LICENCE AREA PLAN

Riverland (Television and Radio)

Made under the Broadcasting Services Act 1992

This compilation was prepared by the Australian Communications and Media Authority on 19 June 2008 taking into account amendments up to Licence Area Plan – Riverland (Television and Radio) – Variation No. 1 of 2008.
RIVERLAND

DETERMINATION

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

(2) Two national television broadcasting services and two commercial television broadcasting service are to be available in the Riverland area described at Attachment 1.1 to this Determination 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 One and Attachments 1.2, 1.3, 1.6, 1.8 – 1.10, 1.15 and 1.17 – 1.23 to this Determination.

(3) Five national radio broadcasting services, two commercial radio broadcasting services, two open narrowcasting radio broadcasting services and one community radio broadcasting service are to be available in the Riverland area described at Attachment 2.1 to this Determination 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 - 2.13 to this Determination.

(4) A reference in this determination to a schedule or an attachment includes a reference to a schedule or attachment as amended from time to time.

(Determined by the Australian Broadcasting Authority on 22 August 1996)
Schedule One


<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>30</td>
<td>N/A</td>
<td>TS10003267</td>
<td>1.2</td>
<td>Renmark/Loxton</td>
</tr>
<tr>
<td>National</td>
<td>53</td>
<td>N/A</td>
<td>TS10003299</td>
<td>1.3</td>
<td>Waikerie</td>
</tr>
<tr>
<td>National</td>
<td>3</td>
<td>N/A</td>
<td>TS10003265</td>
<td>1.6</td>
<td>Renmark/Loxton</td>
</tr>
<tr>
<td>National</td>
<td>56</td>
<td>N/A</td>
<td>TS10003302</td>
<td>1.8</td>
<td>Waikerie</td>
</tr>
<tr>
<td>National</td>
<td>56</td>
<td>N/A</td>
<td>TS10003308</td>
<td>1.9</td>
<td>Pinnaroo</td>
</tr>
<tr>
<td>National</td>
<td>57</td>
<td>N/A</td>
<td>TS10003340</td>
<td>1.10</td>
<td>Lameroo</td>
</tr>
<tr>
<td>Commercial</td>
<td>5A, 59, 59, 60</td>
<td>SL10174, SL10174, SL10174</td>
<td>TS10003266, TS10003304, TS10003319</td>
<td>1.15, 1.17, 1.18</td>
<td>Renmark/Loxton, Waikerie, Pinnaroo</td>
</tr>
<tr>
<td>Commercial</td>
<td>34, 62, 62, 63</td>
<td>SL1150796, SL1150796, SL1150796</td>
<td>TS10010545, TS10003310, TS10003320</td>
<td>1.20, 1.21, 1.22</td>
<td>Renmark/Loxton, Waikerie, Pinnaroo</td>
</tr>
<tr>
<td></td>
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</tr>
</tbody>
</table>
## Schedule Two

**Licence Area Plan : Riverland Television and Radio – Variation – June 2008**

**Licence Area : RIVERLAND 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>105.1 MHz</td>
<td>N/A</td>
<td>TS10003434</td>
<td>2.2</td>
<td>Renmark/Loxton</td>
</tr>
<tr>
<td>National</td>
<td>101.9 MHz</td>
<td>N/A</td>
<td>TS10003435</td>
<td>2.3</td>
<td>Renmark/Loxton</td>
</tr>
<tr>
<td>National</td>
<td>1305 kHz</td>
<td>N/A</td>
<td>TS10003444</td>
<td>2.4</td>
<td>Renmark/Loxton</td>
</tr>
<tr>
<td>National</td>
<td>1062 kHz</td>
<td>N/A</td>
<td>TS10003264</td>
<td>2.5</td>
<td>Renmark/Loxton</td>
</tr>
<tr>
<td>National</td>
<td>93.9 MHz</td>
<td>N/A</td>
<td>TS1131022</td>
<td>2.11</td>
<td>Renmark/Loxton</td>
</tr>
<tr>
<td>Commercial</td>
<td>801 kHz</td>
<td>SL10178</td>
<td>TS10003449</td>
<td>2.6</td>
<td>Renmark/Loxton</td>
</tr>
<tr>
<td>Commercial</td>
<td>93.1 MHz; 97.1 MHz</td>
<td>SL10175; SL10175</td>
<td>TS10003436; TS10003588</td>
<td>2.7; 2.8</td>
<td>Renmark/Loxton; Morgan</td>
</tr>
<tr>
<td>Community</td>
<td>100.7 MHz; 96.3 MHz</td>
<td>SL10177; SL10177</td>
<td>TS1130967; TS10003589</td>
<td>2.12; 2.13</td>
<td>Renmark/Loxton; Morgan</td>
</tr>
<tr>
<td>Open Narrowcasting</td>
<td>95.5 MHz</td>
<td>N/A</td>
<td>TS10003261</td>
<td>2.9</td>
<td>Renmark/Loxton</td>
</tr>
<tr>
<td>Open Narrowcasting</td>
<td>1557 kHz</td>
<td>N/A</td>
<td>TS10003579</td>
<td>2.10</td>
<td>Renmark/Loxton</td>
</tr>
</tbody>
</table>
Attachment 1.1

Licence Area - RIVERLAND TV1

Licence Area ID - 289

Commercial TV Service Licence numbers: SL10174, SL1150796

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

<table>
<thead>
<tr>
<th>Area Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Berri and Barmera (DC) (LGA)</td>
</tr>
<tr>
<td>Renmark Paringa (DC) (LGA)</td>
</tr>
<tr>
<td>Southern Mallee (DC) (LGA)</td>
</tr>
<tr>
<td>Loxton Waikerie (DC) - East (SLA)</td>
</tr>
<tr>
<td>SA CD 040401</td>
</tr>
<tr>
<td>SA CD 040402</td>
</tr>
<tr>
<td>SA CD 040403</td>
</tr>
<tr>
<td>SA CD 040404</td>
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</tr>
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<td>SA CD 040406</td>
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<tr>
<td>SA CD 040501</td>
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<td>SA CD 040502</td>
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<tr>
<td>SA CD 040504</td>
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<td>SA CD 040505</td>
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<tr>
<td>SA CD 040506</td>
</tr>
<tr>
<td>SA CD 040508</td>
</tr>
<tr>
<td>SA CD 040509</td>
</tr>
<tr>
<td>SA CD 040510</td>
</tr>
<tr>
<td>SA CD 040511</td>
</tr>
<tr>
<td>SA CD 040701</td>
</tr>
</tbody>
</table>
Note:
Standard terminology used by the Australian Bureau of Statistics:

(LGA)  =  Local Government Area
(SLA)  =  Statistical Local Area
(CD)   =  Collection District
(DC)   =  District Council
LICENCE AREA PLAN : Riverland

Category : National

General Area Served : Renmark/Loxton (SA)

Service Licence Number : Not applicable

TECHNICAL SPECIFICATION - Television

Specification Number : TS10003267

Transmitter Site :-
Nominal location : Broadcast Site Bookpurnong Terrace 4 km WSW of LOXTON

Australian Map Grid : Zone 54 Easting 457031 Northing 6186081

Site Tolerance : Refer to Technical Planning Guidelines

Emission :-
Frequency Band & Mode : UHF Band IV - TV
Carrier Frequency : 541.198 MHz (Ch.30)
Polarisation : Vertical
Maximum antenna height : 170 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 - 150°T</td>
<td>500 kW</td>
</tr>
<tr>
<td>150°T - 360°T</td>
<td>650 kW</td>
</tr>
</tbody>
</table>
LICENCE AREA PLAN : Riverland

Category : National
General Area Served : Waikerie (SA)
Service Licence Number : Not applicable

TECHNICAL SPECIFICATION - Television

Specification Number : TS10003299

**Transmitter Site :-**
Nominal location : Ramco Heights
Australian Map Grid : Zone Easting Northing
Reference 54 401468 6215973
Site Tolerance : Refer to Technical Planning Guidelines

**Emission :-**
Frequency Band & Mode : UHF Band V - TV
Carrier Frequency : 702.25 MHz (Ch.53)
Polarisation : Vertical
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>0°T - 300°T</td>
<td>200 W</td>
</tr>
<tr>
<td>300°T - 320°T</td>
<td>5 kW</td>
</tr>
<tr>
<td>320°T - 360°T</td>
<td>200 W</td>
</tr>
</tbody>
</table>
LICENCE AREA PLAN: Riverland

Category: National

General Area Served: Renmark/Loxton (SA)

Service Licence Number: Not applicable

TECHNICAL SPECIFICATION - Television

Specification Number: TS10003265

**Transmitter Site:**
Nominal location: Loxton, 4km WSW of town

Australian Map Grid: Zone Easting Northing
Reference: 54 457031 6186081

Site Tolerance: Refer to Technical Planning Guidelines

**Emission:**
Frequency Band & Mode: VHF Band II - TV
Carrier Frequency: 86.248 MHz (Ch.3)
Polarisation: Vertical

Maximum antenna height: 156 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 - 70°T</td>
<td>150 kW</td>
</tr>
<tr>
<td>70°T - 165°T</td>
<td>110 kW</td>
</tr>
<tr>
<td>165°T - 310°T</td>
<td>240 kW</td>
</tr>
<tr>
<td>310°T - 360°T</td>
<td>150 kW</td>
</tr>
</tbody>
</table>
LICENCE AREA PLAN: Riverland

Category: National
General Area Served: Waikerie (SA)
Service Licence Number: Not applicable

TECHNICAL SPECIFICATION - Television
Specification Number: TS0003302

Transmitter Site:
Nominal location: Ramco Heights
Australian Map Grid: Zone 54 Easting 401468 Northing 6215973
Site Tolerance: Refer to Technical Planning Guidelines

Emission:
Frequency Band & Mode: UHF Band V - TV
Carrier Frequency: 723.25 MHz (Ch.56)
Polarisation: Vertical
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>0°T - 300°T</td>
<td>200 W</td>
</tr>
<tr>
<td>300°T - 320°T</td>
<td>5 kW</td>
</tr>
<tr>
<td>320°T - 360°T</td>
<td>200 W</td>
</tr>
</tbody>
</table>
**LICENCE AREA PLAN : Riverland**

**Category :** National

**General Area Served :** Pinaroo (SA)

**Service Licence Number :** Not applicable

**TECHNICAL SPECIFICATION - Television**

**Specification Number :** TS10003308

**Transmitter Site :-**

Nominal location : Telstra Site Lot 30 Bone Road PINNAROO

Australian Map Grid :
Reference 54 490739 6098504

Site Tolerance :
Refer to Technical Planning Guidelines

**Emission :-**

Frequency Band & Mode UHF Band V - TV

Carrier Frequency : 723.224 MHz (Ch.56)

Polarisation Vertical

Maximum antenna height 65 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>500 W</td>
</tr>
</tbody>
</table>
LICENCE AREA PLAN : Riverland

Category : National

General Area Served : Lameroo (SA)

Service Licence Number : Not applicable

TECHNICAL SPECIFICATION - Television

Specification Number : TS10003340

Transmitter Site :-

Nominal location : Telstra Site  Vardon Terrace  LAMEROO

Australian Map Grid : Zone Easting Northing

Reference 54 455610 6090217

Site Tolerance : Refer to Technical Planning Guidelines

Emission :-

Frequency Band & Mode UHF Band V - TV

Carrier Frequency : 730.224 MHz (Ch.57)

Polarisation Horizontal

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>500 W</td>
</tr>
</tbody>
</table>
LICENCE AREA PLAN : Riverland

Category : Commercial

General Area Served : Renmark/Loxton (SA)

Service Licence Number : SL10174

TECHNICAL SPECIFICATION - Television

Specification Number : TS10003266

Transmitter Site :-

Nominal location : Broadcast Site Bookpurnong Terrace 4 km WSW of LOXTON

Australian Map Grid : Zone Easting Northing
Reference 54 457031 6186081

Site Tolerance : Refer to Technical Planning Guidelines

Emission :-

Frequency Band & Mode VHF Band III - TV
Carrier Frequency : 138.26 MHz (Ch.5A)
Polarisation Vertical
Maximum antenna height 140 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 - 120°T</td>
<td>65 kW</td>
</tr>
<tr>
<td>120°T - 270°T</td>
<td>80 kW</td>
</tr>
<tr>
<td>270°T - 340°T</td>
<td>100 kW</td>
</tr>
<tr>
<td>340°T - 360°T</td>
<td>65 kW</td>
</tr>
</tbody>
</table>
LICENCE AREA PLAN : Riverland
Category : Commercial
General Area Served : Renmark/Loxton (SA)
Service Licence Number : SL010174

TECHNICAL SPECIFICATION - Television
Specification Number : TS003824

Transmitter Site :-
Nominal location : Loxton, 4km WSW of town
Australian Map Grid : Zone Easting Northing
Reference 54 401468 6215973
Site Tolerance : Refer to Technical Planning Guidelines

Emission :-
Frequency Band & Mode UHF Band V - TV
Carrier Frequency : 583.198 MHz (Ch.36)
Polarisation Vertical
Maximum antenna height 170 m

Output Radiation Pattern :-
<table>
<thead>
<tr>
<th>Bearing or Sector (Clockwise direction)</th>
<th>Maximum ERP</th>
</tr>
</thead>
<tbody>
<tr>
<td>270°T - 60°T</td>
<td>500 W</td>
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<tr>
<td>60°T - 100°T</td>
<td>60 kW</td>
</tr>
<tr>
<td>100°T - 270°T</td>
<td>80 W</td>
</tr>
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</table>
LICENCE AREA PLAN: Riverland

Category: Commercial

General Area Served: Waikerie (SA)

Service Licence Number: SL10174

TECHNICAL SPECIFICATION - Television

Specification Number: TS10003304

Transmitter Site:
Nominal location: Broadcast/Optus Site Lot 67 Loffler Rd RAMCO

Australian Map Grid: Zone Easting Northing
Reference 54 401468 6215973

Site Tolerance: Refer to Technical Planning Guidelines

Emission:
Frequency Band & Mode: UHF Band V - TV
Carrier Frequency: 744.25 MHz (Ch.59)
Polarisation: Vertical
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>0°T - 300°T</td>
<td>200 W</td>
</tr>
<tr>
<td>300°T - 320°T</td>
<td>5 kW</td>
</tr>
<tr>
<td>320°T - 360°T</td>
<td>200 W</td>
</tr>
</tbody>
</table>
 LICENCE AREA PLAN : Riverland

Category : Commercial

General Area Served : Pinnaroo (SA)

Service Licence Number : SL10174

TECHNICAL SPECIFICATION - Television

Specification Number : TS10003319

Transmitter Site :-
Nominal location : Telstra Site Lot 30 Bone Road PINNAROO

Australian Map Grid : Zone Easting Northing
Reference 54 490739 6098504

Site Tolerance : Refer to Technical Planning Guidelines

Emission :-
Frequency Band & Mode UHF Band V - TV
Carrier Frequency : 744.224 MHz (Ch.59)
Polarisation Vertical
Maximum antenna height 65 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>500 W</td>
</tr>
</tbody>
</table>

LICENCE AREA PLAN : Riverland

Category : Commercial

General Area Served : Lameroo (SA)

Service Licence Number : SL10174

TECHNICAL SPECIFICATION - Television

Specification Number : TS10003346

Transmitter Site :-
Nominal location : Telstra Site Vardon Terrace LAMEROO

Australian Map Grid : Zone Easting Northing
Reference 54 455610 6090217

Site Tolerance : Refer to Technical Planning Guidelines

Emission :-
Frequency Band & Mode UHF Band V - TV
Carrier Frequency : 751.224 MHz (Ch.60)
Polarisation Horizontal
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>500 W</td>
</tr>
</tbody>
</table>
LICENCE AREA PLAN: Riverland

Category: Commercial
General Area Served: Renmark/Loxton (SA)
Service Licence Number: SL1150796

TECHNICAL SPECIFICATION - Television

Specification Number: TS10010545

Transmitter Site:-
Nominal location: Broadcast Site Bookpurnong Terrace 4 km WSW of LOXTON

Australian Map Grid: Zone Easting Northing
Reference: 54 457031 6186081

Site Tolerance: Refer to Technical Planning Guidelines

Emission :-
Frequency Band & Mode: UHF Band IV - TV
Carrier Frequency: 569.25 MHz (Ch.34)
Polarisation: Vertical

Maximum antenna height: 170 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 - 150°T</td>
<td>500 kW</td>
</tr>
<tr>
<td>150°T - 360°T</td>
<td>650 kW</td>
</tr>
</tbody>
</table>
LICENCE AREA PLAN: Riverland

Category: Commercial
General Area Served: Waikerie (SA)
Service Licence Number: SL1150796

TECHNICAL SPECIFICATION - Television
Specification Number: TS10003310

Transmitter Site -
Nominal location: Broadcast/Optus Site Lot 67 Loffler Rd RAMCO
Australian Map Grid:
Reference: Zone Easting Northing
54 401468 6215973
Site Tolerance: Refer to Technical Planning Guidelines

Emission -
Frequency Band & Mode: UHF Band V - TV
Carrier Frequency: 765.25 MHz (Ch.62)
Polarisation: Vertical
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>0°T - 300°T</td>
<td>200 W</td>
</tr>
<tr>
<td>300°T - 320°T</td>
<td>5 kW</td>
</tr>
<tr>
<td>320°T - 360°T</td>
<td>200 W</td>
</tr>
</tbody>
</table>
LICENCE AREA PLAN : Riverland
Category : Commercial
General Area Served : Pinnaroo (SA)
Service Licence Number : SL1150796

TECHNICAL SPECIFICATION - Television
Specification Number : TS10003320

Transmitter Site :-
Nominal location : Telstra Site Lot 30 Bone Road PINNAROO
Australian Map Grid : Zone Easting Northing
Reference 54 490739 6098504
Site Tolerance : Refer to Technical Planning Guidelines

Emission :-
Frequency Band & Mode UHF Band V - TV
Carrier Frequency : 765.224 MHz (Ch.62)
Polarisation Vertical
Maximum antenna height 65 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>500 W</td>
</tr>
</tbody>
</table>
LICENCE AREA PLAN: Riverland

Category: Commercial

General Area Served: Lameroo (SA)

Service Licence Number: SL1150796

TECHNICAL SPECIFICATION - Television

Specification Number: TS10003347

Transmitter Site:

Nominal location: Telstra Site Vardon Terrace LAMEROO

Australian Map Grid: Zone Easting Northing

Reference: 54 455610 6090217

Site Tolerance: Refer to Technical Planning Guidelines

Emission:

Frequency Band & Mode: UHF Band V - TV

Carrier Frequency: 772.224 MHz (Ch.63)

Polarisation: Horizontal

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>500 W</td>
</tr>
</tbody>
</table>
Attachment 2.1

Licence Area - RIVERLAND RA1
Licence Area ID - 472
Commercial Radio Service Licence numbers:  SL10175, SL10178
Community Radio Service Licence numbers:  SL10177

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

<table>
<thead>
<tr>
<th>Area Description</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Berri and Barmera (DC) (LGA)</td>
<td></td>
</tr>
<tr>
<td>Loxton Waikerie (DC) (LGA)</td>
<td></td>
</tr>
<tr>
<td>Renmark Paringa (DC) (LGA)</td>
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</tr>
<tr>
<td>Unincorp. Riverland (SLA)</td>
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<tr>
<td>SA CD 040301</td>
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<td>SA CD 040405</td>
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</tr>
<tr>
<td>SA CD 040406</td>
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**Note:**

Standard terminology used by the Australian Bureau of Statistics:

- (LGA) = Local Government Area
- (SLA) = Statistical Local Area
- (CD) = Collection District
- (DC) = District Council
LICENCE AREA PLAN: Riverland

Category: National

General Area Served: Renmark/Loxton (SA)

Service Licence Number: Not applicable

TECHNICAL SPECIFICATION - FM Radio

Specification Number: TS0003434

Transmitter Site:
Nominal location: Loxton, 4km WSW of town
Australian Map Grid: Zone Easting Northing
Reference 54 457000 6186000
Site Tolerance: Refer to Technical Planning Guidelines

Emission:
Frequency Band & Mode: VHF-FM
Carrier Frequency: 105.1 MHz
Polarisation: Vertical
Maximum antenna height: 150 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 - 70°T</td>
<td>150 kW</td>
</tr>
<tr>
<td>70°T - 165°T</td>
<td>70 kW</td>
</tr>
</tbody>
</table>
LICENCE AREA PLAN : Riverland

Category : National

General Area Served : Renmark/Loxton (SA)

Service Licence Number : Not applicable

TECHNICAL SPECIFICATION - FM Radio

Specification Number : TS0003435

Transmission Site :-
Nominal location : Loxton, 4km WSW of town

Australian Map Grid : Zone Easting Northing Reference
54 457000 6186000

Site Tolerance : Refer to Technical Planning Guidelines

Emission :-
Frequency Band & Mode VHF-FM
Carrier Frequency : 101.9 MHz
Polarisation Mixed
Maximum antenna height 150 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 - 70°T</td>
<td>150 kW</td>
</tr>
<tr>
<td>70°T - 165°T</td>
<td>70 kW</td>
</tr>
</tbody>
</table>
LICENCE AREA PLAN : Riverland

Category : National
General Area Served : Renmark/Loxton (SA)
Service Licence Number : Not applicable

TECHNICAL SPECIFICATION - AM Radio

Specification Number : TS0003444

Transmitter Site :-
Nominal location : Berri
Australian Map Grid : Zone Easting Northing
Reference 54 465000 6208000
Site Tolerance : Refer to Technical Planning Guidelines

Emission :-
Frequency Band & Mode MF-AM
Carrier Frequency : 1305 kHz

<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>565 V</td>
</tr>
<tr>
<td>143°T</td>
<td>22</td>
<td>395 V</td>
</tr>
</tbody>
</table>

Notes:

1. The CMF at all elevations is not to exceed the specified CMF at 0 degrees elevation for all angles of azimuth
LICENCE AREA PLAN : Riverland

Category : National
General Area Served : Renmark/Loxton (SA)
Service Licence Number : Not applicable

TECHNICAL SPECIFICATION - AM Radio

Specification Number : TS0003264

Transmitter Site :-
Nominal location : Berri
Australian Map Grid : Zone Easting Northing Reference
54 465200 6208200
Site Tolerance : Refer to Technical Planning Guidelines

Emission :-
Frequency Band & Mode MF-AM
Carrier Frequency : 1062 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>560 V</td>
</tr>
</tbody>
</table>

Notes:-

1. The CMF at all elevations is not to exceed the specified CMF at 0 degrees elevation for all angles of azimuth.

Special Conditions:-

Main radiator to be shared with 5MV (1305 kHz) by means of multiplexing.
LICENCE AREA PLAN : Riverland

Category : Commercial

General Area Served : Renmark/Loxton (SA)

Service Licence Number : SL10178

TECHNICAL SPECIFICATION - AM Radio

Specification Number : TS0003449

Transmitter Site :-
Nominal location : Berri, 6km NNE of water tower

Australian Map Grid : Zone Easting Northing
Reference 54 467000 6212300

Site Tolerance : Refer to Technical Planning Guidelines

Emission :
Frequency Band & Mode MF-AM

Carrier Frequency : 801 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>460 V</td>
</tr>
</tbody>
</table>

Notes:-

1. The CMF at all elevations is not to exceed the specified CMF at 0 degrees elevation for all angles of azimuth.
LICENCE AREA PLAN : Riverland
Category : Commercial
General Area Served : Renmark/Loxton (SA)
Service Licence Number : SL10175

TECHNICAL SPECIFICATION - FM Radio
Specification Number : TS0003436

Transmitter Site :-
Nominal location : Loxton, 4km WSW of town
Australian Map Grid : Zone Easting Northing Reference
54 457000 6186000
Site Tolerance : Refer to Technical Planning Guidelines

Emission :-
Frequency Band & Mode VHF-FM
Carrier Frequency : 93.1 MHz
Polarisation Mixed
Maximum antenna height 140 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 - 180°T</td>
<td>10 kW</td>
</tr>
<tr>
<td>180°T - 270°T</td>
<td>3 kW</td>
</tr>
</tbody>
</table>
LICENCE AREA PLAN: Riverland

Category: Commercial

General Area Served: Morgan (SA)

Service Licence Number: SL10175

TECHNICAL SPECIFICATION - FM Radio

Specification Number: TS0003588

Transmitter Site:
Nominal location: Approx 1 km east of Cosy Corner

Australian Map Grid:
Reference: Zone Easting Northing
54 380000 6232000

Site Tolerance: Refer to Technical Planning Guidelines

Emission:
Frequency Band & Mode: VHF-FM
Carrier Frequency: 97.1 MHz
Polarisation: Mixed
Maximum antenna height: 70 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 - 60°T</td>
<td>100 W</td>
</tr>
<tr>
<td>60°T - 150°T</td>
<td>2.5 kW</td>
</tr>
<tr>
<td>Elsewhere</td>
<td>Minimum practicable</td>
</tr>
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</table>
LICENCE AREA PLAN : Riverland

Category : Open Narrowcasting
General Area Served : Renmark/Loxton (SA)
Service Licence Number : Not applicable

TECHNICAL SPECIFICATION - FM Radio

Specification Number : TS0003261

Transmitter Site :-
Nominal location : Loxton, 4km WSW of town
Australian Map Grid : Zone 54  Easting 457000  Northing 6186000
Site Tolerance : Refer to Technical Planning Guidelines

Emission :-
Frequency Band & Mode : VHF-FM
Carrier Frequency : 95.5 MHz
Polarisation : Mixed
Maximum antenna height : 100 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 - 180°T</td>
<td>5 kW</td>
</tr>
<tr>
<td>180°T - 320°T</td>
<td>100 W</td>
</tr>
</tbody>
</table>
Attachment 2.10

LICENCE AREA PLAN: Riverland

Category: Open Narrowcasting

General Area Served: Renmark/Loxton (SA)

Service Licence Number: Not applicable

TECHNICAL SPECIFICATION - AM Radio

Specification Number: TS0003579

Transmitter Site:
Nominal location: 5MV Broadcast Site RENMARK

Australian Map Grid:
Reference: Zone 54 Easting 465000 Northing 6208000

Site Tolerance: Refer to Technical Planning Guidelines

Emission:
Frequency Band & Mode: MF-AM

Carrier Frequency: 1557 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>210 V</td>
</tr>
<tr>
<td>80°T</td>
<td>7</td>
<td>135 V</td>
</tr>
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</table>
**LICENCE AREA PLAN : Riverland**

Category : National

General Area Served : Renmark/Loxton (SA)

Service Licence Number : Not applicable

**TECHNICAL SPECIFICATION - FM Radio**

Specification Number : TS1131022

**Transmitter Site :-**

Nominal location : Broadcast Site Bookpurnong Terrace 4 km WSW of LOXTON

Australian Map Grid : Zone Easting Northing
Reference 54 457031 6186081

Site Tolerance : Refer to Technical Planning Guidelines

**Emission :-**

Frequency Band & Mode : VHF-FM

Carrier Frequency : 93.9 MHz

Polarisation : Vertical

Maximum antenna height : 156 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 - 70°T</td>
<td>150 kW</td>
</tr>
<tr>
<td>70°T - 165°T</td>
<td>70 kW</td>
</tr>
<tr>
<td>165°T - 360°T</td>
<td>150 kW</td>
</tr>
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</table>
LICENCE AREA PLAN: Riverland

Category: Community

General Area Served: Renmark/Loxton (SA)

Service Licence Number: SL10177

TECHNICAL SPECIFICATION - FM Radio

Specification Number: TS1130967

Transmitter Site:
Nominal location: Broadcast Site Bookpurnong Terrace 4 km WSW of LOXTON

Australian Map Grid: Zone Easting Northing
Reference 54 457031 6186081

Site Tolerance: Refer to Technical Planning Guidelines

Emission:
Frequency Band & Mode: VHF-FM
Carrier Frequency: 100.7 MHz
Polarisation: Mixed
Maximum antenna height: 156 m

Output Radiation Pattern:

<table>
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<th>Bearing or Sector (Clockwise direction)</th>
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</tr>
</thead>
<tbody>
<tr>
<td>0°T - 70°T</td>
<td>5 kW</td>
</tr>
<tr>
<td>70°T - 165°T</td>
<td>2.5 kW</td>
</tr>
<tr>
<td>165°T - 360°T</td>
<td>5 kW</td>
</tr>
</tbody>
</table>
LICENCE AREA PLAN: Riverland

Category: Community
General Area Served: Morgan (SA)
Service Licence Number: SL10177

TECHNICAL SPECIFICATION - FM Radio

Specification Number: TS10003589

Transmitter Site:
Nominal location: Broadcast Site approx 1 km East of COSY CORNER
Australian Map Grid:
Reference Zone Easting Northing
54 380000 6232000
Site Tolerance: Refer to Technical Planning Guidelines

Emission:
Frequency Band & Mode: VHF-FM
Carrier Frequency: 96.3 MHz
Polarisation: Mixed
Maximum antenna height: 70 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 - 60°T</td>
<td>100 W</td>
</tr>
<tr>
<td>60°T - 150°T</td>
<td>2.5 kW</td>
</tr>
<tr>
<td>150°T - 360°T</td>
<td>100 W</td>
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</table>
Notes to the Licence Area Plan - Riverland (Television and Radio) – August 1996

Note 1

The Licence Area Plan – Riverland (Television and Radio) – August 1996 (in force under the Broadcasting Services Act 1992) as shown in this compilation comprise the principal instrument amended as indicated in the Tables below.

Table of Instruments

<table>
<thead>
<tr>
<th>Title</th>
<th>Date of notification in Gazette/FRLI registration</th>
<th>Date of commencement</th>
<th>Application, saving or transitional provisions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Variation to Licence Area Plan – Riverland (Television and Radio) - No.1 of 2008</td>
<td>4 July 2008 (see F2008L02395)</td>
<td>1 August 2008</td>
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Table of Amendments

<table>
<thead>
<tr>
<th>Provision affected</th>
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<tr>
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<tr>
<td>Attachment 1.21</td>
<td>ad. No.1 of 2008</td>
</tr>
<tr>
<td>Attachment 1.22</td>
<td>ad. No.1 of 2008</td>
</tr>
</tbody>
</table>
Table A

Application, saving or transitional provision

*Australian Communications and Media Authority (Consequential and Transitional Provisions) Act 2005 (No.45 of 2005)*