

Radiocommunications (Digital Radio Channels — NSW/ACT) Plan 2007

as amended

made under subsection 44A (1) of the

Radiocommunications Act 1992

This compilation was prepared on 24 May 2017 taking into account amendments up to *Radiocommunications (Digital Radio Channels — NSW/ACT) Plan Variation 2017 (No. 1)*

**Compilation No. 2**

**Compilation date:** 24 May 2017

**Includes amendments up to:** F2017L00588

Prepared by the Australian Communications and Media Authority, Melbourne

**About this compilation**

**This compilation**

This is a compilation of the *Radiocommunications (Digital Radio Channels — NSW/ACT) Plan 2007* that shows the text of the law as amended and in force on 24 May 2017 (the ***compilation date***).

The notes at the end of this compilation (the ***endnotes***) include information about amending laws and the amendment history of provisions of the compiled law.

**Uncommenced amendments**

The effect of uncommenced amendments is not shown in the text of the compiled law. Any uncommenced amendments affecting the law are accessible on the Federal Register of Legislation (www.legislation.gov.au). The details of amendments made up to, but not commenced at, the compilation date are underlined in the endnotes. For more information on any uncommenced amendments, see the series page on the Federal Register of Legislation for the compiled law.

**Application, saving and transitional provisions for provisions and amendments**

If the operation of a provision or amendment of the compiled law is affected by an application, saving or transitional provision that is not included in this compilation, details are included in the endnotes.

**Modifications**

If the compiled law is modified by another law, the compiled law operates as modified but the modification does not amend the text of the law. Accordingly, this compilation does not show the text of the compiled law as modified. For more information on any modifications, see the series page on the Federal Register of Legislation for the compiled law.

**Self-repealing provisions**

If a provision of the compiled law has been repealed in accordance with a provision of the law, details are included in the endnotes.

Contents

1 Name of Plan 3

2 Commencement 3

3 Definitions 3

3A Dividing line 3

4 Digital radio channel plans 4

5 Maximum ERP limits 4

6 Co-channel transmitters 5

Schedule 1 Sydney RA1 6

Notes to the *Radiocommunications (Digital Radio Channels — NSW/ACT) Plan 2007* 13

1 Name of Plan [*see* Note 1]

This Plan is the *Radiocommunications (Digital Radio Channels — NSW/ACT) Plan 2007*.

2 Commencement [*see* Note 1]

This Plan commences on the day after it is registered.

1. Definitions
2. In this Plan:

***Act*** means the *Radiocommunications Act 1992*.

***category*** means a category of digital radio multiplex transmitter licence described in section 5 of the Act.

***DAB*** means digital audio broadcasting.

***depression angle*** means the angle between the horizontal line and the dividing line.

***designated BSA radio area*** means:

(a) the BSA licence area (within the meaning of the *Broadcasting Services Act 1992*) of a commercial radio broadcasting licence; or

(b) the BSA licence area of a community radio broadcasting licence, where that BSA licence area is the same (or is deemed to be the same) as the BSA licence area of a commercial radio broadcasting licence.

***dividing line*** — seesection 3A.

***ERP*** means effective radiated power.

***frequency block*** means a frequency channel of 1.536 MHz bandwidth.

***horizontal line*** means a horizontal line at the maximum antenna height of an antenna.

***maximum antenna height*** means the maximum permitted height above ground level of the electrical centre of an antenna.

(2)  In this Plan, unless the contrary intention appears:

(a)   a reference to any other legislative instrument is a reference to that other legislative instrument as in force from time to time; and

(b)   a reference to any other kind of instrument or writing is a reference to that other kind of instrument or writing as in existence from time to time.

Note 1: For references to Commonwealth Acts, see section 10 of the *Acts Interpretation Act 1901*; and see also subsection 13(1) of the *Legislation Act 2003* for the application of the *Acts Interpretation Act 1901* to legislative instruments,

Note 2: All Commonwealth Acts and legislative instruments are registered on the Federal Register of Legislation.

3A Dividing line

(1) In this Plan, ***dividing line*** means a line from a point at the maximum antenna height of an antenna to a point on the Earth below the horizontal line.

(2) For subsection (1), if a negative value is specified in the depression angle, the point on the Earth is above the horizontal line.

4 Digital radio channel plans

(1) For subsection 44A (1) of the Act, each Schedule is a digital radio channel plan for the designated BSA radio area specified in that Schedule.

(2) The digital radio channel plan specified in a Schedule:

(a) allots a frequency block or blocks in relation to the designated BSA radio area for use by digital radio multiplex transmitter licensees; and

(b) reserves a frequency block for a category 3 digital radio multiplex transmitter licence for the designated BSA radio area to be issued in accordance with subsection 102E (2) of the Act; and

(c) determines which of the following types of licences, or which combination of the following types of licences, are to be issued for the designated BSA radio area:

(i) category 1 digital radio multiplex transmitter licence;

(ii) category 2 digital radio multiplex transmitter licence; and

(d) if a particular type of licence mentioned in paragraph (c) is to be issued for the designated BSA radio area — determines whether:

(i) a single licence of that type is to be issued for the designated BSA radio area; or

(ii) 2 or more licences of that type are to be issued for the designated BSA radio area; and

(e) determines technical specifications of multiplex transmitters operated under digital radio multiplex transmitter licences for the designated BSA radio area.

*Note*   The relevant technical specifications are set out in each Schedule as “attachments”.

5 Maximum ERP limits

(1) For each digital radiomultiplex transmitter, the ERP of that transmitter in any part of a sector or bearing must not exceed the maximum ERP specified in the output radiation pattern table for that sector or bearing.

(2) If the output radiation pattern table for a digital radio multiplex transmitter specifies two maximum ERP values for a sector or bearing, the ERP of the transmitter in that sector or bearing must not exceed:

(a) for a point at or above the dividing line — the maximum ERP in the column headed “At or above dividing line”; and

(b) for a point below the dividing line — the maximum ERP in the column headed “Below dividing line”.

(3) The licensee of a digital radio multiplex transmitter must, if requested by ACMA to do so, demonstrate, to the satisfaction of ACMA, that the ERP of a transmitter in any part of a sector or bearing specified by ACMA complies with this section.

6 Co-channel transmitters

The technical specifications for a co-channel transmitter licensed under a relevant digital radio multiplex transmitter licence are those specified in the licence.

Schedule 1 Sydney RA1

(subsection 4 (1))

Designated BSA radio area

Sydney RA1

Table 1 Frequency channels

| Column 1  Multiplex transmitter licence name | Column 2  Frequency block | Column 3  Reserved frequency block | Column 4  Centre frequency (MHz) | Column 5  Category | Column 6  Technical specification number | Column 7  Technical specifications (attachment number) | Column 8  General area served |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Sydney 1 | 9A | No | 202.928 | 1 | TS1132983 | 1.1 | Sydney |
| Sydney 1 | 9A | No | 202.928 | 1 | TS1137041 | 1.4 | Penrith |
| Sydney 2 | 9B | No | 204.640 | 1 | TS1132984 | 1.2 | Sydney |
| Sydney 2 | 9B | No | 204.640 | 1 | TS1137056 | 1.5 | Penrith |
| Sydney 3 | 9C | Yes | 206.352 | 3 | TS1132985 | 1.3 | Sydney |
| Sydney 3 | 9C | Yes | 206.352 | 3 | TS1137057 | 1.6 | Penrith |

Note:    Column 8 is included for information only.

Table 2 Number of licences to be issued

|  |  |
| --- | --- |
| Column 1  Licence Category | Column 2  Number of licences |
| Category 1 | 2 |
| Category 2 | 0 |
| Category 3 | 1 |

Attachment 1.1 Sydney 1

| Column 1  Technical specification | | Column 2  Details | |
| --- | --- | --- | --- |
| Category | | 1 | |
| General Area Served | | Sydney | |
| Mode | | DAB | |
| Specification number | | TS1132983 | |
| *Transmitter Site* | |  | |
| Nominal Location | | TXA Willoughby Site Tower  15 Richmond Avenue  WILLOUGHBY | |
| Nominal Coordinates (GDA94) | | ***Latitude Longitude***  33.811691ºS 151.195969ºE | |
| *Emission* | |  | |
| Frequency Block | | 9A | |
| Polarisation | | Vertical | |
| Maximum antenna height | | 230 m | |
| *Output Radiation Pattern* | | | |
| Bearing or sector (clockwise direction) | Depression angle | Maximum ERP | | |
| At or above dividing line | Below dividing line | |
| 0 °T – 10 °T | All angles | 50 kW | | |
| 10 °T – 40 °T | 0.3° | 12.5 kW | 50 kW | |
| 40 °T – 210 °T | All angles | 50 kW | | |
| 210 °T – 256 °T | ‑0.1° | 12.5 kW | 50 kW | |
| 256 °T – 273 °T | All angles | 50 kW | | |
| 273 °T – 298 °T | ‑0.3° | 15 kW | 50 kW | |
| 298 °T – 360 °T | All angles | 50 kW | | |

Attachment 1.2 Sydney 2

| Column 1  Technical specification | | Column 2  Details | |
| --- | --- | --- | --- |
| Category | | 1 | |
| General Area Served | | Sydney | |
| Mode | | DAB | |
| Specification number | | TS1132984 | |
| *Transmitter Site* | |  | |
| Nominal Location | | TXA Willoughby Site Tower  15 Richmond Avenue  WILLOUGHBY | |
| Nominal Coordinates (GDA94) | | ***Latitude Longitude***  33.811691ºS 151.195969ºE | |
| Site Tolerance | | Refer to technical planning guidelines | |
| *Emission* | |  | |
| Frequency Block | | 9B | |
| Polarisation | | Vertical | |
| Maximum antenna height | | 230 m | |
| *Output Radiation Pattern* | | | | |
| Bearing or sector (clockwise direction) | Depression angle | Maximum ERP | | |
| At or above dividing line | Below dividing line | |
| 0 °T – 10 °T | All angles | 50 kW | | |
| 10 °T – 40 °T | 0.3° | 12.5 kW | 50 kW | |
| 40 °T – 210 °T | All angles | 50 kW | | |
| 210 °T – 256 °T | ‑0.1° | 12.5 kW | 50 kW | |
| 256 °T – 273 °T | All angles | 50 kW | | |
| 273 °T – 298 °T | ‑0.3° | 15 kW | 50 kW | |
| 298 °T – 360 °T | All angles | 50 kW | | |

Attachment 1.3 Sydney 3

| Column 1  Technical specification | | Column 2  Details | |
| --- | --- | --- | --- |
| Category | | 3 | |
| General Area Served | | Sydney | |
| Mode | | DAB | |
| Specification number | | TS1132985 | |
| *Transmitter Site* | |  | |
| Nominal Location | | TXA Willoughby Site Tower  15 Richmond Avenue  WILLOUGHBY | |
| Nominal Coordinates (GDA94) | | ***Latitude Longitude***  33.811691ºS 151.195969ºE | |
| *Emission* | |  | |
| Frequency Block | | 9C | |
| Polarisation | | Vertical | |
| Maximum antenna height | | 230 m | |
| *Output Radiation Pattern* | | | |
| Bearing or sector (clockwise direction) | Depression angle | Maximum ERP | |
| At or above dividing line | Below dividing line |
| 0 °T – 10 °T | All angles | 50 kW | |
| 10 °T – 40 °T | 0.3° | 12.5 kW | 50 kW |
| 40 °T – 210 °T | All angles | 50 kW | |
| 210 °T – 256 °T | ‑0.1° | 12.5 kW | 50 kW |
| 256 °T – 273 °T | All angles | 50 kW | |
| 273 °T – 298 °T | ‑0.3° | 15 kW | 50 kW |
| 298 °T – 360 °T | All angles | 50 kW | |

Attachment 1.4 Sydney 1

| Column 1  Technical specification | | Column 2  Details | |
| --- | --- | --- | --- |
| Category | | 1 | |
| General Area Served | | Penrith | |
| Mode | | DAB | |
| Specification number | | TS1137041 | |
| *Transmitter Site* | |  | |
| Nominal Location | | Broadcast Monopole Aust Radio Network Site 754-768 Hawkesbury Rd  HAWKESBURY HEIGHTS | |
| Nominal Coordinates (GDA94) | | ***Latitude Longitude***  33.667434ºS 150.639753ºE | |
| *Emission* | |  | |
| Frequency Block | | 9A | |
| Polarisation | | Vertical | |
| Maximum antenna height | | 42 m | |
| *Output Radiation Pattern* | |  | |
| Bearing or sector (clockwise direction) | Maximum ERP | |
| 0 °T – 220 °T | 300 W | |
| 220 °T – 260 °T | 150 W | |
| 260 °T – 320 °T | 75 W | |
| 320 °T – 360 °T | 150 W | |
| *Advisory Note* | | | |
| This technical specification has been included in this plan because the transmission site is outside the Sydney RA1 licence area. | | | |

Attachment 1.5 Sydney 2

| Column 1  Technical specification | | Column 2  Details | |
| --- | --- | --- | --- |
| Category | | 1 | |
| General Area Served | | Penrith | |
| Mode | | DAB | |
| Specification number | | TS1137056 | |
| *Transmitter Site* | |  | |
| Nominal Location | | Broadcast Monopole Aust Radio Network Site 754-768 Hawkesbury Rd  HAWKESBURY HEIGHTS | |
| Nominal Coordinates (GDA94) | | ***Latitude Longitude***  33.667434ºS 150.639753ºE | |
| *Emission* | |  | |
| Frequency Block | | 9B | |
| Polarisation | | Vertical | |
| Maximum antenna height | | 42 m | |
| *Output Radiation Pattern* | |  | |
| Bearing or sector (clockwise direction) | Maximum ERP | |
| 0 °T – 220 °T | 300 W | |
| 220 °T – 260 °T | 150 W | |
| 260 °T – 320 °T | 75 W | |
| 320 °T – 360 °T | 150 W | |
| *Advisory Note* | | | |
| This technical specification has been included in this plan because the transmission site is outside the Sydney RA1 licence area. | | | |

Attachment 1.6 Sydney 3

| Column 1  Technical specification | | Column 2  Details |
| --- | --- | --- |
| Category | | 3 |
| General Area Served | | Penrith |
| Mode | | DAB |
| Specification number | | TS1137057 |
| *Transmitter Site* | |  |
| Nominal Location | | Broadcast Monopole Aust Radio Network Site  754-768 Hawkesbury Rd  HAWKESBURY HEIGHTS |
| Nominal Coordinates (GDA94) | | ***Latitude Longitude***  33.667434ºS 150.639753ºE |
| *Emission* | |  |
| Frequency Block | | 9C |
| Polarisation | | Vertical |
| Maximum antenna height | | 42 m |
| *Output Radiation Pattern* | |  |
| Bearing or sector (clockwise direction) | Maximum ERP | |
| 0 °T – 220 °T | 300 W | |
| 220 °T – 260 °T | 150 W | |
| 260 °T – 320 °T | 75 W | |
| 320 °T – 360 °T | 150 W | |
| *Advisory Note* | | |
| This technical specification has been included in this plan because the transmission site is outside the Sydney RA1 licence area. | | |

Schedule 2 Canberra RA1

(subsection 4(1))

Designated BSA radio area

Canberra RA1

Table 1 Frequency channels

| Column 1  Multiplex transmitter licence name | Column 2  Frequency block | Column 3  Reserved frequency block | Column 4  Centre frequency (MHz) | Column 5  Category | Column 6  Technical specification number | Column 7  Technical specifications (attachment number) | Column 8  General area served |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Canberra 1 | 8D | No | 201.072 | 1 | TS12000069 | 2.1 | Canberra |
| Canberra 2 | 9C | Yes | 206.352 | 3 | TS12000071 | 2.2 | Canberra |

Note: Column 8 is included for information only.

Table 2 Type and number of licences to be issued

|  |  |
| --- | --- |
| Column 1  Licence category | Column 2  Number of licences |
| Category 1 | 1 |
| Category 2 | 0 |
| Category 3 | 1 |

Attachment 2.1 Canberra 1

| Column 1  Technical specification | Column 2  Details |
| --- | --- |
| Category | 1 |
| General Area Served | Canberra |
| Mode | DAB |
| Specification number | TS12000069 |
| *Transmitter Site* |  |
| Nominal Location | Telecom Tower  BLACK MOUNTAIN |
| Nominal Coordinates (GDA94) | ***Latitude Longitude***  35.275515º S 149.097771º E |
| *Emission* |  |
| Frequency Block | 8D |
| Polarisation | Vertical |
| Maximum antenna height | 163 m |
| *Output Radiation Pattern* | |
| Bearing or sector (clockwise direction) | Maximum ERP |
| At all angles of azimuth | 5 kW |

Attachment 2.2 Canberra 2

| Column 1  Technical specification | Column 2  Details |
| --- | --- |
| Category | 3 |
| General Area Served | Canberra |
| Mode | DAB |
| Specification number | TS12000071 |
| *Transmitter Site* |  |
| Nominal Location | Telecom Tower  BLACK MOUNTAIN |
| Nominal Coordinates (GDA94) | ***Latitude Longitude***  35.275515º S 149.097771º E |
| *Emission* |  |
| Frequency Block | 9C |
| Polarisation | Vertical |
| Maximum antenna height | 163 m |
| *Output Radiation Pattern* | |
| Bearing or sector (clockwise direction) | Maximum ERP |
| At all angles of azimuth | 5 kW |

Endnotes

**Endnote 1 – About the endnotes**

The endnotes provide information about this compilation and the compiled law.

Endnote 2 (Abbreviation key) sets out abbreviations that may be used in the endnotes.

Endnote 3 (Legislation history) provides information about each law that has amended (or will amend) the compiled law. The information includes commencement details for amending laws and details of any application, saving or transitional provisions that are not included in this compilation.

Endnote 4 (Amendment history) provides information about the amendments at the provision (generally section or equivalent) level and includes information about any provision of the compiled law that has been repealed in accordance with a provision of the law.

It also includes information about any misdescribed amendment (that is, an amendment that does not accurately describe the amendment to be made). If, despite the misdescription, the amendment can be given effect as intended, the amendment is incorporated into the compiled law and the abbreviation “(md)” added to the details of the amendment included in the amendment history. If a misdescribed amendment cannot be given effect as intended, the abbreviation “(md not incorp)” is added to the details of the amendment included in the amendment history.

**Endnote 2—Abbreviation key**

|  |  |
| --- | --- |
| ad = added or inserted | (md not incorp) = misdescribed amendment |
| am = amended | cannot be given effect |
| amdt = amendment | mod = modified/modification |
| c = clause(s) | No. = Number(s) |
| Ch = Chapter(s) | par = paragraph(s)/subparagraph(s) |
| def = definition(s) | /sub‑subparagraph(s) |
| Dict = Dictionary | Pt = Part(s) |
| disallowed = disallowed by Parliament | r = regulation(s)/rule(s) |
| Div = Division(s) | rep = repealed |
| exp = expires/expired or ceases/ceased to have effect | rs = repealed and substituted |
| F = Federal Register of Legislation | s = section(s)/subsection(s) |
| gaz = gazette | Sch = Schedule(s) |
| LA = *Legislation Act 2003* | Sdiv = Subdivision(s) |
| LIA = *Legislative Instruments Act 2003* | underlining = whole or part not |
| (md) = misdescribed amendment can be given effect | commenced or to be commenced |

**Endnote 3—Legislation history**

| Title | Date of FRLI registration | Date of commencement | Application, saving or transitional provisions |
| --- | --- | --- | --- |
| *Radiocommunications (Digital Radio Channels — NSW/ACT Plan) 2007* | 10 Dec 2007 (*see* F2007L04662) | 11 Dec 2007 |  |
| *Radiocommunications (Digital Radio Channels — NSW/ACT) Plan Variation 2008 No. 1* | 20 Jan 2009 (*see* F2009L00099) | 21 Jan 2009 | — |
| *Radiocommunications (Digital Radio Channels – NSW/ACT) Plan Variation 2015 (No. 1)* | 11 May 2015 (*see* F2015L00666) | 12 May 2015 | — |
| *Radiocommunications (Digital Radio Channels – NSW/ACT) Plan Variation 2015 (No. 1)* | 23 May 2017 (see F2017L00588) | 24 May 2017 | — |

Endnote 4—Amendment history

| Provision affected | How affected |
| --- | --- |
| S. 3 | am. 2008 No. 1; am. 2017 No. 1 |
| S. 3A | ad. 2008 No. 1 |
| S. 5 | ad. 2008 No. 1 |
| S. 6 | ad. 2015 No. 1; am. 2017 No. 1 |
| **Schedule 1** |  |
| Schedule 1 | am. 2008 No. 1; am. 2015 No. 1; am. 2017 No. 1 |
| **Schedule 2**  Schedule 2…………………. | ad. No 1 2017 |
|  |  |