# Variation to Licence Area Plan for Cairns Radio – No.1 of 2011

**1. Enabling legislation**

The Australian Communications and Media Authority makes this instrument under subsection 26(2) of the *Broadcasting Services Act 1992*.

**2. Name of Instrument**

This instrument is the *Variation to the Licence Area Plan for Cairns Radio – No. 1 of 2011*.

**3. Commencement**

This instrument commences the day after it is registered.

*Note: An instrument is registered when it is recorded on the Federal Register of Legislative Instruments (FRLI) in electronic form: see the Legislative Instruments Act 2003, s4 (definition of register). The FRLI may be accessed at* [*http://www.frli.gov.*](http://www.frli.gov.)*au*

**4. Variation**

The *Licence Area Plan for Cairns Radio* determined by the Australian Broadcasting Authority on 18 October 1997 is varied as follows:

1. omit the paragraphs and insert the following:
2. This plan for radio broadcasting services in the Cairns area of Northern Queensland is made under section 26(1) of the *Broadcasting Services Act 1992*.
3. Eleven national radio broadcasting services, four commercial radio broadcasting services and three open narrowcasting radio broadcasting services are to be available in the Cairns area as described at Attachment 1.1 to this plan with the use of the broadcasting services bands. The characteristics, including technical specifications, of the services that are to be available in the area described at Attachment 1.1 are set out in Schedule Two and Attachments 1.2 to 1.27 to this plan.
4. Two community radio broadcasting services are to be available in the Cairns area as described at Attachment 2.1 to this plan with the use of the broadcasting services bands. The characteristics, including technical specifications, of the services that are to be available in the area described at Attachment 2.1 are set out in Schedule Two and Attachments 2.2 to 2.3 to this plan.
5. One community radio broadcasting service is to be available in the Cairns area as described at Attachment 3.1 to this plan with the use of the broadcasting services bands. The characteristics, including technical specifications, of the services that are to be available in the area described at Attachment 3.1 are set out in Schedule Three and Attachment 3.2 to this plan.
6. One community service is to be available in the Mossman area as described at Attachment 4.1 to this plan with the use of the broadcasting services bands. The characteristics, including technical specifications, of the services that are to be available in the area described at Attachment 4.1 are set out in Schedule Four and Attachment 4.2 to this plan.
7. A reference in this plan to a schedule or an attachment includes a reference to a schedule or attachment as amended from time to time.
8. immediately before Schedule One:
   1. omit the heading “SCHEDULE”;
   2. omit the words “The Schedule sets out:” and all six paragraphs marked with dots points that follow;
9. omit Schedules One, Two and Three and substitute Schedules One, Two and Three to this instrument;
10. insert Schedule Four of this instrument immediately after Schedule Three;
11. omit all the Attachments; and
12. insert Attachment 1.1 to Attachment 4.2 of this instrument.

The Common Seal of the   
Australian Communications and Media Authority  
was affixed to this document  
in the presence of:

*[signed]*  *[signed]*

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Signature of Member Signature of Member~~/General Manager~~

Chris Chapman Richard Lancelot Bean

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Name (Please Print) Name (Please Print)

Dated this *11th* day of *March* 2011.

Schedule One

Licence Area Plan : Cairns Radio

Licence Area : CAIRNS RA1

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Service Category | Channel/ Frequency | Service Licence No | Transmitter Specification No | Attach No | Area Served |
| National | 106.7 MHz | N/A | TS10007417 | 1.10 | Cairns |
| National | 105.1 MHz | N/A | TS10007418 | 1.11 | Cairns |
| National | 105.9 MHz | N/A | TS10007419 | 1.12 | Cairns |
| National | 107.5 MHz | N/A | TS10007421 | 1.13 | Cairns |
| National | 801 kHz | N/A | TS4046001 | 1.22 | Cairns |
| National | 101.1 MHz | N/A | TS10013402 | 1.24 | Cairns |
| National | 95.5 MHz | N/A | TS10007422 | 1.14 | Cairns North |
| National | 93.9 MHz | N/A | TS10007423 | 1.15 | Cairns North |
| National | 97.1 MHz | N/A | TS10007430 | 1.16 | Cairns North |
| National | 94.7 MHz | N/A | TS10007586 | 1.17 | Cairns North |
| National | 96.3 MHz | N/A | TS10013639 | 1.23 | Cairns North |
| National | 90.1 MHz | N/A | TS10007432 | 1.18 | Mossman |
| National | 639 kHz | N/A | TS10007457 | 1.19 | Mossman |
| Commercial | 846 kHz | SL4170 | TS10007435 | 1.2 | Cairns |
|  | 954 kHz | SL4170 | TS10007448 | 1.3 | Gordonvale |
| Commercial | 103.5 MHz | SL5742 | TS10007433 | 1.4 | Cairns (Mt Yarrabah) |
|  | 91.7 MHz | SL5742 | TS10007487 | 1.5 | Mossman |
| Commercial | 102.7 MHz | SL1150014 | TS10007328 | 1.6 | Cairns (Mt Yarrabah) |
|  | 92.5 MHz | SL1150014 | TS10007488 | 1.7 | Mossman |
|  | 91.5 MHz | SL1150014 | TS10013339 | 1.25 | Redlynch Valley |
|  | 93.5 MHz | SL1150014 | TS10013395 | 1.26 | Little Mulgrave |
| Commercial | 99.5 MHz | SL1150044 | TS10007855 | 1.8 | Cairns (Mt Yarrabah) |
|  | 88.5 MHz | SL1150044 | TS10007856 | 1.9 | Mossman |
| Open Narrowcasting | 104.3 MHz | N/A | TS10007456 | 1.20 | Cairns (Mt Yarrabah) |
| Open Narrowcasting | 90.9 MHz | N/A | TS10007489 | 1.21 | Mossman |
| Open Narrowcasting | 106.3 MHz | N/A | TS10013925 | 1.27 | Port Douglas |

Schedule Two

Licence Area Plan : Cairns Radio

Licence Area : CAIRNS RA2

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Service Category | Channel/ Frequency | Service Licence No | Transmitter Specification No | Attach No | Area Served |
| Community | 89.1 MHz | SL1883 | TS10007329 | 2.2 | Cairns (Mt Yarrabah) |
| Community | 98.7 MHz | SL1150013 | TS10007451 | 2.3 | Cairns (Mt Yarrabah) |

Schedule Three

Licence Area Plan : Cairns Radio

Licence Area : CAIRNS RA3

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Service Category | Channel/ Frequency | Service Licence No | Transmitter Specification No | Attach No | Area Served |
| Community | 101.9 MHz | SL1150829 | TS10013927 | 3.2 | Cairns |

Schedule Four

Licence Area Plan : Cairns Radio

Licence Area : MOSSMAN RA1

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Service Category | Channel/ Frequency | Service Licence No | Transmitter Specification No | Attach No | Area Served |
| Community | 99.9 MHz | SL1130137 | TS1133468 | 4.2 | Mossman |

Attachment 1.1

Licence Area - CAIRNS RA1

Licence Area ID - 507

Commercial Radio Service Licence numbers: SL4170, SL5742, SL1150014, SL1150044

The licence area, in terms of areas defined by the Australian Bureau of Statistics at the census of 8 August 2006, is:

| Area Description |
| --- |
| Yarrabah (S) (LGA) |
| Cairns (C) - Barron (SLA) |
| Cairns (C) - Central Suburbs (SLA) |
| Cairns (C) - City (SLA) |
| Cairns (C) - Mt Whitfield (SLA) |
| Cairns (C) - Northern Suburbs (SLA) |
| Cairns (C) - Trinity (SLA) |
| Cairns (C) - Western Suburbs (SLA) |
| QLD CD 010803 |
| QLD CD 010804 |
| QLD CD 010805 |
| QLD CD 010806 |
| QLD CD 010807 |
| QLD CD 010808 |
| QLD CD 010810 |
| QLD CD 010812 |
| QLD CD 010813 |
| QLD CD 010814 |
| QLD CD 010901 |
| QLD CD 010902 |
| QLD CD 010903 |
| QLD CD 010904 |
| QLD CD 010905 |
| QLD CD 010906 |
| QLD CD 010907 |
| QLD CD 010908 |
| QLD CD 010909 |
| QLD CD 010910 |
| QLD CD 010911 |
| QLD CD 010912 |
| QLD CD 010913 |
| QLD CD 010914 |
| QLD CD 010915 |
| QLD CD 010916 |
| QLD CD 010917 |
| QLD CD 010918 |
| QLD CD 010919 |
| QLD CD 010920 |
| QLD CD 010921 |
| QLD CD 010922 |
| QLD CD 010923 |
| QLD CD 010924 |
| QLD CD 010925 |
| QLD CD 010926 |
| QLD CD 012002 |
| QLD CD 012004 |
| QLD CD 012005 |
| QLD CD 012011 |
| QLD CD 012206 |
| QLD CD 012217 |
| QLD CD 012301 |
| QLD CD 012302 |
| QLD CD 030303 |
| QLD CD 030304 |
| QLD CD 030311 |
| QLD CD 030312 |
| QLD CD 030313 |
| QLD CD 030314 |
| QLD CD 030316 |
| QLD CD 030317 |
| QLD CD 030318 |
| QLD CD 030320 |
| QLD CD 030324 |

Note:

Standard terminology used by the Australian Bureau of Statistics:

(C) = City

(LGA) = Local Government Area

(SLA) = Statistical Local Area

(CD) = Collection District

(S) = Shire

Attachment 1.2

LICENCE AREA PLAN : Cairns Radio

Category : Commercial

General Area Served : Cairns (QLD)

Service Licence Number : SL4170

TECHNICAL SPECIFICATION - AM Radio

Specification Number : TS10007435

Transmitter Site :-

Nominal location : Broadcast Site, Bessie Point 5 km NE of CAIRNS

Australian Map Grid : Zone Easting Northing  
Reference 55 374197 8130703

Site Tolerance : Refer to *Broadcasting Services   
 (Technical Planning) Guidelines 2007*

Emission :-

Frequency Band & Mode : MF-AM

Carrier Frequency : 846 kHz

Output Radiation Pattern :-

|  |  |  |
| --- | --- | --- |
| Bearing or Sector (Clockwise direction) | Elevation | Maximum CMF |
| 0°T - 0°T | 0 | 630 V |
| 10°T - 10°T | 0 | 470 V |
| 20°T - 20°T | 0 | 310 V |
| 30°T - 30°T | 0 | 175 V |
| 40°T - 40°T | 0 | 165 V |
| 50°T - 50°T | 0 | 265 V |
| 60°T - 60°T | 0 | 365 V |
| 70°T - 70°T | 0 | 445 V |
| 80°T - 80°T | 0 | 500 V |
| 90°T - 90°T | 0 | 520 V |
| 100°T - 100°T | 0 | 510 V |
| 110°T - 110°T | 0 | 480 V |
| 120°T - 120°T | 0 | 415 V |
| 130°T - 130°T | 0 | 325 V |
| 140°T - 140°T | 0 | 220 V |
| 150°T - 150°T | 0 | 150 V |
| 160°T - 160°T | 0 | 220 V |
| 170°T - 170°T | 0 | 375 V |
| 180°T - 180°T | 0 | 535 V |
| 190°T - 190°T | 0 | 690 V |
| 200°T - 200°T | 0 | 820 V |
| 210°T - 210°T | 0 | 915 V |
| 220°T - 220°T | 0 | 980 V |
| 230°T - 320°T | 0 | 1.035 kV |
| 330°T - 330°T | 0 | 960 V |
| 340°T - 340°T | 0 | 880 V |
| 350°T - 350°T | 0 | 770 V |
| 355°T - 355°T | 0 | 705 V |

Attachment 1.3

LICENCE AREA PLAN : Cairns Radio

Category : Commercial

General Area Served : Gordonvale (QLD)

Service Licence Number : SL4170

TECHNICAL SPECIFICATION - AM Radio

Specification Number : TS10007448

Transmitter Site :-

Nominal location : Broadcast Site, Vohland Rd GORDONVALE

Australian Map Grid : Zone Easting Northing  
Reference 55 378201 8105000

Site Tolerance : Refer to *Broadcasting Services   
 (Technical Planning) Guidelines 2007*

Emission :-

Frequency Band & Mode : MF-AM

Carrier Frequency : 954 kHz

Output Radiation Pattern :-

|  |  |  |
| --- | --- | --- |
| Bearing or Sector (Clockwise direction) | Elevation | Maximum CMF |
| At all angles of azimuth | 0 | 180 V |

Attachment 1.4

LICENCE AREA PLAN : Cairns Radio

Category : Commercial

General Area Served : Cairns (Mt Yarrabah) (QLD)

Service Licence Number : SL5742

TECHNICAL SPECIFICATION - FM Radio

Specification Number : TS10007433

Transmitter Site :-

Nominal location : TV Site, 7.6 km ENE of Cairns, MT YARRABAH

Australian Map Grid : Zone Easting Northing  
Reference 55 376688 8130488

Site Tolerance : Refer to *Broadcasting Services   
 (Technical Planning) Guidelines 2007*

Emission :-

Frequency Band & Mode : VHF-FM

Carrier Frequency : 103.5 MHz

Polarisation : Mixed

Maximum antenna height : 10 m

Output Radiation Pattern :-

|  |  |
| --- | --- |
| Bearing or Sector (Clockwise direction) | Maximum ERP |
| 0°T - 170°T | 1 kW |
| 170°T - 230°T | 4 kW |
| 230°T - 260°T | 5 kW |
| 260°T - 320°T | 10 kW |
| 320°T - 360°T | 1 kW |

Attachment 1.5

LICENCE AREA PLAN : Cairns Radio

Category : Commercial

General Area Served : Mossman (QLD)

Service Licence Number : SL5742

TECHNICAL SPECIFICATION - FM Radio

Specification Number : TS10007487

Transmitter Site :-

Nominal location : Crown Castle Mossman Site, Gorge View Crescent, MOSSMAN

Australian Map Grid : Zone Easting Northing  
Reference 55 325240 8178150

Site Tolerance : Refer to *Broadcasting Services   
 (Technical Planning) Guidelines 2007*

Emission :-

Frequency Band & Mode : VHF-FM

Carrier Frequency : 91.7 MHz

Polarisation : Mixed

Maximum antenna height : 40 m

Output Radiation Pattern :-

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

Attachment 1.6

LICENCE AREA PLAN : Cairns Radio

Category : Commercial

General Area Served : Cairns (Mt Yarrabah) (QLD)

Service Licence Number : SL1150014

TECHNICAL SPECIFICATION - FM Radio

Specification Number : TS10007328

Transmitter Site :-

Nominal location : TV Site, 7.6 km ENE of Cairns, MT YARRABAH

Australian Map Grid : Zone Easting Northing  
Reference 55 376688 8130488

Site Tolerance : Refer to *Broadcasting Services   
 (Technical Planning) Guidelines 2007*

Emission :-

Frequency Band & Mode : VHF-FM

Carrier Frequency : 102.7 MHz

Polarisation : Mixed

Maximum antenna height : 10 m

Output Radiation Pattern :-

|  |  |
| --- | --- |
| Bearing or Sector (Clockwise direction) | Maximum ERP |
| 0°T - 170°T | 1 kW |
| 170°T - 230°T | 4 kW |
| 230°T - 260°T | 5 kW |
| 260°T - 320°T | 10 kW |
| 320°T - 360°T | 1 kW |

Attachment 1.7

LICENCE AREA PLAN : Cairns Radio

Category : Commercial

General Area Served : Mossman (QLD)

Service Licence Number : SL1150014

TECHNICAL SPECIFICATION - FM Radio

Specification Number : TS10007488

Transmitter Site :-

Nominal location : Crown Castle Mossman Site, Gorge View Crescent, MOSSMAN

Australian Map Grid : Zone Easting Northing  
Reference 55 325240 8178150

Site Tolerance : Refer to *Broadcasting Services   
 (Technical Planning) Guidelines 2007*

Emission :-

Frequency Band & Mode : VHF-FM

Carrier Frequency : 92.5 MHz

Polarisation : Mixed

Maximum antenna height : 40 m

Output Radiation Pattern :-

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

Attachment 1.8

LICENCE AREA PLAN : Cairns Radio

Category : Commercial

General Area Served : Cairns (Mt Yarrabah) (QLD)

Service Licence Number : SL1150044

TECHNICAL SPECIFICATION - FM Radio

Specification Number : TS10007855

Transmitter Site :-

Nominal location : TV Site, 7.6 km ENE of Cairns, MT YARRABAH

Australian Map Grid : Zone Easting Northing  
Reference 55 376688 8130488

Site Tolerance : Refer to *Broadcasting Services   
 (Technical Planning) Guidelines 2007*

Emission :-

Frequency Band & Mode : VHF-FM

Carrier Frequency : 99.5 MHz

Polarisation : Mixed

Maximum antenna height : 10 m

Output Radiation Pattern :-

|  |  |
| --- | --- |
| Bearing or Sector (Clockwise direction) | Maximum ERP |
| 0°T - 170°T | 1 kW |
| 170°T - 230°T | 4 kW |
| 230°T - 260°T | 5 kW |
| 260°T - 320°T | 10 kW |
| 320°T - 360°T | 1 kW |

Attachment 1.9

LICENCE AREA PLAN : Cairns Radio

Category : Commercial

General Area Served : Mossman (QLD)

Service Licence Number : SL1150044

TECHNICAL SPECIFICATION - FM Radio

Specification Number : TS10007856

Transmitter Site :-

Nominal location : Broadcast Site, NEWELL BEACH

Australian Map Grid : Zone Easting Northing  
Reference 55 327503 8182197

Site Tolerance : Refer to *Broadcasting Services   
 (Technical Planning) Guidelines 2007*

Emission :-

Frequency Band & Mode : VHF-FM

Carrier Frequency : 88.5 MHz

Polarisation : Mixed

Maximum antenna height : 40 m

Output Radiation Pattern :-

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

Attachment 1.10

LICENCE AREA PLAN : Cairns Radio

Category : National

General Area Served : Cairns (QLD)

Service Licence Number : Not applicable

TECHNICAL SPECIFICATION - FM Radio

Specification Number : TS10007417

Transmitter Site :-

Nominal location : Radio Terminal, 38 km SSE of Cairns, MT BELLENDEN KER

Australian Map Grid : Zone Easting Northing  
Reference 55 378034 8090678

Site Tolerance : Refer to *Broadcasting Services   
 (Technical Planning) Guidelines 2007*

Emission :-

Frequency Band & Mode : VHF-FM

Carrier Frequency : 106.7 MHz

Polarisation : Mixed

Maximum antenna height : 53 m

Output Radiation Pattern :-

|  |  |
| --- | --- |
| Bearing or Sector (Clockwise direction) | Maximum ERP |
| At all angles of azimuth | 100 kW |

Attachment 1.11

LICENCE AREA PLAN : Cairns Radio

Category : National

General Area Served : Cairns (QLD)

Service Licence Number : Not applicable

TECHNICAL SPECIFICATION - FM Radio

Specification Number : TS10007418

Transmitter Site :-

Nominal location : Radio Terminal, 38 km SSE of Cairns, MT BELLENDEN KER

Australian Map Grid : Zone Easting Northing  
Reference 55 378034 8090678

Site Tolerance : Refer to *Broadcasting Services   
 (Technical Planning) Guidelines 2007*

Emission :-

Frequency Band & Mode : VHF-FM

Carrier Frequency : 105.1 MHz

Polarisation : Mixed

Maximum antenna height : 53 m

Output Radiation Pattern :-

|  |  |
| --- | --- |
| Bearing or Sector (Clockwise direction) | Maximum ERP |
| At all angles of azimuth | 100 kW |

Attachment 1.12

LICENCE AREA PLAN : Cairns Radio

Category : National

General Area Served : Cairns (QLD)

Service Licence Number : Not applicable

TECHNICAL SPECIFICATION - FM Radio

Specification Number : TS10007419

Transmitter Site :-

Nominal location : Radio Terminal, 38 km SSE of Cairns, MT BELLENDEN KER

Australian Map Grid : Zone Easting Northing  
Reference 55 378034 8090678

Site Tolerance : Refer to *Broadcasting Services   
 (Technical Planning) Guidelines 2007*

Emission :-

Frequency Band & Mode : VHF-FM

Carrier Frequency : 105.9 MHz

Polarisation : Mixed

Maximum antenna height : 53 m

Output Radiation Pattern :-

|  |  |
| --- | --- |
| Bearing or Sector (Clockwise direction) | Maximum ERP |
| At all angles of azimuth | 100 kW |

Attachment 1.13

LICENCE AREA PLAN : Cairns Radio

Category : National

General Area Served : Cairns (QLD)

Service Licence Number : Not applicable

TECHNICAL SPECIFICATION - FM Radio

Specification Number : TS10007421

Transmitter Site :-

Nominal location : Radio Terminal, 38 km SSE of Cairns, MT BELLENDEN KER

Australian Map Grid : Zone Easting Northing  
Reference 55 378034 8090678

Site Tolerance : Refer to *Broadcasting Services   
 (Technical Planning) Guidelines 2007*

Emission :-

Frequency Band & Mode : VHF-FM

Carrier Frequency : 107.5 MHz

Polarisation : Mixed

Maximum antenna height : 53 m

Output Radiation Pattern :-

|  |  |
| --- | --- |
| Bearing or Sector (Clockwise direction) | Maximum ERP |
| At all angles of azimuth | 100 kW |

Attachment 1.14

LICENCE AREA PLAN : Cairns Radio

Category : National

General Area Served : Cairns North (QLD)

Service Licence Number : Not applicable

TECHNICAL SPECIFICATION - FM Radio

Specification Number : TS10007422

Transmitter Site :-

Nominal location : Broadcast Site, BUCHAN POINT

Australian Map Grid : Zone Easting Northing  
Reference 55 357300 8148900

Site Tolerance : Refer to *Broadcasting Services   
 (Technical Planning) Guidelines 2007*

Emission :-

Frequency Band & Mode : VHF-FM

Carrier Frequency : 95.5 MHz

Polarisation : Mixed

Maximum antenna height : 37 m

Output Radiation Pattern :-

|  |  |
| --- | --- |
| Bearing or Sector (Clockwise direction) | Maximum ERP |
| 0°T - 118°T | 2.5 kW |
| 118°T - 133°T | 5 kW |
| 133°T - 203°T | 10 kW |
| 203°T - 218°T | 5 kW |
| 218°T - 360°T | 2.5 kW |

Attachment 1.15

LICENCE AREA PLAN : Cairns Radio

Category : National

General Area Served : Cairns North (QLD)

Service Licence Number : Not applicable

TECHNICAL SPECIFICATION - FM Radio

Specification Number : TS10007423

Transmitter Site :-

Nominal location : Broadcast Site, BUCHAN POINT

Australian Map Grid : Zone Easting Northing  
Reference 55 357300 8148900

Site Tolerance : Refer to *Broadcasting Services   
 (Technical Planning) Guidelines 2007*

Emission :-

Frequency Band & Mode : VHF-FM

Carrier Frequency : 93.9 MHz

Polarisation : Mixed

Maximum antenna height : 37 m

Output Radiation Pattern :-

|  |  |
| --- | --- |
| Bearing or Sector (Clockwise direction) | Maximum ERP |
| 0°T - 118°T | 2.5 kW |
| 118°T - 133°T | 5 kW |
| 133°T - 203°T | 10 kW |
| 203°T - 218°T | 5 kW |
| 218°T - 360°T | 2.5 kW |

Attachment 1.16

LICENCE AREA PLAN : Cairns Radio

Category : National

General Area Served : Cairns North (QLD)

Service Licence Number : Not applicable

TECHNICAL SPECIFICATION - FM Radio

Specification Number : TS10007430

Transmitter Site :-

Nominal location : Broadcast Site, BUCHAN POINT

Australian Map Grid : Zone Easting Northing  
Reference 55 357300 8148900

Site Tolerance : Refer to *Broadcasting Services   
 (Technical Planning) Guidelines 2007*

Emission :-

Frequency Band & Mode : VHF-FM

Carrier Frequency : 97.1 MHz

Polarisation : Mixed

Maximum antenna height : 37 m

Output Radiation Pattern :-

|  |  |
| --- | --- |
| Bearing or Sector (Clockwise direction) | Maximum ERP |
| 0°T - 118°T | 2.5 kW |
| 118°T - 133°T | 5 kW |
| 133°T - 203°T | 10 kW |
| 203°T - 218°T | 5 kW |
| 218°T - 360°T | 2.5 kW |

Attachment 1.17

LICENCE AREA PLAN : Cairns Radio

Category : National

General Area Served : Cairns North (QLD)

Service Licence Number : Not applicable

TECHNICAL SPECIFICATION - FM Radio

Specification Number : TS10007586

Transmitter Site :-

Nominal location : Broadcast Site, BUCHAN POINT

Australian Map Grid : Zone Easting Northing  
Reference 55 357300 8148900

Site Tolerance : Refer to *Broadcasting Services   
 (Technical Planning) Guidelines 2007*

Emission :-

Frequency Band & Mode : VHF-FM

Carrier Frequency : 94.7 MHz

Polarisation : Mixed

Maximum antenna height : 37 m

Output Radiation Pattern :-

|  |  |
| --- | --- |
| Bearing or Sector (Clockwise direction) | Maximum ERP |
| 0°T - 118°T | 2.5 kW |
| 118°T - 133°T | 5 kW |
| 133°T - 203°T | 10 kW |
| 203°T - 218°T | 5 kW |
| 218°T - 360°T | 2.5 kW |

Attachment 1.18

LICENCE AREA PLAN : Cairns Radio

Category : National

General Area Served : Mossman (QLD)

Service Licence Number : Not applicable

TECHNICAL SPECIFICATION - FM Radio

Specification Number : TS10007432

Transmitter Site :-

Nominal location : Broadcast Site, NEWELL BEACH

Australian Map Grid : Zone Easting Northing  
Reference 55 327503 8182197

Site Tolerance : Refer to *Broadcasting Services   
 (Technical Planning) Guidelines 2007*

Emission :-

Frequency Band & Mode : VHF-FM

Carrier Frequency : 90.1 MHz

Polarisation : Mixed

Maximum antenna height : 40 m

Output Radiation Pattern :-

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

Attachment 1.19

LICENCE AREA PLAN : Cairns Radio

Category : National

General Area Served : Mossman (QLD)

Service Licence Number : Not applicable

TECHNICAL SPECIFICATION - AM Radio

Specification Number : TS10007457

Transmitter Site :-

Nominal location : Broadcast Site, 6 km WNW of MOSSMAN

Australian Map Grid : Zone Easting Northing  
Reference 55 327800 8184300

Site Tolerance : Refer to *Broadcasting Services   
 (Technical Planning) Guidelines 2007*

Emission :-

Frequency Band & Mode : MF-AM

Carrier Frequency : 639 kHz

Output Radiation Pattern :-

|  |  |  |
| --- | --- | --- |
| Bearing or Sector (Clockwise direction) | Elevation | Maximum CMF |
| At all angles of azimuth | 0 | 305 V |

Attachment 1.20

LICENCE AREA PLAN : Cairns Radio

Category : Open Narrowcasting

General Area Served : Cairns (Mt Yarrabah) (QLD)

Service Licence Number : Not applicable

TECHNICAL SPECIFICATION - FM Radio

Specification Number : TS10007456

Transmitter Site :-

Nominal location : Mt Yarrabah, CAIRNS

Australian Map Grid : Zone Easting Northing  
Reference 55 376600 8130400

Site Tolerance : Refer to *Broadcasting Services   
 (Technical Planning) Guidelines 2007*

Emission :-

Frequency Band & Mode : VHF-FM

Carrier Frequency : 104.3 MHz

Polarisation : Mixed

Maximum antenna height : 10 m

Output Radiation Pattern :-

|  |  |
| --- | --- |
| Bearing or Sector (Clockwise direction) | Maximum ERP |
| 0°T - 170°T | 1 kW |
| 170°T - 230°T | 4 kW |
| 230°T - 260°T | 5 kW |
| 260°T - 320°T | 10 kW |
| 320°T - 360°T | 1 kW |

Special Conditions :-

The ’coverage radius' of this transmission is 25 kilometres measured from the nominal transmitter location (AMG co-ordinates: Zone 55; Easting 376600; Northing 8130400).

Attachment 1.21

LICENCE AREA PLAN : Cairns Radio

Category : Open Narrowcasting

General Area Served : Mossman (QLD)

Service Licence Number : Not applicable

TECHNICAL SPECIFICATION - FM Radio

Specification Number : TS10007489

Transmitter Site :-

Nominal location : Radio Terminal, NEWELL BEACH

Australian Map Grid : Zone Easting Northing  
Reference 55 327567 8182221

Site Tolerance : Refer to *Broadcasting Services   
 (Technical Planning) Guidelines 2007*

Emission :-

Frequency Band & Mode : VHF-FM

Carrier Frequency : 90.9 MHz

Polarisation : Mixed

Maximum antenna height : 40 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 9 kilometres measured from the nominal transmitter location (AMG co-ordinates: Zone 55; Easting 327567; Northing 8182221).

Attachment 1.22

LICENCE AREA PLAN : Cairns Radio

Category : National

General Area Served : Cairns (QLD)

Service Licence Number : Not applicable

TECHNICAL SPECIFICATION - AM Radio

Specification Number : TS4046001

Transmitter Site :-

Nominal location : Broadcast Site, KAMMA

Australian Map Grid : Zone Easting Northing  
Reference 55 369893 8114024

Site Tolerance : Refer to *Broadcasting Services   
 (Technical Planning) Guidelines 2007*

Emission :-

Frequency Band & Mode : MF-AM

Carrier Frequency : 801 kHz

Output Radiation Pattern :-

|  |  |  |
| --- | --- | --- |
| Bearing or Sector (Clockwise direction) | Elevation | Maximum CMF |
| At all angles of azimuth | 0 | 430 V |

Attachment 1.23

LICENCE AREA PLAN : Cairns Radio

Category : National

General Area Served : Cairns North (QLD)

Service Licence Number : Not applicable

TECHNICAL SPECIFICATION - FM Radio

Specification Number : TS10013639

Transmitter Site :-

Nominal location : Broadcast Site, BUCHAN POINT

Australian Map Grid : Zone Easting Northing  
Reference 55 357300 8148900

Site Tolerance : Refer to *Broadcasting Services   
 (Technical Planning) Guidelines 2007*

Emission :-

Frequency Band & Mode : VHF-FM

Carrier Frequency : 96.3 MHz

Polarisation : Mixed

Maximum antenna height : 37 m

Output Radiation Pattern :-

|  |  |
| --- | --- |
| Bearing or Sector (Clockwise direction) | Maximum ERP |
| 0°T - 118°T | 2.5 kW |
| 118°T - 133°T | 5 kW |
| 133°T - 203°T | 10 kW |
| 203°T - 218°T | 5 kW |
| 218°T - 360°T | 2.5 kW |

Attachment 1.24

LICENCE AREA PLAN : Cairns Radio

Category : National

General Area Served : Cairns (QLD)

Service Licence Number : Not applicable

TECHNICAL SPECIFICATION - FM Radio

Specification Number : TS10013402

Transmitter Site :-

Nominal location : Radio Terminal, 38 km SSE of Cairns, MT BELLENDEN KER

Australian Map Grid : Zone Easting Northing  
Reference 55 378034 8090678

Site Tolerance : Refer to *Broadcasting Services   
 (Technical Planning) Guidelines 2007*

Emission :-

Frequency Band & Mode : VHF-FM

Carrier Frequency : 101.1 MHz

Polarisation : Mixed

Maximum antenna height : 53 m

Output Radiation Pattern :-

|  |  |
| --- | --- |
| Bearing or Sector (Clockwise direction) | Maximum ERP |
| At all angles of azimuth | 100 kW |

Attachment 1.25

LICENCE AREA PLAN : Cairns Radio

Category : Commercial

General Area Served : Redlynch Valley (QLD)

Service Licence Number : SL1150014

TECHNICAL SPECIFICATION - FM Radio

Specification Number : TS10013339

Transmitter Site :-

Nominal location : Broadcast Site Mt Williams, Redlynch Valley, CAIRNS

Australian Map Grid : Zone Easting Northing  
Reference 55 360380 8129200

Site Tolerance : Refer to *Broadcasting Services   
 (Technical Planning) Guidelines 2007*

Emission :-

Frequency Band & Mode : VHF-FM

Carrier Frequency : 91.5 MHz

Polarisation : Mixed

Maximum antenna height : 25 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 66 dBuV/m and above against interference from other broadcasting services.

Attachment 1.26

LICENCE AREA PLAN : Cairns Radio

Category : Commercial

General Area Served : Little Mulgrave (QLD)

Service Licence Number : SL1150014

TECHNICAL SPECIFICATION - FM Radio

Specification Number : TS10013395

Transmitter Site :-

Nominal location : Broadcast Site, Reservoir, Golden St.  
 GOLDSBOROUGH VALLEY

Australian Map Grid : Zone Easting Northing  
Reference 55 366550 8101950

Site Tolerance : Refer to *Broadcasting Services   
 (Technical Planning) Guidelines 2007*

Emission :-

Frequency Band & Mode : VHF-FM

Carrier Frequency : 93.5 MHz

Polarisation : Mixed

Maximum antenna height : 20 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 66 dBuV/m and above against interference from other broadcasting services.

Attachment 1.27

LICENCE AREA PLAN : Cairns Radio

Category : Open Narrowcasting

General Area Served : Port Douglas (QLD)

Service Licence Number : Not applicable

TECHNICAL SPECIFICATION - FM Radio

Specification Number : TS10013925

Transmitter Site :-

Nominal location : Communications Tower, Flagstaff Hill, PORT DOUGLAS

Australian Map Grid : Zone Easting Northing  
Reference 55 336262 8176960

Site Tolerance : Refer to *Broadcasting Services   
 (Technical Planning) Guidelines 2007*

Emission :-

Frequency Band & Mode : VHF-FM

Carrier Frequency : 106.3 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 and above against interference from other broadcasting services.

The 'coverage radius' of this transmission is 10 kilometres measured from the nominal transmitter location (AMG co-ordinates: Zone 55; Easting 336262; Northing 8176960).

Attachment 2.1

Licence Area - CAIRNS RA2

Licence Area ID - 350

Community Radio Service Licence numbers: SL1883, SL1150013

The licence area, in terms of areas defined by the Australian Bureau of Statistics at the census of 8 August 2006, is:

| Area Description |
| --- |
| Cairns (C) - Central Suburbs (SLA) |
| Cairns (C) - City (SLA) |
| Cairns (C) - Mt Whitfield (SLA) |
| QLD CD 011217 |
| QLD CD 011301 |
| QLD CD 011302 |
| QLD CD 011303 |
| QLD CD 011304 |
| QLD CD 011307 |
| QLD CD 011316 |
| QLD CD 011317 |
| QLD CD 011505 |
| QLD CD 011510 |
| QLD CD 011511 |
| QLD CD 011514 |
| QLD CD 011515 |
| QLD CD 011516 |
| QLD CD 011601 |
| QLD CD 011602 |
| QLD CD 011603 |
| QLD CD 011604 |
| QLD CD 011605 |
| QLD CD 011606 |
| QLD CD 011607 |
| QLD CD 011608 |
| QLD CD 011610 |
| QLD CD 011611 |
| QLD CD 011612 |
| QLD CD 011613 |
| QLD CD 011614 |
| QLD CD 011615 |
| QLD CD 011617 |
| QLD CD 011618 |
| QLD CD 011621 |
| QLD CD 011622 |
| QLD CD 011623 |
| QLD CD 011624 |
| QLD CD 011625 |
| QLD CD 011626 |
| QLD CD 011701 |
| QLD CD 011702 |
| QLD CD 011703 |
| QLD CD 011704 |
| QLD CD 011705 |
| QLD CD 011706 |
| QLD CD 011707 |
| QLD CD 011708 |
| QLD CD 011709 |
| QLD CD 011710 |
| QLD CD 011711 |
| QLD CD 011712 |
| QLD CD 011713 |
| QLD CD 011714 |
| QLD CD 011715 |
| QLD CD 011802 |
| QLD CD 011803 |
| QLD CD 011804 |
| QLD CD 011805 |
| QLD CD 011806 |
| QLD CD 011807 |
| QLD CD 011808 |
| QLD CD 011809 |
| QLD CD 011810 |
| QLD CD 011811 |
| QLD CD 011812 |
| QLD CD 011813 |
| QLD CD 011814 |
| QLD CD 011901 |
| QLD CD 011906 |
| QLD CD 011908 |
| QLD CD 011909 |
| QLD CD 011911 |
| QLD CD 011913 |
| QLD CD 011914 |
| QLD CD 011918 |
| QLD CD 011920 |
| QLD CD 012101 |
| QLD CD 012102 |
| QLD CD 012103 |
| QLD CD 012104 |
| QLD CD 012105 |
| QLD CD 012109 |
| QLD CD 012112 |
| QLD CD 012115 |
| QLD CD 012116 |
| QLD CD 012122 |
| QLD CD 012202 |
| QLD CD 012203 |
| QLD CD 012204 |
| QLD CD 012212 |
| QLD CD 012213 |
| QLD CD 012219 |
| QLD CD 012220 |
| QLD CD 012221 |
| QLD CD 012701 |
| QLD CD 012702 |
| QLD CD 012703 |
| QLD CD 012704 |
| QLD CD 012705 |
| QLD CD 012706 |
| QLD CD 012707 |
| QLD CD 012708 |
| QLD CD 012709 |
| QLD CD 012710 |
| QLD CD 012711 |
| QLD CD 012712 |
| QLD CD 012713 |
| QLD CD 012714 |
| QLD CD 012715 |
| QLD CD 012716 |

Note:

Standard terminology used by the Australian Bureau of Statistics:

(C) = City

(SLA) = Statistical Local Area

(CD) = Collection District

Attachment 2.2

LICENCE AREA PLAN : Cairns Radio

Category : Community

General Area Served : Cairns (Mt Yarrabah) (QLD)

Service Licence Number : SL1883

TECHNICAL SPECIFICATION - FM Radio

Specification Number : TS10007329

Transmitter Site :-

Nominal location : TV Site, 7.6 km ENE of Cairns, MT YARRABAH

Australian Map Grid : Zone Easting Northing  
Reference 55 376688 8130488

Site Tolerance : Refer to *Broadcasting Services   
 (Technical Planning) Guidelines 2007*

Emission :-

Frequency Band & Mode : VHF-FM

Carrier Frequency : 89.1 MHz

Polarisation : Mixed

Maximum antenna height : 10 m

Output Radiation Pattern :-

|  |  |
| --- | --- |
| Bearing or Sector (Clockwise direction) | Maximum ERP |
| 0°T - 170°T | 1 kW |
| 170°T - 230°T | 4 kW |
| 230°T - 260°T | 5 kW |
| 260°T - 320°T | 10 kW |
| 320°T - 360°T | 1 kW |

Attachment 2.3

LICENCE AREA PLAN : Cairns Radio

Category : Community

General Area Served : Cairns (Mt Yarrabah) (QLD)

Service Licence Number : SL1150013

TECHNICAL SPECIFICATION - FM Radio

Specification Number : TS10007451

Transmitter Site :-

Nominal location : TV Site, 7.6 km ENE of Cairns, MT YARRABAH

Australian Map Grid : Zone Easting Northing  
Reference 55 376688 8130488

Site Tolerance : Refer to *Broadcasting Services   
 (Technical Planning) Guidelines 2007*

Emission :-

Frequency Band & Mode : VHF-FM

Carrier Frequency : 98.7 MHz

Polarisation : Mixed

Maximum antenna height : 10 m

Output Radiation Pattern :-

|  |  |
| --- | --- |
| Bearing or Sector (Clockwise direction) | Maximum ERP |
| 0°T - 170°T | 1 kW |
| 170°T - 230°T | 4 kW |
| 230°T - 260°T | 5 kW |
| 260°T - 320°T | 10 kW |
| 320°T - 360°T | 1 kW |

Attachment 3.1

Licence Area - CAIRNS RA3

Licence Area ID - 1260

Community Radio Service Licence numbers: SL1150829

The licence area, in terms of areas defined by the Australian Bureau of Statistics at the census of 8 August 2006, is:

| Area Description |
| --- |
| QLD CD 011001 |
| QLD CD 011002 |
| QLD CD 011006 |
| QLD CD 011007 |
| QLD CD 011008 |
| QLD CD 011208 |
| QLD CD 011209 |
| QLD CD 011211 |
| QLD CD 011212 |
| QLD CD 011219 |
| QLD CD 011220 |
| QLD CD 011408 |
| QLD CD 011409 |
| QLD CD 011514 |
| QLD CD 011601 |
| QLD CD 011602 |
| QLD CD 011603 |
| QLD CD 011604 |
| QLD CD 011605 |
| QLD CD 011606 |
| QLD CD 011607 |
| QLD CD 011608 |
| QLD CD 011610 |
| QLD CD 011611 |
| QLD CD 011612 |
| QLD CD 011613 |
| QLD CD 011614 |
| QLD CD 011615 |
| QLD CD 011616 |
| QLD CD 011617 |
| QLD CD 011618 |
| QLD CD 011619 |
| QLD CD 011620 |
| QLD CD 011621 |
| QLD CD 011622 |
| QLD CD 011623 |
| QLD CD 011624 |
| QLD CD 011625 |
| QLD CD 011626 |
| QLD CD 011701 |
| QLD CD 011702 |
| QLD CD 011703 |
| QLD CD 011704 |
| QLD CD 011705 |
| QLD CD 011706 |
| QLD CD 011707 |
| QLD CD 011708 |
| QLD CD 011709 |
| QLD CD 011710 |
| QLD CD 011711 |
| QLD CD 011712 |
| QLD CD 011713 |
| QLD CD 011714 |
| QLD CD 011715 |
| QLD CD 011801 |
| QLD CD 011802 |
| QLD CD 011803 |
| QLD CD 011804 |
| QLD CD 011805 |
| QLD CD 011806 |
| QLD CD 011807 |
| QLD CD 011808 |
| QLD CD 011809 |
| QLD CD 011810 |
| QLD CD 011811 |
| QLD CD 011812 |
| QLD CD 011813 |
| QLD CD 011814 |
| QLD CD 011901 |
| QLD CD 011902 |
| QLD CD 011903 |
| QLD CD 011904 |
| QLD CD 011905 |
| QLD CD 011906 |
| QLD CD 011907 |
| QLD CD 011908 |
| QLD CD 011909 |
| QLD CD 011912 |
| QLD CD 011913 |
| QLD CD 011914 |
| QLD CD 011915 |
| QLD CD 011916 |
| QLD CD 011917 |
| QLD CD 011919 |
| QLD CD 011920 |
| QLD CD 012124 |
| QLD CD 012125 |
| QLD CD 012126 |

Note:

Standard terminology used by the Australian Bureau of Statistics:

(CD) = Collection District

Attachment 3.2

LICENCE AREA PLAN : Cairns Radio

Category : Community

General Area Served : Cairns (QLD)

Service Licence Number : SL1150829

TECHNICAL SPECIFICATION - FM Radio

Specification Number : TS10013927

Transmitter Site :-

Nominal location : Broadcast Site, Smithfield State High School, SMITHFIELD

Australian Map Grid : Zone Easting Northing  
Reference 55 360890 8140460

Site Tolerance : Refer to *Broadcasting Services   
 (Technical Planning) Guidelines 2007*

Emission :-

Frequency Band & Mode : VHF-FM

Carrier Frequency : 101.9 MHz

Polarisation : Mixed

Maximum antenna height : 30 m

Output Radiation Pattern :-

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

Attachment 4.1

Licence Area - MOSSMAN RA1

Licence Area ID - 1245

Community Radio Service Licence numbers: SL1130137

The licence area, in terms of areas defined by the Australian Bureau of Statistics at the census of 8 August 2006, is:

| Area Description |
| --- |
| QLD CD 010804 |
| QLD CD 010805 |
| QLD CD 010806 |
| QLD CD 010810 |
| QLD CD 010812 |
| QLD CD 010813 |
| QLD CD 010901 |
| QLD CD 010902 |
| QLD CD 010903 |
| QLD CD 010904 |
| QLD CD 010905 |
| QLD CD 010906 |
| QLD CD 010907 |
| QLD CD 010909 |
| QLD CD 010910 |
| QLD CD 010911 |
| QLD CD 010912 |
| QLD CD 010914 |
| QLD CD 010915 |
| QLD CD 010916 |
| QLD CD 010918 |
| QLD CD 010919 |
| QLD CD 010920 |
| QLD CD 010921 |
| QLD CD 010922 |
| QLD CD 010923 |
| QLD CD 010924 |
| QLD CD 010925 |

Note:

Standard terminology used by the Australian Bureau of Statistics:

(CD) = Collection District

Attachment 4.2

LICENCE AREA PLAN : Cairns Radio

Category : Community

General Area Served : Mossman (QLD)

Service Licence Number : SL1130137

TECHNICAL SPECIFICATION - FM Radio

Specification Number : TS1133468

Transmitter Site :-

Nominal location : Telstra Radio Terminal, NEWELL BEACH

Australian Map Grid : Zone Easting Northing  
Reference 55 327560 8182232

Site Tolerance : Refer to *Broadcasting Services   
 (Technical Planning) Guidelines 2007*

Emission :-

Frequency Band & Mode : VHF-FM

Carrier Frequency : 99.9 MHz

Polarisation : Mixed

Maximum antenna height : 25 m

Output Radiation Pattern :-

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