



**Australian  
Broadcasting  
Authority**

# **LICENCE AREA PLAN**

## **CANBERRA**

### **(RADIO)**

**JUNE 1999**

# LICENCE AREA PLAN - CANBERRA

## DETERMINATION

The Australian Broadcasting Authority hereby makes this plan for broadcasting services in the Canberra area, under subsection 26(1) of the *Broadcasting Services Act 1992*.

Nine national radio broadcasting services are to be available in the area described at Attachment 1.01 to this Determination with the use of the broadcasting services bands. The characteristics, including technical specifications, of the national radio services that are to be available in the area described at Attachment 1.01 are set out in Schedule One and Attachments 1.02 - 1.10 to this Determination.

Four commercial radio broadcasting services are to be available in the area described at Attachment 1.01 to this Determination with the use of the broadcasting services bands. The characteristics, including technical specifications, of the commercial radio services that are to be available in the area described at Attachment 1.01 are set out in Schedule One and Attachments 1.11 - 1.16 to this Determination.

Six community radio broadcasting services are to be available in the area described at Attachment 1.01 to this Determination with the use of the broadcasting services bands. The characteristics, including technical specifications, of the community radio services that are to be available in the area described at Attachment 1.01 are set out in Schedule One and Attachment 1.16 to 1.26 in this Determination.

Four open narrowcasting radio services are to be available in the area described at Attachment 1.01 to this Determination with the use of the broadcasting services bands. The characteristics, including technical specifications, of the open narrowcasting services that are to be available in the area described at Attachment 1.01 are set out in Schedule One and Attachments 1.27 - 1.30 to this Determination.

One community radio broadcasting service is to be available in the area described at Attachment 2.01 to this Determination with the use of the broadcasting services bands. The characteristics, including technical specifications, of the community radio service that is to be available in the area described at Attachment 2.01 are set out in Schedule Two and Attachment 2.02 to 2.03 to this Determination.

One community radio broadcasting service is to be available in the area described at Attachment 3.01 to this Determination with the use of the broadcasting services bands. The characteristics, including technical specifications, of the community radio service that is to be available in the area described at Attachment 3.01 are set out in Schedule Three and Attachment 3.02 to this Determination.

One community radio broadcasting service is to be available in the area described at Attachment 4.01 to this Determination with the use of the broadcasting services bands. The characteristics, including technical specifications, of the community radio service that is to be available in the area described at Attachment 4.01 are set out in Schedule Four and Attachment 4.02 to this Determination.

(Determined by the Australian Broadcasting Authority on 17 June 1999)

## SCHEDULES

Each of the Schedules sets out:

- the category of each of the services that are to be available in that area (column one);
- the status of the service (column two) does not form part of the licence area plan decision and is included for reference only;
- the frequency for each transmitter (column three) does not form part of the licence area plan decision and is included for reference only;
- the service licence number which has been allocated to the service, if appropriate (column four); NA = Not Applicable, as the Broadcasting Services Act 1992 only requires service licences For Commercial And Community services;
- the transmitters required to transmit the service;
- the technical specification number which has been allocated to each transmitter (column five);
- the identifying number of the attachment where the technical specifications for each transmitter are described (column six) (each set of technical specifications referred to in the Schedules is an attachment to this determination); and
- the general area served by each transmitter (column seven).

## SCHEDULE ONE

### Licence Area Plan : Canberra Radio - Radio - June 1999

Licence Area : CANBERRA RA1

Service Category	Status #	Frequency #	Service Licence No	Technical Specification No	Attach No	Area Served
National	Licensed	666 kHz	N/A	TS4001001	1.02	Canberra
National	Licensed	846 kHz	N/A	TS4002001	1.03	Canberra
National	Licensed	1440 kHz	N/A	TS2213001	1.04	Canberra
National	Licensed	101.5 MHz	N/A	TS3999601	1.05	Canberra
National	Licensed	102.3 MHz	N/A	TS3689601	1.06	Canberra
National	Licensed	105.5 MHz	N/A	TS6880001	1.07	Canberra
National	Reserved	99.1 MHz	N/A	TS10008240	1.08	Tuggeranong
National	Reserved	95.9 MHz	N/A	TS10008239	1.09	Tuggeranong
National	Reserved	103.1 MHz	N/A	TS10008243	1.10	Tuggeranong
Commercial	Licensed	1053 kHz	SL4096	TS4096001	1.11	Canberra
Commercial	Licensed	1206 kHz	SL4097	TS4097001	1.12	Canberra
Commercial	Licensed	104.7 MHz	SL1066	TS1066901	1.13	Canberra
	Proposed	100.7 MHz	SL1066	TS10008242	1.14	Tuggeranong
Commercial	Licensed	106.3 MHz	SL1060	TS1060901	1.15	Canberra
	Proposed	107.1 MHz	SL1060	TS10008244	1.16	Tuggeranong
Community	Licensed	1008 kHz	SL4226	TS4226001	1.17	Canberra
	Alternative	98.3 MHz	SL4226	TS10008251	1.18	Canberra
	Proposed	95.1 MHz	SL4226	TS10008238	1.19	Tuggeranong
Community	Licensed	1125 kHz	SL5292	TS5292001	1.20	Canberra
Community	Licensed	103.9 MHz	SL3518	TS3518001	1.21	Canberra
	Proposed	99.9 MHz	SL3518	TS10008241	1.22	Tuggeranong
Community	Available	92.7 MHz	SL1150190	TS10008276	1.23	Canberra
	Proposed	90.3 MHz	SL1150190	TS10008235	1.24	Tuggeranong
Community	Available	91.1 MHz	SL1150192	TS10008252	1.25	Canberra
Community	Available	91.9 MHz	SL1150191	TS10008253	1.26	Canberra
Open Narrowcasting	Available	1008 kHz	N/A	TS10008352	1.27	Canberra
Open Narrowcasting	Available	88.7 MHz	N/A	TS10008237	1.28	Tuggeranong
Open Narrowcasting	Available	97.5 MHz	N/A	TS10008318	1.29	Queanbeyan
Open Narrowcasting	Available	107.9 MHz	N/A	TS10008261	1.30	Yass

## SCHEDULE TWO

### Licence Area Plan : Canberra Radio - Radio - June 1999

Licence Area : QUEANBEYAN RA1

Service Category	Status #	Frequency #	Service Licence No	Technical Specification No	Attach No	Area Served
Community	Available	96.7 MHz	SL1150158	TS10008285	2.02	Queanbeyan

	Available	107.7 MHz	SL1150158	TS10008348	2.03	Williamsdale
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### **SCHEDULE THREE**

#### **Licence Area Plan : Canberra Radio - Radio - June 1999**

##### **Licence Area : YASS RA1**

<b>Service Category</b>	<b>Status #</b>	<b>Frequency #</b>	<b>Service Licence No</b>	<b>Technical Specification No</b>	<b>Attach No</b>	<b>Area Served</b>
Community	Available	100.3 MHz	SL1150570	TS10009215	3.02	Yass

### **SCHEDULE FOUR**

#### **Licence Area Plan : Canberra Radio - Radio - June 1999**

##### **Licence Area : TUGGERANONG RA1**

<b>Service Category</b>	<b>Status #</b>	<b>Frequency #</b>	<b>Service Licence No</b>	<b>Technical Specification No</b>	<b>Attach No</b>	<b>Area Served</b>
Community	Available	89.5 MHz	SL1150646	TS10008236	4.02	Tuggeranong

# the information in the status column and the frequency column is provided as additional information to the licence area plan, and is accurate as at the date of publication.

#### **Status Column**

Licensed : service is already licensed  
 Available : new licence available for allocation  
 Proposed : transmitter for existing broadcasting service licence  
 Alternative : alternative channel proposed for licensed service  
 Reserved : capacity reserved for an additional national service in accordance with Ministerial notification

#### **Frequency Column**

- The frequency shown is the centre frequency of the channel.

**LICENCE AREA – CANBERRA RA1**

FOR COMMERCIAL RADIO SERVICE LICENCE NOS: SL1060, SL1066, SL4096, SL4097

FOR COMMUNITY RADIO SERVICE LICENCE NOS: SL1150190, SL3518, SL4226, SL5292, SL1150191, SL1150192

The licence area, in terms of areas defined by the Australian Bureau of Statistics at the Census of 6 August 1996, is:

Area Description		
Canberra	NSW CD 1170110	NSW CD 1170405
	NSW CD 1170111	NSW CD 1170406
Yarrowlumla (A) - Pt B	NSW CD 1170112	NSW CD 1170407
ACT CD 8023401	NSW CD 1170201	NSW CD 1170408
ACT CD 8024101	NSW CD 1170202	NSW CD 1170409
ACT CD 8024103	NSW CD 1170203	NSW CD 1170410
NSW CD 1152301	NSW CD 1170204	NSW CD 1170411
NSW CD 1152302	NSW CD 1170205	NSW CD 1170412
NSW CD 1152303	NSW CD 1170206	NSW CD 1170502
NSW CD 1152304	NSW CD 1170207	NSW CD 1170503
NSW CD 1152305	NSW CD 1170208	NSW CD 1170504
NSW CD 1152306	NSW CD 1170209	NSW CD 1170505
NSW CD 1152307	NSW CD 1170210	NSW CD 1170506
NSW CD 1152308	NSW CD 1170211	NSW CD 1170507
NSW CD 1152309	NSW CD 1170212	NSW CD 1170508
NSW CD 1152310	NSW CD 1170301	NSW CD 1170509
NSW CD 1152311	NSW CD 1170302	NSW CD 1170510
NSW CD 1152312	NSW CD 1170303	NSW CD 1170512
NSW CD 1152313	NSW CD 1170304	NSW CD 1170513
NSW CD 1170101	NSW CD 1170305	NSW CD 1170514
NSW CD 1170102	NSW CD 1170306	NSW CD 1170515
NSW CD 1170103	NSW CD 1170307	NSW CD 1170516
NSW CD 1170104	NSW CD 1170308	NSW CD 1172001
NSW CD 1170105	NSW CD 1170309	NSW CD 1172002
NSW CD 1170106	NSW CD 1170310	NSW CD 1172003
NSW CD 1170107	NSW CD 1170401	NSW CD 1172004
NSW CD 1170108	NSW CD 1170402	NSW CD 1172006
NSW CD 1170109	NSW CD 1170403	NSW CD 1172007
	NSW CD 1170404	

Note:

Standard terminology used by the Australian Bureau of Statistics

- (C) = City  
 (CD) = Collection District  
 (A) = NSW Local Government Area

**LICENCE AREA PLAN : Canberra - Radio - June 1999**

Category : National

General Area Served : Canberra (ACT)

Service Licence Number : Not applicable

**TECHNICAL SPECIFICATION - AM Radio**

Specification Number : TS4001001

**Transmitter Site :-**

Nominal location : Gungahlin BARTON HIGHWAY

Australian Map Grid :	Zone	Easting	Northing
Reference	55	693179	6100570

Site Tolerance : Refer to Technical Planning Guidelines

**Emission :-**

Frequency Band & Mode MF-AM

Carrier Frequency : 666 kHz

**Output Radiation Pattern :-**

Bearing or Sector (Clockwise direction)	Elevation	Maximum CMF
At all angles of azimuth	0	880 V



**LICENCE AREA PLAN : Canberra - Radio - June 1999**

Category : National

General Area Served : Canberra (ACT)

Service Licence Number : Not applicable

**TECHNICAL SPECIFICATION - AM Radio**

Specification Number : TS4002001

**Transmitter Site :-**

Nominal location : Gungahlin BARTON HIGHWAY

Australian Map Grid :	Zone	Easting	Northing
Reference	55	693179	6100570

Site Tolerance : Refer to Technical Planning Guidelines

**Emission :-**

Frequency Band & Mode MF-AM

Carrier Frequency : 846 kHz

**Output Radiation Pattern :-**

Bearing or Sector (Clockwise direction)	Elevation	Maximum CMF
At all angles of azimuth	0	1.25 kV

**LICENCE AREA PLAN : Canberra - Radio - June 1999**

Category : National

General Area Served : Canberra (ACT)

Service Licence Number : Not applicable

**TECHNICAL SPECIFICATION - AM Radio**

Specification Number : TS2213001

**Transmitter Site :-**

Nominal location : Gungahlin BARTON HIGHWAY

Australian Map Grid :	Zone	Easting	Northing
Reference	55	693179	6100570

Site Tolerance : Refer to Technical Planning Guidelines

**Emission :-**

Frequency Band & Mode MF-AM

Carrier Frequency : 1440 kHz

**Output Radiation Pattern :-**

Bearing or Sector (Clockwise direction)	Elevation	Maximum CMF
At all angles of azimuth	0	440 V

**LICENCE AREA PLAN : Canberra - Radio - June 1999**

Category : National

General Area Served : Canberra (ACT)

Service Licence Number : Not applicable

**TECHNICAL SPECIFICATION - FM Radio**

Specification Number : TS3999601

**Transmitter Site :-**

Nominal location : Telecom Tower BLACK MOUNTAIN

Australian Map Grid : Zone Easting Northing  
Reference 55 690683 6094201

Site Tolerance : Refer to Technical Planning Guidelines

**Emission :-**

Frequency Band & Mode VHF-FM

Carrier Frequency : 101.5 MHz

Polarisation Mixed

Maximum antenna height 147 m

**Output Radiation Pattern :-**

Bearing or Sector (Clockwise direction)	Maximum ERP
At all angles of azimuth	80 kW

**LICENCE AREA PLAN : Canberra - Radio - June 1999**

Category : National

General Area Served : Canberra (ACT)

Service Licence Number : Not applicable

**TECHNICAL SPECIFICATION - FM Radio**

Specification Number : TS3689601

**Transmitter Site :-**

Nominal location : Telecom Tower BLACK MOUNTAIN

Australian Map Grid : Zone Easting Northing  
Reference 55 690683 6094201

Site Tolerance : Refer to Technical Planning Guidelines

**Emission :-**

Frequency Band & Mode VHF-FM

Carrier Frequency : 102.3 MHz

Polarisation Mixed

Maximum antenna height 147 m

**Output Radiation Pattern :-**

Bearing or Sector (Clockwise direction)	Maximum ERP
At all angles of azimuth	80 kW

**LICENCE AREA PLAN : Canberra - Radio - June 1999**

Category : National

General Area Served : Canberra (ACT)

Service Licence Number : Not applicable

**TECHNICAL SPECIFICATION - FM Radio**

Specification Number : TS6880001

**Transmitter Site :-**

Nominal location : Telecom Tower BLACK MOUNTAIN

Australian Map Grid : Zone Easting Northing  
Reference 55 690683 6094201

Site Tolerance : Refer to Technical Planning Guidelines

**Emission :-**

Frequency Band & Mode VHF-FM

Carrier Frequency : 105.5 MHz

Polarisation Mixed

Maximum antenna height 147 m

**Output Radiation Pattern :-**

Bearing or Sector (Clockwise direction)	Maximum ERP
At all angles of azimuth	80 kW

**LICENCE AREA PLAN : Canberra - Radio - June 1999**

Category : National

General Area Served : Tuggeranong (ACT)

Service Licence Number : Not applicable

**TECHNICAL SPECIFICATION - FM Radio**

Specification Number : TS10008240

**Transmitter Site :-**

Nominal location : TUGGERANONG HILL

Australian Map Grid : Zone Easting Northing  
Reference 55 690631 6074489

Site Tolerance : Refer to Technical Planning Guidelines

**Emission :-**

Frequency Band & Mode VHF-FM

Carrier Frequency : 99.1 MHz

Polarisation Mixed

Maximum antenna height 20 m

**Output Radiation Pattern :-**

Bearing or Sector (Clockwise direction)	Maximum ERP
At all angles of azimuth	100 W

**Special Conditions :-**

Any transmission in accordance with this technical specification is planned on the basis that it will be protected to a minimum median field strength level of 66 dBuV/m against interference from other broadcasting services.

**LICENCE AREA PLAN : Canberra - Radio - June 1999**

Category : National

General Area Served : Tuggeranong (ACT)

Service Licence Number : Not applicable

**TECHNICAL SPECIFICATION - FM Radio**

Specification Number : TS10008239

**Transmitter Site :-**

Nominal location : TUGGERANONG HILL

Australian Map Grid : Zone Easting Northing  
Reference 55 690631 6074489

Site Tolerance : Refer to Technical Planning Guidelines

**Emission :-**

Frequency Band & Mode VHF-FM

Carrier Frequency : 95.9 MHz

Polarisation Mixed

Maximum antenna height 20 m

**Output Radiation Pattern :-**

Bearing or Sector (Clockwise direction)	Maximum ERP
At all angles of azimuth	100 W

**Special Conditions :-**

Any transmission in accordance with this technical specification is planned on the basis that it will be protected to a minimum median field strength level of 66 dBuV/m against interference from other broadcasting services.

**LICENCE AREA PLAN : Canberra - Radio - June 1999**

Category : National

General Area Served : Tuggeranong (ACT)

Service Licence Number : Not applicable

**TECHNICAL SPECIFICATION - FM Radio**

Specification Number : TS10008243

**Transmitter Site :-**

Nominal location : TUGGERANONG HILL

Australian Map Grid : Zone Easting Northing  
Reference 55 690631 6074489

Site Tolerance : Refer to Technical Planning Guidelines

**Emission :-**

Frequency Band & Mode VHF-FM

Carrier Frequency : 103.1 MHz

Polarisation Mixed

Maximum antenna height 20 m

**Output Radiation Pattern :-**

Bearing or Sector (Clockwise direction)	Maximum ERP
At all angles of azimuth	200 W

**Special Conditions :-**

Any transmission in accordance with this technical specification is planned on the basis that it will be protected to a minimum median field strength level of 66 dBuV/m against interference from other broadcasting services.



**LICENCE AREA PLAN : Canberra - Radio - June 1999**

Category : Commercial

General Area Served : Canberra (ACT)

Service Licence Number : SL4096

**TECHNICAL SPECIFICATION - AM Radio**

Specification Number : TS4096001

**Transmitter Site :-**

Nominal location : MITCHELL

Australian Map Grid : Zone Easting Northing  
Reference 55 695502 6100199

Site Tolerance : Refer to Technical Planning Guidelines

**Emission :-**

Frequency Band & Mode MF-AM

Carrier Frequency : 1053 kHz

**Output Radiation Pattern :-**

Bearing or Sector (Clockwise direction)	Elevation	Maximum CMF
0°T - 2°T	0	965 V
2°T - 36°T	0	480 V
24°T - 24°T	0	150 V
27°T - 27°T	0	150 V
36°T - 110°T	0	500 V
64°T - 64°T	0	150 V
108°T - 108°T	0	300 V
110°T - 144°T	0	480 V
144°T - 360°T	0	965 V
263°T - 263°T	0	650 V
279°T - 279°T	0	750 V
299°T - 299°T	0	950 V
342°T - 342°T	0	900 V
344°T - 344°T	0	900 V
345°T - 345°T	0	850 V

**LICENCE AREA PLAN : Canberra - Radio - June 1999**

Category : Commercial

General Area Served : Canberra (ACT)

Service Licence Number : SL4097

**TECHNICAL SPECIFICATION - AM Radio**

Specification Number : TS4097001

**Transmitter Site :-**

Nominal location : Gungahlin BARTON HIGHWAY

Australian Map Grid : Zone Easting Northing  
Reference 55 693179 6100570

Site Tolerance : Refer to Technical Planning Guidelines

**Emission :-**

Frequency Band & Mode MF-AM

Carrier Frequency : 1206 kHz

**Output Radiation Pattern :-**

Bearing or Sector (Clockwise direction)	Elevation	Maximum CMF
0°T - 10°T	0	908 V
10°T - 43°T	0	454 V
30°T - 30°T	0	90 V
43°T - 113°T	0	498 V
130°T - 130°T	0	400 V
224°T - 292°T	0	454 V
292°T - 360°T	0	908 V

**Special Conditions :-**

1. The facility will operate as a single mast service with a CMF not to exceed 700 V for all angles of azimuth, from one hour after local sunrise, to one hour before local sunset as defined at the transmitter site on the 15th day of each month (day-night switching).
2. The licensee should operate the transmission facility according to the ABA's policy on implementation of Day/Night Switching Operation.

**LICENCE AREA PLAN : Canberra - Radio - June 1999**

Category : Commercial

General Area Served : Canberra (ACT)

Service Licence Number : SL1066

**TECHNICAL SPECIFICATION - FM Radio**

Specification Number : TS1066901

**Transmitter Site :-**

Nominal location : Telecom Tower BLACK MOUNTAIN

Australian Map Grid : Zone Easting Northing  
Reference 55 690683 6094201

Site Tolerance : Refer to Technical Planning Guidelines

**Emission :-**

Frequency Band & Mode VHF-FM

Carrier Frequency : 104.7 MHz  
Polarisation Mixed

Maximum antenna height 177 m

**Output Radiation Pattern :-**

Bearing or Sector (Clockwise direction)	Maximum ERP
At all angles of azimuth	20 kW

**LICENCE AREA PLAN : Canberra - Radio - June 1999**

Category : Commercial

General Area Served : Tuggeranong (ACT)

Service Licence Number : SL1066

**TECHNICAL SPECIFICATION - FM Radio**

Specification Number : TS10008242

**Transmitter Site :-**

Nominal location : TUGGERANONG HILL

Australian Map Grid : Zone Easting Northing  
Reference 55 690631 6074489

Site Tolerance : Refer to Technical Planning Guidelines

**Emission :-**

Frequency Band & Mode VHF-FM

Carrier Frequency : 100.7 MHz

Polarisation Mixed

Maximum antenna height 20 m

**Output Radiation Pattern :-**

Bearing or Sector (Clockwise direction)	Maximum ERP
0°T - 120°T	100 W
120°T - 250°T	200 W
250°T - 360°T	100 W

**Special Conditions :-**

Any transmission in accordance with this technical specification is planned on the basis that it will be protected to a minimum median field strength level of 66 dBuV/m against interference from other broadcasting services.

**LICENCE AREA PLAN : Canberra - Radio - June 1999**

Category : Commercial

General Area Served : Canberra (ACT)

Service Licence Number : SL1060

**TECHNICAL SPECIFICATION - FM Radio**

Specification Number : TS1060901

**Transmitter Site :-**

Nominal location : Telecom Tower BLACK MOUNTAIN

Australian Map Grid : Zone Easting Northing  
Reference 55 690683 6094201

Site Tolerance : Refer to Technical Planning Guidelines

**Emission :-**

Frequency Band & Mode VHF-FM

Carrier Frequency : 106.3 MHz

Polarisation Mixed

Maximum antenna height 177 m

**Output Radiation Pattern :-**

Bearing or Sector (Clockwise direction)	Maximum ERP
At all angles of azimuth	20 kW

**LICENCE AREA PLAN : Canberra - Radio - June 1999**

Category : Commercial

General Area Served : Tuggeranong (ACT)

Service Licence Number : SL1060

**TECHNICAL SPECIFICATION - FM Radio**

Specification Number : TS10008244

**Transmitter Site :-**

Nominal location : TUGGERANONG HILL

Australian Map Grid : Zone Easting Northing  
Reference 55 690631 6074489

Site Tolerance : Refer to Technical Planning Guidelines

**Emission :-**

Frequency Band & Mode VHF-FM

Carrier Frequency : 107.1 MHz

Polarisation Mixed

Maximum antenna height 20 m

**Output Radiation Pattern :-**

Bearing or Sector (Clockwise direction)	Maximum ERP
At all angles of azimuth	100 W

**Special Conditions :-**

Any transmission in accordance with this technical specification is planned on the basis that it will be protected to a minimum median field strength level of 66 dBuV/m against interference from other broadcasting services.

**LICENCE AREA PLAN : Canberra - Radio - June 1999**

Category : Community

General Area Served : Canberra (ACT)

Service Licence Number : SL4226

**TECHNICAL SPECIFICATION - AM Radio**

Specification Number : TS4226001

**Transmitter Site :-**

Nominal location : KALEEN

Australian Map Grid : Zone Easting Northing  
Reference 55 692601 6100394

Site Tolerance : Refer to Technical Planning Guidelines

**Emission :-**

Frequency Band & Mode MF-AM

Carrier Frequency : 1008 kHz

**Output Radiation Pattern :-**

Bearing or Sector (Clockwise direction)	Elevation	Maximum CMF
At all angles of azimuth	0	171 V

**Notes :-**

Transmission in accordance with this technical specification may only continue for 28 days after the commencement of full-time transmission on 98.3 MHz, in accordance with TS10008251 at attachment 1.18 in this LAP.

**LICENCE AREA PLAN : Canberra - Radio - June 1999**

Category : Community

General Area Served : Canberra (ACT)

Service Licence Number : SL4226

**TECHNICAL SPECIFICATION - FM Radio**

Specification Number : TS10008251

**Transmitter Site :-**

Nominal location : Telecom Tower BLACK MOUNTAIN

Australian Map Grid : Zone Easting Northing  
Reference 55 690683 6094201

Site Tolerance : Refer to Technical Planning Guidelines

**Emission :-**

Frequency Band & Mode VHF-FM

Carrier Frequency : 98.3 MHz

Polarisation Mixed

Maximum antenna height 147 m

**Output Radiation Pattern :-**

Bearing or Sector (Clockwise direction)	Maximum ERP
At all angles of azimuth	20 kW

**Notes :-**

Full-time transmission in accordance with this technical specification must commence within 12 months of the date of publication of the gazette notice (as required by section 35 of the Broadcasting Services Act 1992) of the final Canberra radio LAP. For the purposes of this note 'transmission' does not include test transmissions.



**LICENCE AREA PLAN : Canberra - Radio - June 1999**

Category : Community

General Area Served : Tuggeranong (ACT)

Service Licence Number : SL4226

**TECHNICAL SPECIFICATION - FM Radio**

Specification Number : TS10008238

**Transmitter Site :-**

Nominal location : TUGGERANONG HILL

Australian Map Grid : Zone Easting Northing  
Reference 55 690631 6074489

Site Tolerance : Refer to Technical Planning Guidelines

**Emission :-**

Frequency Band & Mode VHF-FM

Carrier Frequency : 95.1 MHz

Polarisation Mixed

Maximum antenna height 20 m

**Output Radiation Pattern :-**

Bearing or Sector (Clockwise direction)	Maximum ERP
At all angles of azimuth	100 W

**Special Conditions :-**

Any transmission in accordance with this technical specification is planned on the basis that it will be protected to a minimum median field strength level of 66 dBuV/m against interference from other broadcasting services.

**LICENCE AREA PLAN : Canberra - Radio - June 1999**

Category : Community

General Area Served : Canberra (ACT)

Service Licence Number : SL5292

**TECHNICAL SPECIFICATION - AM Radio**

Specification Number : TS5292001

**Transmitter Site :-**

Nominal location : GUNGAHLIN

Australian Map Grid : Zone Easting Northing  
Reference 55 692657 6100859

Site Tolerance : Refer to Technical Planning Guidelines

**Emission :-**

Frequency Band & Mode MF-AM

Carrier Frequency : 1125 kHz

**Output Radiation Pattern :-**

Bearing or Sector (Clockwise direction)	Elevation	Maximum CMF
0°T - 88°T	0	591 V
25°T - 25°T	0	530 V
88°T - 214°T	0	590 V
214°T - 322°T	0	300 V
234°T - 234°T	0	440 V
268°T - 268°T	0	95 V
322°T - 360°T	0	591 V

**LICENCE AREA PLAN : Canberra - Radio - June 1999**

Category : Community

General Area Served : Canberra (ACT)

Service Licence Number : SL3518

**TECHNICAL SPECIFICATION - FM Radio**

Specification Number : TS3518001

**Transmitter Site :-**

Nominal location : Telecom Tower BLACK MOUNTAIN

Australian Map Grid : Zone Easting Northing  
Reference 55 690683 6094201

Site Tolerance : Refer to Technical Planning Guidelines

**Emission :-**

Frequency Band & Mode VHF-FM

Carrier Frequency : 103.9 MHz

Polarisation Mixed

Maximum antenna height 147 m

**Output Radiation Pattern :-**

Bearing or Sector (Clockwise direction)	Maximum ERP
At all angles of azimuth	20 kW

**LICENCE AREA PLAN : Canberra - Radio - June 1999**

Category : Community

General Area Served : Tuggeranong (ACT)

Service Licence Number : SL3518

**TECHNICAL SPECIFICATION - FM Radio**

Specification Number : TS10008241

**Transmitter Site :-**

Nominal location : TUGGERANONG HILL

Australian Map Grid : Zone Easting Northing  
Reference 55 690631 6074489

Site Tolerance : Refer to Technical Planning Guidelines

**Emission :-**

Frequency Band & Mode VHF-FM

Carrier Frequency : 99.9 MHz

Polarisation Mixed

Maximum antenna height 20 m

**Output Radiation Pattern :-**

Bearing or Sector (Clockwise direction)	Maximum ERP
At all angles of azimuth	100 W

**Special Conditions :-**

Any transmission in accordance with this technical specification is planned on the basis that it will be protected to a minimum median field strength level of 66 dBuV/m against interference from other broadcasting services.

**LICENCE AREA PLAN : Canberra - Radio - June 1999**

Category : Community

General Area Served : Canberra (ACT)

Service Licence Number : SL1150190

**TECHNICAL SPECIFICATION - FM Radio**

Specification Number : TS10008276

**Transmitter Site :-**

Nominal location : Telecom Tower BLACK MOUNTAIN

Australian Map Grid : Zone Easting Northing  
Reference 55 690683 6094201

Site Tolerance : Refer to Technical Planning Guidelines

**Emission :-**

Frequency Band & Mode VHF-FM

Carrier Frequency : 92.7 MHz

Polarisation Mixed

Maximum antenna height 147 m

**Output Radiation Pattern :-**

Bearing or Sector (Clockwise direction)	Maximum ERP
At all angles of azimuth	20 kW

**Special Conditions :-**

Minimum Level of Service Requirements, as detailed in the Technical Planning Guidelines clause 38, do not apply to this service.

**LICENCE AREA PLAN : Canberra - Radio - June 1999**

Category : Community

General Area Served : Tuggeranong (ACT)

Service Licence Number : SL1150190

**TECHNICAL SPECIFICATION - FM Radio**

Specification Number : TS10008235

**Transmitter Site :-**

Nominal location : TUGGERANONG HILL

Australian Map Grid : Zone Easting Northing  
Reference 55 690631 6074489

Site Tolerance : Refer to Technical Planning Guidelines

**Emission :-**

Frequency Band & Mode VHF-FM

Carrier Frequency : 90.3 MHz

Polarisation Mixed

Maximum antenna height 20 m

**Output Radiation Pattern :-**

Bearing or Sector (Clockwise direction)	Maximum ERP
At all angles of azimuth	100 W

**Special Conditions :-**

Any transmission in accordance with this technical specification is planned on the basis that it will be protected to a minimum median field strength level of 66 dBuV/m against interference from other broadcasting services.

**LICENCE AREA PLAN : Canberra - Radio - June 1999**

Category : Community

General Area Served : Canberra (ACT)

Service Licence Number : SL1150192

**TECHNICAL SPECIFICATION - FM Radio**

Specification Number : TS10008252

**Transmitter Site :-**

Nominal location : Telecom Tower BLACK MOUNTAIN

Australian Map Grid : Zone Easting Northing  
Reference 55 690683 6094201

Site Tolerance : Refer to Technical Planning Guidelines

**Emission :-**

Frequency Band & Mode VHF-FM

Carrier Frequency : 91.1 MHz

Polarisation Mixed

Maximum antenna height 147 m

**Output Radiation Pattern :-**

Bearing or Sector (Clockwise direction)	Maximum ERP
At all angles of azimuth	20 kW

**Special Conditions :-**

Minimum Level of Service Requirements, as detailed in the Technical Planning Guidelines clause 38, do not apply to this specification.

**LICENCE AREA PLAN : Canberra - Radio - June 1999**

Category : Community

General Area Served : Canberra (ACT)

Service Licence Number : SL1150191

**TECHNICAL SPECIFICATION - FM Radio**

Specification Number : TS10008253

**Transmitter Site :-**

Nominal location : Telecom Tower BLACK MOUNTAIN

Australian Map Grid : Zone Easting Northing  
Reference 55 690683 6094201

Site Tolerance : Refer to Technical Planning Guidelines

**Emission :-**

Frequency Band & Mode VHF-FM

Carrier Frequency : 91.9 MHz

Polarisation Mixed

Maximum antenna height 147 m

**Output Radiation Pattern :-**

Bearing or Sector (Clockwise direction)	Maximum ERP
At all angles of azimuth	20 kW

**Special Conditions :-**

Minimum Level of Service Requirements, as detailed in the Technical Planning Guidelines clause 38, do not apply to this specification.



**LICENCE AREA PLAN : Canberra - Radio - June 1999**

Category : Open Narrowcasting

General Area Served : Canberra (ACT)

Service Licence Number : Not applicable

**TECHNICAL SPECIFICATION - AM Radio**

Specification Number : TS10008352

**Transmitter Site :-**

Nominal location : KALEEN

Australian Map Grid :	Zone	Easting	Northing
Reference	55	692601	6100394

Site Tolerance : Refer to Technical Planning Guidelines

**Emission :-**

Frequency Band &amp; Mode MF-AM

Carrier Frequency : 1008 kHz

**Output Radiation Pattern :-**

Bearing or Sector (Clockwise direction)	Elevation	Maximum CMF
At all angles of azimuth	0	171 V

**Notes :-**

Full time transmission in accordance with this technical specification may only commence after transmission on 1008 kHz, in accordance with TS4226001 in this LAP ceases.

**Special Conditions :-**

The 'coverage radius' of this transmission is 11 kilometres measured from a point with the following AMG co-ordinates: Zone: 55; Easting: 592601; Northing: 6100394. This point is the same as the nominal transmitter site.

**LICENCE AREA PLAN : Canberra - Radio - June 1999**

Category : Open Narrowcasting

General Area Served : Tuggeranong (ACT)

Service Licence Number : Not applicable

**TECHNICAL SPECIFICATION - FM Radio**

Specification Number : TS10008237

**Transmitter Site :-**

Nominal location : TUGGERANONG HILL

Australian Map Grid : Reference	Zone 55	Easting 690631	Northing 6074489
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Site Tolerance : Refer to Technical Planning Guidelines

**Emission :-**

Frequency Band &amp; Mode VHF-FM

Carrier Frequency : 88.7 MHz

Polarisation Mixed

Maximum antenna height 20 m

**Output Radiation Pattern :-**

Bearing or Sector (Clockwise direction)	Maximum ERP
At all angles of azimuth	100 W

**Special Conditions :-**

Any transmission in accordance with this technical specification is planned on the basis that it will be protected to a minimum median field strength level of 66 dBuV/m against interference from other broadcasting services.

The 'coverage radius' of this transmission is 8 kilometres measured from a point with the following AMG co-ordinates: Zone: 55; Easting: 690631; Northing: 6074489. This point is the same as the nominal transmitter site.

**LICENCE AREA PLAN : Canberra - Radio - June 1999**

Category : Open Narrowcasting

General Area Served : Queanbeyan (NSW)

Service Licence Number : Not applicable

**TECHNICAL SPECIFICATION - FM Radio**

Specification Number : TS10008318

**Transmitter Site :-**Nominal location : Community Broadcast Site Mt Jerrabomberra  
QUEANBEYAN

Australian Map Grid :	Zone	Easting	Northing
Reference	55	700900	6082900

Site Tolerance : Refer to Technical Planning Guidelines

**Emission :-**

Frequency Band &amp; Mode VHF-FM

Carrier Frequency : 97.5 MHz

Polarisation Mixed

Maximum antenna height 10 m

**Output Radiation Pattern :-**

Bearing or Sector (Clockwise direction)	Maximum ERP
At all angles of azimuth	500 W

**Special Conditions :-**

Any transmission in accordance with this technical specification is planned on the basis that it will be protected to a minimum median field strength level of 66dBuV/m against interference from other broadcasting services.

The 'coverage radius' of this transmission is 10 kilometres measured from a point with the following AMG co-ordinates: Zone: 55; Easting: 700900; Northing: 6082900. This point is the same as the nominal transmitter site.

**LICENCE AREA PLAN : Canberra - Radio - June 1999**

Category : Open Narrowcasting

General Area Served : Yass (NSW)

Service Licence Number : Not applicable

**TECHNICAL SPECIFICATION - FM Radio**

Specification Number : TS10008261

**Transmitter Site :-**

Nominal location : MOUNT MANTON

Australian Map Grid :	Zone	Easting	Northing
Reference	55	680100	6141497

Site Tolerance : Refer to Technical Planning Guidelines

**Emission :-**

Frequency Band & Mode VHF-FM

Carrier Frequency : 107.9 MHz

Polarisation Mixed

Maximum antenna height 11 m

**Output Radiation Pattern :-**

Bearing or Sector (Clockwise direction)	Maximum ERP
At all angles of azimuth azimuth	100 W

**Special Conditions :-**

1. Any transmission in accordance with this technical specification is planned on the basis that it will be protected to a minimum median field strength level of 66 dBuV/m against interference from other broadcasting services.
2. The 'coverage radius' of this transmission is 8 kilometres measured from a point with the following AMG co-ordinates: Zone: 55; Easting: 680100; Northing: 6141497. This point is the same as the nominal transmitter site.

**LICENCE AREA – QUEANBEYAN RA1**

FOR COMMUNITY RADIO SERVICE LICENCE NO: SL1150158

The licence area, in terms of areas defined by the Australian Bureau of Statistics at the Census of 6 August 1996, is:

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Area Description

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Queanbeyan (C)  
NSW CD 1170612  
NSW CD 1170606  
ACT CD 8024001

Note:

Standard terminology used by the Australian Bureau of Statistics

(C) = City

(CD) = Collection District

**LICENCE AREA PLAN : Canberra - Radio - June 1999**

Category : Community

General Area Served : Queanbeyan (NSW)

Service Licence Number : SL1150158

**TECHNICAL SPECIFICATION - FM Radio**

Specification Number : TS10008285

**Transmitter Site :-**

Nominal location : Community Broadcast Site Mt Jerrabomberra  
QUEANBEYAN

Australian Map Grid :	Zone	Easting	Northing
Reference	55	700900	6082900

Site Tolerance : Refer to Technical Planning Guidelines

**Emission :-**

Frequency Band & Mode VHF-FM

Carrier Frequency : 96.7 MHz

Polarisation Mixed

Maximum antenna height 10 m

**Output Radiation Pattern :-**

Bearing or Sector (Clockwise direction)	Maximum ERP
At all angles of azimuth	500 W

**Special Conditions :-**

Any transmission in accordance with this technical specification is planned on the basis that it will be protected to a minimum median field strength level of 66dBuV/m against interference from other broadcasting services.

**LICENCE AREA PLAN : Canberra - Radio - June 1999**

Category : Community

General Area Served : Williamsdale (ACT)

Service Licence Number : SL1150158

**TECHNICAL SPECIFICATION - FM Radio**

Specification Number : TS10008348

**Transmitter Site :-**

Nominal location : Williamsdale

Australian Map Grid :	Zone	Easting	Northing
Reference	55	692960	6061930

Site Tolerance :

**Emission :-**

Frequency Band & Mode VHF-FM

Carrier Frequency : 107.7 MHz

Polarisation Mixed

Maximum antenna height 30 m

**Output Radiation Pattern :-**

Bearing or Sector (Clockwise direction)	Maximum ERP
At all angles of azimuth	100 W

**LICENCE AREA – YASS RA1**

FOR COMMUNITY RADIO SERVICE LICENCE NO: SL1150570

The licence area, in terms of areas defined by the Australian Bureau of Statistics at the Census of 6 August 1996, is:

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Area Description
NSW CD 1152307
NSW CD 1152306
NSW CD 1152312
NSW CD 1152305
NSW CD 1152302
NSW CD 1152304
NSW CD 1152303
NSW CD 1152308
NSW CD 1152313
NSW CD 1152301
NSW CD 1152310
NSW CD 1152309
NSW CD 1152205
NSW CD 1152207
NSW CD 1152101

Note:

Standard terminology used by the Australian Bureau of Statistics

(CD) = Collection District



**LICENCE AREA PLAN : Canberra - Radio - June 1999**

Category : Community

General Area Served : Yass (NSW)

Service Licence Number : SL1150570

**TECHNICAL SPECIFICATION - FM Radio**

Specification Number : TS10009215

**Transmitter Site :-**

Nominal location : MOUNT MANTON

Australian Map Grid : Zone Easting Northing  
Reference 55 680100 6141497

Site Tolerance : Refer to Technical Planning Guidelines

**Emission :-**

Frequency Band & Mode VHF-FM

Carrier Frequency : 100.3 MHz

Polarisation Mixed

Maximum antenna height 11 m

**Output Radiation Pattern :-**

Bearing or Sector (Clockwise direction)	Maximum ERP
At all angles of azimuth	2 kW

**Special Conditions :-**

1. Any transmission in accordance with this technical specification is planned on the basis that it will be protected to a minimum median field strength level of 66 dBuV/m against interference from other broadcasting services.

**LICENCE AREA – TUGGERANONG RA1**

FOR COMMUNITY RADIO SERVICE LICENCE NOS: SL1150646

The licence area, in terms of areas defined by the Australian Bureau of Statistics at the Census of 6 August 1996, is:

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Area Description

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Kambah  
Wanniassa  
Gordon  
Calwell  
Chisholm  
Monash  
Isabella Plains  
Theodore  
Richardson  
Gowrie  
Fadden  
Banks  
Bonython  
Conder  
Gilmore  
Oxley (ACT)  
Macarthur  
Greenway  
ACT CD 8024003  
ACT CD 8024002

Note:

Standard terminology used by the Australian Bureau of Statistics

(CD) = Collection District

**LICENCE AREA PLAN : Canberra - Radio - June 1999**

Category : Community

General Area Served : Tuggeranong (ACT)

Service Licence Number : SL1150646

**TECHNICAL SPECIFICATION - FM Radio**

Specification Number : TS10008236

**Transmitter Site :-**

Nominal location : TUGGERANONG HILL

Australian Map Grid : Zone Easting Northing  
Reference 55 690631 6074489

Site Tolerance : Refer to Technical Planning Guidelines

**Emission :-**

Frequency Band & Mode VHF-FM

Carrier Frequency : 89.5 MHz

Polarisation Mixed

Maximum antenna height 20 m

**Output Radiation Pattern :-**

Bearing or Sector (Clockwise direction)	Maximum ERP
At all angles of azimuth	100 W

**Special Conditions :-**

Any transmission in accordance with this technical specification is planned on the basis that it will be protected to a minimum median field strength level of 66 dBuV/m against interference from other broadcasting services.