



**Australian
Broadcasting
Authority**

VARIATION TO LICENCE AREA PLAN

Emerald Radio

**Australian Broadcasting Authority
Canberra
June 2004**

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VARIATION TO THE LICENCE AREA PLAN

EMERALD, QLD – RADIO SERVICES

The Australian Broadcasting Authority hereby varies the licence area plan (LAP) for radio services in the Emerald area of Queensland, determined on 5 March 1998, under subsection 26(2) of the *Broadcasting Services Act 1992*. The Emerald LAP has been subsequently varied since 1998.

The LAP variation comprises a variation of the licence areas of the community radio broadcasting services designated by the service licence numbers SL10206 and SL1150804, the addition of technical specifications of services and the variation of technical specifications of services as set out below:

Category of Service	Service Licence No:	Technical Specification No:	Attachment No:	General Area Served by Transmitter	Status
Commercial	SL4176	TS10007818	1.2	Blair Athol	Vary
Commercial	SL4176	TS10007809	1.3	Clermont	Vary
Commercial	SL4176	TS10007724	1.6.1	Moranbah	Vary
Commercial	SL4176	TS10013606	1.38	Blackwater	Add
Commercial	SL4176	TS10013413	1.39	Middlemount	Add
Commercial	SL4176	TS7521001	1.43	Burton Gorge	Add
Commercial	SL10333	TS10007788	1.7	Blair Athol	Vary
Commercial	SL10333	TS10007790	1.8	Clermont	Vary
Commercial	SL10333	TS10007789	1.9	Dysart	Vary
Commercial	SL10333	TS10005126	1.10	Emerald	Vary
Commercial	SL10333	TS10007723	1.11	Moranbah	Vary
National	N/A	TS1345001	1.12	Blackwater	Vary
National	N/A	TS1346001	1.13	Capella	Vary
National	N/A	TS1249001	1.14	Clermont	Vary
National	N/A	TS2156001	1.16	Dysart	Vary
National	N/A	TS2157001	1.17	Dysart	Vary
National	N/A	TS1330001	1.18	Emerald	Vary
National	N/A	TS4040001	1.19	Emerald	Vary
National	N/A	TS10007829	1.20	Middlemount	Vary
National	N/A	TS10007830	1.21	Middlemount	Vary
National	N/A	TS2331001	1.22	Moranbah	Vary
National	N/A	TS5507002	1.23	Moranbah	Vary
National	N/A	TS1347001	1.24	Springsure	Vary
National	N/A	TS10010515	1.40	Emerald	Add
National	N/A	TS10008689	1.41	Emerald	Add
National	N/A	TS10013633	1.42	Emerald	Add

Open Narrowcasting	N/A	TS5685008	1.25	Blackwater	Vary
Open Narrowcasting	N/A	TS10007810	1.26	Clermont	Vary
Open Narrowcasting	N/A	TS10007949	1.27	Dysart	Vary
Open Narrowcasting	N/A	TS10007840	1.28	Emerald	Vary
Open Narrowcasting	N/A	TS10007997	1.29	Emerald	Vary
Open Narrowcasting	N/A	TS10007990	1.30	Middlemount	Vary
Open Narrowcasting	N/A	TS10007989	1.32	Saraji	Vary
Open Narrowcasting	N/A	TS10007950	1.33	Tieri	Vary
Community	SL1150060	TS10007585	2.2	Emerald	Vary
Community	SL1150804	TS10007947	3.2.1	Moranbah	Vary
Community	SL10206	TS10013224	5.2	Woorabinda	Add

The updated variation also comprises a change from 1996 to 2001 Census boundaries for Emerald RA2 at Attachment 2.1.1 and an extension of the Moranbah RA1 licence area as described at Attachment 3.1.1.

The variation also comprises an inclusion of the Woorabinda RA1 licence area, a change from 1996 to 2001 Census boundaries as described at Attachment 5.1.

(Varied by the Australian Broadcasting Authority on 17 June 2004)

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); N/A = Not Applicable, as the *Broadcasting Services Act 1992* only requires service licences for Commercial and Community services.
- the transmitter 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).
- the general area served by each transmitter (column seven).

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 a national or community service in accordance with Ministerial notification

Frequency Column

The frequency shown is the centre frequency of the channel.

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

For ease of reference, the schedules affected by this variation to the LAP have been updated to reflect the variation to this plan.

Schedules One, Two and Three of the Emerald LAP prior to this variation are reproduced below.

SCHEDULE ONE

Licence Area Plan: Emerald - Radio – September 2002

Licence Area: Emerald RA1

Service Category	Status	Frequency	Service Licence No	Technical Specification No	Attach No	Area Served
Commercial	Licensed	88.1 MHz	SL4176	TS10007818	1.2	Blair Athol
Commercial	Licensed	102.1 MHz	SL4176	TS10007809	1.3	Clermont
Commercial	Licensed	945 kHz	SL4176	TS10007819	1.4	Dysart
Commercial	Licensed	1143 kHz	SL4176	TS10007798	1.5	Emerald
Commercial	Licensed	1215 kHz	SL4176	TS4176002	1.6	Moranbah
Commercial	Alternative	90.5 MHz	SL4176	TS10007724	1.6.1	Moranbah
Commercial	Proposed	88.9 MHz	SL10333	TS10007788	1.7	Blair Athol
Commercial	Proposed	102.9 MHz	SL10333	TS10007790	1.8	Clermont
Commercial	Proposed	92.5 MHz	SL10333	TS10007789	1.9	Dysart
Commercial	Licensed	94.7 MHz	SL10333	TS10005126	1.10	Emerald
Commercial	Proposed	91.3 MHz	SL10333	TS10007723	1.11	Moranbah
National	Licensed	94.3 MHz	N/A	TS1345001	1.12	Blackwater
National	Licensed	107.3 MHz	N/A	TS1346001	1.13	Capella
National	Licensed	104.5 MHz	N/A	TS1249001	1.14	Clermont
National	Licensed	107.7 MHz	N/A	TS1329001	1.15	Clermont
National	Licensed	93.3 MHz	N/A	TS2156001	1.16	Dysart
National	Licensed	91.7 MHz	N/A	TS2157001	1.17	Dysart
National	Licensed	93.9 MHz	N/A	TS1330001	1.18	Emerald
National	Licensed	1548 kHz	N/A	TS4040001	1.19	Emerald
National	Licensed	107.7 MHz	N/A	TS10007829	1.20	Middlemount
National	Licensed	106.1 MHz	N/A	TS10007830	1.21	Middlemount
National	Licensed	106.5 MHz	N/A	TS2331001	1.22	Moranbah
National	Licensed	104.9 MHz	N/A	TS5507002	1.23	Moranbah
National	Licensed	100.9 MHz	N/A	TS1347001	1.24	Springsure
Open Narrowcasting	Licensed	97.5 MHz	N/A	TS5685008	1.25	Blackwater
Open Narrowcasting	Licensed	106.1 MHz	N/A	TS10007810	1.26	Clermont
Open Narrowcasting	Available	90.9 MHz	N/A	TS10007949	1.27	Dysart

Open Narrowcasting	Licensed	95.5 MHz	N/A	TS10007840	1.28	Emerald
Open Narrowcasting	Available	92.3 MHz	N/A	TS10007997	1.29	Emerald
Open Narrowcasting	Available	94.1 MHz	N/A	TS10007990	1.30	Middlemount
Open Narrowcasting	Available	92.1 MHz	N/A	TS10007989	1.32	Saraji
Open Narrowcasting	Available	92.1 MHz	N/A	TS10007950	1.33	Tieri
Open Narrowcasting	Available	97.5 MHz	N/A	TS10012318	1.34	Blair Athol
Open Narrowcasting	Available	98.3 MHz	N/A	TS10012319	1.35	Blair Athol
Open Narrowcasting	Available	99.9 MHz	N/A	TS10012320	1.36	Blair Athol
Open Narrowcasting	Available	100.7 MHz	N/A	TS10012321	1.37	Blair Athol

SCHEDULE TWO

Licence Area Plan : Emerald Radio – September 2002

Licence Area : EMERALD RA2

Service Category	Status	Channel/ Frequency	Service Licence No	Transmitter Specification No	Attach No	Area Served
Community	Licensed	96.3 MHz	SL1150060	TS10007585	2.2	Emerald

SCHEDULE THREE

Licence Area Plan: Emerald Radio – September 2002

Licence Area: MORANBAH RA1

Service Category	Status	Frequency	Service Licence No	Technical Specification No	Attach No	Area Served
Community	Available	96.9 MHz	SL1150804	TS10007947	3.2	Moranbah

The updated Schedules to the LAP affected by this variation are as follows:

SCHEDULE ONE

Licence Area Plan: Emerald Radio – June 2004

Licence Area: EMERALD RA1

Service Category	Status	Frequency	Service Licence No	Technical Specification No	Attach No	Area Served
Commercial	Licensed	88.1 MHz	SL4176	TS10007818	1.2	Blair Athol
Commercial	Licensed	102.1 MHz	SL4176	TS10007809	1.3	Clermont
Commercial	Licensed	945 kHz	SL4176	TS10007819	1.4	Dysart
Commercial	Licensed	1143 kHz	SL4176	TS10007798	1.5	Emerald
Commercial	Licensed	1215 kHz	SL4176	TS4176002	1.6	Moranbah
Commercial	Alternative	90.5 MHz	SL4176	TS10007724	1.6.1	Moranbah
Commercial	Proposed	90.3 MHz	SL4176	TS10013606	1.38	Blackwater
Commercial	Proposed	104.5 MHz	SL4176	TS10013413	1.39	Middlemount
Commercial	Licensed	92.1 MHz	SL4176	TS7521001	1.43	Burton Gorge
Commercial	Proposed	88.9 MHz	SL10333	TS10007788	1.7	Blair Athol
Commercial	Proposed	102.9 MHz	SL10333	TS10007790	1.8	Clermont
Commercial	Proposed	92.5 MHz	SL10333	TS10007789	1.9	Dysart
Commercial	Licensed	94.7 MHz	SL10333	TS10005126	1.10	Emerald
Commercial	Proposed	91.3 MHz	SL10333	TS10007723	1.11	Moranbah
National	Licensed	94.3 MHz	N/A	TS1345001	1.12	Blackwater
National	Licensed	107.3 MHz	N/A	TS1346001	1.13	Capella
National	Licensed	104.5 MHz	N/A	TS1249001	1.14	Clermont
National	Licensed	107.7 MHz	N/A	TS1329001	1.15	Clermont
National	Licensed	93.3 MHz	N/A	TS2156001	1.16	Dysart
National	Licensed	91.7 MHz	N/A	TS2157001	1.17	Dysart
National	Licensed	93.9 MHz	N/A	TS1330001	1.18	Emerald
National	Licensed	1548 kHz	N/A	TS4040001	1.19	Emerald
National	Licensed	107.7 MHz	N/A	TS10007829	1.20	Middlemount
National	Licensed	106.1 MHz	N/A	TS10007830	1.21	Middlemount
National	Licensed	106.5 MHz	N/A	TS2331001	1.22	Moranbah
National	Licensed	104.9 MHz	N/A	TS5507002	1.23	Moranbah
National	Licensed	100.9 MHz	N/A	TS1347001	1.24	Springsure
National	Proposed	90.7 MHz	N/A	TS10010515	1.40	Emerald
National	Proposed	89.1 MHz	N/A	TS10008689	1.41	Emerald
National	Proposed	97.1 MHz	N/A	TS10013633	1.42	Emerald
Open Narrowcasting	Licensed	97.5 MHz	N/A	TS5685008	1.25	Blackwater

Open Narrowcasting	Licensed	106.1 MHz	N/A	TS10007810	1.26	Clermont
Open Narrowcasting	Available	90.9 MHz	N/A	TS10007949	1.27	Dysart
Open Narrowcasting	Licensed	95.5 MHz	N/A	TS10007840	1.28	Emerald
Open Narrowcasting	Licensed	92.3 MHz	N/A	TS10007997	1.29	Emerald
Open Narrowcasting	Available	94.1 MHz	N/A	TS10007990	1.30	Middlemount
Open Narrowcasting	Available	92.1 MHz	N/A	TS10007989	1.32	Saraji
Open Narrowcasting	Available	92.1 MHz	N/A	TS10007950	1.33	Tieri
Open Narrowcasting	Available	97.5 MHz	N/A	TS10012318	1.34	Blair Athol
Open Narrowcasting	Available	98.3 MHz	N/A	TS10012319	1.35	Blair Athol
Open Narrowcasting	Available	99.9 MHz	N/A	TS10012320	1.36	Blair Athol
Open Narrowcasting	Available	100.7 MHz	N/A	TS10012321	1.37	Blair Athol

NOTE: All the changed technical specifications are in bold.

SCHEDULE TWO

Licence Area Plan : Emerald Radio – June 2004

Licence Area : EMERALD RA2

Service Category	Status	Frequency	Service Licence No	Transmitter Specification No	Attach No	Area Served
Community	Licensed	96.3 MHz	SL1150060	TS10007585	2.2	Emerald

SCHEDULE THREE

Licence Area Plan: Emerald Radio – June 2004

Licence Area: MORANBAH RA1

Service Category	Status	Frequency	Service Licence No	Technical Specification No	Attach No	Area Served
Community	Licensed	96.9 MHz	SL1150804	TS10013634	3.2.1	Moranbah

SCHEDULE FIVE

Licence Area Plan: Emerald Radio – June 2004

Licence Area: Woorabinda RA1

Service Category	Status	Frequency	Service Licence No	Technical Specification No	Attach No	Area Served
Community	Licensed	99.7 MHz	SL10206	TS10013224	5.2	Woorabinda

Attachment 1.2

LICENCE AREA PLAN : Emerald Radio June 2004

Category : Commercial
General Area Served : Blair Athol (QLD)
Service Licence Number : SL4176

TECHNICAL SPECIFICATION - FM Radio

Specification Number : TS10007818

Transmitter Site :-

Nominal location : Mine Water Tower BLAIR ATHOL MINE

Australian Map Grid :	Zone	Easting	Northing
Reference	55	555200	7490300

Site Tolerance : Refer to Technical Planning Guidelines

Emission :-

Frequency Band & Mode VHF-FM

Carrier Frequency : 88.1 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

Attachment 1.3

DRAFT LICENCE AREA PLAN: EMERALD – JUNE 2004

Category: Commercial
General Area Served: Clermont (QLD)
Service Licence Number: SL4176

TECHNICAL SPECIFICATION - FM Radio

Specification Number: TS10007790

Transmitter Site: -

Nominal location: High Level Reservoir, Jeffrey St
CLERMONT

Australian Map Grid: Zone Easting Northing
Reference 55 564280 7474040

Site Tolerance: Refer to Technical Planning Guidelines

Emission: -

Frequency Band & Mode VHF-FM
Carrier Frequency: 102.1 MHz
Polarisation Mixed
Maximum antenna height 33 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.

Attachment 1.6.1

LICENCE AREA PLAN : Emerald Radio June 2004

Category : Commercial
General Area Served : Moranbah (QLD)
Service Licence Number : SL4176

TECHNICAL SPECIFICATION - FM Radio

Specification Number : TS10007724

Transmitter Site :-

Nominal location : ABC NTL Site CARBOROUGH RANGE

Australian Map Grid : Reference	Zone 55	Easting 636065	Northing 7574611
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Site Tolerance : Refer to Technical Planning Guidelines

Emission :-

Frequency Band & Mode VHF-FM
Carrier Frequency : 90.5 MHz
Polarisation Mixed
Maximum antenna height 30 m

Output Radiation Pattern :-

Bearing or Sector (Clockwise direction)	Maximum ERP
At all angles of azimuth	5 kW

Attachment 1.7

LICENCE AREA PLAN : Emerald Radio June 2004

Category : Commercial
General Area Served : Blair Athol (QLD)
Service Licence Number : SL10333

TECHNICAL SPECIFICATION - FM Radio

Specification Number : TS10007788

Transmitter Site :-

Nominal location : Mine Water Tower BLAIR ATHOL MINE

Australian Map Grid :	Zone	Easting	Northing
Reference	55	555200	7490300

Site Tolerance : Refer to Technical Planning Guidelines

Emission :-

Frequency Band & Mode VHF-FM

Carrier Frequency : 88.9 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

Attachment 1.8

LICENCE AREA PLAN : Emerald Radio June 2004

Category : Commercial
General Area Served : Clermont (QLD)
Service Licence Number : SL10333

TECHNICAL SPECIFICATION - FM Radio

Specification Number : TS10007790

Transmitter Site :-

Nominal location : High Level Reservoir Jeffrey St
CLERMONT

Australian Map Grid : Zone Easting Northing
Reference 55 564280 7474040

Site Tolerance : Refer to Technical Planning Guidelines

Emission :-

Frequency Band & Mode VHF-FM
Carrier Frequency : 102.9 MHz
Polarisation Mixed
Maximum antenna height 33 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 and above against interference from other broadcasting services.

Attachment 1.9

LICENCE AREA PLAN : Emerald Radio June 2004

Category : Commercial
General Area Served : Dysart (QLD)
Service Licence Number : SL10333

TECHNICAL SPECIFICATION - FM Radio

Specification Number : TS10007789

Transmitter Site :-

Nominal location : Broadcast Site DENHAM RANGE
Australian Map Grid : Zone Easting Northing
Reference 55 635430 7502240
Site Tolerance : Refer to Technical Planning Guidelines

Emission :-

Frequency Band & Mode VHF-FM
Carrier Frequency : 92.5 MHz
Polarisation Mixed
Maximum antenna height 60 m

Output Radiation Pattern :-

Bearing or Sector (Clockwise direction)	Maximum ERP
At all angles of azimuth	160 W

Attachment 1.10

LICENCE AREA PLAN : Emerald Radio June 2004

Category : Commercial
General Area Served : Emerald (QLD)
Service Licence Number : SL10333

TECHNICAL SPECIFICATION - FM Radio

Specification Number : TS10005126

Transmitter Site :-

Nominal location : UHF TV Site EMERALD
Australian Map Grid : Zone Easting Northing
Reference 55 617350 7403180
Site Tolerance : Refer to Technical Planning Guidelines

Emission :-

Frequency Band & Mode VHF-FM
Carrier Frequency : 94.7 MHz
Polarisation Mixed
Maximum antenna height 35 m

Output Radiation Pattern :-

Bearing or Sector (Clockwise direction)	Maximum ERP
At all angles of azimuth	5 kW

Attachment 1.11

LICENCE AREA PLAN : Emerald Radio June 2004

Category : Commercial
General Area Served : Moranbah (QLD)
Service Licence Number : SL10333

TECHNICAL SPECIFICATION - FM Radio

Specification Number : TS10007723

Transmitter Site :-

Nominal location : ABC NTL Site CARBOROUGH RANGE

Australian Map Grid : Reference	Zone 55	Easting 636065	Northing 7574611
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Site Tolerance : Refer to Technical Planning Guidelines

Emission :-

Frequency Band & Mode VHF-FM

Carrier Frequency : 91.3 MHz

Polarisation Mixed

Maximum antenna height 30 m

Output Radiation Pattern :-

Bearing or Sector (Clockwise direction)	Maximum ERP
At all angles of azimuth	5 kW

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 and above against interference from other broadcasting services.

Attachment 1.12

LICENCE AREA PLAN : Emerald Radio June 2004

Category : National
General Area Served : Blackwater (QLD)
Service Licence Number : Not applicable

TECHNICAL SPECIFICATION - FM Radio

Specification Number : TS1345001

Transmitter Site :-

Nominal location : Telstra Site CUTLERS HILL
Australian Map Grid : Zone Easting Northing
Reference 55 707340 7391265
Site Tolerance : Refer to Technical Planning Guidelines

Emission :-

Frequency Band & Mode VHF-FM
Carrier Frequency : 94.3 MHz
Polarisation Mixed
Maximum antenna height 33 m

Output Radiation Pattern :-

Bearing or Sector (Clockwise direction)	Maximum ERP
At all angles of azimuth	1 kW

Attachment 1.13

LICENCE AREA PLAN : Emerald Radio June 2004

Category : National
General Area Served : Capella (QLD)
Service Licence Number : Not applicable

TECHNICAL SPECIFICATION - FM Radio

Specification Number : TS1346001

Transmitter Site :-

Nominal location : NTA Site CAPELLA

Australian Map Grid : Reference	Zone 55	Easting 606400	Northing 7442820
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Site Tolerance : Refer to Technical Planning Guidelines

Emission :-

Frequency Band & Mode : VHF-FM
Carrier Frequency : 107.3 MHz
Polarisation : Mixed
Maximum antenna height : 66 m

Output Radiation Pattern :-

Bearing or Sector (Clockwise direction)	Maximum ERP
At all angles of azimuth	50 W

Attachment 1.14

LICENCE AREA PLAN : Emerald Radio June 2004

Category : National
General Area Served : Clermont (QLD)
Service Licence Number : Not applicable

TECHNICAL SPECIFICATION - FM Radio

Specification Number : TS1249001

Transmitter Site :-

Nominal location : NTA Site Macdonald Flat Rd CLERMONT

Australian Map Grid : Reference	Zone 55	Easting 565970	Northing 7472070
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Site Tolerance : Refer to Technical Planning Guidelines

Emission :-

Frequency Band & Mode VHF-FM
Carrier Frequency : 104.5 MHz
Polarisation Mixed
Maximum antenna height 70 m

Output Radiation Pattern :-

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

Attachment 1.16

LICENCE AREA PLAN : Emerald Radio June 2004

Category : National
General Area Served : Dysart (QLD)
Service Licence Number : Not applicable

TECHNICAL SPECIFICATION - FM Radio

Specification Number : TS2156001

Transmitter Site :-

Nominal location : Broadcast Site DENHAM RANGE
Australian Map Grid : Zone Easting Northing
Reference 55 635430 7502240
Site Tolerance : Refer to Technical Planning Guidelines

Emission :-

Frequency Band & Mode VHF-FM
Carrier Frequency : 93.3 MHz
Polarisation Mixed
Maximum antenna height 70 m

Output Radiation Pattern :-

Bearing or Sector (Clockwise direction)	Maximum ERP
At all angles of azimuth	160 W

Attachment 1.17

LICENCE AREA PLAN : Emerald Radio June 2004

Category : National
General Area Served : Dysart (QLD)
Service Licence Number : Not applicable

TECHNICAL SPECIFICATION - FM Radio

Specification Number : TS2157001

Transmitter Site :-

Nominal location : Broadcast Site DENHAM RANGE
Australian Map Grid : Zone Easting Northing
Reference 55 635430 7502240
Site Tolerance : Refer to Technical Planning Guidelines

Emission :-

Frequency Band & Mode VHF-FM
Carrier Frequency : 91.7 MHz
Polarisation Mixed
Maximum antenna height 70 m

Output Radiation Pattern :-

Bearing or Sector (Clockwise direction)	Maximum ERP
At all angles of azimuth	160 W

Attachment 1.18

LICENCE AREA PLAN : Emerald Radio June 2004

Category : National
General Area Served : Emerald (QLD)
Service Licence Number : Not applicable

TECHNICAL SPECIFICATION - FM Radio

Specification Number : TS1330001

Transmitter Site :-

Nominal location : UHF TV Site EMERALD
Australian Map Grid : Zone Easting Northing
Reference 55 617350 7403180
Site Tolerance : Refer to Technical Planning Guidelines

Emission :-

Frequency Band & Mode VHF-FM
Carrier Frequency : 93.9 MHz
Polarisation Mixed
Maximum antenna height 86 m

Output Radiation Pattern :-

Bearing or Sector (Clockwise direction)	Maximum ERP
0°T - 225°T	1 kW
225°T - 325°T	4.5 kW
325°T - 360°T	1 kW

Attachment 1.19

LICENCE AREA PLAN : Emerald Radio June 2004

Category : National
General Area Served : Emerald (QLD)
Service Licence Number : Not applicable

TECHNICAL SPECIFICATION - AM Radio

Specification Number : TS4040001

Transmitter Site :-

Nominal location : 4QD Tower EMERALD
Australian Map Grid : Zone Easting Northing
Reference 55 617277 7404942
Site Tolerance : Refer to Technical Planning Guidelines

Emission :-

Frequency Band & Mode MF-AM
Carrier Frequency : 1548 kHz

Output Radiation Pattern :-

Bearing or Sector (Clockwise direction)	Elevation	Maximum CMF
At all angles of azimuth	0	2.79 kV

Attachment 1.20

LICENCE AREA PLAN : Emerald Radio June 2004

Category : National
General Area Served : Middlemount (QLD)
Service Licence Number : Not applicable

TECHNICAL SPECIFICATION - FM Radio

Specification Number : TS10007829

Transmitter Site :-

Nominal location : Telstra Radio Terminal MIDDLEMOUNT

Australian Map Grid :	Zone	Easting	Northing
Reference	55	672157	7475958

Site Tolerance : Refer to Technical Planning Guidelines

Emission :-

Frequency Band & Mode VHF-FM
Carrier Frequency : 107.7 MHz
Polarisation Mixed
Maximum antenna height 40 m

Output Radiation Pattern :-

Bearing or Sector (Clockwise direction)	Maximum ERP
At all angles of azimuth	50 W

Attachment 1.21

LICENCE AREA PLAN : Emerald Radio June 2004

Category : National
General Area Served : Middlemount (QLD)
Service Licence Number : Not applicable

TECHNICAL SPECIFICATION - FM Radio

Specification Number : TS10007830

Transmitter Site :-

Nominal location : Telstra Radio Terminal MIDDLEMOUNT

Australian Map Grid :	Zone	Easting	Northing
Reference	55	672157	7475958

Site Tolerance : Refer to Technical Planning Guidelines

Emission :-

Frequency Band & Mode VHF-FM
Carrier Frequency : 106.1 MHz
Polarisation Mixed
Maximum antenna height 40 m

Output Radiation Pattern :-

Bearing or Sector (Clockwise direction)	Maximum ERP
At all angles of azimuth	50 W

Attachment 1.22

LICENCE AREA PLAN : Emerald Radio June 2004

Category : National
General Area Served : Moranbah (QLD)
Service Licence Number : Not applicable

TECHNICAL SPECIFICATION - FM Radio

Specification Number : TS2331001

Transmitter Site :-

Nominal location : ABC NTL Site CARBOROUGH RANGE

Australian Map Grid :	Zone	Easting	Northing
Reference	55	636065	7574611

Site Tolerance : Refer to Technical Planning Guidelines

Emission :-

Frequency Band & Mode VHF-FM
Carrier Frequency : 106.5 MHz
Polarisation Mixed
Maximum antenna height 20 m

Output Radiation Pattern :-

Bearing or Sector (Clockwise direction)	Maximum ERP
At all angles of azimuth	10 kW

Attachment 1.23

LICENCE AREA PLAN : Emerald Radio June 2004

Category : National
General Area Served : Moranbah (QLD)
Service Licence Number : Not applicable

TECHNICAL SPECIFICATION - FM Radio

Specification Number : TS5507002

Transmitter Site :-

Nominal location : ABC NTL Site CARBOROUGH RANGE

Australian Map Grid :	Zone	Easting	Northing
Reference	55	636065	7574611

Site Tolerance : Refer to Technical Planning Guidelines

Emission :-

Frequency Band & Mode VHF-FM
Carrier Frequency : 104.9 MHz
Polarisation Mixed
Maximum antenna height 20 m

Output Radiation Pattern :-

Bearing or Sector (Clockwise direction)	Maximum ERP
At all angles of azimuth	10 kW

Attachment 1.24

LICENCE AREA PLAN : Emerald Radio June 2004

Category : National
General Area Served : Springsure (QLD)
Service Licence Number : Not applicable

TECHNICAL SPECIFICATION - FM Radio

Specification Number : TS1347001

Transmitter Site :-

Nominal location : Roddas Lookout 6km East of
SPRINGSURE

Australian Map Grid : Zone Easting Northing
Reference 55 616800 7329400

Site Tolerance : Refer to Technical Planning Guidelines

Emission :-

Frequency Band & Mode VHF-FM
Carrier Frequency : 100.9 MHz
Polarisation Mixed
Maximum antenna height 52 m

Output Radiation Pattern :-

Bearing or Sector (Clockwise direction)	Maximum ERP
At all angles of azimuth	1 kW

Attachment 1.25

LICENCE AREA PLAN : Emerald Radio June 2004

Category : Open Narrowcasting
General Area Served : Blackwater (QLD)
Service Licence Number : Not applicable

TECHNICAL SPECIFICATION - FM Radio

Specification Number : TS5685008

Transmitter Site :-

Nominal location : Telstra Site CUTLERS HILL
Australian Map Grid : Zone Easting Northing
Reference 55 707340 7391265
Site Tolerance : Refer to Technical Planning Guidelines

Emission :-

Frequency Band & Mode VHF-FM
Carrier Frequency : 97.5 MHz
Polarisation Mixed
Maximum antenna height 30 m

Output Radiation Pattern :-

Bearing or Sector (Clockwise direction)	Maximum ERP
At all angles of azimuth	1 kW

Special Conditions :-

The 'coverage radius' of this transmission is 30 kilometres measured from a point with the following AMG co-ordinates: Zone 55; Easting 707340; Northing 7391265. This point is the same as the nominal transmitter location.

LICENCE AREA PLAN : Emerald Radio June 2004

Category : Open Narrowcasting

General Area Served : Clermont (QLD)

Service Licence Number : Not applicable

TECHNICAL SPECIFICATION - FM Radio

Specification Number : TS10007810

Transmitter Site :-

Nominal location : NTA Site Macdonald Flat Rd CLERMONT

Australian Map Grid :	Zone	Easting	Northing
Reference	55	565970	7472070

Site Tolerance : Refer to Technical Planning Guidelines

Emission :-

Frequency Band & Mode VHF-FM

Carrier Frequency : 106.1 MHz

Polarisation Mixed

Maximum antenna height 70 m

Output Radiation Pattern :-

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

Special Conditions :-

The 'coverage radius' of this transmission is 15 kilometres measured from a point with the following AMG co-ordinates: Zone 55; Easting 565970; Northing 7472070. This point is the same as the nominal transmitter location.

Attachment 1.27

LICENCE AREA PLAN : Emerald Radio June 2004

Category : Open Narrowcasting
General Area Served : Dysart (QLD)
Service Licence Number : Not applicable

TECHNICAL SPECIFICATION - FM Radio

Specification Number : TS10007949

Transmitter Site :-

Nominal location : Broadcast Site DENHAM RANGE
Australian Map Grid : Zone Easting Northing
Reference 55 635430 7502240
Site Tolerance : Refer to Technical Planning Guidelines

Emission :-

Frequency Band & Mode VHF-FM
Carrier Frequency : 90.9 MHz
Polarisation Mixed
Maximum antenna height 60 m

Output Radiation Pattern :-

Bearing or Sector (Clockwise direction)	Maximum ERP
At all angles of azimuth	50 W

Special Conditions :-

The 'coverage radius' of this transmission is 15 kilometres measured from a point with the following AMG co-ordinates: Zone 55; Easting 635430; Northing 7502240. This point is the same as the nominal transmitter location.

LICENCE AREA PLAN : Emerald Radio June 2004

Category : Open Narrowcasting

General Area Served : Emerald (QLD)

Service Licence Number : Not applicable

TECHNICAL SPECIFICATION - FM Radio

Specification Number : TS10007840

Transmitter Site :-

Nominal location : UHF TV Site EMERALD

Australian Map Grid : Zone Easting Northing
Reference 55 617350 7403180

Site Tolerance : Refer to Technical Planning Guidelines

Emission :-

Frequency Band & Mode VHF-FM

Carrier Frequency : 95.5 MHz

Polarisation Mixed

Maximum antenna height 75 m

Output Radiation Pattern :-

Bearing or Sector (Clockwise direction)	Maximum ERP
0°T - 225°T	1 kW
225°T - 325°T	4.5 kW
325°T - 360°T	1 kW

Special Conditions :-

The 'coverage radius' of this transmission is 55 kilometres in the sector 225 degrees - 325 degrees and 30 kilometres elsewhere. The radius is measured from a point with the following AMG co-ordinates: Zone 55; Easting 617350; Northing 7403180. This point is the same as the nominal transmitter location.

Attachment 1.29

LICENCE AREA PLAN : Emerald Radio June 2004

Category : Open Narrowcasting
General Area Served : Emerald (QLD)
Service Licence Number : Not applicable

TECHNICAL SPECIFICATION - FM Radio

Specification Number : TS10007997

Transmitter Site :-

Nominal location : UHF TV Site EMERALD
Australian Map Grid : Zone Easting Northing
Reference 55 617350 7403180
Site Tolerance : Refer to Technical Planning Guidelines

Emission :-

Frequency Band & Mode VHF-FM
Carrier Frequency : 92.3 MHz
Polarisation Mixed
Maximum antenna height 35 m

Output Radiation Pattern :-

Bearing or Sector (Clockwise direction)	Maximum ERP
At all angles of azimuth	10 W

Special Conditions :-

The 'coverage radius' of this transmission is 10 kilometres measured from a point with the following AMG co-ordinates: Zone 55; Easting 617350; Northing 7403180. This point is the same as the nominal transmitter location.

Attachment 1.30

LICENCE AREA PLAN : Emerald Radio June 2004

Category : Open Narrowcasting
General Area Served : Middlemount (QLD)
Service Licence Number : Not applicable

TECHNICAL SPECIFICATION - FM Radio

Specification Number : TS10007990

Transmitter Site :-

Nominal location : Telstra Radio Terminal MIDDLEMOUNT

Australian Map Grid :	Zone	Easting	Northing
Reference	55	672157	7475958

Site Tolerance : Refer to Technical Planning Guidelines

Emission :-

Frequency Band & Mode VHF-FM

Carrier Frequency : 94.1 MHz

Polarisation Mixed

Maximum antenna height 40 m

Output Radiation Pattern :-

Bearing or Sector (Clockwise direction)	Maximum ERP
At all angles of azimuth	50 W

Special Conditions :-

The 'coverage radius' of this transmission is 15 kilometres measured from a point with the following AMG co-ordinates: Zone 55; Easting 672157; Northing 7475958. This point is the same as the nominal transmitter location.

Attachment 1.32

LICENCE AREA PLAN : Emerald Radio June 2004

Category : Open Narrowcasting
General Area Served : Saraji (QLD)
Service Licence Number : Not applicable

TECHNICAL SPECIFICATION - FM Radio

Specification Number : TS10007989

Transmitter Site :-

Nominal location : Broadcast Site SARAJI
Australian Map Grid : Zone Easting Northing
Reference 55 630400 7523300
Site Tolerance : Refer to Technical Planning Guidelines

Emission :-

Frequency Band & Mode VHF-FM
Carrier Frequency : 92.1 MHz
Polarisation Mixed
Maximum antenna height 30 m

Output Radiation Pattern :-

Bearing or Sector (Clockwise direction)	Maximum ERP
At all angles of azimuth	50 W

Special Conditions :-

The 'coverage radius' of this transmission is 15 kilometres measured from a point with the following AMG co-ordinates: Zone 55; Easting 630400; Northing 7523300. This point is the same as the nominal transmitter location.

Attachment 1.33

LICENCE AREA PLAN : Emerald Radio June 2004

Category : Open Narrowcasting
General Area Served : Tieri (QLD)
Service Licence Number : Not applicable

TECHNICAL SPECIFICATION - FM Radio

Specification Number : TS10007950

Transmitter Site :-

Nominal location : Broadcast Site TIERI
Australian Map Grid : Zone Easting Northing
Reference 55 640033 7452128
Site Tolerance : Refer to Technical Planning Guidelines

Emission :-

Frequency Band & Mode VHF-FM
Carrier Frequency : 92.1 MHz
Polarisation Mixed
Maximum antenna height 30 m

Output Radiation Pattern :-

Bearing or Sector (Clockwise direction)	Maximum ERP
At all angles of azimuth	50 W

Special Conditions :-

The 'coverage radius' of this transmission is 15 kilometres measured from a point with the following AMG co-ordinates: Zone 55; Easting 640033; Northing 7452128. This point is the same as the nominal transmitter location.

Attachment 1.38

LICENCE AREA PLAN: Emerald Radio – June 2004

Category : Commercial
General Area Served : Blackwater (QLD)
Service Licence Number : SL4176

TECHNICAL SPECIFICATION - FM Radio

Specification Number : TS10013606

Transmitter Site :-

Nominal location : Telstra Site, CUTLERS HILL
Australian Map Grid : Zone Easting Northing
Reference 55 707340 7391265
Site Tolerance : Refer to Technical Planning Guidelines

Emission :-

Frequency Band & Mode VHF-FM
Carrier Frequency : 90.3 MHz
Polarisation Mixed
Maximum antenna height 33 m

Output Radiation Pattern :-

Bearing or Sector (Clockwise direction)	Maximum ERP
At all angles of azimuth	1 kW

Attachment 1.39

LICENCE AREA PLAN: Emerald Radio – June 2004

Category : Commercial
General Area Served : Middlemount (QLD)
Service Licence Number : SL4176

TECHNICAL SPECIFICATION - FM Radio

Specification Number : TS10013413

Transmitter Site :-

Nominal location : Telstra Radio Terminal, MIDDLEMOUNT

Australian Map Grid : Reference	Zone 55	Easting 672157	Northing 7475958
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Site Tolerance : Refer to Technical Planning Guidelines

Emission :-

Frequency Band & Mode VHF-FM
Carrier Frequency : 104.5 MHz
Polarisation Mixed
Maximum antenna height 40 m

Output Radiation Pattern :-

Bearing or Sector (Clockwise direction)	Maximum ERP
At all angles of azimuth	250 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.

Attachment 1.40**LICENCE AREA PLAN: Emerald Radio – June 2004**

Category : National
General Area Served : Emerald (QLD)
Service Licence Number : Not applicable

TECHNICAL SPECIFICATION - FM Radio

Specification Number : TS10010515

Transmitter Site :-

Nominal location : Telstra Radio Terminal EMERALD
Australian Map Grid : Zone Easting Northing
Reference 55 617445 7403303
Site Tolerance : Refer to Technical Planning Guidelines

Emission :-

Frequency Band & Mode VHF-FM
Carrier Frequency : 90.7 MHz
Polarisation Mixed
Maximum antenna height 86 m

Output Radiation Pattern :-

Bearing or Sector (Clockwise direction)	Maximum ERP
0°T - 225°T	1 kW
225°T - 325°T	4.5 kW
325°T - 360°T	1 kW

Attachment 1.41

LICENCE AREA PLAN: Emerald Radio – June 2004

Category : National
General Area Served : Emerald (QLD)
Service Licence Number : Not applicable

TECHNICAL SPECIFICATION - FM Radio

Specification Number : TS10008689

Transmitter Site :-

Nominal location : Telstra Radio Terminal EMERALD
Australian Map Grid : Zone Easting Northing
Reference 55 617445 7403303
Site Tolerance : Refer to Technical Planning Guidelines

Emission :-

Frequency Band & Mode VHF-FM
Carrier Frequency : 89.1 MHz
Polarisation Mixed
Maximum antenna height 86 m

Output Radiation Pattern :-

Bearing or Sector (Clockwise direction)	Maximum ERP
0°T - 225°T	1 kW
225°T - 325°T	4.5 kW
325°T - 360°T	1 kW

Attachment 1.42

LICENCE AREA PLAN: Emerald Radio – June 2004

Category : National
General Area Served : Emerald (QLD)
Service Licence Number : Not applicable

TECHNICAL SPECIFICATION - FM Radio

Specification Number : TS10013633

Transmitter Site :-

Nominal location : Telstra Radio Terminal, EMERALD
Australian Map Grid : Zone Easting Northing
Reference 55 617445 7403303
Site Tolerance : Refer to Technical Planning Guidelines

Emission :-

Frequency Band & Mode VHF-FM
Carrier Frequency : 97.1 MHz
Polarisation Mixed
Maximum antenna height 86 m

Output Radiation Pattern :-

Bearing or Sector (Clockwise direction)	Maximum ERP
0°T - 225°T	1 kW
225°T - 325°T	4.5 kW
325°T - 360°T	1 kW

Attachment 1.43

LICENCE AREA PLAN: Emerald Radio – June 2004

Category : Commercial
General Area Served : Burton Gorge (QLD)
Service Licence Number : SL4176

TECHNICAL SPECIFICATION - FM Radio

Specification Number : TS7521001

Transmitter Site :-

Nominal location : North Goonyella Village, BURTON
GORGE

Australian Map Grid : Reference	Zone	Easting	Northing
	55	616590	7608703

Site Tolerance : Refer to Technical Planning Guidelines

Emission :-

Frequency Band & Mode VHF-FM
Carrier Frequency : 92.1 MHz
Polarisation Vertical
Maximum antenna height 10 m

Output Radiation Pattern :-

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

Attachment 2.1.1

LICENCE AREA - EMERALD RA2 – COMMUNITY RADIO

Service Licence Number: SL1150060

The licence area, in terms of areas defined by the Australian Bureau of Statistics at the Census of 5 August 2001, is:

Area Description
QLD CD 3080217
QLD CD 3080201
QLD CD 3080214
QLD CD 3080216
QLD CD 3080208
QLD CD 3080211
QLD CD 3080207
QLD CD 3080206
QLD CD 3080210
QLD CD 3080215
QLD CD 3080204
QLD CD 3080213
QLD CD 3080205
QLD CD 3080209
QLD CD 3080212

Note:

Standard terminology used by the Australian Bureau of Statistics:

(CD) = Collection District

Attachment 2.2

LICENCE AREA PLAN : Emerald Radio – June 2004

Category : Community
General Area Served : Emerald (QLD)
Service Licence Number : SL1150060

TECHNICAL SPECIFICATION - FM Radio

Specification Number : TS10007585

Transmitter Site :-

Nominal location : UHF TV Site EMERALD
Australian Map Grid : Zone Easting Northing
Reference 55 617350 7403180
Site Tolerance : Refer to Technical Planning Guidelines

Emission :-

Frequency Band & Mode VHF-FM
Carrier Frequency : 96.3 MHz
Polarisation Mixed
Maximum antenna height 35 m

Output Radiation Pattern :-

Bearing or Sector (Clockwise direction)	Maximum ERP
At all angles of azimuth	5 kW

Attachment 3.1.1

LICENCE AREA - MORANBAH RA1 – COMMUNITY RADIO **Service Licence Number: SL1150804**

The licence area, in terms of areas defined by the Australian Bureau of Statistics at the Census of 5 August 2001, is:

Area Description
QLD CD 3031601
QLD CD 3031607
QLD CD 3052004
QLD CD 3031605
QLD CD 3031612
QLD CD 3031609
QLD CD 3031608
QLD CD 3031610
QLD CD 3031611
QLD CD 3031606
QLD CD 3031613
QLD CD 3031604
QLD CD 3052005
QLD CD 3031504

Note:

Standard terminology used by the Australian Bureau of Statistics:

(CD) = Collection District

Attachment 3.2.1

LICENCE AREA PLAN: Emerald Radio – June 2004

Category : Community
General Area Served : Moranbah (QLD)
Service Licence Number : SL1150804

TECHNICAL SPECIFICATION - FM Radio

Specification Number : TS10013634

Transmitter Site :-

Nominal location : ABC NTL Site, CARBOROUGH RANGE

Australian Map Grid : Zone Easting Northing
Reference 55 636065 7574611

Site Tolerance : Refer to Technical Planning Guidelines

Emission :-

Frequency Band & Mode VHF-FM

Carrier Frequency : 96.9 MHz

Polarisation Mixed

Maximum antenna height 20 m

Output Radiation Pattern :-

Bearing or Sector (Clockwise direction)	Maximum ERP
At all angles of azimuth	5 kW

Attachment 5.1

LICENCE AREA - WOORABINDA RA1 – COMMUNITY RADIO **Service Licence Number: SL10206**

The licence area, in terms of areas defined by the Australian Bureau of Statistics at the Census of 5 August 2001, is:

Area Description
QLD CD 3080509
QLD CD 3061706
QLD CD 3061704
QLD CD 3080505
QLD CD 3080512
QLD CD 3080508
QLD CD 3080511

Note:

Standard terminology used by the Australian Bureau of Statistics:

(CD) = Collection District

Attachment 5.2

LICENCE AREA PLAN: Emerald Radio – June 2004

Category : Community
General Area Served : Woorabinda (QLD)
Service Licence Number : SL10206

TECHNICAL SPECIFICATION - FM Radio

Specification Number : TS10013224

Transmitter Site :-

Nominal location : Telstra Radio Terminal, WOORABINDA

Australian Map Grid :	Zone	Easting	Northing
Reference	55	754481	7327291

Site Tolerance : Refer to Technical Planning Guidelines

Emission :-

Frequency Band & Mode VHF-FM

Carrier Frequency : 99.7 MHz

Polarisation Mixed

Maximum antenna height 90 m

Output Radiation Pattern :-

Bearing or Sector (Clockwise direction)	Maximum ERP
At all angles of azimuth	1 kW