antenna azimuth			
Antenna height (m)	0		
Antenna type	Radiax (Leaky feeder)-Z		
Receiver details			
Assigned frequency	407.237500 MHz		
Bandwidth	12.5000 kHz		
Freq. assign. ID	0000681344		
Transmitter power	N/A		
EIRP	N/A		
Emission designator	10K1F9W		
Antenna details			
Antenna ID	77		
Antenna polarisation	V - Vertical linear		
Antenna azimuth			
Antenna height (m)	0		
Antenna type	Radiax (Leaky feeder)-Z		

### Advisory Notes applying to Station 8

This frequency band is currently under review to accommodate changes in technology. This review may lead to a requirement to change frequency or to cease transmission.

### **Special Conditions applying to Station 8**

When the transmitter is coupled to an antenna the level of all discrete spurious components caused by the transmitter & measured at the connection to the antenna must not exceed -30 DBM. Broadband noise floor of the transmitter measured at the same point must not exceed -47 DBM in a 16 kHz bandwidth for frequency offsets greater than 300 kHz from the transmit frequency.

An efficient cavity filter must be fitted between the transmitter and the antenna.

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	200839		
Site address	Museum, Underground Rail Station, SYDNEY NSW 2000		
Co-ordinates (GDA94)	Latitude: -33.87609774 Longitude: 151.20985793		
Transmitter details			
Assigned frequency	416.687500 MHz		
Bandwidth	12.5000 kHz		
Freq. assign. ID	0000681345		
Transmitter power	50.00 W		
EIRP	41.00 W		
Emission designator	10K1F3E		
Antenna details			
Antenna ID	77		
Antenna polarisation	H - Horizontal linear		
Antenna azimuth			
Antenna height (m)	0		
Antenna type	Radiax (Leaky feeder)-Z		
Receiver details			
Assigned frequency	407.237500 MHz		
Bandwidth	12.5000 kHz		
Freq. assign. ID	0000681346		
Transmitter power	N/A		
EIRP	N/A		
Emission designator	10K1F3E		
Antenna details			
Antenna ID	77		
Antenna polarisation	H - Horizontal linear		
Antenna azimuth			
Antenna height (m)	0		
Antenna type	Radiax (Leaky feeder)-Z		

### Advisory Notes applying to Station 9

This frequency band is currently under review to accommodate changes in technology. This review may lead to a requirement to change frequency or to cease transmission.

### **Special Conditions applying to Station 9**

When the transmitter is coupled to an antenna the level of all discrete spurious components caused by the transmitter & measured at the connection to the antenna must not exceed -30 DBM. Broadband noise floor of the transmitter measured at the same point must not exceed -47 DBM in a 16 kHz bandwidth for frequency offsets greater than 300 kHz from the transmit frequency.

An efficient cavity filter must be fitted between the transmitter and the antenna.

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	9026265		
Site address	NWRL Underground Repeater, Castle Hill Railway Station, CASTLE HILL NSW 2154		
Co-ordinates (GDA94)	Latitude: -33.73151679 Longitude: 151.0077237		
Transmitter details			
Assigned frequency	416.687500 MHz		
Bandwidth	12.5000 kHz		
Freq. assign. ID	0002328082		
Transmitter power	8.30 W		
EIRP	8.30 W		
Emission designator	10K1F3E		
Antenna details			
Antenna ID	77		
Antenna polarisation	V - Vertical linear		
Antenna azimuth			
Antenna height (m)	0		
Antenna type	Radiax (Leaky feeder)-Z		
Receiver details			
Assigned frequency	407.237500 MHz		
Bandwidth	12.5000 kHz		
Freq. assign. ID	0002328083		
Transmitter power	N/A		
EIRP	N/A		
Emission designator	10K1F3E		
Antenna details			
Antenna ID	77		
Antenna polarisation	V - Vertical linear		
Antenna azimuth			
Antenna height (m)	0		
Antenna type	Radiax (Leaky feeder)-Z		

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	9026261		
Site address	Kingsley Close, WAHROONGA NSW 2076		
Co-ordinates (GDA94)	Latitude: -33.72059588	Longitude:	151.10821284
Transmitter details			
Assigned frequency	416.687500 MHz		
Bandwidth	12.5000 kHz		
Freq. assign. ID	0002788723		
Transmitter power	5.00 W		
EIRP	5.00 W		
Emission designator	7K60FXE		
Antenna details			
Antenna ID	77		
Antenna polarisation	V - Vertical linear		
Antenna azimuth			
Antenna height (m)	0		
Antenna type	Radiax (Leaky feeder)-Z		
Receiver details			
Assigned frequency	407.237500 MHz		
Bandwidth	12.5000 kHz		
Freq. assign. ID	0002788724		
Transmitter power	N/A		
EIRP	N/A		
Emission designator	7K60FXE		
Antenna details			
Antenna ID	77		
Antenna polarisation	V - Vertical linear		
Antenna azimuth			
Antenna height (m)	0		
Antenna type	Radiax (Leaky feeder)-Z		

### **Special Conditions applying to Station 11**

The level of power in the adjacent channel must not exceed -16dBm.

When the transmitter is coupled to an antenna the level of all discrete spurious components caused by the transmitter & measured at the connection to the antenna must not exceed -30 DBM. Broadband noise floor of the transmitter measured at the same point must not exceed -47 DBM in a 16 kHz bandwidth for frequency offsets greater than 300 kHz from the transmit frequency.

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	9026260		
Site address	Loch Maree Avenue, THORNLEIGH NSW 2120		
Co-ordinates (GDA94)	Latitude: -33.72731305	Longitude:	151.08473831
Transmitter details			
Assigned frequency	416.687500 MHz		
Bandwidth	12.5000 kHz		
Freq. assign. ID	0002788725		
Transmitter power	5.00 W		
EIRP	5.00 W		
Emission designator	7K60FXE		
Antenna details			
Antenna ID	77		
Antenna polarisation	V - Vertical linear		
Antenna azimuth			
Antenna height (m)	0		
Antenna type	Radiax (Leaky feeder)-Z		
Receiver details			
Assigned frequency	407.237500 MHz		
Bandwidth	12.5000 kHz		
Freq. assign. ID	0002788726		
Transmitter power	N/A		
EIRP	N/A		
Emission designator	7K60FXE		
Antenna details			
Antenna ID	77		
Antenna polarisation	V - Vertical linear		
Antenna azimuth			
Antenna height (m)	0		
Antenna type	Radiax (Leaky feeder)-Z		

### **Special Conditions applying to Station 12**

The level of power in the adjacent channel must not exceed -16dBm.

When the transmitter is coupled to an antenna the level of all discrete spurious components caused by the transmitter & measured at the connection to the antenna must not exceed -30 DBM. Broadband noise floor of the transmitter measured at the same point must not exceed -47 DBM in a 16 kHz bandwidth for frequency offsets greater than 300 kHz from the transmit frequency.

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	9026262
Site address	Killaloe Avenue, PENNANT HILLS NSW 2120
Co-ordinates (GDA94)	Latitude: -33.73967921 Longitude: 151.06135985
Transmitter details	
Assigned frequency	416.687500 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0002788727
Transmitter power	5.00 W
EIRP	5.00 W
Emission designator	7K60FXE
Antenna details	
Antenna ID	77
Antenna polarisation	V - Vertical linear
Antenna azimuth	
Antenna height (m)	0
Antenna type	Radiax (Leaky feeder)-Z
Receiver details	
Assigned frequency	407.237500 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0002788728
Transmitter power	N/A
EIRP	N/A
Emission designator	7K60FXE
Antenna details	
Antenna ID	77
Antenna polarisation	V - Vertical linear
Antenna azimuth	
Antenna height (m)	0
Antenna type	Radiax (Leaky feeder)-Z

### **Special Conditions applying to Station 13**

When the transmitter is coupled to an antenna the level of all discrete spurious components caused by the transmitter & measured at the connection to the antenna must not exceed -30 DBM. Broadband noise floor of the transmitter measured at the same point must not exceed -47 DBM in a 16 kHz bandwidth for frequency offsets greater than 300 kHz from the transmit frequency.

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	9026258
Site address	cnr M2 and Pennant Hills Road, WEST PENNANT HILLS NSW 2125
Co-ordinates (GDA94)	Latitude: -33.75739234 Longitude: 151.04823831
Transmitter details	
Assigned frequency	416.687500 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0002788729
Transmitter power	5.00 W
EIRP	5.00 W
Emission designator	7K60FXE
Antenna details	
Antenna ID	77
Antenna polarisation	V - Vertical linear
Antenna azimuth	
Antenna height (m)	0
Antenna type	Radiax (Leaky feeder)-Z
Receiver details	
Assigned frequency	407.237500 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0002788730
Transmitter power	N/A
EIRP	N/A
Emission designator	7K60FXE
Antenna details	
Antenna ID	77
Antenna polarisation	V - Vertical linear
Antenna azimuth	
Antenna height (m)	0
Antenna type	Radiax (Leaky feeder)-Z

### **Special Conditions applying to Station 14**

When the transmitter is coupled to an antenna the level of all discrete spurious components caused by the transmitter & measured at the connection to the antenna must not exceed -30 DBM. Broadband noise floor of the transmitter measured at the same point must not exceed -47 DBM in a 16 kHz bandwidth for frequency offsets greater than 300 kHz from the transmit frequency.

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	9026259		
Site address	cnr M2 and Barclay Road, NORTH ROCKS NSW 2151		
Co-ordinates (GDA94)	Latitude: -33.76487371	Longitude:	151.01449895
Transmitter details			
Assigned frequency	416.687500 MHz		
Bandwidth	12.5000 kHz		
Freq. assign. ID	0002788731		
Transmitter power	5.00 W		
EIRP	5.00 W		
Emission designator	7K60FXE		
Antenna details			
Antenna ID	77		
Antenna polarisation	V - Vertical linear		
Antenna azimuth			
Antenna height (m)	0		
Antenna type	Radiax (Leaky feeder)-Z		
Receiver details			
Assigned frequency	407.237500 MHz		
Bandwidth	12.5000 kHz		
Freq. assign. ID	0002788732		
Transmitter power	N/A		
EIRP	N/A		
Emission designator	7K60FXE		
Antenna details			
Antenna ID	77		
Antenna polarisation	V - Vertical linear		
Antenna azimuth			
Antenna height (m)	0		
Antenna type	Radiax (Leaky feeder)-Z		

# **Special Conditions applying to Station 15**

When the transmitter is coupled to an antenna the level of all discrete spurious components caused by the transmitter & measured at the connection to the antenna must not exceed -30 DBM. Broadband noise floor of the transmitter measured at the same point must not exceed -47 DBM in a 16 kHz bandwidth for frequency offsets greater than 300 kHz from the transmit frequency.

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	9026260		
Site address	Loch Maree Avenue, THORNLEIGH NSW 2120		
Co-ordinates (GDA94)	Latitude: -33.72731305	Longitude:	151.08473831
Transmitter details			
Assigned frequency	416.687500 MHz		
Bandwidth	12.5000 kHz		
Freq. assign. ID	0002788733		
Transmitter power	5.00 W		
EIRP	5.00 W		
Emission designator	7K60FXE		
Antenna details			
Antenna ID	77		
Antenna polarisation	V - Vertical linear		
Antenna azimuth			
Antenna height (m)	0		
Antenna type	Radiax (Leaky feeder)-Z		
Receiver details			
Assigned frequency	407.237500 MHz		
Bandwidth	12.5000 kHz		
Freq. assign. ID	0002788734		
Transmitter power	N/A		
EIRP	N/A		
Emission designator	7K60FXE		
Antenna details			
Antenna ID	77		
Antenna polarisation	V - Vertical linear		
Antenna azimuth			
Antenna height (m)	0		
Antenna type	Radiax (Leaky feeder)-Z		

# **Special Conditions applying to Station 16**

When the transmitter is coupled to an antenna the level of all discrete spurious components caused by the transmitter & measured at the connection to the antenna must not exceed -30 DBM. Broadband noise floor of the transmitter measured at the same point must not exceed -47 DBM in a 16 kHz bandwidth for frequency offsets greater than 300 kHz from the transmit frequency.

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	9026257
Site address	Bareena Avenue, WAHROONGA NSW 2076
Co-ordinates (GDA94)	Latitude: -33.71169584 Longitude: 151.11513159
Transmitter details	
Assigned frequency	416.687500 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0002791049
Transmitter power	5.00 W
EIRP	5.00 W
Emission designator	7K60FXE
Antenna details	
Antenna ID	77
Antenna polarisation	V - Vertical linear
Antenna azimuth	
Antenna height (m)	0
Antenna type	Radiax (Leaky feeder)-Z
Receiver details	
Assigned frequency	407.237500 MHz
Bandwidth	12.5000 kHz
Freq. assign. ID	0002791050
Transmitter power	N/A
EIRP	N/A
Emission designator	7K60FXE
Antenna details	
Antenna ID	77
Antenna polarisation	V - Vertical linear
Antenna azimuth	
Antenna height (m)	0
Antenna type	Radiax (Leaky feeder)-Z

### Special Conditions applying to Station 17

When the transmitter is coupled to an antenna the level of all discrete spurious components caused by the transmitter & measured at the connection to the antenna must not exceed -30 DBM. Broadband noise floor of the transmitter measured at the same point must not exceed -47 DBM in a 16 kHz bandwidth for frequency offsets greater than 300 kHz from the transmit frequency.