

Site Details

Site ID	140864
Name	Wolumla 1210 Wanatta Lane WOLUMLA
Location	WOLUMLA NSW 2550
<u>Precision</u>	Within 10 meters
HCIS Level 2	MW8P
Lat,Long (GDA94)	-36.787504°,149.793257° [KML]
Licence Fee Density	Low Density Area

[\[Show Nearby Sites in Map \]](#) [\[Site Location Map for this Site Only \]](#) [\[Sites 1km, 10km, 20km, 100km \]](#) [\[Site Location Map \]](#) [\[Nearby Assignments \]](#)

Assignments at this Site

Results 1 - 14 of 14 assignments.

ID ↕	Frequency ↕	Emission Designator ↕	Azimuth	T/R	Client ↕	BSL/Licence No ↕
651814	28.425 GHz	150MG7W	344°	T	NBN CO LIMITED (20007752)	1954456/1
651816	28.425 GHz	150MG7W	344°	T	NBN CO LIMITED (20007752)	1954458/1
651817	29.505 GHz	10M0G7W	344°	T	NBN CO LIMITED (20007752)	1954459/1
651818	29.505 GHz	10M0G7W	344°	T	NBN CO LIMITED (20007752)	1954460/1
651820	18.5 GHz	600MG7W	344°	R	NBN CO LIMITED (20007752)	1954462/1
651822	18.5 GHz	600MG7W	344°	R	NBN CO LIMITED (20007752)	1954464/1
651823	19.345 GHz	10M0G7W	344°	R	NBN CO LIMITED (20007752)	1954465/1
651824	19.345 GHz	10M0G7W	344°	R	NBN CO LIMITED (20007752)	1954466/1
652163	27.925 GHz	850MG7W	344°	T	NBN CO LIMITED (20007752)	1968780/1
652165	27.925 GHz	850MG7W	352°	T	NBN CO LIMITED (20007752)	1968782/1
1218216	19.34925 GHz	1M50GXX		R	NBN CO LIMITED (20007752)	1991101/1
1218217	19.34925 GHz	1M50GXX		R	NBN CO LIMITED (20007752)	1991102/1
1371709	27.25 GHz	500MG7W	352.03°	T	NBN CO LIMITED (20007752)	9870418/1
1371719	27.25 GHz	500MG7W	343.92°	T	NBN CO LIMITED (20007752)	9870275/1

[\[New Site Search \]](#)

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- [Licences by Sub Service](#)
- [Site Location Map](#)
- [Spectrum Areas Map](#)
- [Frequency Range Search](#)
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- [400MHz Search](#)
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- [Direction Finder](#)
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- [RRL Archive](#)
- [Class Licences](#)
- [Help](#)

RRL data as of: 14/Mar/2018 17:09

Apparatus Licence

Issued by Delegate of the Australian Communications and Media Authority



Licensee details

Customer ID	20007752
Licensee	NBN CO LIMITED
Trading name	Attention : Timothy Smallhorn
Licensee address	Unit 2/3 16 National Circuit, Barton, ACT 2600

Licence details

Licence service	Earth
Licence subservice	Fixed Earth
Licence number	1954456/1
Callsign	AX253
Date of issue	15/02/2018
Date of effect	15/02/2018
Date of expiry	14/02/2019

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.: 1954456/1

Conditions applicable to the operation of Fixed Earth station(s) authorised under this licence can be found in the Radiocommunications Licence Conditions (Apparatus Licence) Determination. Copies of this determination are available from the ACMA and from the ACMA home page (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.

Station 1:

Site details

Site ID	140864		
Site address	Wolumla, 1210 Wanatta Lane, WOLUMLA NSW 2550		
Co-ordinates (GDA94)	Latitude: -36.787504	Longitude	149.793257

Transmitter details

Assigned frequency	28.42500000 GHz
Bandwidth	150.000000 MHz
Freq. assign. ID	0000511172
Transmitter power	500.00 W
EIRP	
Emission designator	150MG7W

Antenna details

Antenna ID	13625
Antenna polarisation	CR - Right-hand circular or direct
Antenna azimuth	344
Antenna type	Parabolic-P

Advisory Notes applying to Station 1

1. Coordination agreements reached as a result of an ITU international frequency coordination process are intended to minimize the potential for harmful interference to radiocommunications stations. A radiocommunications station operated prior to a frequency assignment being recorded in the MIFR cannot necessarily claim protection from harmful interference from other radiocommunications stations.

Special Conditions applying to Station 1

1. This Earth station is authorised to communicate with space stations of the AUS-NBN-3 satellite network as published by the International Telecommunications Union in Special Section CR/C 2925 of International Frequency Information Circular IFIC 2702.
2. Prior to the frequency assignments being recorded in the MIFR, this Earth station may operate in accordance with the operating parameters published by the International Frequency Information Circulars and in accordance with any agreements reached as a result of an ITU frequency coordination process.
3. Transmissions must not occur in circumstances that result in harmful interference to stations outside of Australia where these stations are operating in accordance with the Radio Regulations of the International Telecommunications Union except where the transmissions are in accordance with any agreements reached as a result of an ITU international frequency coordination process.

Apparatus Licence

Issued by Delegate of the Australian Communications and Media Authority



Licensee details

Customer ID	20007752
Licensee	NBN CO LIMITED
Trading name	Attention : Timothy Smallhorn
Licensee address	Unit 2/3 16 National Circuit, Barton, ACT 2600

Licence details

Licence service	Earth
Licence subservice	Fixed Earth
Licence number	1954458/1
Callsign	AX253
Date of issue	15/02/2018
Date of effect	15/02/2018
Date of expiry	14/02/2019

Licence conditions

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Advisory Notes applying to licence no.: 1954458/1

Conditions applicable to the operation of Fixed Earth station(s) authorised under this licence can be found in the Radiocommunications Licence Conditions (Apparatus Licence) Determination. Copies of this determination are available from the ACMA and from the ACMA home page (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.

Station 1:

Site details

Site ID	140864		
Site address	Wolumla, 1210 Wanatta Lane, WOLUMLA NSW 2550		
Co-ordinates (GDA94)	Latitude: -36.787504	Longitude	149.793257

Transmitter details

Assigned frequency	28.42500000 GHz
Bandwidth	150.000000 MHz
Freq. assign. ID	0000511174
Transmitter power	500.00 W
EIRP	
Emission designator	150MG7W

Antenna details

Antenna ID	13625
Antenna polarisation	CR - Right-hand circular or direct
Antenna azimuth	344
Antenna type	Parabolic-P

Advisory Notes applying to Station 1

1. Coordination agreements reached as a result of an ITU international frequency coordination process are intended to minimize the potential for harmful interference to radiocommunications stations. A radiocommunications station operated prior to a frequency assignment being recorded in the MIFR cannot necessarily claim protection from harmful interference from other radiocommunications stations.

Special Conditions applying to Station 1

1. This Earth station is authorised to communicate with space stations of the AUS-NBN-4 satellite network as published by the International Telecommunications Union in Special Section CR/C 2926 of International Frequency Information Circular IFIC 2702.
2. Prior to the frequency assignments being recorded in the MIFR, this Earth station may operate in accordance with the operating parameters published by the International Frequency Information Circulars and in accordance with any agreements reached as a result of an ITU frequency coordination process.
3. Transmissions must not occur in circumstances that result in harmful interference to stations outside of Australia where these stations are operating in accordance with the Radio Regulations of the International Telecommunications Union except where the transmissions are in accordance with any agreements reached as a result of an ITU international frequency coordination process.

Apparatus Licence

Issued by Delegate of the Australian Communications and Media Authority



Licensee details

Customer ID	20007752
Licensee	NBN CO LIMITED
Trading name	Attention : Timothy Smallhorn
Licensee address	Unit 2/3 16 National Circuit, Barton, ACT 2600

Licence details

Licence service	Earth
Licence subservice	Fixed Earth
Licence number	1954459/1
Callsign	AX253
Date of issue	15/02/2018
Date of effect	15/02/2018
Date of expiry	14/02/2019

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.

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Advisory Notes applying to licence no.: 1954459/1

Conditions applicable to the operation of Fixed Earth station(s) authorised under this licence can be found in the Radiocommunications Licence Conditions (Apparatus Licence) Determination. Copies of this determination are available from the ACMA and from the ACMA home page (www.acma.gov.au).

Technical characteristics

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Station 1:

Site details

Site ID	140864
Site address	Wolumla, 1210 Wanatta Lane, WOLUMLA NSW 2550
Co-ordinates (GDA94)	Latitude: -36.787504 Longitude 149.793257

Transmitter details

Assigned frequency	29.50500000 GHz
Bandwidth	10.000000 MHz
Freq. assign. ID	0000511175
Transmitter power	500.00 W
EIRP	
Emission designator	10M0G7W

Antenna details

Antenna ID	13628
Antenna polarisation	CL - Left-hand circular or indirect
Antenna azimuth	344
Antenna type	Parabolic-P

Advisory Notes applying to Station 1

1. Coordination agreements reached as a result of an ITU international frequency coordination process are intended to minimize the potential for harmful interference to radiocommunications stations. A radiocommunications station operated prior to a frequency assignment being recorded in the MIFR cannot necessarily claim protection from harmful interference from other radiocommunications stations.

Special Conditions applying to Station 1

1. This Earth station is authorised to communicate with space stations of the AUS-NBN-3 satellite network as published by the International Telecommunications Union in Special Section CR/C 2925 of International Frequency Information Circular IFIC 2702.
2. Prior to the frequency assignments being recorded in the MIFR, this Earth station may operate in accordance with the operating parameters published by the International Frequency Information Circulars and in accordance with any agreements reached as a result of an ITU frequency coordination process.
3. Transmissions must not occur in circumstances that result in harmful interference to stations outside of Australia where these stations are operating in accordance with the Radio Regulations of the International Telecommunications Union except where the transmissions are in accordance with any agreements reached as a result of an ITU international frequency coordination process.

Apparatus Licence

Issued by Delegate of the Australian Communications and Media Authority



Licensee details

Customer ID	20007752
Licensee	NBN CO LIMITED
Trading name	Attention : Timothy Smallhorn
Licensee address	Unit 2/3 16 National Circuit, Barton, ACT 2600

Licence details

Licence service	Earth
Licence subservice	Fixed Earth
Licence number	1954460/1
Callsign	AX253
Date of issue	15/02/2018
Date of effect	15/02/2018
Date of expiry	14/02/2019

Licence conditions

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ACMA website: www.acma.gov.au

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Advisory Notes applying to licence no.: 1954460/1

Conditions applicable to the operation of Fixed Earth station(s) authorised under this licence can be found in the Radiocommunications Licence Conditions (Apparatus Licence) Determination. Copies of this determination are available from the ACMA and from the ACMA home page (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.

Station 1:

Site details

Site ID	140864		
Site address	Wolumla, 1210 Wanatta Lane, WOLUMLA NSW 2550		
Co-ordinates (GDA94)	Latitude: -36.787504	Longitude	149.793257

Transmitter details

Assigned frequency	29.50500000 GHz
Bandwidth	10.000000 MHz
Freq. assign. ID	0000511176
Transmitter power	500.00 W
EIRP	
Emission designator	10M0G7W

Antenna details

Antenna ID	13641
Antenna polarisation	CL - Left-hand circular or indirect
Antenna azimuth	344
Antenna type	Parabolic-P

Advisory Notes applying to Station 1

1. Coordination agreements reached as a result of an ITU international frequency coordination process are intended to minimize the potential for harmful interference to radiocommunications stations. A radiocommunications station operated prior to a frequency assignment being recorded in the MIFR cannot necessarily claim protection from harmful interference from other radiocommunications stations.

Special Conditions applying to Station 1

1. This Earth station is authorised to communicate with space stations of the AUS-NBN-4 satellite network as published by the International Telecommunications Union in Special Section CR/C 2926 of International Frequency Information Circular IFIC 2702.
2. Prior to the frequency assignments being recorded in the MIFR, this Earth station may operate in accordance with the operating parameters published by the International Frequency Information Circulars and in accordance with any agreements reached as a result of an ITU frequency coordination process.
3. Transmissions must not occur in circumstances that result in harmful interference to stations outside of Australia where these stations are operating in accordance with the Radio Regulations of the International Telecommunications Union except where the transmissions are in accordance with any agreements reached as a result of an ITU international frequency coordination process.

Apparatus Licence

Issued by Delegate of the Australian Communications and Media Authority



Licensee details

Customer ID	20007752
Licensee	NBN CO LIMITED
Trading name	Attention : Timothy Smallhorn
Licensee address	Unit 2/3 16 National Circuit, Barton, ACT 2600

Licence details

Licence service	Earth Receive
Licence subservice	Earth Receive
Licence number	1954462/1
Callsign	AX253
Date of issue	15/02/2018
Date of effect	15/02/2018
Date of expiry	14/02/2019

Licence conditions

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ACMA website: www.acma.gov.au

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Advisory Notes applying to licence no.: 1954462/1

Conditions applicable to the operation of Earth Receive station(s) authorised under this licence can be found in the Radiocommunications Licence Conditions (Apparatus Licence) Determination. Copies of this determination are available from the ACMA and from the ACMA home page (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.

Station 1:

Sited details

Site ID	140864
Site address	Wolumla, 1210 Wanatta Lane, WOLUMLA NSW 2550
Co-ordinates (GDA94)	Latitude: -36.787504 Longitude: 149.793257

Receiver details

Assigned frequency	18.50000000 GHz
Bandwidth	600.000000 MHz
Freq. assign. ID	0000511178
Emission designator	600MG7W

Antenna details

Antenna ID	13641
Antenna polarisation	CR - Right-hand circular or direct
Antenna azimuth	344
Antenna height (m)	8
Antenna type	Parabolic-P

Advisory Notes applying to Station 1

1. Coordination agreements reached as a result of an ITU international frequency coordination process are intended to minimize the potential for harmful interference to radiocommunications stations. A radiocommunications station operated prior to a frequency assignment being recorded in the MIFR cannot necessarily claim protection from harmful interference from other radiocommunications stations.

Special Conditions applying to Station 1

1. This Earth station is authorised to communicate with space stations of the AUS-NBN-3 satellite network as published by the International Telecommunications Union in Special Section CR/C 2925 of International Frequency Information Circular IFIC 2702.

2. Prior to the frequency assignments being recorded in the MIFR, this Earth station may operate in accordance with the operating parameters published by the International Frequency Information Circulars and in accordance with any agreements reached as a result of an ITU frequency coordination process.

3. Transmissions must not occur in circumstances that result in harmful interference to stations outside of Australia where these stations are operating in accordance with the Radio Regulations of the International Telecommunications Union except where the transmissions are in accordance with any agreements reached as a result of an ITU international frequency coordination process.

Apparatus Licence

Issued by Delegate of the Australian Communications and Media Authority



Licensee details

Customer ID	20007752
Licensee	NBN CO LIMITED
Trading name	Attention : Timothy Smallhorn
Licensee address	Unit 2/3 16 National Circuit, Barton, ACT 2600

Licence details

Licence service	Earth Receive
Licence subservice	Earth Receive
Licence number	1954464/1
Callsign	AX253
Date of issue	15/02/2018
Date of effect	15/02/2018
Date of expiry	14/02/2019

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Advisory Notes applying to licence no.: 1954464/1

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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.

Station 1:

Sited details

Site ID	140864
Site address	Wolumla, 1210 Wanatta Lane, WOLUMLA NSW 2550
Co-ordinates (GDA94)	Latitude: -36.787504 Longitude: 149.793257

Receiver details

Assigned frequency	18.50000000 GHz
Bandwidth	600.000000 MHz
Freq. assign. ID	0000511180
Emission designator	600MG7W

Antenna details

Antenna ID	13641
Antenna polarisation	CR - Right-hand circular or direct
Antenna azimuth	344
Antenna height (m)	8
Antenna type	Parabolic-P

Advisory Notes applying to Station 1

1. Coordination agreements reached as a result of an ITU international frequency coordination process are intended to minimize the potential for harmful interference to radiocommunications stations. A radiocommunications station operated prior to a frequency assignment being recorded in the MIFR cannot necessarily claim protection from harmful interference from other radiocommunications stations.

Special Conditions applying to Station 1

1. This Earth station is authorised to communicate with space stations of the AUS-NBN-4 satellite network as published by the International Telecommunications Union in Special Section CR/C 2926 of International Frequency Information Circular IFIC 2702.
2. Prior to the frequency assignments being recorded in the MIFR, this Earth station may operate in accordance with the operating parameters published by the International Frequency Information Circulars and in accordance with any agreements reached as a result of an ITU frequency coordination process.
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Licensee details

Customer ID	20007752
Licensee	NBN CO LIMITED
Trading name	Attention : Timothy Smallhorn
Licensee address	Unit 2/3 16 National Circuit, Barton, ACT 2600

Licence details

Licence service	Earth Receive
Licence subservice	Earth Receive
Licence number	1954465/1
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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.: 1954465/1

Conditions applicable to the operation of Earth Receive station(s) authorised under this licence can be found in the Radiocommunications Licence Conditions (Apparatus Licence) Determination. Copies of this determination are available from the ACMA and from the ACMA home page (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.

Station 1:

Sited details

Site ID	140864
Site address	Wolumla, 1210 Wanatta Lane, WOLUMLA NSW 2550
Co-ordinates (GDA94)	Latitude: -36.787504 Longitude: 149.793257

Receiver details

Assigned frequency	19.34500000 GHz
Bandwidth	10.000000 MHz
Freq. assign. ID	0000511181
Emission designator	10M0G7W

Antenna details

Antenna ID	13642
Antenna polarisation	CR - Right-hand circular or direct
Antenna azimuth	344
Antenna height (m)	8
Antenna type	Parabolic-P

Advisory Notes applying to Station 1

1. Coordination agreements reached as a result of an ITU international frequency coordination process are intended to minimize the potential for harmful interference to radiocommunications stations. A radiocommunications station operated prior to a frequency assignment being recorded in the MIFR cannot necessarily claim protection from harmful interference from other radiocommunications stations.

Special Conditions applying to Station 1

1. This Earth station is authorised to communicate with space stations of the AUS-NBN-3 satellite network as published by the International Telecommunications Union in Special Section CR/C 2925 of International Frequency Information Circular IFIC 2702.

2. Prior to the frequency assignments being recorded in the MIFR, this Earth station may operate in accordance with the operating parameters published by the International Frequency Information Circulars and in accordance with any agreements reached as a result of an ITU frequency coordination process.

3. Transmissions must not occur in circumstances that result in harmful interference to stations outside of Australia where these stations are operating in accordance with the Radio Regulations of the International Telecommunications Union except where the transmissions are in accordance with any agreements reached as a result of an ITU international frequency coordination process.

Apparatus Licence

Issued by Delegate of the Australian Communications and Media Authority



Licensee details

Customer ID	20007752
Licensee	NBN CO LIMITED
Trading name	Attention : Timothy Smallhorn
Licensee address	Unit 2/3 16 National Circuit, Barton, ACT 2600

Licence details

Licence service	Earth Receive
Licence subservice	Earth Receive
Licence number	1954466/1
Callsign	AX253
Date of issue	15/02/2018
Date of effect	15/02/2018
Date of expiry	14/02/2019

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.: 1954466/1

Conditions applicable to the operation of Earth Receive station(s) authorised under this licence can be found in the Radiocommunications Licence Conditions (Apparatus Licence) Determination. Copies of this determination are available from the ACMA and from the ACMA home page (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.

Station 1:

Sited details

Site ID	140864
Site address	Wolumla, 1210 Wanatta Lane, WOLUMLA NSW 2550
Co-ordinates (GDA94)	Latitude: -36.787504 Longitude: 149.793257

Receiver details

Assigned frequency	19.34500000 GHz
Bandwidth	10.000000 MHz
Freq. assign. ID	0000511182
Emission designator	10M0G7W

Antenna details

Antenna ID	13642
Antenna polarisation	CR - Right-hand circular or direct
Antenna azimuth	344
Antenna height (m)	8
Antenna type	Parabolic-P

Advisory Notes applying to Station 1

1. Coordination agreements reached as a result of an ITU international frequency coordination process are intended to minimize the potential for harmful interference to radiocommunications stations. A radiocommunications station operated prior to a frequency assignment being recorded in the MIFR cannot necessarily claim protection from harmful interference from other radiocommunications stations.

Special Conditions applying to Station 1

1. This Earth station is authorised to communicate with space stations of the AUS-NBN-4 satellite network as published by the International Telecommunications Union in Special Section CR/C 2926 of International Frequency Information Circular IFIC 2702.

2. Prior to the frequency assignments being recorded in the MIFR, this Earth station may operate in accordance with the operating parameters published by the International Frequency Information Circulars and in accordance with any agreements reached as a result of an ITU frequency coordination process.

3. Transmissions must not occur in circumstances that result in harmful interference to stations outside of Australia where these stations are operating in accordance with the Radio Regulations of the International Telecommunications Union except where the transmissions are in accordance with any agreements reached as a result of an ITU international frequency coordination process.

Apparatus Licence

Issued by Delegate of the Australian Communications and Media Authority



Licensee details

Customer ID	20007752
Licensee	NBN CO LIMITED
Trading name	Attention : Timothy Smallhorn
Licensee address	Unit 2/3 16 National Circuit, Barton, ACT 2600

Licence details

Licence service	Earth
Licence subservice	Fixed Earth
Licence number	1968780/1
Date of issue	01/02/2018
Date of effect	01/02/2018
Date of expiry	31/01/2019

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*.

Special Conditions applying to licence no.: 1968780/1

(2) Transmissions must not occur in circumstances that result in harmful interference to stations outside of Australia where these stations are operating in accordance with the Radio Regulations of the ITU except where the transmissions are in accordance with any agreements reached as a result of an ITU international frequency coordination process.

(2) Prior to the frequency assignments being recorded in the Master International Frequency Register (MIFR), this earth station may operate in accordance with the operating parameters published by the ITU in Special Sections of International Frequency Information Circulars and in accordance with any agreements reached as a result of an ITU frequency coordination process.

(1) This earth station is authorised to communicate with space stations of the AUS-NBN-3 satellite network as published by the International Telecommunication Union (ITU) in Special Section CR/C 2925 of International Frequency Information Circular 2702.

Advisory Notes applying to licence no.: 1968780/1

Conditions applicable to the operation of Fixed Earth station(s) authorised under this licence can be found in the Radiocommunications Licence Conditions (Apparatus Licence) Determination. Copies of this determination are available from the ACMA and from the ACMA home page (www.acma.gov.au).

(3) Coordination agreements reached as a result of an ITU international frequency coordination process are intended to minimise the potential for harmful interference to radiocommunications stations. A radiocommunications station operated prior to a frequency assignment being recorded in the MIFR cannot necessarily claim protection from harmful interference from radiocommunications stations of other countries.

(1) The Master International Frequency Register (MIFR) is maintained by the International Telecommunication Union (ITU) in accordance with the Radio Regulations.

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.

Station 1:

Site details

Site ID	140864		
Site address	Wolumla, 1210 Wanatta Lane, WOLUMLA NSW 2550		
Co-ordinates (GDA94)	Latitude: -36.787504	Longitude	149.793257

Transmitter details

Assigned frequency	27.92500000 GHz
Bandwidth	850.000000 MHz
Freq. assign. ID	0000511521
Transmitter power	500.00 W
EIRP	
Emission designator	850MG7W

Antenna details

Antenna ID	13625
Antenna polarisation	CR - Right-hand circular or direct
Antenna azimuth	344
Antenna type	Parabolic-P

Apparatus Licence

Issued by Delegate of the Australian Communications and Media Authority



Licensee details

Customer ID	20007752
Licensee	NBN CO LIMITED
Trading name	Attention : Timothy Smallhorn
Licensee address	Unit 2/3 16 National Circuit, Barton, ACT 2600

Licence details

Licence service	Earth
Licence subservice	Fixed Earth
Licence number	1968782/1
Date of issue	01/02/2018
Date of effect	01/02/2018
Date of expiry	31/01/2019

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*.

Special Conditions applying to licence no.: 1968782/1

(2) Transmissions must not occur in circumstances that result in harmful interference to stations outside of Australia where these stations are operating in accordance with the Radio Regulations of the ITU except where the transmissions are in accordance with any agreements reached as a result of an ITU international frequency coordination process.

(2) Prior to the frequency assignments being recorded in the Master International Frequency Register (MIFR), this earth station may operate in accordance with the operating parameters published by the ITU in Special Sections of International Frequency Information Circulars and in accordance with any agreements reached as a result of an ITU frequency coordination process.

(1) This earth station is authorised to communicate with space stations of the AUS-NBN-3 satellite network as published by the International Telecommunication Union (ITU) in Special Section CR/C 2925 of International Frequency Information Circular 2702.

Advisory Notes applying to licence no.: 1968782/1

Conditions applicable to the operation of Fixed Earth station(s) authorised under this licence can be found in the Radiocommunications Licence Conditions (Apparatus Licence) Determination. Copies of this determination are available from the ACMA and from the ACMA home page (www.acma.gov.au).

(3) Coordination agreements reached as a result of an ITU international frequency coordination process are intended to minimise the potential for harmful interference to radiocommunications stations. A radiocommunications station operated prior to a frequency assignment being recorded in the MIFR cannot necessarily claim protection from harmful interference from radiocommunications stations of other countries.

(1) The Master International Frequency Register (MIFR) is maintained by the International Telecommunication Union (ITU) in accordance with the Radio Regulations.

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.

Station 1:

Site details	
Site ID	140864
Site address	Wolumla, 1210 Wanatta Lane, WOLUMLA NSW 2550
Co-ordinates (GDA94)	Latitude: -36.787504 Longitude 149.793257
Transmitter details	
Assigned frequency	27.92500000 GHz
Bandwidth	850.000000 MHz
Freq. assign. ID	0000511523
Transmitter power	500.00 W
EIRP	
Emission designator	850MG7W
Antenna details	
Antenna ID	13625
Antenna polarisation	CR - Right-hand circular or direct
Antenna azimuth	352
Antenna type	Parabolic-P

Apparatus Licence

Issued by Delegate of the Australian Communications and Media Authority



Licensee details

Customer ID	20007752
Licensee	NBN CO LIMITED
Trading name	Attention : Timothy Smallhorn
Licensee address	Unit 2/3 16 National Circuit, Barton, ACT 2600

Licence details

Licence service	Earth Receive
Licence subservice	Earth Receive
Licence number	1991101/1
Date of issue	1/09/17
Date of effect	1/09/17
Date of expiry	3/09/18

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*.

Special Conditions applying to licence no.: 1991101/1

(1) This earth station is authorised to communicate with space stations of the AUS-NBN-3 satellite network as published by the International Telecommunication Union (ITU) in Special Section CR/C 2925 of International Frequency Information Circular 2702.

Advisory Notes applying to licence no.: 1991101/1

Conditions applicable to the operation of Earth Receive station(s) authorised under this licence can be found in the Radiocommunications Licence Conditions (Apparatus Licence) Determination. Copies of this determination are available from the ACMA and from the ACMA home page (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.

Station 1:

Sited details

Site ID	140864
Site address	Wolumla, 1210 Wanatta Lane, WOLUMLA NSW 2550
Co-ordinates (GDA94)	Latitude: -36.787504 Longitude: 149.793257

Receiver details

Assigned frequency	19.34925000 GHz
Bandwidth	1.500000 MHz
Freq. assign. ID	0001077820
Emission designator	1M50GXX

Antenna details

Antenna ID	13625
Antenna polarisation	M - Mixed
Antenna azimuth	
Antenna height	8.00
Antenna type	Parabolic-P

Apparatus Licence

Issued by Delegate of the Australian Communications and Media Authority



Licensee details

Customer ID	20007752
Licensee	NBN CO LIMITED
Trading name	Attention : Timothy Smallhorn
Licensee address	Unit 2/3 16 National Circuit, Barton, ACT 2600

Licence details

Licence service	Earth Receive
Licence subservice	Earth Receive
Licence number	1991102/1
Date of issue	1/09/17
Date of effect	1/09/17
Date of expiry	3/09/18

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*.

Special Conditions applying to licence no.: 1991102/1

(1) This earth station is authorised to communicate with space stations of the AUS-NBN-4 satellite network as published by the International Telecommunication Union (ITU) in Special Section CR/C 2926 of International Frequency Information Circular 2702.

Advisory Notes applying to licence no.: 1991102/1

Conditions applicable to the operation of Earth Receive station(s) authorised under this licence can be found in the Radiocommunications Licence Conditions (Apparatus Licence) Determination. Copies of this determination are available from the ACMA and from the ACMA home page (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.

Station 1:

Sited details

Site ID	140864
Site address	Wolumla, 1210 Wanatta Lane, WOLUMLA NSW 2550
Co-ordinates (GDA94)	Latitude: -36.787504 Longitude: 149.793257

Receiver details

Assigned frequency	19.34925000 GHz
Bandwidth	1.500000 MHz
Freq. assign. ID	0001077821
Emission designator	1M50GXX

Antenna details

Antenna ID	13625
Antenna polarisation	M - Mixed
Antenna azimuth	
Antenna height	8.00
Antenna type	Parabolic-P

Apparatus Licence

Issued by Delegate of the Australian Communications and Media Authority



Licensee details

Customer ID	20007752
Licensee	NBN CO LIMITED
Trading name	Attention : Timothy Smallhorn
Licensee address	Unit 2/3 16 National Circuit, Barton, ACT 2600

Licence details

Licence service	Earth
Licence subservice	Fixed Earth
Licence number	9870275/1
Date of issue	17/01/18
Date of effect	17/01/18
Date of expiry	17/01/19

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*.

Special Conditions applying to licence no.: 9870275/1

(2) Prior to the frequency assignments being recorded in the Master International Frequency Register (MIFR), this earth station may operate in accordance with the operating parameters published by the ITU in Special Sections of International Frequency Information Circulars and in accordance with any agreements reached as a result of an ITU frequency coordination process.

(2) Transmissions must not occur in circumstances that result in harmful interference to stations outside of Australia where these stations are operating in accordance with the Radio Regulations of the ITU except where the transmissions are in accordance with any agreements reached as a result of an ITU international frequency coordination process.

The station must not cause harmful interference to the future expansion of any terrestrial station or system authorised for operation in the 6 GHz band.

This earth station is authorised to communicate with space stations of the AUS-NBN-3 satellite network as published by the International Telecommunication Union (ITU) in Special Section CR/C/2925 of International Frequency Information Circular 2702.

Advisory Notes applying to licence no.: 9870275/1

Conditions applicable to the operation of Fixed Earth station(s) authorised under this licence can be found in the Radiocommunications Licence Conditions (Apparatus Licence) Determination. Copies of this determination are available from the ACMA and from the ACMA home page (www.acma.gov.au).

This earth station is authorised to communicate with space stations of the AUS-NBN-3 satellite network as published by the International Telecommunication Union (ITU) in Special Section CR/C/2925 of International Frequency Information Circular 2702.

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.

Station 1:

Site details	
Site ID	140864
Site address	Wolumla, 1210 Wanatta Lane, WOLUMLA NSW 2550
Co-ordinates (GDA94)	Latitude: -36.787504 Longitude 149.793257
Transmitter details	
Assigned frequency	27.25000000 GHz
Bandwidth	500.000000 MHz
Freq. assign. ID	0001211354
Transmitter power	111.00 W
EIRP	1,246.22 MW
Emission designator	500MG7W
Antenna details	
Antenna ID	13625
Antenna polarisation	M - Mixed
Antenna azimuth	343.92
Antenna type	Parabolic-P

Station 2:

Site details	
Site ID	140893
Site address	Bourke, Lot 101 Peter Bryant Drive, BOURKE NSW 2840
Co-ordinates (GDA94)	Latitude: -30.025705 Longitude 145.938753
Transmitter details	
Assigned frequency	27.25000000 GHz
Bandwidth	500.000000 MHz
Freq. assign. ID	0001211355
Transmitter power	
EIRP	
Emission designator	500MG7W
Antenna details	
Antenna ID	13625
Antenna polarisation	M - Mixed
Antenna azimuth	348.26
Antenna type	Parabolic-P

Station 3:

Site details	
Site ID	140920
Site address	Geeveston, 479 Harwoods Rd, CASTLE FORBES BAY TAS 7116
Co-ordinates (GDA94)	Latitude: -43.116200 Longitude 146.945263
Transmitter details	
Assigned frequency	27.25000000 GHz
Bandwidth	500.000000 MHz
Freq. assign. ID	0001211356
Transmitter power	111.00 W
EIRP	1,246.22 MW
Emission designator	500MG7W
Antenna details	
Antenna ID	13625
Antenna polarisation	M - Mixed
Antenna azimuth	349.89
Antenna type	Parabolic-P

Station 4:

Site details	
Site ID	140932
Site address	2 Abattoir Rd, MOONYOONOOKA WA 6532
Co-ordinates (GDA94)	Latitude: -28.781520 Longitude 114.746929
Transmitter details	
Assigned frequency	27.25000000 GHz
Bandwidth	500.000000 MHz
Freq. assign. ID	0001211357
Transmitter power	111.00 W
EIRP	1,246.22 MW
Emission designator	500MG7W
Antenna details	
Antenna ID	13625
Antenna polarisation	M - Mixed
Antenna azimuth	44.41
Antenna type	Parabolic-P

Station 5:

Site details	
Site ID	140986
Site address	Ceduna, lot 617 Goode Rd, CEDUNA SA 5690
Co-ordinates (GDA94)	Latitude: -32.110222 Longitude 133.683355

<u>Transmitter details</u>	
Assigned frequency	27.25000000 GHz
Bandwidth	500.000000 MHz
Freq. assign. ID	0001211358
Transmitter power	111.00 W
EIRP	1,246.22 MW
Emission designator	500MG7W
<u>Antenna details</u>	
Antenna ID	13625
Antenna polarisation	M - Mixed
Antenna azimuth	11.76
Antenna type	Parabolic-P

Station 6:

Site details	
Site ID	140987
Site address	Kalgoorlie, Lot 300 Halls Rd, BINDULI WA 6434
Co-ordinates (GDA94)	Latitude: -30.802761 Longitude 121.375676
<u>Transmitter details</u>	
Assigned frequency	27.25000000 GHz
Bandwidth	500.000000 MHz
Freq. assign. ID	0001211359
Transmitter power	111.00 W
EIRP	1,246.22 MW
Emission designator	500MG7W
<u>Antenna details</u>	
Antenna ID	13625
Antenna polarisation	M - Mixed
Antenna azimuth	33.35
Antenna type	Parabolic-P

Station 7:

Site details	
Site ID	140988
Site address	Roma, 6 Kimbler Rd, ROMA QLD 4455
Co-ordinates (GDA94)	Latitude: -26.589408 Longitude 148.856840

<u>Transmitter details</u>	
Assigned frequency	27.25000000 GHz
Bandwidth	500.000000 MHz
Freq. assign. ID	0001211360
Transmitter power	111.00 W
EIRP	1,246.22 MW
Emission designator	500MG7W
<u>Antenna details</u>	
Antenna ID	13625
Antenna polarisation	M - Mixed
Antenna azimuth	340.81
Antenna type	Parabolic-P

Station 8:

Site details	
Site ID	140998
Site address	Waroona, Lot 1 South Western Highway, WAGERUP WA 6215
Co-ordinates (GDA94)	Latitude: -32.892164 Longitude 115.914464
<u>Transmitter details</u>	
Assigned frequency	27.25000000 GHz
Bandwidth	500.000000 MHz
Freq. assign. ID	0001211361
Transmitter power	111.00 W
EIRP	1,246.22 MW
Emission designator	500MG7W
<u>Antenna details</u>	
Antenna ID	13625
Antenna polarisation	M - Mixed
Antenna azimuth	38.46
Antenna type	Parabolic-P

Station 9:

Site details	
Site ID	141006
Site address	Lot 1 Barrier Highway, NUGEE NSW 2880
Co-ordinates (GDA94)	Latitude: -31.913677 Longitude 141.541395

<u>Transmitter details</u>	
Assigned frequency	27.25000000 GHz
Bandwidth	500.000000 MHz
Freq. assign. ID	0001211362
Transmitter power	111.00 W
EIRP	1,246.22 MW
Emission designator	500MG7W
<u>Antenna details</u>	
Antenna ID	13625
Antenna polarisation	M - Mixed
Antenna azimuth	357.35
Antenna type	Parabolic-P

Station 10:

Site details	
Site ID	141426
Site address	Carnarvon, End of Grau Place (Off Mahony Avenue), CARNARVON WA 6701
Co-ordinates (GDA94)	Latitude: -24.867589 Longitude 113.704248
<u>Transmitter details</u>	
Assigned frequency	27.25000000 GHz
Bandwidth	500.000000 MHz
Freq. assign. ID	0001211363
Transmitter power	111.00 W
EIRP	1,246.22 MW
Emission designator	500MG7W
<u>Antenna details</u>	
Antenna ID	13625
Antenna polarisation	M - Mixed
Antenna azimuth	49.57
Antenna type	Parabolic-P

Apparatus Licence

Issued by Delegate of the Australian Communications and Media Authority



Licensee details

Customer ID	20007752
Licensee	NBN CO LIMITED
Trading name	Attention : Timothy Smallhorn
Licensee address	Unit 2/3 16 National Circuit, Barton, ACT 2600

Licence details

Licence service	Earth
Licence subservice	Fixed Earth
Licence number	9870418/1
Date of issue	17/01/18
Date of effect	17/01/18
Date of expiry	17/01/19

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*.

Special Conditions applying to licence no.: 9870418/1

(2) Transmissions must not occur in circumstances that result in harmful interference to stations outside of Australia where these stations are operating in accordance with the Radio Regulations of the ITU except where the transmissions are in accordance with any agreements reached as a result of an ITU international frequency coordination process.

The station must not cause harmful interference to the future expansion of any terrestrial station or system authorised for operation in the 6 GHz band.

(2) Prior to the frequency assignments being recorded in the Master International Frequency Register (MIFR), this earth station may operate in accordance with the operating parameters published by the ITU in Special Sections of International Frequency Information Circulars and in accordance with any agreements reached as a result of an ITU frequency coordination process.

Advisory Notes applying to licence no.: 9870418/1

Conditions applicable to the operation of Fixed Earth station(s) authorised under this licence can be found in the Radiocommunications Licence Conditions (Apparatus Licence) Determination. Copies of this determination are available from the ACMA and from the ACMA home page (www.acma.gov.au).

This earth station is authorised to communicate with space stations of the AUS-NBN-4 satellite network as published by the International Telecommunication Union (ITU) in Special Section CR/C/2926 of International Frequency Information Circular 2702.

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.

Station 1:

Site details	
Site ID	140864
Site address	Wolumla, 1210 Wanatta Lane, WOLUMLA NSW 2550
Co-ordinates (GDA94)	Latitude: -36.787504 Longitude 149.793257
Transmitter details	
Assigned frequency	27.25000000 GHz
Bandwidth	500.000000 MHz
Freq. assign. ID	0001211537
Transmitter power	111.00 W
EIRP	1,246.22 MW
Emission designator	500MG7W
Antenna details	
Antenna ID	13625
Antenna polarisation	M - Mixed
Antenna azimuth	352.03
Antenna type	Parabolic-P

Station 2:

Site details	
Site ID	140893
Site address	Bourke, Lot 101 Peter Bryant Drive, BOURKE NSW 2840
Co-ordinates (GDA94)	Latitude: -30.025705 Longitude 145.938753
Transmitter details	
Assigned frequency	27.25000000 GHz
Bandwidth	500.000000 MHz
Freq. assign. ID	0001211538
Transmitter power	111.00 W
EIRP	1,246.22 MW
Emission designator	500MG7W
Antenna details	
Antenna ID	13625
Antenna polarisation	M - Mixed
Antenna azimuth	358.12
Antenna type	Parabolic-P

Station 3:

Site details	
Site ID	140920
Site address	Geeveston, 479 Harwoods Rd, CASTLE FORBES BAY TAS 7116
Co-ordinates (GDA94)	Latitude: -43.116200 Longitude 146.945263
Transmitter details	
Assigned frequency	27.25000000 GHz
Bandwidth	500.000000 MHz
Freq. assign. ID	0001211539
Transmitter power	111.00 W
EIRP	1,246.22 MW
Emission designator	500MG7W
Antenna details	
Antenna ID	13625
Antenna polarisation	M - Mixed
Antenna azimuth	357.16
Antenna type	Parabolic-P

Station 4:

Site details	
Site ID	140932
Site address	2 Abattoir Rd, MOONYOONOOKA WA 6532
Co-ordinates (GDA94)	Latitude: -28.781520 Longitude 114.746929
Transmitter details	
Assigned frequency	27.25000000 GHz
Bandwidth	500.000000 MHz
Freq. assign. ID	0001211540
Transmitter power	111.00 W
EIRP	1,246.22 MW
Emission designator	500MG7W
Antenna details	
Antenna ID	13625
Antenna polarisation	M - Mixed
Antenna azimuth	50.46
Antenna type	Parabolic-P

Station 5:

Site details	
Site ID	140986
Site address	Ceduna, lot 617 Goode Rd, CEDUNA SA 5690
Co-ordinates (GDA94)	Latitude: -32.110222 Longitude 133.683355

Transmitter details	
Assigned frequency	27.25000000 GHz
Bandwidth	500.000000 MHz
Freq. assign. ID	0001211541
Transmitter power	111.00 W
EIRP	1,246.22 MW
Emission designator	500MG7W
Antenna details	
Antenna ID	13625
Antenna polarisation	M - Mixed
Antenna azimuth	20.63
Antenna type	Parabolic-P

Station 6:

Site details	
Site ID	140987
Site address	Kalgoorlie, Lot 300 Halls Rd, BINDULI WA 6434
Co-ordinates (GDA94)	Latitude: -30.802761 Longitude 121.375676
Transmitter details	
Assigned frequency	27.25000000 GHz
Bandwidth	500.000000 MHz
Freq. assign. ID	0001211542
Transmitter power	111.00 W
EIRP	1,246.22 MW
Emission designator	500MG7W
Antenna details	
Antenna ID	13625
Antenna polarisation	M - Mixed
Antenna azimuth	40.50
Antenna type	Parabolic-P

Station 7:

Site details	
Site ID	140988
Site address	Roma, 6 Kimbler Rd, ROMA QLD 4455
Co-ordinates (GDA94)	Latitude: -26.589408 Longitude 148.856840

<u>Transmitter details</u>	
Assigned frequency	27.25000000 GHz
Bandwidth	500.000000 MHz
Freq. assign. ID	0001211543
Transmitter power	111.00 W
EIRP	1,246.22 MW
Emission designator	500MG7W
<u>Antenna details</u>	
Antenna ID	13625
Antenna polarisation	M - Mixed
Antenna azimuth	351.43
Antenna type	Parabolic-P

Station 8:

Site details	
Site ID	140998
Site address	Waroona, Lot 1 South Western Highway, WAGERUP WA 6215
Co-ordinates (GDA94)	Latitude: -32.892164 Longitude 115.914464
<u>Transmitter details</u>	
Assigned frequency	27.25000000 GHz
Bandwidth	500.000000 MHz
Freq. assign. ID	0001211544
Transmitter power	111.00 W
EIRP	1,246.22 MW
Emission designator	500MG7W
<u>Antenna details</u>	
Antenna ID	13625
Antenna polarisation	M - Mixed
Antenna azimuth	45.69
Antenna type	Parabolic-P

Station 9:

Site details	
Site ID	141006
Site address	Lot 1 Barrier Highway, NUGEE NSW 2880
Co-ordinates (GDA94)	Latitude: -31.913677 Longitude 141.541395

<u>Transmitter details</u>	
Assigned frequency	27.25000000 GHz
Bandwidth	500.000000 MHz
Freq. assign. ID	0001211545
Transmitter power	111.00 W
EIRP	1,246.22 MW
Emission designator	500MG7W
<u>Antenna details</u>	
Antenna ID	13625
Antenna polarisation	M - Mixed
Antenna azimuth	6.77
Antenna type	Parabolic-P

Station 10:

Site details	
Site ID	141426
Site address	Carnarvon, End of Grau Place (Off Mahony Avenue), CARNARVON WA 6701
Co-ordinates (GDA94)	Latitude: -24.867589 Longitude 113.704248
<u>Transmitter details</u>	
Assigned frequency	27.25000000 GHz
Bandwidth	500.000000 MHz
Freq. assign. ID	0001211546
Transmitter power	111.00 W
EIRP	1,246.22 MW
Emission designator	500MG7W
<u>Antenna details</u>	
Antenna ID	13625
Antenna polarisation	M - Mixed
Antenna azimuth	55.29
Antenna type	Parabolic-P