

# Apparatus Licence

Issued by Delegate of the Australian Communications and Media Authority



## Licensee details

Customer ID	20028500
Licensee	ALTRAC LIGHT RAIL 1 PTY LIMITED
Trading name	Sydney Light Rail (Glenn Bentley)
Licensee address	Level 7/280 Elizabeth Street, SURRY HILLS, NSW 2010

## Licence details

Licence service	Land Mobile
Licence subservice	Land Mobile System - > 30MHz
Licence number	10084638/4
Date of issue	11/07/2023
Date of effect	11/07/2023
Date of expiry	19/07/2024

## 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](mailto:info@acma.gov.au)

ACMA website: [www.acma.gov.au](http://www.acma.gov.au)

## **Advisory Notes applying to licence no.: 10084638/4**

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](http://www.acma.gov.au)).

## Technical characteristics

Below is a summary of the technical characteristics of the licensed service. Further technical details not displayed here may be found on the ACMA website.

### Main Station Site

### Station 1:

#### Site details

Site ID	10003212
Site address	Glebe Tunnel Portal RBS, Victoria Rd, GLEBE NSW
Co-ordinates (GDA94)	Latitude: -33.875447 Longitude: 151.178972

#### Transmitter details

Assigned frequency	465.368750 MHz
Bandwidth	25.0000 kHz
Freq. assign. ID	0001661260
Transmitter power	2.50 W
EIRP	8.30 W
Emission designator	22K0G7WD

#### Antenna details

Antenna ID	84164
Antenna polarisation	V - Vertical linear
Antenna azimuth	
Antenna height (m)	9
Antenna type	Log Periodic-G

#### Receiver details

Assigned frequency	455.368750 MHz
Bandwidth	25.0000 kHz
Freq. assign. ID	0001661261
Transmitter power	N/A
EIRP	N/A
Emission designator	22K0G7WD

#### Antenna details

Antenna ID	84164
Antenna polarisation	V - Vertical linear
Antenna azimuth	
Antenna height (m)	9
Antenna type	Log Periodic-G

### Special Conditions applying to Station 1

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

The level of power in the adjacent channel must not exceed -22dBm.

## Technical characteristics

Below is a summary of the technical characteristics of the licensed service. Further technical details not displayed here may be found on the ACMA website.

### Supplementary Station Site

### Station 2:

#### Site details

Site ID	10010283
Site address	Tunnel Portal, below Clifftop Walk, PYRMONT NSW
Co-ordinates (GDA94)	Latitude: -33.868875 Longitude: 151.191097

#### Transmitter details

Assigned frequency	465.368750 MHz
Bandwidth	25.0000 kHz
Freq. assign. ID	0002140521
Transmitter power	2.50 W
EIRP	8.30 W
Emission designator	22K0G7WD

#### Antenna details

Antenna ID	84164
Antenna polarisation	V - Vertical linear
Antenna azimuth	
Antenna height (m)	0
Antenna type	Log Periodic-G

#### Receiver details

Assigned frequency	455.368750 MHz
Bandwidth	25.0000 kHz
Freq. assign. ID	0002140522
Transmitter power	N/A
EIRP	N/A
Emission designator	22K0G7WD

#### Antenna details

Antenna ID	84164
Antenna polarisation	V - Vertical linear
Antenna azimuth	
Antenna height (m)	0
Antenna type	Log Periodic-G

## Special Conditions applying to Station 2

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.

The level of power in the adjacent channel must not exceed -22dBm.

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

## Technical characteristics

Below is a summary of the technical characteristics of the licensed service. Further technical details not displayed here may be found on the ACMA website.

### Supplementary Station Site

### Station 3:

#### Site details

Site ID	10010284
Site address	Tunnel Portal, off Darling Drive, SYDNEY NSW
Co-ordinates (GDA94)	Latitude: -33.870693 Longitude: 151.198208

#### Transmitter details

Assigned frequency	465.368750 MHz
Bandwidth	25.0000 kHz
Freq. assign. ID	0002140519
Transmitter power	2.50 W
EIRP	8.30 W
Emission designator	22K0G7WD

#### Antenna details

Antenna ID	84164
Antenna polarisation	V - Vertical linear
Antenna azimuth	
Antenna height (m)	0
Antenna type	Log Periodic-G

#### Receiver details

Assigned frequency	455.368750 MHz
Bandwidth	25.0000 kHz
Freq. assign. ID	0002140520
Transmitter power	N/A
EIRP	N/A
Emission designator	22K0G7WD

#### Antenna details

Antenna ID	84164
Antenna polarisation	V - Vertical linear
Antenna azimuth	
Antenna height (m)	0
Antenna type	Log Periodic-G

### Special Conditions applying to Station 3

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

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.

The level of power in the adjacent channel must not exceed -22dBm.

## Technical characteristics

Below is a summary of the technical characteristics of the licensed service. Further technical details not displayed here may be found on the ACMA website.

### Supplementary Station Site

### Station 4:

#### Site details

Site ID	10010282		
Site address	Fish Market Light Rail Stop, off M4 Western Distributor Fwy exit onto to Pyrmont Bridge Rd, PYRMONT NSW		
Co-ordinates (GDA94)	Latitude: -33.871358	Longitude:	151.193144

#### Transmitter details

Assigned frequency	465.368750 MHz
Bandwidth	25.0000 kHz
Freq. assign. ID	0002140517
Transmitter power	5.00 W
EIRP	8.30 W
Emission designator	22K0G7WD

#### Antenna details

Antenna ID	60010
Antenna polarisation	V - Vertical linear
Antenna azimuth	
Antenna height (m)	9
Antenna type	Dipole-D

#### Receiver details

Assigned frequency	455.368750 MHz
Bandwidth	25.0000 kHz
Freq. assign. ID	0002140518
Transmitter power	N/A
EIRP	N/A
Emission designator	22K0G7WD

#### Antenna details

Antenna ID	60010
Antenna polarisation	V - Vertical linear
Antenna azimuth	
Antenna height (m)	9
Antenna type	Dipole-D

### Special Conditions applying to Station 4

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

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.

The level of power in the adjacent channel must not exceed -22dBm.

## Technical characteristics

Below is a summary of the technical characteristics of the licensed service. Further technical details not displayed here may be found on the ACMA website.

### Supplementary Station Site

### Station 5:

#### Site details

Site ID	10004991
Site address	Glebe Light Rail Tunnel, cnr Bridge Road and Bayview Street, GLEBE NSW
Co-ordinates (GDA94)	Latitude: -33.877157 Longitude: 151.186761

#### Transmitter details

Assigned frequency	465.368750 MHz
Bandwidth	25.0000 kHz
Freq. assign. ID	0001859511
Transmitter power	2.50 W
EIRP	8.30 W
Emission designator	22K0G7WD

#### Antenna details

Antenna ID	84164
Antenna polarisation	V - Vertical linear
Antenna azimuth	
Antenna height (m)	9
Antenna type	Log Periodic-G

#### Receiver details

Assigned frequency	455.368750 MHz
Bandwidth	25.0000 kHz
Freq. assign. ID	0001859512
Transmitter power	N/A
EIRP	N/A
Emission designator	22K0G7WD

#### Antenna details

Antenna ID	84164
Antenna polarisation	V - Vertical linear
Antenna azimuth	
Antenna height (m)	9
Antenna type	Log Periodic-G

### Special Conditions applying to Station 5

The level of power in the adjacent channel must not exceed -22dBm.

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.

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