

Radiocommunications (Digital Radio Channels — NSW/ACT) Plan Variation 2017 (No. 1)

The Australian Communications and Media Authority makes this Plan Variation under subsection 44A(6) of the *Radiocommunications Act 1992*.

Dated: 18 May 2017

Richard Bean

[signed]

Member

James Cameron

[signed]

Member/~~General Manager~~

Australian Communications and Media Authority

1 Name

This is the *Radiocommunications (Digital Radio Channels — NSW/ACT) Plan Variation 2017 (No. 1)*.

2 Commencement

This instrument commences at the start of the day after it is registered on the Federal Register of Legislation.

Note: The Federal Register of Legislation may be accessed at [www.legislation.gov.au](http://www.legislation.gov.au).

3 Authority

This instrument is made under subsection 44A(6) of the *Radiocommunications Act 1992*.

4 Amendments

The instrument that is specified in Schedule 1 is amended as set out in the applicable items in that Schedule.

Schedule 1—Amendments

Radiocommunications (Digital Radio Channels — NSW/ACT) Plan 2007 (Registration No. F2015C00503)

1 Section 3

Before “In this Plan:”, insert “(1)”.

2 Section 3 (definition of *technical planning guidelines*)

Repeal the definition.

3 At the end of section 3

Add:

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

1. a reference to any other legislative instrument is a reference to that other legislative instrument as in force from time to time; and
2. 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.

4 Section 6

Repeal the section and the note, substitute:

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.

5 Schedule 1

Repeal the Schedule, substitute:

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 Type and 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. | | |

4 After Schedule 1

Insert:

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 |