



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

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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

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## Section 1

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### **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:

- (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.

#### **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**

<b>Column 1 Multiplex transmitter licence name</b>	<b>Column 2 Frequency block</b>	<b>Column 3 Reserved frequency block</b>	<b>Column 4 Centre frequency (MHz)</b>	<b>Column 5 Category</b>	<b>Column 6 Technical specification number</b>	<b>Column 7 Technical specifications (attachment number)</b>	<b>Column 8 General area served</b>
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**

<b>Column 1 Licence category</b>	<b>Column 2 Number of licences</b>
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		
<i>Transmitter Site</i>			
Nominal Location	TXA Willoughby Site Tower 15 Richmond Avenue WILLOUGHBY		
Nominal Coordinates (GDA94)	<i>Latitude</i> 33.811691°S	<i>Longitude</i> 151.195969°E	
<i>Emission</i>			
Frequency Block	9A		
Polarisation	Vertical		
Maximum antenna height	230 m		
<i>Output Radiation Pattern</i>			
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		
<i>Transmitter Site</i>			
Nominal Location	TXA Willoughby Site Tower 15 Richmond Avenue WILLOUGHBY		
Nominal Coordinates (GDA94)	<b>Latitude</b> <b>Longitude</b> 33.811691°S                      151.195969°E		
Site Tolerance	Refer to technical planning guidelines		
<i>Emission</i>			
Frequency Block	9B		
Polarisation	Vertical		
Maximum antenna height	230 m		
<i>Output Radiation Pattern</i>			
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		
<i>Transmitter Site</i>			
Nominal Location	TXA Willoughby Site Tower 15 Richmond Avenue WILLOUGHBY		
Nominal Coordinates (GDA94)	<i>Latitude</i> 33.811691°S	<i>Longitude</i> 151.195969°E	
<i>Emission</i>			
Frequency Block	9C		
Polarisation	Vertical		
Maximum antenna height	230 m		
<i>Output Radiation Pattern</i>			
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**

<b>Column 1</b> <b>Technical specification</b>	<b>Column 2</b> <b>Details</b>
Category	1
General Area Served	Penrith
Mode	DAB
Specification number	TS1137041
<i>Transmitter Site</i>	
Nominal Location	Broadcast Monopole Aust Radio Network Site 754-768 Hawkesbury Rd HAWKESBURY HEIGHTS
Nominal Coordinates (GDA94)	<b><i>Latitude</i></b> <b><i>Longitude</i></b> 33.667434°S                      150.639753°E
<i>Emission</i>	
Frequency Block	9A
Polarisation	Vertical
Maximum antenna height	42 m
<i>Output Radiation Pattern</i>	
<b>Bearing or sector (clockwise direction)</b>	<b>Maximum ERP</b>
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**

<b>Column 1</b> <b>Technical specification</b>	<b>Column 2</b> <b>Details</b>
Category	1
General Area Served	Penrith
Mode	DAB
Specification number	TS1137056
<i>Transmitter Site</i>	
Nominal Location	Broadcast Monopole Aust Radio Network Site 754-768 Hawkesbury Rd HAWKESBURY HEIGHTS
Nominal Coordinates (GDA94)	<b><i>Latitude</i></b> <b><i>Longitude</i></b> 33.667434°S                      150.639753°E
<i>Emission</i>	
Frequency Block	9B
Polarisation	Vertical
Maximum antenna height	42 m
<i>Output Radiation Pattern</i>	
<b>Bearing or sector (clockwise direction)</b>	<b>Maximum ERP</b>
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**

<b>Column 1</b> <b>Technical specification</b>	<b>Column 2</b> <b>Details</b>
Category	3
General Area Served	Penrith
Mode	DAB
Specification number	TS1137057
<i>Transmitter Site</i>	
Nominal Location	Broadcast Monopole Aust Radio Network Site 754-768 Hawkesbury Rd HAWKESBURY HEIGHTS
Nominal Coordinates (GDA94)	<b><i>Latitude</i></b> <b><i>Longitude</i></b> 33.667434°S                      150.639753°E
<i>Emission</i>	
Frequency Block	9C
Polarisation	Vertical
Maximum antenna height	42 m
<i>Output Radiation Pattern</i>	
<b>Bearing or sector (clockwise direction)</b>	<b>Maximum ERP</b>
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**

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

**Attachment 2.2    Canberra 2**

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