Draft Variation to Licence Area Plan – Darwin Radio – No.2 of 2012

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 – Darwin Radio – No. 2 of 2012.

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.comlaw.gov.au

4. Variation

The Licence Area Plan - Darwin and Katherine Television and Radio – October 1995 determined by the Australian Broadcasting Authority on 17 October 1995 is varied as follows:

(a) on Page One after the heading Licence Area Plan – Darwin Radio:

   (i) omit the sub-heading “DETERMINATION”

   (ii) omit the five paragraphs of text and substitute the following clauses:

   “(1) This plan for radio broadcasting services in the Darwin area of the Northern Territory is made under subsection 26(1) of the Broadcasting Services Act 1992.

   (2) Thirteen national radio broadcasting services, two commercial radio broadcasting services and six open narrowcasting radio services are to be available in the area 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 the Schedule and Attachments 2.2 - 2.27 to this plan.

(3) Two community radio broadcasting services are to be available in the area 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 Attachments 3.2 - 3.3 to this plan.

(4) One community radio broadcasting service is to be available in the area 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 Attachments 4.2 - 4.6 to this plan.

(5) Two community radio broadcasting services are to be available in the area described at Attachment 5.1 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 5.1 are set out in Schedule Five and Attachments 5.2 - 5.4 to this plan.

(6) A reference in this plan to a schedule or an attachment includes reference to a schedule or attachment as amended from time to time.”

(b) immediately before Schedule Two:

(i) omit the heading “SCHEDULE”; and

(ii) omit the words “Each of the Schedule sets out” and all six paragraphs marked with dot points that follow;

(c) omit all schedules and substitute all schedules of this instrument;

(d) omit all attachments and substitute all attachments of this instrument.
The Common Seal of the Australian Communications and Media Authority was affixed to this document in the presence of:

________________________________________   ______________________________________
Signature of Member                     Signature of Member/General Manager

________________________________________   ______________________________________
Name (Please Print)                     Name (Please Print)

Dated this ___________________   day of _______________________  2012.
## Schedule Two

### Licence Area Plan: Darwin Radio

**Licence Area: DARWIN RA1**

<table>
<thead>
<tr>
<th>Service Category</th>
<th>Channel/ Frequency</th>
<th>Service Licence No</th>
<th>Transmitter Specification No</th>
<th>Attach No</th>
<th>Area Served</th>
</tr>
</thead>
<tbody>
<tr>
<td>National</td>
<td>100.5 MHz</td>
<td>N/A</td>
<td>TS10003335</td>
<td>2.6</td>
<td>Adelaide River</td>
</tr>
<tr>
<td></td>
<td>98.9 MHz</td>
<td>N/A</td>
<td>TS10003336</td>
<td>2.7</td>
<td>Adelaide River</td>
</tr>
<tr>
<td></td>
<td>92.1 MHz</td>
<td>N/A</td>
<td>TS1003338</td>
<td>2.8</td>
<td>Batchelor</td>
</tr>
<tr>
<td></td>
<td>91.3 MHz</td>
<td>N/A</td>
<td>TS10003342</td>
<td>2.9</td>
<td>Batchelor</td>
</tr>
<tr>
<td></td>
<td>657 kHz</td>
<td>N/A</td>
<td>TS10003323</td>
<td>2.10</td>
<td>Darwin</td>
</tr>
<tr>
<td></td>
<td>107.3 MHz</td>
<td>N/A</td>
<td>TS1135789</td>
<td>2.11</td>
<td>Darwin</td>
</tr>
<tr>
<td></td>
<td>105.7 MHz</td>
<td>N/A</td>
<td>TS1135788</td>
<td>2.12</td>
<td>Darwin</td>
</tr>
<tr>
<td></td>
<td>103.3 MHz</td>
<td>N/A</td>
<td>TS1135787</td>
<td>2.13</td>
<td>Darwin</td>
</tr>
<tr>
<td></td>
<td>100.9 MHz</td>
<td>N/A</td>
<td>TS1135214</td>
<td>2.14</td>
<td>Darwin</td>
</tr>
<tr>
<td></td>
<td>102.5 MHz</td>
<td>N/A</td>
<td>TS1135073</td>
<td>2.17</td>
<td>Darwin</td>
</tr>
<tr>
<td></td>
<td>639 kHz</td>
<td>N/A</td>
<td>TS10003360</td>
<td>2.15</td>
<td>Katherine</td>
</tr>
<tr>
<td></td>
<td>106.1 MHz</td>
<td>N/A</td>
<td>TS10003359</td>
<td>2.16</td>
<td>Katherine</td>
</tr>
<tr>
<td></td>
<td>105.3 MHz</td>
<td>N/A</td>
<td>TS1130995</td>
<td>2.24</td>
<td>Katherine</td>
</tr>
<tr>
<td>Commercial</td>
<td>100.1 MHz</td>
<td>SL10167</td>
<td>TS1135790</td>
<td>2.2</td>
<td>Darwin</td>
</tr>
<tr>
<td></td>
<td>765 kHz</td>
<td>SL10167</td>
<td>TS10003316</td>
<td>2.3</td>
<td>Katherine</td>
</tr>
<tr>
<td></td>
<td>102.1 MHz</td>
<td>SL10167</td>
<td>TS1136890</td>
<td>2.26</td>
<td>Adelaide River</td>
</tr>
<tr>
<td></td>
<td>104.9 MHz</td>
<td>SL10168</td>
<td>TS1135791</td>
<td>2.4</td>
<td>Darwin</td>
</tr>
<tr>
<td></td>
<td>106.9 MHz</td>
<td>SL10168</td>
<td>TS10003318</td>
<td>2.5</td>
<td>Katherine</td>
</tr>
<tr>
<td></td>
<td>98.1 MHz</td>
<td>SI10167</td>
<td>TS1136891</td>
<td>2.27</td>
<td>Adelaide River</td>
</tr>
<tr>
<td>Community</td>
<td>101.7 MHz</td>
<td>SL1130002</td>
<td>TS10003321</td>
<td>2.25</td>
<td>Darwin</td>
</tr>
<tr>
<td>Open Narrowcasting</td>
<td>1242 kHz</td>
<td>N/A</td>
<td>TS10003408</td>
<td>2.18</td>
<td>Darwin</td>
</tr>
<tr>
<td>Open Narrowcasting</td>
<td>92.3 MHz</td>
<td>N/A</td>
<td>TS10003384</td>
<td>2.19</td>
<td>Darwin City</td>
</tr>
<tr>
<td>Open Narrowcasting</td>
<td>90.7 MHz</td>
<td>N/A</td>
<td>TS10003385</td>
<td>2.20</td>
<td>Darwin East</td>
</tr>
<tr>
<td>Open Narrowcasting</td>
<td>91.5 MHz</td>
<td>N/A</td>
<td>TS10003386</td>
<td>2.21</td>
<td>Darwin North</td>
</tr>
<tr>
<td>Open Narrowcasting</td>
<td>103.7 MHz</td>
<td>N/A</td>
<td>TS10003409</td>
<td>2.22</td>
<td>Katherine</td>
</tr>
<tr>
<td>Open Narrowcasting</td>
<td>96.5 MHz</td>
<td>N/A</td>
<td>TS10003430</td>
<td>2.23</td>
<td>Katherine</td>
</tr>
</tbody>
</table>
### Schedule Three

**Licence Area Plan : Darwin Radio**

**Licence Area : DARWIN RA2**

<table>
<thead>
<tr>
<th>Service Category</th>
<th>Channel/Frequency</th>
<th>Service Licence No</th>
<th>Transmitter Specification No</th>
<th>Attach No</th>
<th>Area Served</th>
</tr>
</thead>
<tbody>
<tr>
<td>Community</td>
<td>97.7 MHz</td>
<td>SL10165</td>
<td>TS10003344</td>
<td>3.2</td>
<td>Darwin</td>
</tr>
<tr>
<td>Community</td>
<td>94.5 MHz</td>
<td>SL10166</td>
<td>TS1135792</td>
<td>3.3</td>
<td>Darwin</td>
</tr>
</tbody>
</table>

### Schedule Four

**Licence Area Plan : Darwin Radio**

**Licence Area : DARWIN RA3**

<table>
<thead>
<tr>
<th>Service Category</th>
<th>Channel/Frequency</th>
<th>Service Licence No</th>
<th>Transmitter Specification No</th>
<th>Attach No</th>
<th>Area Served</th>
</tr>
</thead>
<tbody>
<tr>
<td>Community</td>
<td>104.1 MHz</td>
<td>SL10164</td>
<td>TS10003311</td>
<td>4.2</td>
<td>Darwin</td>
</tr>
<tr>
<td>Community</td>
<td>99.7 MHz</td>
<td>SL10164</td>
<td>TS10003313</td>
<td>4.3</td>
<td>Adelaide River</td>
</tr>
<tr>
<td>Community</td>
<td>98.5 MHz</td>
<td>SL10164</td>
<td>TS10003314</td>
<td>4.4</td>
<td>Batchelor</td>
</tr>
<tr>
<td>Community</td>
<td>96.5 MHz</td>
<td>SL10164</td>
<td>TS10003393</td>
<td>4.5</td>
<td>Jabiru</td>
</tr>
<tr>
<td>Community</td>
<td>96.9 MHz</td>
<td>SL10164</td>
<td>TS10003372</td>
<td>4.6</td>
<td>Lake Bennett</td>
</tr>
</tbody>
</table>

### Schedule Five

**Licence Area Plan : Darwin Radio**

**Licence Area : KATHERINE RA1**

<table>
<thead>
<tr>
<th>Service Category</th>
<th>Channel/Frequency</th>
<th>Service Licence No</th>
<th>Transmitter Specification No</th>
<th>Attach No</th>
<th>Area Served</th>
</tr>
</thead>
<tbody>
<tr>
<td>Community</td>
<td>102.9 MHz</td>
<td>SL10170</td>
<td>TS10003352</td>
<td>5.2</td>
<td>Katherine</td>
</tr>
<tr>
<td>Community</td>
<td>101.3 MHz</td>
<td>SL10171</td>
<td>TS10003353</td>
<td>5.3</td>
<td>Katherine</td>
</tr>
<tr>
<td>Community</td>
<td>90.1 MHz</td>
<td>SL10171</td>
<td>TS10003354</td>
<td>5.4</td>
<td>Tindal</td>
</tr>
</tbody>
</table>
Attachment 2.1

Licence Area - DARWIN RA1

Licence Area ID - 494

Commercial Radio Service Licence numbers: SL10167, SL10168, SL113002

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

<table>
<thead>
<tr>
<th>Area Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Darwin (SD)</td>
</tr>
<tr>
<td>Belyuen (CGC) (LGA)</td>
</tr>
<tr>
<td>Coomalie (CGC) (LGA)</td>
</tr>
<tr>
<td>Cox Peninsula (CGC) (LGA)</td>
</tr>
<tr>
<td>Katherine (T) (LGA)</td>
</tr>
<tr>
<td>Cox-Finniss (SLA)</td>
</tr>
<tr>
<td>NT CD 014119</td>
</tr>
</tbody>
</table>

Note:

Standard terminology used by the Australian Bureau of Statistics:

(LGA) = Local Government Area

(SLA) = Statistical Local Area

(CGC) = Community Government Council

(CD) = Collection District

(SD) = Statistical Division

(T) = Town
LICENSE AREA PLAN: Darwin Radio

Category: Commercial
General Area Served: Darwin (NT)
Service Licence Number: SL10167

TECHNICAL SPECIFICATION - FM Radio

Specification Number: TS1135790

Transmitter Site:
Nominal location: Broadcast Australia Tower Deloraine Rd
KNUCKEY LAGOON

Australian Map Grid: Zone Easting Northing
Reference 52 713948 8626662

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

Emission:
Frequency Band & Mode: VHF-FM
Carrier Frequency: 100.1 MHz
Polarisation: Mixed
Maximum antenna height: 120 m

Output Radiation Pattern:

<table>
<thead>
<tr>
<th>Bearing or Sector (Clockwise direction)</th>
<th>Maximum ERP</th>
</tr>
</thead>
<tbody>
<tr>
<td>0°T - 5°T</td>
<td>30 kW</td>
</tr>
<tr>
<td>5°T - 15°T</td>
<td>500 W</td>
</tr>
<tr>
<td>15°T - 360°T</td>
<td>30 kW</td>
</tr>
</tbody>
</table>

Special Conditions:
If a transmitter is sited at a location other than the nominal location, the licensee must ensure that the median field strength of the transmission at the Department of Defence Shoal Bay Receiving Station does not exceed the greater of: (a) the level that would be received if the transmitter was operating from the nominal location; or (b) a level which has been agreed in writing with the Department of Defence.
If a transmitter is sited at a location other than the nominal location, for the purposes of application of Guideline 36 of the Broadcasting Services (Technical Planning) Guidelines 2007, the maximum ERP specified is deemed to be 30 kW and omnidirectional.

If a transmitter is sited at the nominal location, the minimum level of service requirements detailed in Guideline 38 of the Broadcasting Services (Technical Planning) Guidelines 2007 are waived in the sector 5 degrees True to 15 degrees True.
LICENCE AREA PLAN :  Darwin Radio

Category : Commercial

General Area Served : Katherine (NT)

Service Licence Number : SL10167

TECHNICAL SPECIFICATION - AM Radio

Specification Number : TS10003316

Transmitter Site :-

Nominal location : Radio 8HOT AM Mast Nth Terr Bcers Site off Gorge Rd 2.5km NNE of KATHERINE

Australian Map Grid : Zone Easting Northing
Reference  53  205965  8401195

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

Emission :-

Frequency Band & Mode : MF-AM

Carrier Frequency : 765 kHz

Output Radiation Pattern :-

<table>
<thead>
<tr>
<th>Bearing or Sector (Clockwise direction)</th>
<th>Elevation</th>
<th>Maximum CMF</th>
</tr>
</thead>
<tbody>
<tr>
<td>At all angles of azimuth</td>
<td>0</td>
<td>220 V</td>
</tr>
</tbody>
</table>
Attachment 2.4

LICENCE AREA PLAN: Darwin Radio

Category: Commercial

General Area Served: Darwin (NT)

Service Licence Number: SL10168

TECHNICAL SPECIFICATION - FM Radio

Specification Number: TS1135791

Transmitter Site:"
Nominal location: Broadcast Australia Tower Deloraine Rd KNUCKEY LAGOON

Australian Map Grid: Zone Easting Northing
Reference 52 713948 8626662

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

Emission:"
Frequency Band & Mode: VHF-FM
Carrier Frequency: 104.9 MHz
Polarisation: Mixed
Maximum antenna height: 120 m

Output Radiation Pattern:"

<table>
<thead>
<tr>
<th>Bearing or Sector (Clockwise direction)</th>
<th>Maximum ERP</th>
</tr>
</thead>
<tbody>
<tr>
<td>0°T - 5°T</td>
<td>30 kW</td>
</tr>
<tr>
<td>5°T - 15°T</td>
<td>500 W</td>
</tr>
<tr>
<td>15°T - 360°T</td>
<td>30 kW</td>
</tr>
</tbody>
</table>

Special Conditions:"

If a transmitter is sited at a location other than the nominal location, the licensee must ensure that the median field strength of the transmission at the Department of Defence Shoal Bay Receiving Station does not exceed the greater of: (a) the level that would be received if the transmitter was operating from the nominal location; or (b) a level which has been agreed in writing with the Department of Defence.
If a transmitter is sited at a location other than the nominal location, for the purposes of application of Guideline 36 of the Broadcasting Services (Technical Planning) Guidelines 2007, the maximum ERP specified is deemed to be 30 kW and omnidirectional.

If a transmitter is sited at the nominal location, the minimum level of service requirements detailed in Guideline 38 of the Broadcasting Services (Technical Planning) Guidelines 2007 are waived in the sector 5 degrees True to 15 degrees True.
Attachment 2.5

LICENCE AREA PLAN: Darwin Radio

Category: Commercial
General Area Served: Katherine (NT)
Service Licence Number: SL10168

TECHNICAL SPECIFICATION - FM Radio

Specification Number: TS10003318

Transmitter Site: -
Nominal location: Broadcast Site Lot 3135 (13) Chardon Street KATHERINE
Australian Map Grid:
Reference: Zone Easting Northing
53 207259 8397943
Site Tolerance: Refer to Broadcasting Services (Technical Planning) Guidelines 2007

Emission: -
Frequency Band & Mode: VHF-FM
Carrier Frequency: 106.9 MHz
Polarisation: Mixed
Maximum antenna height: 38 m

Output Radiation Pattern: -
<table>
<thead>
<tr>
<th>Bearing or Sector (Clockwise direction)</th>
<th>Maximum ERP</th>
</tr>
</thead>
<tbody>
<tr>
<td>At all angles of azimuth</td>
<td>1 kW</td>
</tr>
</tbody>
</table>
LICENCE AREA PLAN: Darwin Radio

Category: National

General Area Served: Adelaide River (NT)

Service Licence Number: Not applicable

TECHNICAL SPECIFICATION - FM Radio

Specification Number: TS10003335

Transmitter Site:
Nominal location: Broadcast Site 1 km SE of ADELAIDE RIVER

Australian Map Grid: Zone Easting Northing
Reference 52 728395 8534687

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

Emission:
Frequency Band & Mode: VHF-FM
Carrier Frequency: 100.5 MHz
Polarisation: Mixed
Maximum antenna height: 16 m

Output Radiation Pattern:
<table>
<thead>
<tr>
<th>Bearing or Sector (Clockwise direction)</th>
<th>Maximum ERP</th>
</tr>
</thead>
<tbody>
<tr>
<td>At all angles of azimuth</td>
<td>50 W</td>
</tr>
</tbody>
</table>
LICENCE AREA PLAN: Darwin Radio

Category: National

General Area Served: Adelaide River (NT)

Service Licence Number: Not applicable

TECHNICAL SPECIFICATION - FM Radio

Specification Number: TS10003336

Transmitter Site:

Nominal location: Broadcast Site 1 km SE of ADELAIDE RIVER

Australian Map Grid: Zone Easting Northing
Reference: 52 728395 8534687

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

Emission:

Frequency Band & Mode: VHF-FM

Carrier Frequency: 98.9 MHz

Polarisation: Mixed

Maximum antenna height: 16 m

Output Radiation Pattern:

<table>
<thead>
<tr>
<th>Bearing or Sector (Clockwise direction)</th>
<th>Maximum ERP</th>
</tr>
</thead>
<tbody>
<tr>
<td>At all angles of azimuth</td>
<td>50 W</td>
</tr>
</tbody>
</table>
LICENCE AREA PLAN: Darwin Radio

Category: National
General Area Served: Batchelor (NT)
Service Licence Number: Not applicable

TECHNICAL SPECIFICATION - FM Radio
Specification Number: TS1003338

Transmitter Site:
Nominal location: Broadcast Site Mardango Crescent
Australian Map Grid: Zone Easting Northing
Reference 52 719776 8556935
Site Tolerance: Refer to Broadcasting Services (Technical Planning) Guidelines 2007

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

Output Radiation Pattern:

<table>
<thead>
<tr>
<th>Bearing or Sector (Clockwise direction)</th>
<th>Maximum ERP</th>
</tr>
</thead>
<tbody>
<tr>
<td>At all angles of azimuth</td>
<td>50 W</td>
</tr>
</tbody>
</table>
LICENCE AREA PLAN : Darwin Radio

Category : National

General Area Served : Batchelor (NT)

Service Licence Number : Not applicable

TECHNICAL SPECIFICATION - FM Radio

Specification Number : TS10003342

Transmitter Site :-
Nominal location : Broadcast Site Mardango Crescent BATCHELOR

Australian Map Grid : Reference
Zone 52 719776 8556935
Easting Northing

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

Emission :-
Frequency Band & Mode : VHF-FM
Carrier Frequency : 91.3 MHz
Polarisation : Mixed
Maximum antenna height : 10 m

Output Radiation Pattern :-

<table>
<thead>
<tr>
<th>Bearing or Sector (Clockwise direction)</th>
<th>Maximum ERP</th>
</tr>
</thead>
<tbody>
<tr>
<td>At all angles of azimuth</td>
<td>50 W</td>
</tr>
</tbody>
</table>
LICENCE AREA PLAN:  Darwin Radio

Category:  National

General Area Served:  Darwin (NT)

Service Licence Number:  Not applicable

TECHNICAL SPECIFICATION - AM Radio

Specification Number:  TS10003323

**Transmitter Site** :-

Nominal location:  Radio 8RN AM Mast  Broadcast Australia
Site  Douglas St  LUDMILLA

Australian Map Grid:  Zone  Easting  Northing
Reference  52  700940  8625700

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

**Emission** :-

Frequency Band & Mode:  MF-AM

Carrier Frequency:  657 kHz

**Output Radiation Pattern** :-

<table>
<thead>
<tr>
<th>Bearing or Sector (Clockwise direction)</th>
<th>Elevation</th>
<th>Maximum CMF</th>
</tr>
</thead>
<tbody>
<tr>
<td>At all angles of azimuth</td>
<td>0</td>
<td>450 V</td>
</tr>
</tbody>
</table>
LICENCE AREA PLAN: Darwin Radio

Category: National
General Area Served: Darwin (NT)
Service Licence Number: Not applicable

TECHNICAL SPECIFICATION - FM Radio

Specification Number: TS1135789

Transmitter Site:
Nominal location: Broadcast Australia Tower Deloraine Rd KNUCKEY LAGOON
Australian Map Grid: Zone Easting Northing
Reference 52 713948 8626662
Site Tolerance: Refer to Broadcasting Services (Technical Planning) Guidelines 2007

Emission:
Frequency Band & Mode: VHF-FM
Carrier Frequency: 107.3 MHz
Polarisation: Mixed
Maximum antenna height: 120 m

Output Radiation Pattern:

<table>
<thead>
<tr>
<th>Bearing or Sector (Clockwise direction)</th>
<th>Maximum ERP</th>
</tr>
</thead>
<tbody>
<tr>
<td>0°T - 5°T</td>
<td>30 kW</td>
</tr>
<tr>
<td>5°T - 15°T</td>
<td>500 W</td>
</tr>
<tr>
<td>15°T - 360°T</td>
<td>30 kW</td>
</tr>
</tbody>
</table>

Special Conditions:
If a transmitter is sited at a location other than the nominal location, the licensee must ensure that the median field strength of the transmission at the Department of Defence Shoal Bay Receiving Station does not exceed the greater of: (a) the level that would be received if the transmitter was operating from the nominal location; or (b) a level which has been agreed in writing with the Department of Defence.
If a transmitter is sited at a location other than the nominal location, for the purposes of application of Guideline 36 of the Broadcasting Services (Technical Planning) Guidelines 2007, the maximum ERP specified is deemed to be 30 kW and omnidirectional.

If a transmitter is sited at the nominal location, the minimum level of service requirements detailed in Guideline 38 of the Broadcasting Services (Technical Planning) Guidelines 2007 are waived in the sector 5 degrees True to 15 degrees True.
LICENCE AREA PLAN : Darwin Radio

Category : National

General Area Served : Darwin (NT)

Service Licence Number : Not applicable

TECHNICAL SPECIFICATION - FM Radio

Specification Number : TS1135788

Transmitter Site :-

Nominal location : Broadcast Australia Tower Deloraine Rd KNUCKEY LAGOON

Australian Map Grid : Zone Easting Northing
Reference 52 713948 8626662

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

Emission :-

Frequency Band & Mode : VHF-FM

Carrier Frequency : 105.7 MHz

Polarisation : Mixed

Maximum antenna height : 120 m

Output Radiation Pattern :-

<table>
<thead>
<tr>
<th>Bearing or Sector (Clockwise direction)</th>
<th>Maximum ERP</th>
</tr>
</thead>
<tbody>
<tr>
<td>0°T - 5°T</td>
<td>30 kW</td>
</tr>
<tr>
<td>5°T - 15°T</td>
<td>500 W</td>
</tr>
<tr>
<td>15°T - 360°T</td>
<td>30 kW</td>
</tr>
</tbody>
</table>

Special Conditions :-

If a transmitter is sited at a location other than the nominal location, the licensee must ensure that the median field strength of the transmission at the Department of Defence Shoal Bay Receiving Station does not exceed the greater of: (a) the level that would be received if the transmitter was operating from the nominal location; or (b) a level which has been agreed in writing with the Department of Defence.
If a transmitter is sited at a location other than the nominal location, for the purposes of application of Guideline 36 of the Broadcasting Services (Technical Planning) Guidelines 2007, the maximum ERP specified is deemed to be 30 kW and omnidirectional.

If a transmitter is sited at the nominal location, the minimum level of service requirements detailed in Guideline 38 of the Broadcasting Services (Technical Planning) Guidelines 2007 are waived in the sector 5 degrees True to 15 degrees True.
Attachment 2.13

LICENCE AREA PLAN : Darwin Radio

Category : National
General Area Served : Darwin (NT)
Service Licence Number : Not applicable

TECHNICAL SPECIFICATION - FM Radio

Specification Number : TS1135787

Transmitter Site :-
Nominal location : Broadcast Australia Tower Deloraine Rd KNUCKEY LAGOON
Australian Map Grid : Zone Easting Northing
Reference 52 713948 8626662
Site Tolerance : Refer to Broadcasting Services (Technical Planning) Guidelines 2007

Emission :-
Frequency Band & Mode : VHF-FM
Carrier Frequency : 103.3 MHz
Polarisation : Mixed
Maximum antenna height : 120 m

Output Radiation Pattern :-

<table>
<thead>
<tr>
<th>Bearing or Sector (Clockwise direction)</th>
<th>Maximum ERP</th>
</tr>
</thead>
<tbody>
<tr>
<td>0°T - 5°T</td>
<td>30 kW</td>
</tr>
<tr>
<td>5°T - 15°T</td>
<td>500 W</td>
</tr>
<tr>
<td>15°T - 360°T</td>
<td>30 kW</td>
</tr>
</tbody>
</table>

Special Conditions :-
If a transmitter is sited at a location other than the nominal location, the licensee must ensure that the median field strength of the transmission at the Department of Defence Shoal Bay Receiving Station does not exceed the greater of: (a) the level that would be received if the transmitter was operating from the nominal location; or (b) a level which has been agreed in writing with the Department of Defence.
If a transmitter is sited at a location other than the nominal location, for the purposes of application of Guideline 36 of the Broadcasting Services (Technical Planning) Guidelines 2007, the maximum ERP specified is deemed to be 30 kW and omnidirectional.

If a transmitter is sited at the nominal location, the minimum level of service requirements detailed in Guideline 38 of the Broadcasting Services (Technical Planning) Guidelines 2007 are waived in the sector 5 degrees True to 15 degrees True.
**ATTACHMENT 2.14**

**LICENCE AREA PLAN : Darwin Radio**

- Category : National
- General Area Served : Darwin (NT)
- Service Licence Number : Not applicable

**TECHNICAL SPECIFICATION - FM Radio**

- Specification Number : TS1135214

**Transmitter Site :-**

- Nominal location : Broadcast Australia Tower  Deloraine Rd KNUCKEY LAGOON

- Australian Map Grid : Zone  Easting  Northing
  - Reference
  - 52  713948  8626662

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

**Emission :-**

- Frequency Band & Mode : VHF-FM
- Carrier Frequency : 100.9 MHz
- Polarisation : Mixed
- Maximum antenna height : 120 m

**Output Radiation Pattern :-**

<table>
<thead>
<tr>
<th>Bearing or Sector (Clockwise direction)</th>
<th>Maximum ERP</th>
</tr>
</thead>
<tbody>
<tr>
<td>0°T - 5°T</td>
<td>30 kW</td>
</tr>
<tr>
<td>5°T - 15°T</td>
<td>500 W</td>
</tr>
<tr>
<td>15°T - 360°T</td>
<td>30 kW</td>
</tr>
</tbody>
</table>

**Special Conditions :-**

If a transmitter is sited at a location other than the nominal location, the licensee must ensure that the median field strength of the transmission at the Department of Defence Shoal Bay Receiving Station does not exceed the greater of: (a) the level that would be received if the transmitter was operating from the nominal location; or (b) a level which has been agreed in writing with the Department of Defence.
If a transmitter is sited at a location other than the nominal location, for the purposes of application of Guideline 36 of the Broadcasting Services (Technical Planning) Guidelines 2007, the maximum ERP specified is deemed to be 30 kW and omnidirectional.

If a transmitter is sited at the nominal location, the minimum level of service requirements detailed in Guideline 38 of the Broadcasting Services (Technical Planning) Guidelines 2007 are waived in the sector 5 degrees True to 15 degrees True.
LICENCE AREA PLAN : Darwin Radio

Category : National
General Area Served : Katherine (NT)
Service Licence Number : Not applicable

TECHNICAL SPECIFICATION - AM Radio

Specification Number : TS10003360

Transmitter Site :-
Nominal location : Radio 8RN AM Mast Broadcast Australia
Site Stuart Hwy 12km NW of KATHERINE

Australian Map Grid : Zone 53
Reference Easting 195809
Northing 8406436

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

Emission :-
Frequency Band & Mode : MF-AM
Carrier Frequency : 639 kHz

Output Radiation Pattern :-

<table>
<thead>
<tr>
<th>Bearing or Sector (Clockwise direction)</th>
<th>Elevation</th>
<th>Maximum CMF</th>
</tr>
</thead>
<tbody>
<tr>
<td>At all angles of azimuth</td>
<td>0</td>
<td>450 V</td>
</tr>
</tbody>
</table>
LICENCE AREA PLAN: Darwin Radio

Category: National
General Area Served: Katherine (NT)
Service Licence Number: Not applicable

TECHNICAL SPECIFICATION - FM Radio

Specification Number: TS10003359

Transmitter Site:
Nominal location: Broadcast Site Lot 3135 (13) Chardon Street KATHERINE
Australian Map Grid: Zone Easting Northing
Reference 53 207259 8397943
Site Tolerance: Refer to Broadcasting Services (Technical Planning) Guidelines 2007

Emission:
Frequency Band & Mode: VHF-FM
Carrier Frequency: 106.1 MHz
Polarisation: Mixed
Maximum antenna height: 42 m

Output Radiation Pattern:

<table>
<thead>
<tr>
<th>Bearing or Sector (Clockwise direction)</th>
<th>Maximum ERP</th>
</tr>
</thead>
<tbody>
<tr>
<td>At all angles of azimuth</td>
<td>1 kW</td>
</tr>
</tbody>
</table>
LICENCE AREA PLAN: Darwin Radio

Category: National
General Area Served: Darwin (NT)
Service Licence Number: Not applicable

TECHNICAL SPECIFICATION - FM Radio

Specification Number: TS1135073

Transmitter Site:
Nominal location: Broadcast Australia Tower Deloraine Rd
KNUCKEY LAGOON
Australian Map Grid: Zone Easting Northing
Reference 52 713948 8626662
Site Tolerance: Refer to Broadcasting Services
(Technical Planning) Guidelines 2007

Emission:
Frequency Band & Mode: VHF-FM
Carrier Frequency: 102.5 MHz
Polarisation: Mixed
Maximum antenna height: 120 m

Output Radiation Pattern:

<table>
<thead>
<tr>
<th>Bearing or Sector (Clockwise direction)</th>
<th>Maximum ERP</th>
</tr>
</thead>
<tbody>
<tr>
<td>0°T - 5°T</td>
<td>30 kW</td>
</tr>
<tr>
<td>5°T - 15°T</td>
<td>500 W</td>
</tr>
<tr>
<td>15°T - 360°T</td>
<td>30 kW</td>
</tr>
</tbody>
</table>

Special Conditions:
If a transmitter is sited at a location other than the nominal location, the licensee must ensure that the median field strength of the transmission at the Department of Defence Shoal Bay Receiving Station does not exceed the greater of: (a) the level that would be received if the transmitter was operating from the nominal location; or (b) a level which has been agreed in writing with the Department of Defence.
If a transmitter is sited at a location other than the nominal location, for the purposes of application of Guideline 36 of the Broadcasting Services (Technical Planning) Guidelines 2007, the maximum ERP specified is deemed to be 30 kW and omnidirectional.

If a transmitter is sited at the nominal location, the minimum level of service requirements detailed in Guideline 38 of the Broadcasting Services (Technical Planning) Guidelines 2007 are waived in the sector 5 degrees True to 15 degrees True.
LICENCE AREA PLAN : Darwin Radio

Category : Open Narrowcasting

General Area Served : Darwin (NT)

Service Licence Number : Not applicable

TECHNICAL SPECIFICATION - AM Radio

Specification Number : TS10003408

Transmitter Site :-

Nominal location : Radio 8RN AM Mast Broadcast Australia
Site Douglas St LUDMILLA

Australian Map Grid : Zone Easting Northing
Reference 52 700940 8625700

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

Emission :-

Frequency Band & Mode : MF-AM

Carrier Frequency : 1242 kHz

Output Radiation Pattern :-

<table>
<thead>
<tr>
<th>Bearing or Sector (Clockwise direction)</th>
<th>Elevation</th>
<th>Maximum CMF</th>
</tr>
</thead>
<tbody>
<tr>
<td>At all angles of azimuth</td>
<td>0</td>
<td>450 V</td>
</tr>
</tbody>
</table>

Special Conditions :-

The coverage area of this transmission is defined as that area within a radius of 35 kilometres measured from a point with the following Australian Map Grid co-ordinates: Zone: 52, Easting: 700900, Northing: 8625700. This point is not the same as the transmitter site nominal location.
Attachment 2.19

LICENCE AREA PLAN: Darwin Radio

Category: Open Narrowcasting

General Area Served: Darwin City (NT)

Service Licence Number: Not applicable

TECHNICAL SPECIFICATION - FM Radio

Specification Number: TS10003384

Transmitter Site:

Nominal location: Telstra Comms Site Blake Street DARWIN

Australian Map Grid: Zone Easting Northing
Reference 52 699497 8623000

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

Emission:

Frequency Band & Mode: VHF-FM

Carrier Frequency: 92.3 MHz

Polarisation: Mixed

Maximum antenna height: 80 m

Output Radiation Pattern:

<table>
<thead>
<tr>
<th>Bearing or Sector (Clockwise direction)</th>
<th>Maximum ERP</th>
</tr>
</thead>
<tbody>
<tr>
<td>At all angles of azimuth</td>
<td>100 W</td>
</tr>
</tbody>
</table>

Special Conditions:

The coverage area of this transmission is defined as that area within a radius of 15 kilometres measured from a point with the following Australian Map Grid coordinates: Zone: 52, Easting: 699500, Northing: 8623000. This point is not the same as the transmitter site nominal location.
LICENCE AREA PLAN : Darwin Radio
Category : Open Narrowcasting
General Area Served : Darwin East (NT)
Service Licence Number : Not applicable

TECHNICAL SPECIFICATION - FM Radio
Specification Number : TS1003385

Transmitter Site :-
Nominal location : Water Tower Woolnough Place
PALMERSTON

Australian Map Grid : Zone Easting Northing
Reference 52 715500 8619300

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

Emission :-
Frequency Band & Mode : VHF-FM
Carrier Frequency : 90.7 MHz
Polarisation : Mixed
Maximum antenna height : 42 m

Output Radiation Pattern :-

<table>
<thead>
<tr>
<th>Bearing or Sector (Clockwise direction)</th>
<th>Maximum ERP</th>
</tr>
</thead>
<tbody>
<tr>
<td>At all angles of azimuth</td>
<td>100 W</td>
</tr>
</tbody>
</table>

Special Conditions :-
The coverage area of this transmission is defined as that area within a radius of 10 kilometres measured from a point with the following Australian Map Grid co-ordinates: Zone: 52, Easting: 715500, Northing: 8619300. This point is the same as the transmitter site nominal location.
LICENCE AREA PLAN : Darwin Radio
Category : Open Narrowcasting
General Area Served : Darwin North (NT)
Service Licence Number : Not applicable

TECHNICAL SPECIFICATION - FM Radio
Specification Number : TS10003386

Transmitter Site :-
Nominal location : Radio Station 8TOP-FM Dripstone Road CASUARINA
Australian Map Grid : Zone Easting Northing
Reference 52 702800 8631200
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 : 46 m

Output Radiation Pattern :-
<table>
<thead>
<tr>
<th>Bearing or Sector (Clockwise direction)</th>
<th>Maximum ERP</th>
</tr>
</thead>
<tbody>
<tr>
<td>At all angles of azimuth</td>
<td>100 W</td>
</tr>
</tbody>
</table>

Special Conditions :-
The coverage area of this transmission is defined as that area within a radius of 11 kilometres measured from a point with the following Australian Map Grid co-ordinates: Zone: 52, Easting: 702800, Northing: 8631200. This point is the same as the transmitter site nominal location.
LICENCE AREA PLAN : Darwin Radio

Category : Open Narrowcasting

General Area Served : Katherine (NT)

Service Licence Number : Not applicable

TECHNICAL SPECIFICATION - FM Radio

Specification Number : TS10003409

Transmitter Site :-
Nominal location : Telstra Repeater 8200 Lot 582 Bicentennial Road KATHERINE

Australian Map Grid : Zone Easting Northing
Reference 53 206550 8398130

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

Emission :-
Frequency Band & Mode : VHF-FM
Carrier Frequency : 103.7 MHz
Polarisation : Mixed
Maximum antenna height : 38 m

Output Radiation Pattern :-

<table>
<thead>
<tr>
<th>Bearing or Sector (Clockwise direction)</th>
<th>Maximum ERP</th>
</tr>
</thead>
<tbody>
<tr>
<td>At all angles of azimuth</td>
<td>1 kW</td>
</tr>
</tbody>
</table>

Special Conditions :-
The coverage area of this transmission is defined as that area within a radius of 25 kilometres measured from a point with the following Australian Map Grid co-ordinates: Zone: 53, Easting: 206500, Northing: 8398100. This point is not the same as the transmitter site nominal location.
LICENCE AREA PLAN : Darwin Radio

Category : Open Narrowcasting

General Area Served : Katherine (NT)

Service Licence Number : Not applicable

TECHNICAL SPECIFICATION - FM Radio

Specification Number : TS10003430

Transmitter Site :-

Nominal location : Telstra Repeater 8200 Lot 582 Bicentennial Road KATHERINE

Australian Map Grid : Zone Easting Northing
Reference 53 206550 8398130

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

Emission :-

Frequency Band & Mode : VHF-FM

Carrier Frequency : 96.5 MHz

Polarisation : Mixed

Maximum antenna height : 38 m

Output Radiation Pattern :-

<table>
<thead>
<tr>
<th>Bearing or Sector (Clockwise direction)</th>
<th>Maximum ERP</th>
</tr>
</thead>
<tbody>
<tr>
<td>At all angles of azimuth</td>
<td>1 kW</td>
</tr>
</tbody>
</table>

Special Conditions :-

The coverage area of this transmission is defined as that area within a radius of 17 kilometres measured from a point with the following Australian Map Grid co-ordinates: Zone: 53, Easting: 206500, Northing: 8398100. This point is the same as the transmitter site nominal location.
LICENCE AREA PLAN: Darwin Radio

Category: National

General Area Served: Katherine (NT)

Service Licence Number: Not applicable

TECHNICAL SPECIFICATION - FM Radio

Specification Number: TS1130995

Transmitter Site:
Nominal location: Broadcast Site Lot 3135 (13) Chardon Street KATHERINE

Australian Map Grid:
Reference Zone Easting Northing
53 207259 8397943

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

Emission:
Frequency Band & Mode: VHF-FM

Carrier Frequency: 105.3 MHz

Polarisation: Mixed

Maximum antenna height: 42 m

Output Radiation Pattern:

<table>
<thead>
<tr>
<th>Bearing or Sector (Clockwise direction)</th>
<th>Maximum ERP</th>
</tr>
</thead>
<tbody>
<tr>
<td>At all angles of azimuth</td>
<td>1 kW</td>
</tr>
</tbody>
</table>
LICENCE AREA PLAN : Darwin Radio

Category : Community

General Area Served : Darwin (NT)

Service Licence Number : SL1130002

TECHNICAL SPECIFICATION - FM Radio

Specification Number : TS1135793

Transmitter Site :-

Nominal location : Broadcast Australia Tower Deloraine Rd KNUCKEY LAGOON

Australian Map Grid : Zone Easting Northing
Reference 52 713948 8626662

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

Emission :-

Frequency Band & Mode : VHF-FM

Carrier Frequency : 101.7 MHz

Polarisation : Mixed

Maximum antenna height : 120 m

Output Radiation Pattern :-

<table>
<thead>
<tr>
<th>Bearing or Sector (Clockwise direction)</th>
<th>Maximum ERP</th>
</tr>
</thead>
<tbody>
<tr>
<td>0°T - 5°T</td>
<td>30 kW</td>
</tr>
<tr>
<td>5°T - 15°T</td>
<td>500 W</td>
</tr>
<tr>
<td>15°T - 360°T</td>
<td>30 kW</td>
</tr>
</tbody>
</table>

Special Conditions :-

If a transmitter is sited at a location other than the nominal location, the licensee must ensure that the median field strength of the transmission at the Department of Defence Shoal Bay Receiving Station does not exceed the greater of: (a) the level that would be received if the transmitter was operating from the nominal location; or (b) a level which has been agreed in writing with the Department of Defence.
If a transmitter is sited at a location other than the nominal location, for the purposes of application of Guideline 36 of the Broadcasting Services (Technical Planning) Guidelines 2007, the maximum ERP specified is deemed to be 30 kW and omnidirectional.

If a transmitter is sited at the nominal location, the minimum level of service requirements detailed in Guideline 38 of the Broadcasting Services (Technical Planning) Guidelines 2007 are waived in the sector 5 degrees True to 15 degrees True.
LICENCE AREA PLAN: Darwin Radio

Category: Commercial

General Area Served: Adelaide River (NT)

Service Licence Number: SL10167

TECHNICAL SPECIFICATION - FM Radio

Specification Number: TS1136890

Transmitter Site:

Nominal location: Broadcast / Comms Tower Broadcast Australia Site 208 Dorat Rd 1 km SSE of ADELAIDE RIVER

Australian Map Grid: Zone Easting Northing Reference 52 728407 8534696

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

Emission:

Frequency Band & Mode: VHF-FM

Carrier Frequency: 102.1 MHz

Polarisation: Mixed

Maximum antenna height: 30 m

Output Radiation Pattern:

<table>
<thead>
<tr>
<th>Bearing or Sector (Clockwise direction)</th>
<th>Maximum ERP</th>
</tr>
</thead>
<tbody>
<tr>
<td>At all angles of azimuth</td>
<td>50 W</td>
</tr>
</tbody>
</table>
LICENCE AREA PLAN: Darwin Radio

Category: Commercial

General Area Served: Adelaide River (NT)

Service Licence Number: SL10168

TECHNICAL SPECIFICATION - FM Radio

Specification Number: TS1136891

Transmitter Site:
Nominal location: Broadcast / Comms Tower Broadcast Australia Site 208 Dorat Rd 1 km SSE of ADELAIDE RIVER

Australian Map Grid: Zone Easting Northing
Reference 52 728407 8534696

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

Emission:
Frequency Band & Mode: VHF-FM
Carrier Frequency: 98.1 MHz
Polarisation: Mixed
Maximum antenna height: 30 m

Output Radiation Pattern:

<table>
<thead>
<tr>
<th>Bearing or Sector (Clockwise direction)</th>
<th>Maximum ERP</th>
</tr>
</thead>
<tbody>
<tr>
<td>At all angles of azimuth</td>
<td>50 W</td>
</tr>
</tbody>
</table>


Licence Area - DARWIN RA2
Licence Area ID - 497
Community Radio Service Licence numbers: SL10165, SL10166
The licence area, in terms of areas defined by the Australian Bureau of Statistics at the Census of 8 August 2006, is:

<table>
<thead>
<tr>
<th>Area Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Darwin (SD)</td>
</tr>
<tr>
<td>Belyuen (CGC) (LGA)</td>
</tr>
<tr>
<td>Cox Peninsula (CGC) (LGA)</td>
</tr>
<tr>
<td>NT CD 014304</td>
</tr>
</tbody>
</table>

Note:
Standard terminology used by the Australian Bureau of Statistics:

(LGA) = Local Government Area
(CGC) = Community Government Council
(CD) = Collection District
(SD) = Statistical Division
LICENCE AREA PLAN : Darwin Radio

Category : Community
General Area Served : Darwin (NT)
Service Licence Number : SL10165

TECHNICAL SPECIFICATION - FM Radio
Specification Number : TS1136814

Transmitter Site :-
Nominal location : Broadcast / Comms Mast Broadcast
Australia Site Deloraine Rd KNUCKEY LAGOON

Australian Map Grid : Zone Easting Northing
Reference 52 713948 8626662
Site Tolerance : Refer to Broadcasting Services (Technical Planning) Guidelines 2007

Emission :-
Frequency Band & Mode VHF-FM
Carrier Frequency : 97.7 MHz
Polarisation Mixed
Maximum antenna height 120 m

Output Radiation Pattern :-

<table>
<thead>
<tr>
<th>Bearing or Sector (Clockwise direction)</th>
<th>Maximum ERP</th>
</tr>
</thead>
<tbody>
<tr>
<td>0°T - 5°T</td>
<td>30 kW</td>
</tr>
<tr>
<td>5°T - 15°T</td>
<td>500 W</td>
</tr>
<tr>
<td>15°T - 360°T</td>
<td>30 kW</td>
</tr>
</tbody>
</table>

Special Conditions :-
Proposed operation at a transmitter site other than at the nominal location must result in field strength levels at the Defence Shoal Bay Receiving Station either (1) not exceeding those which would result from operation at the nominal location or (2) as proven by established operation not to result in interference or (3) as agreed in writing with Defence.
Proposed operation at a transmitter site other than at the nominal location will be assessed against Guideline 36 of the Broadcasting Services (Technical Planning) Guidelines 2007 as if the radiation pattern at the nominal location was a maximum of 30 kW ERP and omnidirectional.

The minimum level of service requirements detailed in Guideline 38 of the Broadcasting Services (Technical Planning) Guidelines 2007 is waived in the sector 5 degrees True to 15 degrees True for operation from the nominal location.
LICENCE AREA PLAN :  Darwin Radio

Category :  Community

General Area Served :  Darwin (NT)

Service Licence Number :  SL10166

TECHNICAL SPECIFICATION - FM Radio

Specification Number :  TS1135792

**Transmitter Site :-**

Nominal location :  Broadcast Australia Tower  Deloraine Rd

KNUCKEY LAGOON

Australian Map Grid :  Zone  Easting  Northing

Reference  52  713948  8626662

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

**Emission :-**

Frequency Band & Mode :  VHF-FM

Carrier Frequency :  94.5 MHz

Polarisation :  Mixed

Maximum antenna height :  120 m

**Output Radiation Pattern :-**

<table>
<thead>
<tr>
<th>Bearing or Sector (Clockwise direction)</th>
<th>Maximum ERP</th>
</tr>
</thead>
<tbody>
<tr>
<td>0°T - 5°T</td>
<td>30 kW</td>
</tr>
<tr>
<td>5°T - 15°T</td>
<td>500 W</td>
</tr>
<tr>
<td>15°T - 360°T</td>
<td>30 kW</td>
</tr>
</tbody>
</table>

**Special Conditions :-**

If a transmitter is sited at a location other than the nominal location, the licensee must ensure that the median field strength of the transmission at the Department of Defence Shoal Bay Receiving Station does not exceed the greater of: (a) the level that would be received if the transmitter was operating from the nominal location; or (b) a level which has been agreed in writing with the Department of Defence.
If a transmitter is sited at a location other than the nominal location, for the purposes of application of Guideline 36 of the Broadcasting Services (Technical Planning) Guidelines 2007, the maximum ERP specified is deemed to be 30 kW and omnidirectional.

If a transmitter is sited at the nominal location, the minimum level of service requirements detailed in Guideline 38 of the Broadcasting Services (Technical Planning) Guidelines 2007 are waived in the sector 5 degrees True to 15 degrees True.
Attachment 4.1

License Area - DARWIN RA3
License Area ID - 498

Community Radio Service Licence numbers: SL10164

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

<table>
<thead>
<tr>
<th>Area Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Darwin (SD)</td>
</tr>
<tr>
<td>Belyuen (CGC) (LGA)</td>
</tr>
<tr>
<td>Coomalie (CGC) (LGA)</td>
</tr>
<tr>
<td>Cox Peninsula (CGC) (LGA)</td>
</tr>
<tr>
<td>Jabiru (T) (LGA)</td>
</tr>
<tr>
<td>NT CD 014304</td>
</tr>
</tbody>
</table>

Note:
Standard terminology used by the Australian Bureau of Statistics:

(LGA) = Local Government Area
(CG) = Community Government Council
(CD) = Collection District
(SD) = Statistical Division
(T) = Town
Attachment 4.2

LICENCE AREA PLAN: Darwin Radio

Category: Community

General Area Served: Darwin (NT)

Service Licence Number: SL10164

TECHNICAL SPECIFICATION - FM Radio

Specification Number: TS1136820

Transmitter Site:

Nominal location: Broadcast / Comms Mast Broadcast Australia Site Deloraine Rd KNUCKEY LAGOON

Australian Map Grid: Zone Easting Northing Reference 52 713948 8626662

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

Emission:

Frequency Band & Mode: VHF-FM

Carrier Frequency: 104.1 MHz

Polarisation: Mixed

Maximum antenna height: 120 m

Output Radiation Pattern:

<table>
<thead>
<tr>
<th>Bearing or Sector (Clockwise direction)</th>
<th>Maximum ERP</th>
</tr>
</thead>
<tbody>
<tr>
<td>0°T - 5°T</td>
<td>30 kW</td>
</tr>
<tr>
<td>5°T - 15°T</td>
<td>500 W</td>
</tr>
<tr>
<td>15°T - 360°T</td>
<td>30 kW</td>
</tr>
</tbody>
</table>

Special Conditions:

Proposed operation at a transmitter site other than at the nominal location must result in field strength levels at the Defence Shoal Bay Receiving Station either (1) not exceeding those which would result from operation at the nominal location or (2) as proven by established operation not to result in interference or (3) as agreed in writing with Defence.
Proposed operation at a transmitter site other than at the nominal location will be assessed against Guideline 36 of the Broadcasting Services (Technical Planning) Guidelines 2007 as if the radiation pattern at the nominal location was a maximum of 30 kW ERP and omnidirectional.

The minimum level of service requirements detailed in Guideline 38 of the Broadcasting Services (Technical Planning) Guidelines 2007 is waived in the sector 5 degrees True to 15 degrees True for operation from the nominal location.
**LICENCE AREA PLAN :** Darwin Radio  
**Category :** Community  
**General Area Served :** Adelaide River (NT)  
**Service Licence Number :** SL10164  

**TECHNICAL SPECIFICATION - FM Radio**  
**Specification Number :** TS10003313  

**Transmitter Site :-**  
**Nominal location :** Broadcast Site 1 km SE of ADELAIDE RIVER  
**Australian Map Grid :** Zone 52  Easting 728395  Northing 8534687  
**Site Tolerance :** Refer to *Broadcasting Services (Technical Planning) Guidelines 2007*  

**Emission :-**  
**Frequency Band & Mode :** VHF-FM  
**Carrier Frequency :** 99.7 MHz  
**Polarisation :** Mixed  
**Maximum antenna height :** 17 m  

**Output Radiation Pattern :-**  
<table>
<thead>
<tr>
<th>Bearing or Sector (Clockwise direction)</th>
<th>Maximum ERP</th>
</tr>
</thead>
<tbody>
<tr>
<td>At all angles of azimuth</td>
<td>50 W</td>
</tr>
</tbody>
</table>
LICENCE AREA PLAN: Darwin Radio

Category: Community

General Area Served: Batchelor (NT)

Service Licence Number: SL10164

TECHNICAL SPECIFICATION - FM Radio

Specification Number: TS10003314

Transmitter Site:
Nominal location: Broadcast Site Mardango Crescent BATCHELOR

Australian Map Grid: Zone Easting Northing
Reference: 52 719776 8556935

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

Emission:
Frequency Band & Mode: VHF-FM
Carrier Frequency: 98.5 MHz
Polarisation: Mixed
Maximum antenna height: 10 m

Output Radiation Pattern:

<table>
<thead>
<tr>
<th>Bearing or Sector (Clockwise direction)</th>
<th>Maximum ERP</th>
</tr>
</thead>
<tbody>
<tr>
<td>At all angles of azimuth</td>
<td>50 W</td>
</tr>
</tbody>
</table>
LICENCE AREA PLAN : Darwin Radio

Category : Community

General Area Served : Jabiru (NT)

Service Licence Number : SL10164

TECHNICAL SPECIFICATION - FM Radio

Specification Number : TS10003393

Transmitter Site :-
Nominal location : Telstra Repeater Site  Gregory Place JABIRU

Australian Map Grid : Zone  Easting  Northing
Reference  53  264686  8598275

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

Emission :-
Frequency Band & Mode : VHF-FM

Carrier Frequency : 96.5 MHz

Polarisation : Mixed

Maximum antenna height : 30 m

Output Radiation Pattern :-
<table>
<thead>
<tr>
<th>Bearing or Sector (Clockwise direction)</th>
<th>Maximum ERP</th>
</tr>
</thead>
<tbody>
<tr>
<td>At all angles of azimuth</td>
<td>50 W</td>
</tr>
</tbody>
</table>
LICENCE AREA PLAN : Darwin Radio

Category : Community

General Area Served : Lake Bennett (NT)

Service Licence Number : SL10164

TECHNICAL SPECIFICATION - FM Radio

Specification Number : TS10003372

Transmitter Site :-

Nominal location : Broadcast Site 13 km NE of BATCHELOR

Australian Map Grid : Zone Easting Northing
Reference 52 732603 8563263

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

Emission :-

Frequency Band & Mode : VHF-FM

Carrier Frequency : 96.9 MHz

Polarisation : Mixed

Maximum antenna height : 10 m

Output Radiation Pattern :-

<table>
<thead>
<tr>
<th>Bearing or Sector (Clockwise direction)</th>
<th>Maximum ERP</th>
</tr>
</thead>
<tbody>
<tr>
<td>At all angles of azimuth</td>
<td>50 W</td>
</tr>
</tbody>
</table>
Attachment 5.1

Licence Area - KATHERINE RA1
Licence Area ID - 464

Community Radio Service Licence numbers: SL10170, SL10171

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

<table>
<thead>
<tr>
<th>Area Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Katherine (T) (LGA)</td>
</tr>
<tr>
<td>NT CD 014119</td>
</tr>
</tbody>
</table>

Note:

Standard terminology used by the Australian Bureau of Statistics:

\[(LGA) = \text{Local Government Area}\]
\[(CD) = \text{Collection District}\]
\[(T) = \text{Town}\]
LICENCE AREA PLAN : Darwin Radio

Category : Community

General Area Served : Katherine (NT)

Service Licence Number : SL10170

TECHNICAL SPECIFICATION - FM Radio

Specification Number : TS10003352

Transmitter Site :-
Nominal location : Broadcast Site Lot 3135 (13) Chardon Street KATHERINE

Australian Map Grid : Zone Easting Northing
Reference 53 207259 8397943

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

Emission :-
Frequency Band & Mode : VHF-FM

Carrier Frequency : 102.9 MHz

Polarisation : Mixed

Maximum antenna height : 38 m

Output Radiation Pattern :-

<table>
<thead>
<tr>
<th>Bearing or Sector (Clockwise direction)</th>
<th>Maximum ERP</th>
</tr>
</thead>
<tbody>
<tr>
<td>At all angles of azimuth</td>
<td>1 kW</td>
</tr>
</tbody>
</table>
**LICENCE AREA PLAN :** Darwin Radio  
**Category :** Community  
**General Area Served :** Katherine (NT)  
**Service Licence Number :** SL10171  

**TECHNICAL SPECIFICATION - FM Radio**  
**Specification Number :** TS10003353  

**Transmitter Site :-**  
**Nominal location :** 12 MI Water Tank  KATHERINE  
**Australian Map Grid :** Zone  Easting  Northing  
**Reference**  
<table>
<thead>
<tr>
<th>Zone</th>
<th>Easting</th>
<th>Northing</th>
</tr>
</thead>
<tbody>
<tr>
<td>53</td>
<td>208316</td>
<td>8401130</td>
</tr>
</tbody>
</table>

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

**Emission :-**  
**Frequency Band & Mode :** VHF-FM  
**Carrier Frequency :** 101.3 MHz  
**Polarisation :** Vertical  
**Maximum antenna height :** 30 m  

**Output Radiation Pattern :-**  
<table>
<thead>
<tr>
<th>Bearing or Sector (Clockwise direction)</th>
<th>Maximum ERP</th>
</tr>
</thead>
<tbody>
<tr>
<td>At all angles of azimuth</td>
<td>1 kW</td>
</tr>
</tbody>
</table>
LICENCE AREA PLAN: Darwin Radio

Category: Community

General Area Served: Tindal (NT)

Service Licence Number: SL10171

TECHNICAL SPECIFICATION - FM Radio

Specification Number: TS10003354

Transmitter Site:
Nominal location: Comms Centre RAAF Base TINDAL

Australian Map Grid: Zone Easting Northing Reference 53 218800 8394150

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

Emission:
Frequency Band & Mode: VHF-FM
Carrier Frequency: 90.1 MHz
Polarisation: Vertical
Maximum antenna height: 50 m

Output Radiation Pattern:

<table>
<thead>
<tr>
<th>Bearing or Sector (Clockwise direction)</th>
<th>Maximum ERP</th>
</tr>
</thead>
<tbody>
<tr>
<td>At all angles of azimuth</td>
<td>200 W</td>
</tr>
</tbody>
</table>