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Radiocommunications Assignment and Licensing Instruction

# Spectrum Embargoes

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### **Disclaimer**

The Australian Communications and Media Authority (ACMA) advise that these instructions reflect the current policies of the ACMA.

Prospective applicants for licences should take all necessary steps to ensure that they have access to appropriate technical or other specialist advice independently of the ACMA concerning their applications, the operation of radiocommunications equipment and services, and any other matters relevant to the operation of transmitters and services under the licences in question.

The policies of the ACMA, and the laws of the Commonwealth may change from time to time, and prospective licensees should ensure that they have informed themselves of the current policies of the ACMA and of any relevant legislation (including subordinate instruments). Prospective applicants for licences should not rely on statements made in these instructions about the policies that may be followed by other government authorities or entities, nor about the effect of legislation. These instructions are not a substitute for independent advice (legal or otherwise) tailored to the circumstances of individual applicants.

Radiocommunications Assignment and Licensing Instructions are subject to periodic review and are amended as the ACMA considers necessary. To keep abreast of developments, it is important that users ensure that they are in possession of the latest edition.

No liability is or will be accepted by the Minister or Department of Infrastructure, Transport, Regional Development and Communications, the ACMA, the Commonwealth of Australia, or its officers, servants or agents for any loss suffered, whether arising directly or indirectly, due to reliance on the accuracy or contents of these instructions.

Suggestions for improvements to Radiocommunications Assignment and Licensing Instructions may be addressed to The Manager, Spectrum Planning Section, ACMA at PO Box 78, Belconnen, ACT, 2616, or by e-mail to [freqplan@acma.gov.au](mailto:freqplan@acma.gov.au). It would be appreciated if notification to ACMA of any inaccuracy or ambiguity found be made without delay in order that the matter may be investigated and appropriate action taken.

### **RALI AUTHORISATION**

Approved 29 April 2026

Manager  
Spectrum Planning Section  
Australian Communications and Media Authority

# Background

The object of the [Radiocommunications Act 1992](#) is to promote the long-term public interest derived from the use of the spectrum by providing for the management of the spectrum in a manner that:

- (a) facilitates the efficient planning, allocation and use of the spectrum; and
- (b) facilitates the use of the spectrum for:
  - (i) commercial purposes; and
  - (ii) defence purposes, national security purposes and other non-commercial purposes (including public safety and community purposes); and
- (c) supports the communications policy objectives of the Commonwealth Government.

In managing the spectrum, the ACMA uses a number of tools including the placement of embargoes on parts of the spectrum to support planning and other purposes. Embargoes place restrictions on frequency assignments for apparatus-licensed services in certain bands in certain geographical areas. Embargoes, together with planning, are intended to ensure that the status of the band remains stable for the durations of the planning process. The overall public benefit from spectrum use can be maximised where such planning is not constrained by the introduction of unplanned services or by their premature introduction.

Embargoes are an effective and efficient administrative tool used in conjunction with other planning tools. Their application is part of a transparent decision-making process, and the application of an embargo is reviewable.

Information about the principles that the ACMA uses when making administrative decisions can be found on the [How we plan and manage spectrum](#) page of the ACMA website.

## EXEMPTIONS

Exemptions may be given to an embargo where there is sufficient justification. All applications for frequency assignments in embargoed bands should be forwarded to the:

The Manager  
Spectrum Planning Section, ACMA  
PO Box 78, Belconnen, ACT, 2616

or by e-mail to [freqplan@acma.gov.au](mailto:freqplan@acma.gov.au)

for consideration on a case-by-case basis.

## REMARKS

This RALI replaces MS03 dated 10 March 2026. Embargo numbers are not re-used to maintain historical reference. Each new embargo is authorised by the RALI Authorisation of the delegated officer. The authorisation is updated when the embargo is amended.

# Embargoes

**EMBARGO 1**

**Status:** Lifted

**EMBARGO 2**

**Status:** Lifted

**EMBARGO 3**

**Status:** Lifted

**EMBARGO 4**

**Status:** Lifted

**EMBARGO 5**

**Status:** Lifted

**EMBARGO 6**

**Status:** Lifted

**EMBARGO 7**

**Status:** Lifted

**EMBARGO 8**

**Status:** Lifted

**EMBARGO 9**

**Status:** Lifted

**EMBARGO 10**

**Status:** Lifted

**EMBARGO 11**

**Status:** Lifted

**EMBARGO 12**

**Status:** Replaced by Embargo 15

**EMBARGO 13**

**Status:** Lifted

**EMBARGO 14**

**Status:** Lifted

**EMBARGO 15**

**Status:** Lifted

**EMBARGO 16**

**Status:** Lifted

**EMBARGO 17**

**Status:** Lifted

**EMBARGO 18**

**Status:** Replaced by Embargo 26

## EMBARGO 19

|                            |                                                                                                                      |
|----------------------------|----------------------------------------------------------------------------------------------------------------------|
| <b>FREQUENCY RANGE(S):</b> | 406.11875–406.61875 MHz<br>408.11875–408.61875 MHz<br>415.56875–416.06875 MHz<br>417.56875–418.06875 MHz             |
| <b>SUBJECT:</b>            | Trunked land mobile radio service (TLMRS)—<br>restriction on the assignment of certain channels in<br>specific areas |
| <b>DATE OF EFFECT:</b>     | September 1990 (last revised September 2007)                                                                         |
| <b>COVERAGE:</b>           | Any area outside a 100 km radius of Sydney,<br>Melbourne, Brisbane, Adelaide, Perth and Canberra.                    |
| <b>TIME FRAME:</b>         | Ongoing                                                                                                              |

### INSTRUCTIONS

No assignments are to be made to the TLMRS on the following channels except with the approval of the Manager, Spectrum Engineering Section: channels 1–40 and 161–200 for Sydney, Melbourne, Brisbane, Adelaide, Perth, and channels 1–15 for Canberra (406.11875–406.30625 MHz and 415.56875–415.75625 MHz). Refer to RALI MS22 and RALI LM8 Annex B for more detail.

### REASONS

Restrictions on the use of these channels will provide protection to 400 MHz wideband fixed service channels 2–2' and 3–3' (as detailed in RALI MS22), which overlap the TLMRS bands. As these wideband links are permitted only in areas beyond a 200 km radius of capital cities, there is effectively a 100 km "buffer zone" existing between the two areas.

This zone should ensure that mobile transmitters do not interfere with wideband links. It also allows for reasonable discretion to be used in considering cases where a proposed base station may be beyond the 100 km limit.

### HISTORY

In September 2007 the embargo was revised to include Canberra in the list of excluded areas, in recognition of an increase in the use of the TLMRS and no growth in the use of wideband links in this area over the last several years. Provision for the protection of existing links remains. The frequency range previously covered by this embargo (403–420 MHz) was refined to be more specific. Some editorial and formatting changes were also made.

### EMBARGO AUTHORISATION:

[signed] 27/09/07

Geoff McMillen  
Manager  
Spectrum Engineering Section  
Spectrum Planning Branch  
Australian Communications and Media Authority

**EMBARGO 20**

**Status:** Replaced by Embargo 23

**EMBARGO 21**

**Status:** Replaced by restrictions imposed by the 1.5 GHz Band Plan

**EMBARGO 22**

**Status:** Lifted

## EMBARGO 23

|                            |                                                                                                     |
|----------------------------|-----------------------------------------------------------------------------------------------------|
| <b>FREQUENCY RANGE(S):</b> | 1980–2010 MHz<br>2010–2110 MHz<br>2170–2200 MHz<br>2200–2300 MHz                                    |
| <b>SUBJECT:</b>            | Embargo on new assignments to support television outside broadcast and future replanning activities |
| <b>DATE OF EFFECT:</b>     | April 1996 (last revised February 2025)                                                             |
| <b>COVERAGE:</b>           | See instructions below                                                                              |
| <b>TIME FRAME:</b>         | Ongoing                                                                                             |

### INSTRUCTIONS

1. No new assignments are to be made Australia-wide in the 1980–2010 MHz and 2170–2200 MHz frequency bands. Application for exceptions will be considered by the Manager Space Systems Section as outlined below:
  - a. Assignments for television outside broadcast services in accordance with the [Radiocommunications \(Mobile-Satellite Service\) \(1980–2010 MHz and 2170–2200 MHz\) Frequency Band Plan 2022](#) (the MSS Band Plan):
    - i. Assignments in metropolitan areas and designated areas (as defined in the MSS Band Plan) may be supported prior to 1 March 2026 in accordance with sections 7(2) and 7(4) of the MSS Band Plan).
    - ii. Assignments outside metropolitan areas and designated areas, assignments to television outside broadcast services will only be supported in accordance with section 7(3) or 7(5) of the MSS Band Plan.
    - iii. Licences are to be non-renewal.
    - iv. Licences are to include the following user-defined conditions:

This licence authorises the operation television outside broadcast services in designated and metropolitan area as defined in the Radiocommunications (Mobile-Satellite Service) (1980–2010 MHz and 2170–2200 MHz) Frequency Band Plan 2022 from the commencement of this licence until 28 February 2026.

From the commencement of this licence until 28 February 2026, the operation of television outside broadcast services outside designated and metropolitan areas is not authorised unless the ACMA has advised the licensee in writing that the requirements of sections 7(3) or 7(5) of the Radiocommunications (Mobile-Satellite Service) (1980–2010 MHz and 2170–2200 MHz) Frequency Band Plan 2022 have been satisfied.
  - b. Assignments for space licences may be supported in the band 2195-2200 MHz in areas outside of metropolitan and designated areas as defined in the MSS Band Plan
  - c. Assignments for space receive licences may be supported in the band 2005-2009 MHz in areas outside of metropolitan and designated areas as defined in

the MSS Band Plan. Note: assignments for space receive licences are not allowed in 2009-2010 MHz.

2. No assignments of fixed or mobile services are to be made in the 2010–2110 MHz and 2200–2300 MHz frequency bands inside the areas detailed in Attachment 1. Application for television outside broadcast services will be considered on a case-by-case basis by the Manager Spectrum Engineering Section.
3. Assignments for earth stations (earth receive and fixed earth licence options) in the frequency range 2025-2110 MHz and 2200-2300 MHz, outside the Mingenew Earth Station Protection Zone (Attachment 2), will be considered on a case-by-case basis by the Manager Spectrum Planning Section. The restrictions of Embargo 23 do not apply to new or existing earth stations located in the Mingenew Earth Station Protection Zone (Attachment 2).

## REASONS

**Instruction 1:** This serves to facilitate the introduction of mobile satellite services into the band 1980-2010/2170-2200 MHz and the transition of television outside broadcast services (TOB) out of the band in accordance with the outcomes of [the 2 GHz replanning process](#) and timelines specified in the MSS Band Plan (by 1 March 2026 metropolitan and designated areas, by 1 March 2024 elsewhere). It also serves to protect adjacent band TOB services by not allowing the operation of uncoordinated earth station transmitters (via space receive apparatus licences) in the frequency range 2009-2010 MHz.

Note that under the Radiocommunications Act 1992 (the Act) operation of a radiocommunications transmitter is not authorised by a transmitter licence if it is not in accordance with the conditions of the licence (subsection 97(4) of the Act). Paragraph 108(2)(a) of the Act makes it a condition of each transmitter licence that the licensee, and any person authorised to operate a radiocommunications transmitter under the licence, must not operate, or permit the operation, of the transmitter for a purpose that is inconsistent with a purpose of a kind specified in the appropriate frequency band plan (if any).<sup>1</sup> The MSS Band Plan is relevant in this regard.

**Instruction 2:** This serves to support the operation of television outside broadcast services in accordance with the *Television Outside Broadcast Services (2010-2110 MHz and 2200-2300 MHz) Frequency Band Plan 2022* and RALI FX 21 Television Outside Broadcasting services in the bands 1980-2110 MHz and 2170-2300 MHz.

**Instruction 3:** This provision supports potential planning activity associated with current public consultation on the siting of earth stations particularly in relation to those within propagation distance of areas of high density radiocommunication. It also serves to support the operation of television outside broadcast services by restricting the areas in which earth stations are supported.

## HISTORY

Embargo 23 was originally issued in January 1993. The embargo has been revised several times between April 1994 and June 2002 and has changed significantly from its original form. More recent changes of relevance include the following:

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<sup>1</sup> Radiocommunications (Mobile-Satellite Service) (1980–2010 MHz and 2170–2200 MHz) Frequency Band Plan 2022 – Explanatory Statement

In August 2005 the embargo was extended to include fixed and mobile assignments in the 2025–2110 and 2200–2300 MHz bands.

In October 2005 the embargo was removed from remote density areas in the 2025–2110 and 2200–2300 MHz bands.

In September 2007 the embargo was revised to remove the reference to exemptions for the Melbourne 2006 Commonwealth Games, and to include some editorial and formatting changes.

In November 2010, the embargo was extended to include Ancillary Terrestrial Component (ATC) and Complementary Ground Component (CGC) services in the 1980–2010 and 2170–2200 MHz ranges. These services provide terrestrially based supplementation of services provided by stations in the mobile-satellite service. While there was international consideration of the approval for these services, this embargo provided the ACMA the ability to consider its position.

In April 2012, the embargo was revised to include the 2010-2025 MHz frequency band. That band was previously included in embargo 38 which has now been revoked. The embargo was also extended to facilitate the introduction of television outside broadcast services in the 1980-2110 MHz and 2170-2300 MHz frequency bands.

In May 2012, the embargo was revised to remove the area around Darwin for the 2200-2300 MHz frequency band that had been included by error.

In September 2013, instruction 1 of the embargo was revised to remove the restriction on television outside broadcast services in the bands 1980-2010 MHz and 2170-2200 MHz. The embargo on all other services is to preserve planning options while the future use of the band is under review as part of considerations [future spectrum requirements for mobile broadband](#).

In September 2013, instruction 2 was revised to allow application for television outside broadcast services to be considered on case-by-case basis by the Manager Spectrum Engineering Section pending finalisation of coordination arrangements for television outside broadcast services in the bands 2010-2110 MHz and 2200-2300 MHz

In January 2021, instruction 1 was revised following the ACMA's announcement of outcomes from the [2 GHz replanning process](#). TOB services are permitted to continue to operate in this band during the transition period but any new or reissued licences are limited to a period of no longer than 1 year. As recorded in the [Outcomes paper](#), the ACMA's preliminary view is that a timeframe of 5 years is appropriate in capital cities and a shorter period of 3 years is feasible in regional areas where TOB usage is minimal.

In January 2021, instruction 3 was revised so this embargo no longer applies to earth stations in the Mingenew Earth Station Protection Zone (Attachment 2). Also, the lower limit of the band for this instruction was revised from 2010 MHz to 2025 MHz to reflect current planning arrangements.

In January 2021, instruction 4 was removed as the restrictions outlined in Instruction 1 are considered sufficient.

In August 2022, instruction 1 was revised to support implementation of [2 GHz planning outcomes](#) including arrangements for [2 GHz narrowband mobile-satellite services](#) and transitional arrangements for TOB services.

In February 2025, instruction 1 was updated to provide information on TOB transitional arrangements between 1 March 2024 to 28 February 2026. The update added a requirement

for TOB licences to be non-renewable to ensure that TOB licences are issued only if in accordance with the MSS Band Plan.

**EMBARGO AUTHORISATION:**

[signed] 3/2/2025

Daniel Gocontas  
 Manager  
 Spectrum Planning Section  
 Spectrum Planning and Engineering Branch  
 Australian Communications and Media Authority

**ATTACHMENT 1:**

1. No assignments are to be made for fixed or mobile services in the 2010–2110 MHz frequency band in the geographic area described by a circle with a radius of 210 kilometres whose centre is located at a point specified in Table 1.
2. No assignments are to be made for fixed or mobile services in the 2200–2300 MHz frequency band in the geographic area described by a circle with a radius of 210 kilometres whose centre is located at a point specified in Table 2.
3. No assignments are to be made for fixed or mobile services in the 2010–2110 MHz and 2200–2300 MHz frequency bands inside or within 60 kilometres of the geographic area whose boundary is described by the coordinates specified in Table 3.

The datum used for all geographic coordinates in this attachment is the *Geocentric Datum of Australia 1994*.

**Table 1**

| ° South   | ° East     |
|-----------|------------|
| 31.95075  | 115.87204  |
| 31.953254 | 115.855373 |
| 32.012419 | 116.061762 |
| 32.008252 | 116.083985 |
| 31.878253 | 115.859817 |
| 32.057978 | 115.751210 |
| 12.463580 | 130.835066 |
| 12.464135 | 130.844233 |
| 12.448302 | 130.836455 |

**Table 2**

| ° South   | ° East     |
|-----------|------------|
| 31.95075  | 115.87204  |
| 31.953254 | 115.855373 |
| 32.012419 | 116.061762 |
| 32.008252 | 116.083985 |
| 31.878253 | 115.859817 |
| 32.057978 | 115.751210 |

**Table 3**

| ° South   | ° East     |
|-----------|------------|
| 31.998556 | 136.001359 |
| 31.998546 | 137.001345 |
| 31.998537 | 138.001335 |
| 31.998521 | 139.001320 |
| 31.998513 | 140.001305 |
| 31.998499 | 141.001291 |
| 32.998503 | 141.001301 |
| 32.998492 | 142.001289 |
| 32.998484 | 143.001274 |

| ° South   | ° East     |
|-----------|------------|
| 33.998489 | 143.001286 |
| 33.998479 | 144.001273 |
| 33.998470 | 145.001258 |
| 33.998459 | 146.001242 |
| 33.998450 | 147.001227 |
| 32.998449 | 147.001211 |
| 32.998441 | 148.001196 |
| 31.998441 | 148.001188 |
| 30.998441 | 148.001176 |

| ° South   | ° East     |
|-----------|------------|
| 30.998435 | 149.001159 |
| 29.998435 | 149.001149 |
| 28.998437 | 149.001143 |
| 28.998431 | 150.001125 |
| 27.998425 | 150.001112 |
| 26.998429 | 150.001100 |
| 25.998434 | 150.001089 |
| 24.998427 | 150.001086 |
| 24.998434 | 149.001105 |

| ° South   | ° East     |
|-----------|------------|
| 23.998440 | 149.001093 |
| 23.998448 | 148.001103 |
| 22.998453 | 148.001095 |
| 21.998461 | 148.001086 |
| 20.998461 | 148.001080 |
| 20.998461 | 147.001099 |
| 20.998467 | 146.001113 |
| 19.998468 | 146.001105 |
| 18.998468 | 146.001098 |
| 18.998472 | 145.001108 |
| 17.998480 | 145.001094 |
| 16.998479 | 145.001085 |
| 15.998479 | 145.001090 |
| 15.998478 | 146.001078 |
| 15.998474 | 147.001067 |
| 16.998469 | 147.001072 |
| 17.998465 | 147.001078 |
| 18.998465 | 147.001089 |
| 18.998456 | 148.001071 |
| 18.998451 | 149.001058 |
| 19.998451 | 149.001064 |
| 19.998441 | 150.001050 |
| 20.998438 | 150.001056 |
| 20.998432 | 151.001042 |
| 21.998429 | 151.001049 |
| 22.998434 | 151.001058 |
| 22.998420 | 152.001041 |

| ° South   | ° East     |
|-----------|------------|
| 23.998428 | 152.001046 |
| 23.998411 | 153.001033 |
| 23.998405 | 154.001018 |
| 24.998402 | 154.001025 |
| 25.998401 | 154.001033 |
| 26.998397 | 154.001041 |
| 27.998398 | 154.001049 |
| 28.998397 | 154.001059 |
| 29.998395 | 154.001068 |
| 30.998395 | 154.001078 |
| 31.998395 | 154.001088 |
| 31.998405 | 153.001103 |
| 32.998404 | 153.001116 |
| 32.998415 | 152.001132 |
| 33.998414 | 152.001145 |
| 34.998416 | 152.001158 |
| 34.998426 | 151.001172 |
| 35.998427 | 151.001188 |
| 36.998431 | 151.001203 |
| 37.998434 | 151.001218 |
| 37.998444 | 150.001236 |
| 37.998457 | 149.001255 |
| 38.998459 | 149.001268 |
| 39.998464 | 149.001286 |
| 40.998469 | 149.001304 |
| 41.998475 | 149.001323 |
| 42.998481 | 149.001343 |

| ° South   | ° East     |
|-----------|------------|
| 43.998488 | 149.001364 |
| 43.998499 | 148.001382 |
| 43.998511 | 147.001401 |
| 43.998522 | 146.001418 |
| 43.998534 | 145.001436 |
| 42.998527 | 145.001413 |
| 41.998522 | 145.001384 |
| 41.998531 | 144.001408 |
| 40.998524 | 144.001387 |
| 40.998536 | 143.001403 |
| 39.998529 | 143.001383 |
| 38.998522 | 143.001358 |
| 38.998534 | 142.001379 |
| 38.998546 | 141.001393 |
| 38.998557 | 140.001407 |
| 37.998545 | 140.001384 |
| 37.998562 | 139.001401 |
| 36.998554 | 139.001381 |
| 36.998567 | 138.001396 |
| 36.998578 | 137.001408 |
| 36.998590 | 136.001420 |
| 35.998576 | 136.001402 |
| 34.998562 | 136.001392 |
| 33.998560 | 136.001384 |
| 32.998557 | 136.001369 |
| 31.998556 | 136.001359 |

**ATTACHMENT 2:**

Earth Station Protection Zone area definition

| Area name | HCIS                                                                                           |
|-----------|------------------------------------------------------------------------------------------------|
| Mingenew  | BU4B, BU1N, BU1M6, BU1M8, BU1M9, BU1O4, BU1O7, BU1O8, BU4A2, BU4A3, BU4A6, BU4C1, BU4C2, BU4C4 |

This area has been taken from RALI MS44 (Frequency coordination procedures for the earth station protection zones).

**EMBARGO 24**

**Status:** Lifted

**EMBARGO 25**

**Status:** Lifted

**EMBARGO 26**

**Status:** Replaced by RALI SM26.

**EMBARGO 27**

**Status:** Replaced by Embargo 26

**EMBARGO 28**

**Status:** Lifted

**EMBARGO 29**

**Status:** Lifted

**EMBARGO 30**

**Status:** Lifted

**EMBARGO 31**

**Status:** Replaced by provisions in the Australian Radiofrequency Spectrum Plan

## EMBARGO 32

|                            |                                                                                                       |
|----------------------------|-------------------------------------------------------------------------------------------------------|
| <b>FREQUENCY RANGE(S):</b> | 168–174 MHz                                                                                           |
| <b>SUBJECT:</b>            | Embargo on new assignments to support the introduction of digital terrestrial television broadcasting |
| <b>DATE OF EFFECT:</b>     | September 2000 (last revised September 2007)                                                          |
| <b>COVERAGE:</b>           | Around the geographic locations specified in Attachment A                                             |
| <b>TIME FRAME:</b>         | Until further notice                                                                                  |

### INSTRUCTIONS

No assignments for new fixed or mobile services are to be made in the frequency band 168–174 MHz within the limits specified in Table A around the sites listed in Table B of Attachment A.

### REASONS

Operation of fixed or mobile services in this band in the vicinity of the television broadcasting sites listed in Table B of Attachment A may be affected by the introduction of digital terrestrial television broadcasting (DTTB).

### COMMENTS

The VHF land mobile spectrum adjacent to TV channel 6 may be affected by out-of-band emissions from DTTB services on TV channel 6. As planning of DTTB services Australia-wide is not complete, the list of sites has been compiled from completed digital channel plans and a list of existing analog TV channel 7 sites which could potentially have channel 6 DTTB services associated with them.

Table B will be revised as DTTB planning progresses.

### HISTORY

In December 2001 the embargo was revised to include an update of the frequency bands and exclusion distances in Table A based on new information on combiner filtering of the DTTB transmitter out-of-band emissions. The list of sites in Table B was also updated to include information available in digital channel plans completed since the initial release of this embargo.

The March 2002, July 2002, May 2003 and August 2003 revisions also included updates to Table B based on digital channel plans completed since the previous update of this embargo.

In September 2007 the embargo was revised to update Table B based on information available in digital channel plans completed since the previous release of this embargo, and has limited the inclusion of sites to those where channel 7 analog television services currently operate with ERPs of 500 W or more. Some editorial and formatting changes were also made.

### EMBARGO AUTHORISATION:

[signed] 27/09/2012

Geoff McMillen  
Manager  
Spectrum Engineering Section  
Spectrum Planning Branch  
Australian Communications and Media Authority

**Attachment A:**

No assignments for new fixed or mobile services should be made in the frequency band 168–174 MHz within the frequency/distance limits specified in Table A of the sites listed in Table B.

**Table A**

| Frequency band  | Exclusion distance from site in Table B |
|-----------------|-----------------------------------------|
| 168.0–172.8 MHz | 3 km                                    |
| 172.8–173.3 MHz | 10 km                                   |
| 173.3–174.0 MHz | 60 km                                   |

**Table B**

| Site name                                | Latitude (DMS) | Longitude (DMS) |
|------------------------------------------|----------------|-----------------|
| <b>ACT</b>                               |                |                 |
| Canberra – Black Mountain                | -35 16 38      | 149 05 48       |
| <b>NSW</b>                               |                |                 |
| Sydney – Artarmon                        | -33 48 25      | 151 10 49       |
| Sydney – Willoughby                      | -33 48 48      | 151 11 41       |
| Murrumbidgee Irrigation Area – Mt Bingar | -34 07 23      | 146 14 02       |
| Bourke – Mt Oxley                        | -30 12 03      | 146 14 22       |
| <b>VIC</b>                               |                |                 |
| Melbourne – Mt Dandenong – HSV7 site     | -37 50 13      | 145 20 47       |
| Melbourne – Mt Dandenong – ATV10 site    | -37 50 20      | 145 20 43       |
| Western Victoria – Mt Dundas             | -37 27 37      | 141 54 53       |
| <b>QLD</b>                               |                |                 |
| Brisbane – Mt Cootha – BTQ7 site         | -27 28 05      | 152 56 32       |
| Brisbane – Mt Cootha – Q10 site          | -27 27 53      | 152 56 49       |
| Cairns – Mt Bellenden Ker                | -17 15 57      | 145 51 09       |
| Roma – Timbury Hills                     | -26 34 27      | 148 50 56       |
| Jericho – Colorado                       | -23 37 35      | 146 15 18       |
| Weipa                                    | -12 37 30      | 141 53 00       |
| <b>SA</b>                                |                |                 |
| Adelaide – Mt Lofty – 7 / 10 site        | -34 58 57      | 138 42 24       |
| Adelaide – Mt Lofty – 9 site             | -34 59 02      | 138 42 25       |
| Ceduna                                   | -32 09 14      | 133 45 14       |
| <b>WA</b>                                |                |                 |
| Perth – Bickley                          | -32 00 34      | 116 04 58       |
| Perth – Carmel                           | -32 00 50      | 116 03 37       |
| Port Hedland                             | -20 22 15      | 118 33 42       |
| Katanning – Fairfield                    | -33 47 34      | 117 30 58       |
| Carnarvon                                | -24 54 25      | 113 43 07       |
| <b>NT</b>                                |                |                 |
| Katherine                                | -14 28 25      | 132 16 40       |
| Alice Springs – West Gap                 | -23 43 26      | 133 51 19       |
| Tennant Creek                            | -19 38 13      | 134 13 48       |

**EMBARGO 33**

**Status:** Replaced by provisions in the Australian Radiofrequency Spectrum Plan

**EMBARGO 34**

**Status:** Superseded by Embargo 64

**EMBARGO 35**

**Status:** Superseded by Embargo 50

**EMBARGO 36**

**Status:** Superseded by Embargo 50

**EMBARGO 37**

**Status:** Replaced by Embargo 23

**EMBARGO 38**

**Status:** Lifted

## EMBARGO 39

|                            |                                                                                                                               |
|----------------------------|-------------------------------------------------------------------------------------------------------------------------------|
| <b>FREQUENCY RANGE(S):</b> | 5725–5850 MHz                                                                                                                 |
| <b>SUBJECT:</b>            | Embargo on fixed service assignments to provide limited support to 5.8 GHz fixed links and to protect radiolocation receivers |
| <b>DATE OF EFFECT:</b>     | 25 November 2004 (last revised September 2007)                                                                                |
| <b>COVERAGE:</b>           | As specified in Tables A and B of <u>Attachment 1</u>                                                                         |
| <b>TIME FRAME:</b>         | Ongoing                                                                                                                       |

### INSTRUCTIONS

No fixed service assignments are to be made in the frequency ranges/geographic areas specified in Table A and Table B of Attachment 1.

### REASONS

This embargo has been introduced to:

1. preserve opportunities for devices authorised under class licensing arrangements in the subject band (in particular in larger population areas defined in Table B1 of Attachment 1); and
2. provide protection for radiolocation receivers used for defence purposes within areas defined in Table B2 of Attachment 1.

### COMMENTS

The 5725–5850 MHz band is used, or is available for use, by:

- the radiolocation service (under a primary allocation that provides that the use is principally for the purposes of defence);
- the amateur and amateur-satellite (space-to-Earth) services (under secondary allocations);
- a wide variety of short range devices under class licensing arrangements; and
- industrial, scientific and medical (ISM) applications which use radiofrequency energy locally for non-radiocommunication purposes.

### HISTORY

In September 2007 the embargo was revised to include editorial and formatting changes.

### EMBARGO AUTHORISATION:

[signed] 27/09/2007

Geoff McMillen  
Manager  
Spectrum Engineering Section  
Spectrum Planning Branch  
Australian Communications and Media Authority

## Attachment 1

1. No fixed service assignments should be made in the frequency ranges specified in Table A.

**Table A**

| Frequency range | Exclusion area |
|-----------------|----------------|
| 5725–5735 MHz   | Australia-wide |
| 5755–5775 MHz   | Australia-wide |
| 5795–5850 MHz   | Australia-wide |

2. In the frequency ranges specified in Table B, no fixed service assignments should be made in the geographic areas specified in Table B.

**Table B**

| Frequency range                | Exclusion zones (to be applied simultaneously)                                                                                                                                                                                                                                                                                                                 |
|--------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 5735–5755 MHz<br>5775–5795 MHz | High density areas and medium density areas as defined in Schedule 1 of the <a href="#">Radiocommunications (Transmitter Licence Tax) Determination 2015<sup>2</sup></a> .<br><br>Within the circles defined by the centroid coordinates and radii listed in Table B1.<br><br>Within the areas enclosed by polygons defined by coordinates listed in Table B2. |

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<sup>2</sup> Diagrams illustrating these areas can be found in Appendix F of the [Apparatus Licence Fee Schedule](#).

**Table B1**

| State/<br>territory | Site name                                                  | Centroid coordinates |            | Radius<br>(km) |
|---------------------|------------------------------------------------------------|----------------------|------------|----------------|
|                     |                                                            | Latitude             | Longitude  |                |
| ACT/NSW             | Canberra/Queanbeyan (Capital Hill)                         | -35.310000           | 149.120000 | 25             |
| NSW                 | Armidale                                                   | -30.516667           | 151.666667 | 20             |
| NSW                 | Bathurst                                                   | -33.416667           | 149.583333 | 20             |
| NSW                 | Coffs Harbour                                              | -30.300000           | 153.133333 | 20             |
| NSW                 | Dubbo                                                      | -32.250000           | 148.616667 | 20             |
| NSW                 | Goulburn                                                   | -34.750000           | 149.716667 | 20             |
| NSW                 | Lismore                                                    | -28.816667           | 153.266667 | 20             |
| NSW                 | Nowra                                                      | -34.883333           | 150.600000 | 20             |
| NSW                 | Orange                                                     | -33.283333           | 149.100000 | 20             |
| NSW                 | Port Macquarie                                             | -31.450000           | 152.916667 | 20             |
| NSW                 | Tamworth                                                   | -31.083333           | 150.933333 | 20             |
| NSW                 | Wagga Wagga                                                | -35.116667           | 147.366667 | 20             |
| NSW/VIC             | Albury/Wodonga<br>(Wodonga town centre)                    | -36.116667           | 146.883333 | 20             |
| VIC                 | Ballarat                                                   | -37.566667           | 143.850000 | 20             |
| VIC                 | Bendigo                                                    | -36.766667           | 144.283333 | 20             |
| VIC                 | Mildura                                                    | -34.183333           | 142.166667 | 20             |
| VIC                 | Shepparton/Mooroopna                                       | -36.383333           | 145.400000 | 20             |
| VIC                 | Warrnambool                                                | -38.383333           | 142.483333 | 20             |
| QLD                 | Bundaberg                                                  | -24.866667           | 152.350000 | 20             |
| QLD                 | Cairns                                                     | -16.916667           | 145.766667 | 20             |
| QLD                 | Caloundra/Kawana Waters                                    | -26.800000           | 153.133333 | 20             |
| QLD                 | Gladstone                                                  | -23.850000           | 151.266667 | 20             |
| QLD                 | Hervey Bay                                                 | -25.290000           | 152.850000 | 20             |
| QLD                 | Mackay                                                     | -21.150000           | 149.183333 | 20             |
| QLD                 | Maroochydore/Mooloolaba/Buderim                            | -26.650000           | 153.100000 | 20             |
| QLD                 | Maryborough                                                | -25.533333           | 152.700000 | 20             |
| QLD                 | Mt Isa                                                     | -20.733333           | 139.483333 | 20             |
| QLD                 | Rockhampton                                                | -23.366667           | 150.533333 | 20             |
| QLD                 | Tewantin-Noosa                                             | -26.400000           | 153.066667 | 20             |
| QLD                 | Toowoomba                                                  | -27.566667           | 151.950000 | 20             |
| QLD                 | Townsville/Thuringowa<br>(centre of Townsville urban area) | -19.260000           | 146.810000 | 20             |
| SA                  | Mt Gambier                                                 | -37.833333           | 140.783333 | 20             |
| SA                  | Whyalla                                                    | -33.033333           | 137.600000 | 20             |
| WA                  | Albany                                                     | -35.000000           | 117.866667 | 20             |
| WA                  | Bunbury                                                    | -33.333333           | 115.633333 | 20             |
| WA                  | Geraldton                                                  | -28.766667           | 114.616667 | 20             |
| WA                  | Mandurah                                                   | -32.533333           | 115.716667 | 20             |
| WA                  | Kalgoorlie/Boulder                                         | -30.750000           | 121.466667 | 20             |
| TAS                 | Devonport                                                  | -41.183333           | 146.350000 | 20             |
| TAS                 | Hobart—New Town                                            | -42.860000           | 147.300000 | 25             |
| TAS                 | Launceston                                                 | -41.450000           | 147.166667 | 20             |
| NT                  | Alice Springs                                              | -23.700000           | 133.866667 | 20             |
| NT                  | Darwin-Palmerston<br>(Palmerston town centre)              | -12.482222           | 130.982778 | 25             |

**Table B2 (in five parts)**

| <b>Shoalwater Bay—QLD</b> |                 |                  |
|---------------------------|-----------------|------------------|
| <b>Point</b>              | <b>Latitude</b> | <b>Longitude</b> |
| 1                         | -22.767211      | 150.765770       |
| 2                         | -22.758374      | 150.767852       |
| 3                         | -22.744160      | 150.720385       |
| 4                         | -22.757631      | 150.715294       |
| 5                         | -22.743752      | 150.641557       |
| 6                         | -22.750821      | 150.620010       |
| 7                         | -22.759017      | 150.624735       |
| 8                         | -22.850781      | 150.613412       |
| 9                         | -22.850338      | 150.584197       |
| 10                        | -22.897435      | 150.594082       |
| 11                        | -22.884900      | 150.474451       |
| 12                        | -22.844289      | 150.475202       |
| 13                        | -22.818367      | 150.334494       |
| 14                        | -22.832383      | 150.309875       |
| 15                        | -22.849077      | 150.220907       |
| 16                        | -22.807859      | 150.195470       |
| 17                        | -22.765399      | 150.236231       |
| 18                        | -22.754388      | 150.234519       |
| 19                        | -22.752759      | 150.143073       |
| 20                        | -22.730292      | 150.147919       |
| 21                        | -22.709445      | 150.143000       |
| 22                        | -22.634488      | 150.090591       |
| 23                        | -22.457819      | 150.094766       |
| 24                        | -22.252500      | 150.011111       |
| 25                        | -22.100000      | 150.500000       |
| 26                        | -22.100000      | 150.750000       |
| 27                        | -22.801876      | 150.983349       |

| <b>Woomera—SA</b> |                 |                  |
|-------------------|-----------------|------------------|
| <b>Point</b>      | <b>Latitude</b> | <b>Longitude</b> |
| 1                 | -27.833333      | 133.833333       |
| 2                 | -28.566667      | 133.833333       |
| 3                 | -29.116667      | 134.366667       |
| 4                 | -29.116667      | 134.950000       |
| 5                 | -28.716667      | 135.166667       |
| 6                 | -28.716667      | 135.750000       |
| 7                 | -29.300000      | 136.600000       |
| 8                 | -30.325556      | 136.983056       |
| 9                 | -30.533333      | 137.283333       |
| 10                | -30.678333      | 137.333889       |
| 11                | -30.866667      | 137.400000       |
| 12                | -31.197222      | 137.357222       |
| 13                | -31.581389      | 137.009722       |
| 14                | -31.387778      | 136.352222       |
| 15                | -31.111667      | 136.214167       |
| 16                | -30.561667      | 133.921944       |
| 17                | -30.430278      | 132.260000       |
| 18                | -30.083333      | 132.000000       |
| 19                | -29.900000      | 131.500000       |
| 20                | -28.133333      | 131.500000       |
| 21                | -28.133333      | 132.000000       |
| 22                | -27.833333      | 132.000000       |

| <b>Zone 1—NT</b> |                 |                  |
|------------------|-----------------|------------------|
| <b>Point</b>     | <b>Latitude</b> | <b>Longitude</b> |
| 1                | -12.004700      | 130.914700       |
| 2                | -9.912200       | 130.868600       |
| 3                | -10.403800      | 132.419700       |
| 4                | -11.683600      | 133.344400       |
| 5                | -12.314700      | 131.317500       |
| 6                | -12.086900      | 131.159700       |

| <b>Mt Bundy—NT</b> |                 |                  |
|--------------------|-----------------|------------------|
| <b>Point</b>       | <b>Latitude</b> | <b>Longitude</b> |
| 1                  | -12.823300      | 131.968800       |
| 2                  | -12.920200      | 131.968800       |
| 3                  | -12.920200      | 132.070000       |
| 4                  | -13.173000      | 132.072200       |
| 5                  | -13.173000      | 131.875000       |
| 6                  | -12.918600      | 131.685000       |
| 7                  | -12.918000      | 131.783600       |
| 8                  | -12.857700      | 131.783600       |

| <b>Zone 2—NT</b> |                 |                  |
|------------------|-----------------|------------------|
| <b>Point</b>     | <b>Latitude</b> | <b>Longitude</b> |
| 1                | -14.000000      | 131.000000       |
| 2                | -14.000000      | 131.923000       |
| 3                | -14.171900      | 132.007500       |
| 4                | -14.780800      | 131.936400       |
| 5                | -15.023000      | 132.376600       |
| 6                | -16.194700      | 132.376600       |
| 7                | -16.230962      | 132.212901       |
| 8                | -16.245936      | 131.810228       |
| 9                | -16.046290      | 131.235872       |
| 10               | -15.350000      | 131.000000       |
| 11               | -15.350000      | 130.801410       |
| 12               | -15.537610      | 130.801410       |
| 13               | -15.556580      | 130.746620       |
| 14               | -15.625150      | 130.685830       |
| 15               | -15.591170      | 130.497560       |
| 16               | -15.629770      | 130.428150       |
| 17               | -15.559850      | 130.363980       |
| 18               | -15.472980      | 130.365055       |
| 19               | -15.418750      | 130.003790       |
| 20               | -15.457090      | 129.943370       |
| 21               | -15.431370      | 129.848300       |
| 22               | -15.177530      | 129.768400       |
| 23               | -14.830000      | 129.461600       |
| 24               | -11.500500      | 128.171600       |
| 25               | -12.289100      | 130.503000       |
| 26               | -12.822222      | 130.777500       |
| 27               | -14.784428      | 130.027045       |
| 28               | -14.789580      | 130.175340       |
| 29               | -14.893410      | 130.266630       |
| 30               | -14.825000      | 130.633300       |
| 31               | -14.929100      | 130.741600       |
| 32               | -14.929100      | 131.000000       |

**EMBARGO 40**

**Status:** Lifted

## EMBARGO 41

**Status:** Replaced by conditions in the Radiocommunications (Australian Radio Quiet Zone Western Australia) Frequency Band Plan 2023

**EMBARGO 42**

**Status:** Lifted

**EMBARGO 43**

**Status:** Replaced by Embargo 26

## EMBARGO 44

|                            |                                                                                                                                                                   |
|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>FREQUENCY RANGE(S):</b> | 5950–6200 kHz<br>7100–7300 kHz<br>9500–9900 kHz<br>11650–12050 kHz<br>13600–13800 kHz<br>15100–15600 kHz<br>17550–17900 kHz<br>21450–21850 kHz<br>25670–26100 kHz |
| <b>SUBJECT:</b>            | Embargo on new frequency assignments to support domestic broadcasting services using DRM technology                                                               |
| <b>DATE OF EFFECT:</b>     | 18 September 2006 (last revised September 2007)                                                                                                                   |
| <b>COVERAGE:</b>           | Australia-wide                                                                                                                                                    |
| <b>TIME FRAME:</b>         | Ongoing                                                                                                                                                           |

### INSTRUCTIONS

No new assignments are to be made Australia-wide in the frequency bands listed above. This includes assignments for existing licensees seeking to expand or modify their communications systems in the bands.

The frequency requirements of existing licensees of overseas HF broadcasting services will continue to be licensed for those frequencies coordinated in accordance with Article 12 of the *Radio Regulations* of the International Telecommunication Union (ITU).

Exceptions to this embargo require case-by-case consideration and the approval of the Manager, Spectrum Engineering Section. ACMA will consider licence applications for trials to investigate use of the bands for Digital Radio Mondiale (DRM).

### REASONS

The purpose of this embargo is to support planning of the bands to accommodate domestic broadcasting services using DRM technology. ACMA is currently considering international developments of DRM using these bands and needs to preserve the availability of the bands for potential future use by DRM services in Australia.

The bands are embargoed to ensure that ACMA's ability to implement the resulting planning arrangements is not constrained by the use of the bands by additional radiocommunications services.

### COMMENTS

DRM is a digital broadcasting system that has received wide international support, including the development of receivers by international equipment manufacturers and international trials of the technology since 2003. The extent of the developments, trial outcomes, and interest in use of the band for DRM by Australian parties requires ACMA to assess DRM developments and preserve the bands while planning occurs.

Existing ITU arrangements for the bands will need to be considered in light of current interests in the band for DRM.

### HISTORY

In September 2007 the embargo was revised to include editorial changes.

**EMBARGO AUTHORISATION:**

[signed] 27/09/2007

Geoff McMillen  
Manager  
Spectrum Engineering Section  
Spectrum Planning Branch  
Australian Communications and Media Authority

## EMBARGO 45

|                            |                                                                                                                                                  |
|----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>FREQUENCY RANGE(S):</b> | 518–520 MHz                                                                                                                                      |
| <b>SUBJECT:</b>            | Embargo on new frequency assignments to support the expansion of UHF TV channel 27 and to preserve planning options for adjacent channel sharing |
| <b>DATE OF EFFECT:</b>     | 6 October 2006 (last revised September 2007)                                                                                                     |
| <b>COVERAGE:</b>           | Australia-wide                                                                                                                                   |
| <b>TIME FRAME:</b>         | Until further notice                                                                                                                             |

### INSTRUCTIONS

No new assignments are to be made Australia-wide in the frequency band 518–520 MHz. This includes assignments for existing licensees seeking to expand or modify their communications systems in the bands.

Exemptions to this embargo require case-by-case consideration and the approval of the Manager, Spectrum Engineering Section. Applications for exemption in remote areas will be considered; it is anticipated that no exemptions will be granted in high, medium or low density geographic locations.

### REASONS

The purpose of the embargo on 519–520 MHz is to support the expansion of UHF television channel 27. This channel is currently 6 MHz wide; a channel of 7 MHz width is required to accommodate a standard analog or digital television emission.

The purpose of the embargo on 518–519 MHz is to preserve planning options for adjacent channel sharing. These parameters will be established once the future of channel 27 is decided.

The band is embargoed to ensure that ACMA's ability to implement the resulting planning arrangements is not constrained by the use of the bands by additional radiocommunications services.

### HISTORY

In September 2007 the embargo was revised to include editorial and formatting changes.

### EMBARGO AUTHORISATION:

[signed] 27/09/2007

Geoff McMillen  
Manager  
Spectrum Engineering Section  
Spectrum Planning Branch  
Australian Communications and Media Authority

## EMBARGO 46

|                            |                                                                                                                                                                                      |
|----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>FREQUENCY RANGE(S):</b> | 5900–5950 kHz<br>7300–7350 kHz<br>9400–9500 kHz<br>11600–11650 kHz<br>12050–12100 kHz<br>13570–13600 kHz<br>13800–13870 kHz<br>15600–15800 kHz<br>17480–17550 kHz<br>18900–19020 kHz |
| <b>SUBJECT:</b>            | Embargo on new frequency assignments to encourage the introduction of digitally modulated emissions for broadcasting services in HF bands                                            |
| <b>DATE OF EFFECT:</b>     | 6 February 2007 (last revised September 2007)                                                                                                                                        |
| <b>COVERAGE:</b>           | Australia-wide                                                                                                                                                                       |
| <b>TIME FRAME:</b>         | Ongoing                                                                                                                                                                              |

### INSTRUCTIONS

No new frequency assignments are to be made for any location in Australia or its Territories and adjacent areas in the frequency bands listed above. This includes frequency assignments for existing licensees seeking to expand or modify their radiocommunications systems in the bands.

Exceptions to this embargo require case-by-case consideration and the approval of the Manager, Spectrum Engineering Section. ACMA will consider licence applications for frequency assignments for existing licensees of overseas HF broadcasting services using digitally modulated emissions in accordance with the provisions of Resolution 517 of the International Telecommunication Union (ITU) for those frequencies coordinated in accordance with Article 12 of the *Radio Regulations* of the ITU.

### REASON

The World Administrative Radio Conference of the ITU held in 1992 made decisions concerning the above frequency bands that from 1 April 2007 will result in changed status for existing fixed and mobile services with the introduction of broadcasting services. In Australia, existing services may continue to operate provided that their communication is limited to within the boundary of Australia and on the condition that harmful interference is not caused to the broadcasting service. In addition, existing services must accept interference from broadcasting services.

The ITU World Radiocommunication Conference held in 2003 urged administrations to use the above bands to facilitate the introduction of digitally modulated emissions for broadcasting services in accordance with the provisions of ITU Resolution 517 (Rev. WRC-03).

In addition, ACMA intends to implement the intention of the Australian Government to facilitate the introduction of digital radio by inclusion of the above bands in its planning for the introduction of digital radio.

Considering these reasons it is necessary to regulate use of the bands to facilitate these outcomes. This embargo is intended to do this by encouraging the introduction of digitally modulated emissions for broadcasting services and limiting the use of other emissions.

### COMMENTS

Digitally modulated emissions for broadcasting services potentially provide efficiencies in spectrum use and provide significant benefits for users including greater program quality and

service availability. The radiofrequency spectrum is a finite resource of significant value to the Australian community. ACMA responsibilities include its management for the overall public benefit to which end ACMA facilitates its efficient use and methods to improve services it supports.

## **HISTORY**

In September 2007 the embargo was revised to include minor editorial changes.

## **EMBARGO AUTHORISATION:**

[signed]                      27/09/2007

Geoff McMillen  
Manager  
Spectrum Engineering Section  
Spectrum Planning Branch  
Australian Communications and Media Authority

## EMBARGO 47

|                            |                                                                                          |
|----------------------------|------------------------------------------------------------------------------------------|
| <b>FREQUENCY RANGE(S):</b> | 7250–7750 MHz<br>7900–8400 MHz<br>10.95–12.75 GHz<br>13.75–14.50 GHz                     |
| <b>SUBJECT:</b>            | Embargo on new frequency assignments for stations in terrestrial services near Geraldton |
| <b>DATE OF EFFECT:</b>     | 24 September 2007                                                                        |
| <b>COVERAGE:</b>           | Within 75 km of latitude 28° 41' 38" south, longitude 114° 50' 43" east (GDA94)          |
| <b>TIME FRAME:</b>         | Until further notice                                                                     |

### INSTRUCTIONS

No new assignments are to be made in the frequency bands 7250–7750 MHz, 7900–8400 MHz, 10.95–12.75 GHz and 13.75–14.5 GHz within 75 km of latitude 28° 41' 38" south, longitude 114° 50' 43" east (near Kojarena, Western Australia). The embargo applies to all apparatus-licensed terrestrial stations (including those in the fixed and mobile services) located within the specified zone. This includes assignments for existing licensees seeking to expand or modify their radiocommunications systems in the bands.

This embargo does not apply to assignments for satellite Earth stations consistent with relevant planning arrangements.

Exceptions to this embargo require case-by-case consideration and the approval of the Manager, Spectrum Engineering Section. Exemptions will only be granted if the proposed assignments can be shown to successfully coordinate with planned geostationary satellite orbit Earth station operations at this location.

### REASON

The purpose of the embargo is to support planned activities at the Australian Defence Satellite Communication Station (ADSCS) located at Kojarena, near Geraldton, WA.

### EMBARGO AUTHORISATION:

[signed] 26/09/2007

Geoff McMillen  
Manager  
Spectrum Engineering Section  
Spectrum Planning Branch  
Australian Communications and Media Authority

## EMBARGO 48

|                         |                                                                                                                |
|-------------------------|----------------------------------------------------------------------------------------------------------------|
| <b>FREQUENCY RANGE:</b> | 5850–5925 MHz                                                                                                  |
| <b>SUBJECT:</b>         | Embargo on new frequency assignments to support planning for the introduction of intelligent transport systems |
| <b>DATE OF EFFECT:</b>  | 24 April 2008                                                                                                  |
| <b>COVERAGE:</b>        | Australia-wide                                                                                                 |
| <b>TIME FRAME:</b>      | Until further notice                                                                                           |

### INSTRUCTIONS

No new frequency assignments are to be made in the frequency band 5850–5925 MHz. The embargo applies to all apparatus-licensed stations for any location in Australia or its Territories. This includes frequency assignments for existing licensees seeking to expand or modify their radiocommunications systems in the band.

This embargo also applies to proposed services, any part of whose necessary emission bandwidth is within the embargoed frequency band, and includes channel 1 of the interleaved channelling plan for the 6 GHz band described in the Radiocommunications Assignment and Licensing Instruction (RALI) FX 3.

Exceptions to this embargo require case-by-case consideration and the approval of the Manager, Spectrum Engineering Section.

### REASON

The purpose of the embargo is to support planning for the introduction of intelligent transport systems (ITS) into Australia. ACMA is considering the international development of regulatory and channelling arrangements, and the development of Australian requirements, for ITS in the band; and needs to preserve the availability of the band for future use by ITS in Australia.

### COMMENTS

ITS involves the application of information and communications technology (ICT) to solve transport issues such as safety, mobility and pollution. ITS uses a broad range of wireless technologies intended to be incorporated in transport system infrastructure and in vehicles. ITS uses dedicated short-range communications (DSRC) technologies and typically involves data transfer over short distances between infrastructure and vehicles, and between vehicles. The introduction of ITS and the planning of its spectrum requirements is supported by Australian road safety and planning authorities.

### EMBARGO AUTHORISATION:

[signed] 24/04/2008

Geoff McMillen  
Manager  
Spectrum Engineering Section  
Spectrum Planning Branch  
Australian Communications and Media Authority

## EMBARGO 49

|                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>FREQUENCY RANGE(S):</b> | 2015–2100 MHz<br>2100–2130 MHz<br>2190–2280 MHz<br>2280–2310 MHz<br>6700–7075 MHz<br>7135–7245 MHz<br>7250–7750 MHz<br>7900–8390 MHz<br>8390–8460 MHz<br>8460–8510 MHz<br>8540–8660 MHz<br>10700–14800 MHz<br>15349–15410 MHz<br>15430–15630 MHz<br>17200–21400 MHz<br>22200–22510 MHz<br>29500–31000 MHz<br>33400–36000 MHz<br>37500–43500 MHz<br>47200–51400 MHz<br>52590–59300 MHz                                                                                                                           |
| <b>SUBJECT:</b>            | Embargo on new frequency assignments for terrestrial radiocommunication services                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>DATE OF EFFECT:</b>     | 2 April 2009 (last revised 28 July 2022)                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>COVERAGE:</b>           | Within the following distances from Depot Hill Road site, Yarragadee, 18.5 kilometres NW of Mingenew, Western Australia (29 degrees, 2 minutes, 47 seconds South Latitude and 115 degrees, 20 minutes, 35 seconds East Longitude): <ul style="list-style-type: none"><li>• 300 kilometres for 2100–2130 MHz, 2280–2310 MHz;</li><li>• 190 kilometres for 7135–7200 MHz and 8390–8460 MHz; otherwise</li><li>• 150 kilometres for bands below 12 GHz;</li><li>• 100 kilometres for bands above 12 GHz.</li></ul> |
| <b>TIME FRAME:</b>         | Until further notice                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |

### INSTRUCTIONS

No new frequency assignments for terrestrial services are to be made within the specified distances of the Mingenew site, Western Australia in the frequency bands listed above. This includes assignments for existing licensees seeking to expand or modify their communications systems in the bands.

Terrestrial services are all services other than the space research service and Earth stations communicating with space objects (GSO and non-GSO communications satellites).

The embargo does not apply to stations operated by Australian Defence Force or the Department of Defence in the band 8500–8510 MHz.

Exceptions to this embargo require case-by-case consideration and the approval of the Manager, Spectrum Planning Section.

## **REASONS**

The purpose of this embargo is to support the development of space communications facilities in the general area of the Mingenew site. Space communications stations typically have particular interference protection requirements and can result in unacceptably large areas of spectrum denial to terrestrial services. In addition, consequences of communications failure due to interference can have unacceptable consequences for some space activities particularly space exploration in the space research service. The potential impact of space communications services on spectrum availability for other services is such that ACMA encourages restriction of their operation to locations beyond propagation range of areas of significant spectrum use by other services.

## **COMMENTS**

Lead times for planning space communications, including deep space for space research, are typically many years. In order for such planning to have certainty of spectrum access it is necessary for spectrum to be withheld from other services for considerable periods of time. This requirement can be difficult to satisfy in areas of spectrum demand by terrestrial services. Considering this, ACMA encourages the siting of such stations at locations beyond propagation range of areas of spectrum demand in order to minimise the impact on spectrum availability for other services. The Mingenew site is one such location which ACMA intends to protect for space related communications activities.

The 300 kilometres criterion for 2100–2130 MHz and 2280–2310 MHz and the 190 kilometres criterion for 7135–7200 MHz and 8390–8460 MHz recognise the particular requirements for deep-space communications involving space exploration missions and the interference protection levels specified in the Radio Regulations of the International Telecommunication Union.

Note that embargo 23 also applies limitation on the bands 2190–2300 MHz and 2015–2110 MHz to facilitate the introduction of television outside broadcast services. Arrangements for the coordination and operation of TOB services with respect to Mingenew are contained in RALI FX 21 and that RALI should be referred to when considering assignments for TOB services in bands covered by this embargo.

## **HISTORY**

This embargo was put in place in April 2009 to support the development of space communications facilities in low spectrum impact areas.

This embargo was updated in July 2015 to include minor additions (2015–2025 MHz, 2190–2200 MHz, 7200–7245 MHz and 8500–8510 MHz) to existing frequency ranges to further encourage the support the development of space communications facilities in the general area of the Mingenew site.

In August 2019, 3400–4200 MHz and 5850–6700 MHz bands were removed from embargo 49. These bands are now subject to the coordination procedures contained in RALI MS 44.

In July 2022, the frequency ranges 24.75-25.25 GHz and 25.5-29.5 GHz were removed from Embargo 49. These bands are now subject to the coordination procedures contained in RALI MS44 and RALI MS46 which maintain the intent of Embargo 49, which is to protect and preserve the utility of the Mingenew area for current and future earth stations.

## **EMBARGO AUTHORISATION:**

Approved 25/07/2022

Chris Worley  
Manager, Spectrum Planning Section  
Spectrum Planning and Engineering Branch  
Australian Communications & Media Authority

## EMBARGO 50

|                          |                                                                                                                                                                                                                                                               |
|--------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>FREQUENCY RANGES:</b> | 403–403.9875 MHz<br>405.0125–406 MHz<br>409.0375–410.5375 MHz<br>412.4625–413.4375 MHz<br>414.4625–415.5625 MHz<br>418.4875–420 MHz<br>420–420.75 MHz<br>421.25–424.75 MHz<br>425.25–427.75 MHz<br>428.25–430 MHz<br>457.5–459.9875 MHz<br>467.5–469.9875 MHz |
| <b>SUBJECT:</b>          | Embargo on new frequency assignments to support arrangements for harmonised government spectrum primarily to support national security, law enforcement and emergency services                                                                                |
| <b>DATE OF EFFECT:</b>   | 2 April 2009 (last revised 30 April 2010)                                                                                                                                                                                                                     |
| <b>COVERAGE:</b>         | Australia-wide                                                                                                                                                                                                                                                |
| <b>TIME FRAME:</b>       | Ongoing                                                                                                                                                                                                                                                       |

### INSTRUCTIONS

No new assignments are to be made in the frequency bands 403–403.9875 MHz, 405.0125–406 MHz, 408.6375–410.5375 MHz, 412.4625–413.4375 MHz, 414.4625–415.4375 MHz, 418.0875–420 MHz, 420–420.75 MHz, 421.25–424.75 MHz, 425.25–427.75 MHz and 428.25–430 MHz, except to Federal, State and Territory government agencies involved in national security, law enforcement or the provision of emergency services operating in accordance with the C.O.A.G approved national framework for government radiocommunications interoperability.

New assignments to other parts of Federal, State and Territory government are permitted provided assignments for government agencies involved in the national security, law enforcement or the provision of emergency services have been accommodated.

Licencees other than Federal, State and Territory government agencies involved in national security, law enforcement or the provision of emergency services and other government agencies accommodated in the band must cease operation or relocate outside of this spectrum by 31 December 2015 in high and medium density areas and 31 December 2018 outside high and medium density areas except in the 457.5–459.9875 MHz and 467.5–469.9875 MHz where users must cease operation or relocate outside of this spectrum by 31 December 2014 in high and medium density areas and 31 December 2015 outside high and medium density areas. Authorisation from the relevant state/territory government NCCGR authority stating that the user will be accommodated in the government band will be required to continue operation in this spectrum.

Exceptions to this embargo require case-by-case consideration and approval of the Manager, Spectrum Engineering Section.

### REASONS

The purpose of this embargo is to support arrangements for harmonised government spectrum for Federal, State and Territory governments primarily to meet the strategic communications needs of national security, law enforcement and emergency services organisations, including interoperability objectives.

If in doubt about the applicability of this embargo to any particular frequency assignment, please contact the Manager, Government Planning Section for further advice.

## **HISTORY**

The embargo was put in place in April 2009 to preserve planning options associated with the review of the 400 MHz band (403–430 MHz and 440–520 MHz).

The embargo was reviewed and amended in July 2009 to clarify its intent and applicability.

The embargo was again reviewed and amended in April 2010 to reflect the ACMA's final decision regarding the identification of harmonised government spectrum.

## **EMBARGO AUTHORISATION:**

[signed]                      16/07/2010

Geoff McMillen  
Manager  
Spectrum Engineering Section  
Spectrum Infrastructure Branch  
Australian Communications and Media Authority

## EMBARGO 51

|                            |                                                                                                                                                     |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>FREQUENCY RANGE(S):</b> | 403–518 MHz                                                                                                                                         |
| <b>SUBJECT:</b>            | Embargo on new land mobile frequency assignments requiring channel bandwidths greater than 12.5 kHz, and on high power single frequency assignments |
| <b>DATE OF EFFECT:</b>     | 2 April 2009 (last revised September 2012)                                                                                                          |
| <b>COVERAGE:</b>           | Australia-wide                                                                                                                                      |
| <b>TIME FRAME:</b>         | Until further notice                                                                                                                                |

### INSTRUCTIONS

No new frequency assignments for the land mobile service requiring channel bandwidths greater than 12.5 kHz are to be made in the frequency band 403–518 MHz within high density areas (HDAs) and medium density areas (MDAs)<sup>3</sup>.

No new high power frequency assignments for the single frequency land mobile service within HDAs and MDAs or on communal sites (defined as a site with more than a single licensee with assignments in the 400 MHz band at that site) outside HDAs and MDAs.

Exceptions to this embargo require case-by-case consideration and approval of the Manager, Spectrum Engineering Section.

### REASONS

The purpose of this embargo is to support measures to address congestion in HDAs and MDAs as part of planning activities in the 400 MHz band (403–430 MHz and 450–520 MHz).

If in doubt about the applicability of this embargo to any particular frequency assignment, please contact the Manager, National Interest Planning Section for further advice.

### HISTORY

The embargo was put in place in April 2009 to support planning options associated with the review of the 400 MHz band, and subsequently reviewed and amended in July 2009.

The embargo was reviewed and amended in April 2010 to reflect the ACMA's final decision regarding the identification of harmonised government spectrum.

The embargo was amended in September 2010 to limit its frequency scope to 518 MHz, to remove the wideband fixed point-to-point service from its scope and to clarify that its scope does not include to point-to-multipoint systems in any part of the 400 MHz band.

The embargo was amended in September 2012 to clarify requirements for communal sites in low and remote density areas and to remove information pertaining to existing assignments as these requirements are covered by MS22.

### EMBARGO AUTHORISATION:

[signed] 25/09/2012

Mark Arkell  
Manager  
Spectrum Engineering and Space  
Australian Communications and Media Authority

<sup>3</sup> As defined in the ACMA [Apparatus Licence Fee Schedule](#).

## EMBARGO 52

|                            |                                                                                                                             |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| <b>FREQUENCY RANGE(S):</b> | 3400-3580 MHz<br>3600-4000 MHz                                                                                              |
| <b>SUBJECT:</b>            | Embargo on new frequency assignments in the Woomera Prohibited Area (WPA)                                                   |
| <b>DATE OF EFFECT:</b>     | 14 September 2009, last updated 20 June 2023                                                                                |
| <b>COVERAGE:</b>           | Inside the designated areas, for point-to multipoint and area wide licenced services, as specified in <u>Attachment 1</u> . |
| <b>TIME FRAME:</b>         | Ongoing                                                                                                                     |

### INSTRUCTIONS

No assignments are to be made for point-to-multipoint services or area-wide licenced services where any part of whose necessary bandwidth is in the frequency ranges 3400-3580 MHz or 3600-4000 MHz inside the designated areas detailed in Attachment 1.

Any applications for case-by-case exemptions are to be referred to the Manager, Spectrum Engineering Section for consideration. As the HCIS geographic representation is, necessarily, an approximation of the WPA, exemption requests can include cases near the boundary where it can be demonstrated the location is outside the [WPA](#), but may be inside our geographic representation.

### REASONS

The purpose of the embargo is to facilitate ongoing use of the WPA by the Department of Defence for activities that are subject to Part 1.4, Division 4 of the *Radiocommunications Act 1992*.

### COMMENTS

In remote areas of Australia the 3400-4000 MHz range has been identified for use by wireless broadband (WBB) services, previously via point-to-multipoint licences in 3400-3700 MHz, and subsequently via area-wide licences only for new services. This embargo limits the use of WBB to a 20 MHz segment (3580-3600 MHz) inside the WPA.

### HISTORY

This embargo was put in place in 14<sup>th</sup> September 2009.

This embargo was amended on the 26<sup>th</sup> November 2009 to include the 3.4 GHz (3400-3575 MHz) band.

This embargo was amended on 20 June 2023 to include the 3700-4000 MHz range and change the Attachment 1 geographic definition to use the ASMG HCIS.

**EMBARGO AUTHORISATION:**

**APPROVED 16/06/2023**

**Christopher Worley**

**Manager**

**Spectrum planning section**

**Australian Communications and Media Authority**

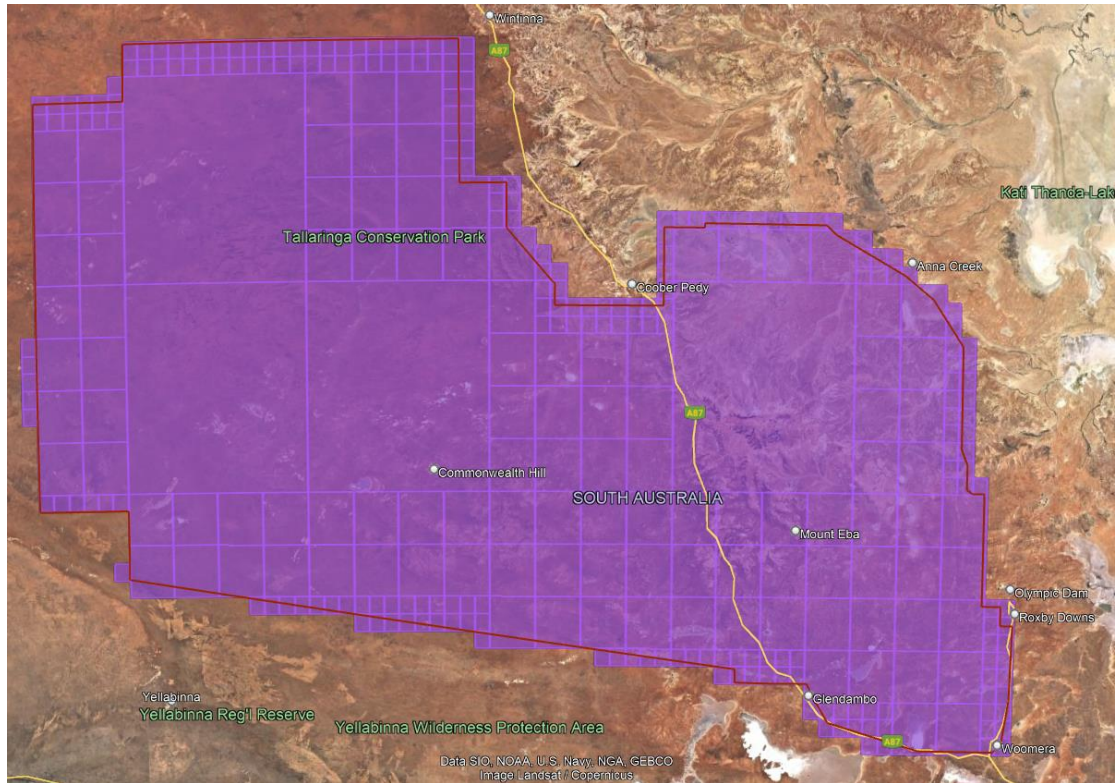
**INSTRUCTIONS:**

No assignments are to be made for point-to-multipoint services or area-wide licenced services where any part of whose necessary bandwidth is in the frequency ranges 3400-3580 MHz or 3600-4000 MHz, whose boundaries are described by the HCIS locations specified in the tables below.

| HCIS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| GU2G, GU2H, GU2K, GU2L, GU2O, GU2P, GU3A, GU3B, GU3C, GU3D, GU3E, GU3F, GU3G, GU3H, GU3I, GU3J, GU3K, GU3L, GU3M, GU3N, GU3O, GU3P, GU5C, GU5D, GU5G, GU5H, GU5K, GU5L, GU5O, GU5P, GU6A, GU6B, GU6C, GU6D, GU6E, GU6F, GU6G, GU6H, GU6I, GU6J, GU6K, GU6L, GU6M, GU6N, GU6O, GU6P, GU9A, GU9B, GU9C, GU9D, GU9H, HU1A, HU1B, HU1C, HU1E, HU1F, HU1G, HU1I, HU1J, HU1K, HU1M, HU1N, HU1O, HU1P, HU3M, HU3N, HU3O, HU4A, HU4B, HU4C, HU4D, HU4E, HU4F, HU4G, HU4H, HU4I, HU4J, HU4K, HU4L, HU4M, HU4N, HU4O, HU4P, HU5A, HU5E, HU5F, HU5G, HU5H, HU5I, HU5J, HU5K, HU5L, HU5M, HU5N, HU5O, HU5P, HU6A, HU6B, HU6C, HU6D, HU6E, HU6F, HU6G, HU6H, HU6I, HU6J, HU6K, HU6L, HU6M, HU6N, HU6O, HU6P, HU7A, HU7B, HU7C, HU7D, HU7E, HU7F, HU7G, HU7H, HU8A, HU8B, HU8C, HU8D, HU8E, HU8F, HU8G, HU8H, HU8L, HU9A, HU9B, HU9C, HU9D, HU9E, HU9F, HU9G, HU9H, HU9I, HU9J, HU9K, HU9L, IU4A, IU4E, IU4F, IU4I, IU4J, IU4M, IU4N, IU7A, IU7B, IU7E, IU7F, IU7I, IU7J, IU7M, IU7N, IU7O, GT9M8, GT9M9, GT9N7, GT9N8, GT9N9, GT9O7, GT9O8, GT9O9, GT9P7, GT9P8, GT9P9, GU2C8, GU2C9, GU2D7, GU2D8, GU2D9, GU9E2, GU9E3, GU9F1, GU9F2, GU9F3, GU9G1, GU9G2, GU9G3, GU9E5, GU9E6, GU9F4, GU9F5, GU9F6, GU9G4, GU9G5, GU9G6, HU1H1, HU1H4, HU1H7, HU1L1, HU1L4, HU1L5, HU1L6, HU2I4, HU1L7, HU1L8, HU1L9, HU2I7, HU2M1, HU2M4, HU2M5, HU2M7, HU2M8, HU2M9, HU5B1, HU5B4, HU5B7, HU5B8, HU5B9, HU5C7, HU5C8, HU5C9, HU5D7, HU5D8, HU5D9, HU7J2, HU7J3, HU7K1, HU7K2, HU7K3, HU7L1, HU7L2, HU7L3, HU8I1, HU8I2, HU8I3, HU8J1, HU8J2, HU8J3, HU8K1, HU8K2, HU8K3, HU8I4, HU8I5, HU8I6, HU8J4, HU8J5, HU8J6, HU8K4, HU8K5, HU8K6, HU8K9, HU9N2, HU9N3, HU9O1, IU4K4, IU4K7, IU4O1, IU4O4, IU4O7, IU7C1, IU7C2, IU7C4, IU7C5, IU7C7, IU7C8, IU7G1, IU7G2, IU7G4, IU7G5, IU7G7, IU7G8, IU7K1, IU7K2, IU7K4, IU7K5, IU7K6, IU7L4, IU7K7, IU7K8, IU7K9, IU7L7, HU9O2, HU9O3, HU9P1, HU9P2, HU9P3, IU7P1, HU9P5, HU9P6, IU7P4, HU3P1, HU3P4, HU3P5, HU3P6, HU3P7, HU3P8, HU3P9, IU1M7, IU1M8, IU4B4, IU4B5, IU4B7, IU4B8, IU4B9, IU4G4, IU4G7, IU4K1, HU9P8, HU9P9, IU7P7, HV3D3, IV1A1, IV1A2, IV1A3, IV1B1, IV1B2, IV1B3, IV1C1, IV1C2, IV1C3, IV1D1, IV1A6, IV1B4, IV1B5, IV1B6, IV1C4, IV1C5, IV1C6, IV1D4, HT7M7, HT7M8, HT7M9, HT7N7, HT7N8, HT7N9, HT7O7, HT7O8, HT7O9, HT7P7, HU1D1, HU1D4, HU1D7, GT9M4, GT9M5, GT9M6, GT9N4, GT9N5, GT9N6, GT9O4, GT9O5, GT9O6, GT9P4, GT9P5, GT9P6, GT9M7, GU2D3, GU2C4, GU2C5, GU2C6, GU2D4, GU2D5, GU2D6, GU2C7, GU5J6, GU8C1, GU8C2, GU5F3, GU5F6, GU5F9, GU5J3, GU8C3, GU8D1, GU8D2, GU8D3, GU9E1, GU8H6, GU9E4, GU9E7, GU9E8, GU9E9, GU9F7, GU9F8, GU9F9, GU9G7, GU9G8, GU9G9, GU9K3, GU9L1, GU9L2, GU9L3, HU1H2, HU1H5, HU1H8, HU1L2, HU1L3, HU2I1, HU2I2, HU2I5, HU2I8, HU2L9, HU3I7, HU3I8, HU3I9, HU3J7, HU3J8, HU3J9, HU3K7, HU2M2, HU2M3, HU2P3, HU2M6, HU2N4, HU2P6, HU2N7, HU2N8, HU2P9, HU5B2, HU5D3, HU5B5, HU5B6, HU5C4, HU5C5, HU5C6, HU5D4, HU5D5, HU5D6, HU7I1, HU7I2, HU7I3, HU7J1, HU7J4, HU7J5, HU7J6, HU7K4, HU7K5, HU7K6, HU7L4, HU7L5, HU7L6, HU7L9, HU8I7, HU8I8, HU8I9, HU8J7, HU8J8, HU8J9, HU8K7, HU8K8, HU8O2, HU8O3, HU8P1, HU8P2, HU8P3, HU9M1, HU9M2, HU9M3, HU9N1, HU9N4, HU9N5, HU9N6, HU9O4, IU4K5, IU4K8, IU4O2, IU4O5, IU4O8, IU4O9, IU7C3, IU7C6, IU7C9, IU7G3, IU7G6, IU7G9, IU7K3, IU7L1, IU7L2, IU7L5, IU7L8, IU7P2, HU9O5, HU9O6, HU9P4, IU7P5, HU3K8, HU3K9, HU3L7, HU3L8, HU3P2, HU3P3, IU1M1, IU1M4, IU1M5, IU1M6, IU1M9, IU1N7, IU4B1, IU4B2, IU4B3, IU4B6, IU4C4, IU4C7, IU4G1, IU4G2, IU4G5, IU4G8, IU4K2, HU9P7, IU7P8, HV3D1, HV3D2, IV1D2, HV3D5, HV3D6, IV1A4, IV1A5, IV1D5, IV1A8, IV1A9, IV1B7, IV1B8, IV1B9, IV1C7, IV1C8, IV1C9, IV1D7, IV1D8, HT7M4, HT7M5, HT7M6, HT7N4, HT7N5, HT7N6, HT7O4, HT7O5, HT7O6, HT7P4, HT7P5, HT7P8, HU1D2, HU1D5, HU1D8, GU2G1, GU2G4, GU2G7, GU2K1, GU2K4, GU2K7, GU2O1, GU2 |

O4, GU2O7, GU3A1, GU5C1, GU5C4, GU5C7, GU5G1, GU5K4, GU5K7, GU5O1, GU5O4, GU5O7, GU9A1, GU9A4, GU9A7

Figure 1 below shows a comparison of the previous embargo 52 representation with the HCIS representation.



## EMBARGO 53

|                          |                                                                                                                                                                                    |
|--------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>FREQUENCY RANGES:</b> | 406.1–408.6375 MHz<br>410.5375–412.4625 MHz<br>415.5625–418.0875 MHz<br>450–450.4875 MHz<br>452.5–457.50625 MHz<br>462–467.50625 MHz<br>469.9875–476.4125 MHz<br>477.41875–518 MHz |
| <b>SUBJECT:</b>          | Embargo on new frequency assignments to national security, law enforcement and emergency services                                                                                  |
| <b>DATE OF EFFECT:</b>   | 30 April 2010 (last revised September 2012)                                                                                                                                        |
| <b>COVERAGE:</b>         | Australia-wide                                                                                                                                                                     |
| <b>TIME FRAME:</b>       | Ongoing                                                                                                                                                                            |

### INSTRUCTIONS

No new assignments are to be made to Federal, State and Territory government agencies for the purposes of national security, law enforcement or the provision of emergency services in the frequency bands 406.1–408.6375 MHz, 410.5375–412.4625 MHz, 415.5625–418.0875 MHz, 450–450.4875 MHz, 452.5–457.50625 MHz, 462–467.50625 MHz, 469.9875–476.4125 MHz and 477.41875–518 MHz.

New assignments to Federal, State and Territory government agencies are permitted in the frequency ranges above provided it can be demonstrated that they cannot be accommodated in spectrum set aside for government purposes.

Exemptions from this embargo require case-by-case consideration and approval by the Manager, Spectrum Engineering Section.

### REASONS

The purpose of this embargo is to support arrangements for harmonised government spectrum for Federal, State and Territory governments primarily to meet the strategic communications needs of national security, law enforcement and emergency services organisations, including interoperability objectives.

If in doubt about the applicability of this embargo to any particular frequency assignment, please contact the Manager, Spectrum Engineering Section for further advice.

### HISTORY

The embargo was put in place in April 2010 to support the identification of harmonised government spectrum in the 400 MHz band (403–430 MHz and 450–520 MHz).

The embargo was amended in July 2011 to extend its applicability to all government services, to excise segments Q, R, U and V and its upper limit was reduced to 518 MHz from 520 MHz.

The embargo was amended in June 2012 to exclude the UHF Citizen Band (segment EE) from its scope.

### EMBARGO AUTHORISATION:

[signed] 25/09/2012

Mark Arkell  
Manager  
Spectrum Engineering Section  
Australian Communications and Media Authority

**EMBARGO 54**

**Status:** Lifted

**EMBARGO 55**

**Status:** Lifted

**EMBARGO 56**

**Status:** Lifted

**EMBARGO 57**

**Status:** Not used

**EMBARGO 58**

**Status:** Not used

## EMBARGO 59

|                            |                                                                                             |
|----------------------------|---------------------------------------------------------------------------------------------|
| <b>FREQUENCY RANGE(S):</b> | 7250–7750 MHz<br>7900–8400 MHz                                                              |
| <b>SUBJECT:</b>            | Embargo on new frequency assignments for stations in terrestrial services near Kapooka, NSW |
| <b>DATE OF EFFECT:</b>     | 22 June 2010                                                                                |
| <b>COVERAGE:</b>           | Within 75 km of latitude 35° 10' 16" south, longitude 147° 15' 43" east (GDA94)             |
| <b>TIME FRAME:</b>         | Until further notice                                                                        |

### INSTRUCTIONS

No new assignments are to be made in the frequency bands 7250–7750 MHz and 7900–8400 MHz within 75 km of latitude 35° 10' 16" south, longitude 147° 15' 43" east (Kapooka, NSW). The embargo applies to all apparatus-licensed terrestrial stations (including those in the fixed and mobile services) located within the specified zone. This includes assignments for existing licensees seeking to expand or modify their radiocommunications systems in the bands.

This embargo does not apply to assignments for satellite Earth stations consistent with relevant planning arrangements.

Exceptions to this embargo require case-by-case consideration and approval of the Manager, Spectrum Engineering Section. Exemptions will only be granted if the proposed assignments can be shown to successfully coordinate with planned geostationary satellite orbit Earth station operations at this location.

### REASON

The purpose of the embargo is to support potential development of a Defence satellite Earth station at Kapooka, near Wagga Wagga, NSW.

### EMBARGO AUTHORISATION:

[signed] 22/06/2010

Geoff McMillen  
Manager  
Spectrum Engineering Section  
Spectrum Infrastructure Branch  
Australian Communications and Media Authority

## EMBARGO 60

|                          |                                                                                                                                                                                                                    |
|--------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>FREQUENCY RANGES:</b> | 408.6375-409.04375 MHz<br>410.61875-410.63125 MHz<br>411.36875-411.38125 MHz<br>411.61875-411.63125 MHz<br>412.36875-412.38125 MHz<br>418.0875-418.49375 MHz<br>450.04375-450.05625 MHz<br>450.40625-450.41875 MHz |
| <b>SUBJECT:</b>          | Embargo on new frequency assignments to support formalising arrangements for the rail industry                                                                                                                     |
| <b>DATE OF EFFECT:</b>   | 16 July 2010 (revised April 2026)                                                                                                                                                                                  |
| <b>COVERAGE:</b>         | Australia-wide                                                                                                                                                                                                     |
| <b>TIME FRAME:</b>       | Ongoing                                                                                                                                                                                                            |

### INSTRUCTIONS

No new assignments are to be made in the frequency bands listed above except to organisations in the rail industry. In determining these organisations, the ACMA will be guided by advice from the Australasian Railway Association. All assignments for the land mobile service on the frequency 450.050 MHz shall be 12.5 kHz bandwidth or less.

Exceptions to this embargo require case-by-case consideration and approval of the Manager, Spectrum Engineering Section. The Australasian Railway Association will be consulted in considering any exception to this embargo.

### REASONS

The purpose of this embargo is to support arrangements for the rail industry in the 400 MHz band (403-430 MHz and 440-520 MHz), following a review and replanning in 2010.

If in doubt about the applicability of this embargo to any particular frequency assignment, please contact the Manager, Spectrum Engineering Section for further advice.

### HISTORY

This embargo was put in place in July 2010 to preserve planning options associated with the outcomes of the review of the 400 MHz band. It was amended in August 2012 to correct frequency ranges.

This embargo was further amended in April 2026 to include the frequency ranges for single frequency channels for rail industry use outlined in [Frequency assignment practice Guideline No. 7 — assigning rail industry spectrum in the 400 MHz band](#).

### EMBARGO AUTHORISATION:

[signed] 29/04/2026

Manager  
Spectrum Engineering Section  
Australian Communications & Media Authority

**EMBARGO 61**

**Status:** Lifted

## EMBARGO 62

|                            |                                                                                                         |
|----------------------------|---------------------------------------------------------------------------------------------------------|
| <b>FREQUENCY RANGE(S):</b> | 1710–1785 MHz<br>1805–1880 MHz                                                                          |
| <b>SUBJECT:</b>            | Embargo on apparatus licence frequency assignments to support use of the band for PTS                   |
| <b>DATE OF EFFECT:</b>     | 21 January 2011 (last revised January 2016)                                                             |
| <b>COVERAGE:</b>           | Major metropolitan and regional areas for PTS apparatus licences, Australia-wide for all other services |
| <b>TIME FRAME:</b>         | Until further notice                                                                                    |

### INSTRUCTIONS

No assignments are to be made for Apparatus Licences Australia-wide in the frequency ranges 1710–1785 MHz and 1805–1880 MHz, with the exception of Apparatus Licences for Public Telecommunication Services (PTS) outside the area described in Attachment 1. This limits PTS licences to remote areas of Australia.

Any applications for case-by-case exemptions are to be referred to the Manager, Spectrum Engineering Section for consideration.

### REASONS

The purpose of the embargo is to preserve future planning options in the defined frequency ranges for terrestrial mobile services.

The purpose of the January 2016 update is to facilitate PTS in remote Australia.

### COMMENTS

Consultation on the use of the band for PTS began in 2012, as a result of which, Apparatus Licences for PTS in the 1800 MHz Band in remote Australia are permitted. Coordination and licensing procedures for Apparatus Licensed mobile services in the 1800 MHz Band are detailed in [RALI MS 34](#).

### EMBARGO AUTHORISATION:

Approved 12/01/2016

Mark Arkell  
Manager  
Spectrum Engineering Section  
Australian Communications and Media Authority

**ATTACHEMENT 1:**

Apparatus Licences for PTS are permitted outside the area described by the following HCIS:

BV, IW, LX, LY, MW, NT, NU, AU9, AV9, AW3, BU7, BU8, BU9, BW1, BW2, BW3, BW5, BW6, CV4, CV7, CW1, CW4, GV1, GV2, GV3, GV6, HV1, HV2, HV4, HV5, HV6, HV8, HV9, HW3, HW6, IV4, IV5, IV6, IV7, IV8, IV9, JV4, JV5, JV7, JV8, JW1, JW2, JW4, JW5, JW6, JW7, JW8, JW9, JX1, JX2, JX3, JX5, JX6, KW4, KW5, KW6, KW7, KW8, KW9, KX1, KX2, KX3, KX4, KX5, KX6, KX8, KX9, KY2, KY3, KY6, LQ1, LQ2, LQ4, LQ5, LQ7, LQ8, LR2, LR3, LR5, LR6, LV9, LW2, LW3, LW4, LW5, LW6, LW7, LW8, LW9, LZ1, LZ2, LZ3, MR1, MR4, MR5, MR7, MR8, MR9, MS1, MS2, MS3, MS4, MS5, MS6, MS8, MS9, MT3, MT6, MT9, MU3, MU5, MU6, MU8, MU9, MV2, MV3, MV4, MV5, MV6, MV7, MV8, MV9, MX1, MX2, MX3, MX4, MX7, MY1, MY4, MY7, MZ1, NS4, NS7, NS8, NS9, NV1, NV2, NV3, NV4, NV5, NV7, NW1, GO7C, GO7D, GO7G, GO7H, GO7K, GO7L, GO8A, GO8E, GO8I

HCIS area descriptions can be converted into a Placemark file (viewable in Google Earth) through the [Convert HCIS area description to Placemark](#) facility on the ACMA website.

The HCIS is described in the [Australian Spectrum Map Grid 2012](#).

**EMBARGO 63**

**Status:** Lifted

**EMBARGO 64**

**Status:** Lifted

## EMBARGO 65

|                            |                                                                                                |
|----------------------------|------------------------------------------------------------------------------------------------|
| <b>FREQUENCY RANGE(S):</b> | 2300–2302 MHz                                                                                  |
| <b>SUBJECT:</b>            | Embargo on all new frequency assignments to support expansion of the 2.3 GHz spectrum licence. |
| <b>DATE OF EFFECT:</b>     | 25 September 2012                                                                              |
| <b>COVERAGE:</b>           | Australia-wide                                                                                 |
| <b>TIME FRAME:</b>         | Until further notice                                                                           |

### INSTRUCTIONS

No new frequency assignments are to be made in the band 2300–2302 MHz.

Any applications for case-by-case exemptions are to be referred to the Manager, Spectrum Engineering and Space Section for consideration.

### REASONS

The purpose of the embargo is to support the designation of the band 2300–2302 MHz for spectrum licensing Australia-wide. It is intended that this designation will extend the existing 2.3 GHz (2302–2400 MHz) spectrum licence band to cover the 2300–2400 MHz band Australia-wide.

### COMMENTS

On 14 January 2000 the band 2302–2400 MHz was designated for spectrum licensing throughout Australia in the [Radiocommunications \(Spectrum Designation\) Notice No. 1 of 2000](#).

The ACMA has previously indicated it would review options to expand the 2.3 GHz spectrum licence band from 98 MHz to 100 MHz Australia-wide, most recently in the [Five-year spectrum outlook](#) 2012–2016.

### EMBARGO AUTHORISATION:

[signed] 25/09/2012

Mark Arkell  
Manager  
Spectrum Engineering and Space  
Australian Communications and Media Authority

**EMBARGO 66**

**Status:** Lifted

## EMBARGO 67

|                            |                                                                     |
|----------------------------|---------------------------------------------------------------------|
| <b>FREQUENCY RANGE(S):</b> | 45–52 MHz<br>56–70 MHz<br>85–87.5 MHz<br>137–144 MHz                |
| <b>SUBJECT:</b>            | Embargo on new frequency assignments for broadcasting licence types |
| <b>DATE OF EFFECT:</b>     | 6 February 2014 (last revised 31 March 2017)                        |
| <b>COVERAGE:</b>           | Australia-wide                                                      |
| <b>TIME FRAME:</b>         | Until further notice                                                |

### INSTRUCTIONS

No new frequency assignments for any broadcasting licence types (including narrowcasting) are to be made in the above mentioned bands corresponding to former analog television channels 0, 1, 2, 3 (in part) and 5A Australia-wide.

An exemption applies to licences issued for 30 days or less to facilitate the use of this spectrum for special events.

Any applications for case-by-case exemptions are to be referred to the Manager, Spectrum Engineering Section for consideration.

### REASONS

The purpose of the embargo is to preserve planning options for the future use of these bands while they are under review.

### COMMENTS

The ACMA intends to undertake a review into future use of VHF broadcasting bands vacated by analog television services.

Non-broadcasting usage of these bands is permitted, consistent with the Australian Radiofrequency Spectrum Plan and any other planning and licensing requirements. Such use in each band is enabled by section 34 'drop throughs' (Broadcasting Services Act).

The embargo does not cover the 87.5–108 MHz FM radio broadcasting band in which a limited number of analog television services operated on channels 3, 4 and 5.

### HISTORY

In March 2017, this embargo was revised to include the band 85–87.5 MHz. When the initial embargo was put in place this band was governed by a statutory band plan *VHF mid band frequency band plan 1991* which limited the potential usage of this band for broadcasting. That frequency band plan has sunset and been replaced by RALI MS42 which under some circumstances would appear to permit broadcasting assignments. To clarify that broadcasting is not intended to occur in this band until a review is undertaken the embargo was extended to explicitly include the 85–87.5 MHz band.

### EMBARGO AUTHORISATION:

Approved 31/03/2017

Mark Arkell  
Manager  
Spectrum Engineering and Space  
Australian Communications and Media Authority

**EMBARGO 68**

**Status:** Lifted

**EMBARGO 69**

**Status:** Lifted

## EMBARGO 70

|                            |                                                                                                                     |
|----------------------------|---------------------------------------------------------------------------------------------------------------------|
| <b>FREQUENCY RANGE(S):</b> | 1427–1518 MHz and 1525-1530 MHz                                                                                     |
| <b>SUBJECT:</b>            | Restriction on all new frequency assignments to preserve future planning options in the identified frequency range. |
| <b>DATE OF EFFECT:</b>     | 20 April 2016 (updated 5 September 2025)                                                                            |
| <b>COVERAGE:</b>           | Australia Wide                                                                                                      |
| <b>TIME FRAME:</b>         | Until further notice                                                                                                |

### INSTRUCTIONS

No assignments are to be made in defined Metropolitan and Regional Areas (refer to Attachment 1 for a description) for apparatus licences in the frequency range 1427-1518 MHz. Case-by-case exemptions are to be referred to the Manager, Spectrum Planning Section for consideration.

No new fixed service licences are permitted in the ranges 1452-1492 MHz and 1525-1530 MHz Australia-wide. This excludes point-to-multipoint services in rural or remote areas that are assigned in accordance with RALI FX3 and are for the delivery of public telecommunications services.

No new apparatus licences are permitted in the range 1452-1492 MHz, Australia-wide, for mobile, broadcasting or broadcasting-satellite services.

Any new/existing licences in the 1427-1518 MHz band will be issued/renewed for a maximum period of one-year at a time. This policy applies Australia-wide (i.e. including remote areas).

### REASONS

The purpose of the embargo is to preserve future planning options in the identified frequency range and to minimise the impact that may be caused by a future change to the planning arrangements in the band.

### COMMENTS

The 1427-1518 MHz frequency range is currently used for a mix of mobile (aeronautical) and terrestrial fixed services. WRC-15 identified the 1427-1452 MHz and 1492-1518 MHz frequency ranges world-wide for the implementation of International Mobile Telecommunications (IMT). The 1452-1492 MHz frequency range was also identified in Region 2 (North and South America), Region 3 (Asia-Pacific) and numerous Region 1 countries (African and Middle East Nations) for the implementation of IMT.

Given significant global interest in the 1427-1518 MHz frequency range for IMT, the ACMA intends to review arrangements in the bands (refer to the [Five-year spectrum outlook](#)). In December 2023, the ACMA released arrangements to support mobile-satellite services in the range 1518-1525 MHz and 1668-1675 MHz (see the [ACMA's review of the 1.5 GHz band: Extended MSS L-band options paper](#)). Our next steps will be to review terrestrial (non-satellite) services in the broader 1427-1535 MHz frequency range.

## **HISTORY**

This embargo was put in place in April 2016 to preserve future planning options in the band.

In September 2025, restrictions contained in the Radiocommunications 1.5 GHz Frequency Band Plan 2015 (the band plan) were replicated in this embargo so that the status quo in the band is maintained after the band plan sunsets on 1 October 2025.

## **EMBARGO AUTHORISATION:**

[approved] 05/09/2025

Manager  
Spectrum Planning Section  
Australian Communications and Media Authority

## ATTACHMENT 1:

For the purpose of embargo 70, Metropolitan and Regional areas are described by the following HCIS:

BV, JW, IW, KW, LX, LY, MV, MW, NT, NU, AU2, AU3, AU6, AU9, AV9, AW3, BU1, BU2, BU4, BU5, BU7, BU8, BU9, BW1, BW2, BW3, BW5, BW6, CV4, CV7, CW1, CW4, GV1, GV2, GV3, GV6, HV1, HV2, HV4, HV5, HV6, HV8, HV9, HW3, HW6, IV4, IV5, IV6, IV7, IV8, IV9, JV4, JV5, JV7, JV8, JV9, JX1, JX2, JX3, JX5, JX6, KV7, KX1, KX2, KX3, KX4, KX5, KX6, KX8, KX9, KY2, KY3, KY6, LQ1, LQ2, LQ4, LQ5, LQ7, LQ8, LR2, LR3, LR5, LR6, LV9, LW1, LW2, LW3, LW4, LW5, LW6, LW7, LW8, LW9, LZ1, LZ2, LZ3, MR1, MR4, MR5, MR7, MR8, MR9, MS1, MS2, MS3, MS4, MS5, MS6, MS8, MS9, MT3, MT6, MT9, MU3, MU5, MU6, MU8, MU9, MX1, MX2, MX3, MX4, MX7, MY1, MY4, MY7, MZ1, NS4, NS7, NS8, NS9, NV1, NV2, NV3, NV4, NV5, NV7, NW1, GO7C, GO7D, GO7G, GO7H, GO7K, GO7L, GO8A, GO8E, GO8I

The HCIS is described in the Australian Spectrum Map Grid 2012. The Australian Spectrum Map Grid 2012 is available on the ACMA website at: [www.acma.gov.au](http://www.acma.gov.au).

**EMBARGO 71**

**Status:** Lifted

## EMBARGO 72

|                          |                                                                                                                                    |
|--------------------------|------------------------------------------------------------------------------------------------------------------------------------|
| <b>FREQUENCY RANGES:</b> | 2025–2110 MHz<br>2200–2290 MHz                                                                                                     |
| <b>SUBJECT:</b>          | Embargo on new frequency assignments for terrestrial radiocommunication services in parts of regional NSW and regional Queensland. |
| <b>DATE OF EFFECT:</b>   | 18 July 2018 (Last revised 2 August 2019)                                                                                          |
| <b>COVERAGE:</b>         | Area 1, Area 2, Area 3 and Area 4. Refer to Attachment 1 for descriptions of Area 1, Area 2, Area 3 and Area 4.                    |
| <b>TIME FRAME:</b>       | It is expected that embargo 72 will be reviewed before December 2020.                                                              |

### INSTRUCTIONS

For the bands listed above no new frequency assignments for terrestrial services are to be made within Area 1, Area 2, Area 3 and Area 4 for all bands.

This includes assignments for existing licensees seeking to expand or modify their communications systems in the bands. Existing licences are not affected by this embargo.

For the purposes of this embargo, terrestrial services include all services other than Earth stations communicating with space objects (GSO and non-GSO satellites).

Exceptions to this embargo require case-by-case consideration and the approval of the Manager, Spectrum Planning Section.

Other embargoes and assignment restrictions should be considered in conjunction with this embargo. Particularly attention is drawn to embargo 23 which contains guidance regarding assignments for Earth station in 2025–2110 and 2200–2290 MHz.

### REASONS

The purpose of this embargo is to support the development of one or more areas providing long-term certainty and flexibility for the operation of commercial space communications teleport facilities in east Australia. Following on from the outcomes of the consultation on the future use of the 3.6 GHz band<sup>4</sup>, the ACMA has initially identified areas around Moree, Quirindi and Roma for further consideration as possible locations. These are described by Area 2, Area 3 and Area 4 respectively. Area 1 has been developed as protection zones of 150 km around each of Area 2, Area 3 and Area 4 to facilitate earth stations facilities being deployed in the areas.

It is recommended that, where possible, prospective commercial earth station licensees consider locating their facilities within Area 2, Area 3 or Area 4 and engaging with the ACMA in the process of choosing one or more eventual long-term earth station protection zones. These areas (2, 3 and 4) are currently the most likely areas to be identified to support the deployment and long-term operation of space communications teleport facilities in east Australia.

It is noted that if one or more of these sites are found to be unsuitable, embargo 72 will be reviewed to remove any assignment restrictions associated with the location(s).

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<sup>4</sup> <https://www.acma.gov.au/theACMA/future-approach-to-the-3-6-ghz-band>

## COMMENTS

Lead times for planning space communications are typically many years. In order for such planning to have certainty of spectrum access it is necessary for spectrum to be withheld from other services for considerable periods of time. This requirement can be difficult to satisfy in areas of high demand for spectrum by terrestrial services. Considering this, the ACMA encourages the siting of such stations at locations of low demand for access to spectrum in order to minimise the impact on spectrum availability for other services.

As consideration of each area (2, 3 and 4) progresses, the ACMA, where appropriate, will work with industry to replace the embargo with coordination requirements. It is expected that any such arrangements will be developed on a band by band basis. This will protect space communications and limit the effect on access to spectrum for terrestrial services within the listed bands. The bands included in embargo 72 will continue to be revised and reviewed depending on demand and associated protection requirements for satellite services.

## HISTORY

In July 2018 this embargo was revised to remove frequency ranges subject to defence footnotes AUS100, AUS100A (FIXED SATELLITE), AUS101 or AUS101A (FIXED SATELLITE) that is the 4500–4800, 7250–7750, 7900–8400, 147145–14800, 20200–21200, 30000–31000 and 33400–36000 MHz bands. Previously this advice was contained in the instructions by reference to the footnotes only. The July 2018 revision avoids any ambiguity as to what frequency ranges are subject to the embargo.

Also in July 2018 the 3575–4200 and 5850–6700 MHz bands were removed from embargo 72. These bands are now subject to the coordination procedures contained in RALI MS44.

In August 2019, the 5091–5250 MHz, 6700–7075 MHz, 10700–11700 MHz, 12200–13250 MHz, 13750–14714.5 MHz, 15430–15630 MHz, 17300–20200 MHz, 24650–25250 MHz, 27000–30000 MHz, 37500–43500 MHz, 47200–50200 MHz and 50400–51400 MHz bands were removed from embargo 72. These bands are now subject to the coordination procedures contained in RALI MS44.

## EMBARGO AUTHORISATION:

Approved                      2/08/2019

Zarko Krusevac

Manager  
Spectrum Planning Section  
Australian Communications and Media Authority

## ATTACHMENT 1:

For the purpose of embargo 72, Area 1 is defined by the following HCIS area description:

LT6, MT1, MT7, MT8, MU2, MU4, MU8, MU9, MV2, MV6, NV1, LT3H, LT3K, LT3L, LT3N, LT3O, LT3P, LT9B, LT9C, LT9D, LT9F, LT9G, LT9H, LT9K, LT9L, LT9P, MT2A, MT2B, MT2E, MT2F, MT2G, MT2H, MT2I, MT2J, MT2K, MT2L, MT2M, MT2N, MT2O, MT2P, MT3I, MT3M, MT4A, MT4B, MT4C, MT4D, MT4E, MT4I, MT4M, MT4N, MT5A, MT5B, MT5C, MT5D, MT5F, MT5G, MT5H, MT5J, MT5K, MT5L, MT5N, MT5O, MT5P, MT6A, MT6B, MT6E, MT6F, MT6I, MT6J, MT6M, MT6N, MT9A, MT9B, MT9E, MU1C, MU1D, MU1G, MU1H, MU1J, MU1K, MU1L, MU1N, MU1O, MU1P, MU3A, MU3B, MU3C, MU3E, MU3F, MU3G, MU3H, MU3I, MU3J, MU3K, MU3L, MU3M, MU3N, MU3O, MU3P, MU5A, MU5B, MU5E, MU5F, MU5I, MU5J, MU5M, MU5N, MU5O, MU5P, MU6B, MU6C, MU6D, MU6F, MU6G, MU6H, MU6J, MU6K, MU6L, MU6M, MU6N, MU6O, MU6P, MU7B, MU7C, MU7D, MU7F, MU7G, MU7H, MU7K, MU7L, MV1H, MV1L, MV3A, MV3B, MV3E, MV3I, MV3M, MV3N, MV5A, MV5B, MV5C, MV5D, MV5F, MV5G, MV5H, MV5K, MV5L, MV5P, NU1I, NU1M, NU1N, NU4A, NU4B, NU4E, NU4F, NU4G, NU4I, NU4J, NU4K, NU4M, NU4N, NU7A, NU7B, NU7E, NU7F, NU7G, NU7H, NU7I, NU7J, NU7K, NU7L, NU7M, NU7N, NU7O, NU7P, NU8I, NU8M, NV2A, NV2B, NV2E, NV2F, NV2I, NV2J, NV2M, NV2N, NV4A, NV4B, NV4C, NV4D, NV4E, NV4F, NV4G, NV4H, NV4I, NV4J, NV4K, NV4L, NV4M, NV4N, NV5A, NV5B, NV5E, LT3C9, LT3D5, LT3D6, LT3D7, LT3D8, LT3D9, LT3F9, LT3G2, LT3G3, LT3G4, LT3G5, LT3G6, LT3G7, LT3G8, LT3G9, LT3I9, LT3J2, LT3J3, LT3J4, LT3J5, LT3J6, LT3J7, LT3J8, LT3J9, LT3M3, LT3M5, LT3M6, LT3M8, LT3M9, LT5H3, LT5H6, LT5H9, LT5L3, LT5L6, LT5L9, LT5P3, LT5P6, LT9A1, LT9A2, LT9A3, LT9A4, LT9A5, LT9A6, LT9A8, LT9A9, LT9E2, LT9E3, LT9E6, LT9E9, LT9J1, LT9J2, LT9J3, LT9J5, LT9J6, LT9J9, LT9O1, LT9O2, LT9O3, LT9O5, LT9O6, LU3D2, LU3D3, LU6H3, LU6H6, LU6H9, LU6L3, LU6L6, LU6L9, MS7N8, MS7N9, MS7O7, MS7O8, MS7O9, MS7P7, MS7P8, MS7P9, MS8M7, MS8M8, MS8M9, MT2C4, MT2C5, MT2C6, MT2C7, MT2C8, MT2C9, MT2D7, MT3E4, MT3E7, MT3E8, MT3J4, MT3J7, MT3J8, MT3N1, MT3N2, MT3N4, MT3N5, MT3N6, MT3N7, MT3N8, MT3N9, MT4F1, MT4F2, MT4F3, MT4F4, MT4F5, MT4F6, MT4F7, MT4F8, MT4G1, MT4J1, MT4J2, MT4J4, MT4J5, MT4J7, MT4J8, MT4J9, MT4O4, MT4O5, MT4O7, MT4O8, MT4O9, MT4P6, MT4P7, MT4P8, MT4P9, MT5E1, MT5E2, MT5E3, MT5E5, MT5E6, MT5E8, MT5E9, MT5I3, MT5I6, MT5I8, MT5I9, MT5M2, MT5M3, MT5M4, MT5M5, MT5M6, MT5M7, MT5M8, MT5M9, MT6C1, MT6C4, MT6C7, MT6G1, MT6G4, MT6G7, MT6G8, MT6K1, MT6K2, MT6K4, MT6K5, MT6K7, MT6K8, MT6O1, MT6O4, MT6O7, MT9C1, MT9C4, MT9F1, MT9F2, MT9F3, MT9F4, MT9F5, MT9F7, MT9F8, MT9I1, MT9I2, MT9I3, MT9I4, MT9I5, MT9I6, MT9I7, MT9I8, MT9J1, MT9M1, MT9M4, MT9M5, MT9M6, MT9M7, MT9M8, MT9M9, MT9N4, MT9N5, MT9N7, MT9N8, MT9N9, MT9O7, MT9O8, MU1A1, MU1A2, MU1A3, MU1A5, MU1A6, MU1B1, MU1B2, MU1B3, MU1B4, MU1B5, MU1B6, MU1B9, MU1F6, MU1F8, MU1F9, MU1I6, MU1I9, MU1M2, MU1M3, MU1M5, MU1M6, MU1M7, MU1M8, MU1M9, MU3D1, MU3D4, MU3D5, MU3D6, MU3D7, MU3D8, MU3D9, MU5C1, MU5C2, MU5C3, MU5C4, MU5C5, MU5C6, MU5C7, MU5D1, MU5D2, MU5D3, MU5D4, MU5D5, MU5D6, MU5K7, MU6A1, MU6A2, MU6A3, MU6A4, MU6A5, MU6A6, MU6A8, MU6A9, MU6E3, MU6E6, MU6E9, MU6I3, MU6I6, MU6I8, MU6I9, MU7A1, MU7A2, MU7A3, MU7A5, MU7A6, MU7A8, MU7A9, MU7E3, MU7J2, MU7J3, MU7J6, MU7O3, MU7P1, MU7P2, MU7P3, MU7P4, MU7P5, MU7P6, MU7P8, MU7P9, MV1D2, MV1D3, MV1D4, MV1D5, MV1D6, MV1D7, MV1D8, MV1D9, MV1P1, MV1P2, MV1P3, MV1P4, MV1P5, MV1P6, MV1P8, MV1P9, MV3C1, MV3C2, MV3C3, MV3C4, MV3C5, MV3C6, MV3C7, MV3D1, MV3D2, MV3D3, MV3D4, MV3D5, MV3D6, MV3D8, MV3D9, MV3F1, MV3F2, MV3F4, MV3F7, MV3J1, MV3J4, MV3J7, MV3J8, MV3O4, MV3O5, MV3O6, MV3O7, MV3O8, MV3O9, MV3P2, MV3P3, MV3P4, MV3P5, MV3P6, MV3P7, MV3P8, MV3P9, MV4D2, MV4D3, MV4D5, MV4D6, MV4D9, MV4H3, MV5E1, MV5E2, MV5E3, MV5E4, MV5E5, MV5E6, MV5E8, MV5E9, MV5I3, MV5I6, MV5J1, MV5J2, MV5J3, MV5J4, MV5J5, MV5J6, MV5J8, MV5J9, MV5N3, MV5O1, MV5O2, MV5O3, MV5O4, MV5O5, MV5O6, MV5O9, MV8D3, MV9A1, MV9A2, MV9A3, MV9A6, MV9B1, MV9B2, MV9B3, MV9B4, MV9B5, MV9B6, MV9C1, MV9C2, MV9C3, MV9C4, MV9C5, MV9C6, MV9D1, MV9D2, MV9D3, MV9D4, MV9D5, MV9D6, NU1A7, NU1E1, NU1E2, NU1E4, NU1E5, NU1E6, NU1E7, NU1E8, NU1E9, NU1F7, NU1J1, NU1J2, NU1J4, NU1J5, NU1J6, NU1J7, NU1J8, NU1J9, NU1O1, NU1O4, NU1O7, NU1O8, NU4C1, NU4C2, NU4C4, NU4C5, NU4C7, NU4C8, NU4C9, NU4O1, NU4O2, NU4O3, NU4O4, NU4O5, NU4O7, NU4O8, NU7C1, NU7C2, NU7C4, NU7C5, NU7C6, NU7C7, NU7C8, NU7C9, NU7D7, NU7D8, NU8E4, NU8E7, NU8E8, NU8J4, NU8J7, NU8J8, NU8N1, NU8N2, NU8N4, NU8N5, NU8N6, NU8N7,

NU8N8, NU8N9, NV2C1, NV2C4, NV2C7, NV2G1, NV2G4, NV2G7, NV2K1, NV2K4, NV2K7, NV2O1, NV2O4, NV2O7, NV4O1, NV4O2, NV4O3, NV4O4, NV4O5, NV4O6, NV4O7, NV4O8, NV4P1, NV4P2, NV4P4, NV5F1, NV5F2, NV5F4, NV5F7, NV5I1, NV5I2, NV5I3, NV5I4, NV5I5, NV5I7, NV7A1, NV7A2, NV7A3, NV7A4, NV7A5, NV7B1, NV7B2, NV7B3

For the purpose of embargo 72 Area 2, which surrounds the town of Moree, is defined by the following HCIS area description:

MU5G, MU5H, MU5L, MU5C8, MU5C9, MU5D7, MU5D8, MU5D9, MU5K1, MU5K2, MU5K3, MU5K4, MU5K5, MU5K6, MU5K8, MU5K9, MU6A7, MU6E1, MU6E2, MU6E4, MU6E5, MU6E7, MU6E8, MU6I1, MU6I2, MU6I4, MU6I5, MU6I7

For the purpose of embargo 72 Area 3, which surrounds the town of Quirindi, is defined by the following HCIS area description:

MV3G, MV3H, MV3K, MV3L, MV3C8, MV3C9, MV3D7, MV3F3, MV3F5, MV3F6, MV3F8, MV3F9, MV3J2, MV3J3, MV3J5, MV3J6, MV3J9, MV3O1, MV3O2, MV3O3, MV3P1

For the purpose of embargo 72 Area 4, which surrounds the town of Roma, is defined by the following HCIS area description:

MT4H, MT4K, MT4L, MT4F9, MT4G2, MT4G3, MT4G4, MT4G5, MT4G6, MT4G7, MT4G8, MT4G9, MT4J3, MT4J6, MT4O1, MT4O2, MT4O3, MT4O6, MT4P1, MT4P2, MT4P3, MT4P4, MT4P5, MT5E4, MT5E7, MT5I1, MT5I2, MT5I4, MT5I5, MT5I7, MT5M1

HCIS area descriptions can be converted into a Placemark file (viewable in Google Earth) through the [Convert HCIS area description to Placemark](#) facility on the ACMA website.

The HCIS is described in the [Australian Spectrum Map Grid 2012](#).

**EMBARGO 73**

**STATUS:** Replaced by Embargo 78.

**EMBARGO 74**

**Status:** Lifted

**EMBARGO 75**

**Status:** Lifted

## EMBARGO 76

|                         |                                        |
|-------------------------|----------------------------------------|
| <b>FREQUENCY RANGE:</b> | 1900–1920 MHz                          |
| <b>SUBJECT:</b>         | Embargo on all new apparatus licences. |
| <b>DATE OF EFFECT:</b>  | 16 November 2023                       |
| <b>COVERAGE:</b>        | Australia-wide.                        |
| <b>TIME FRAME:</b>      | Ongoing.                               |

### INSTRUCTIONS

For the 1900–1920 MHz band, no new assignments for apparatus licences are to be made Australia-wide.

This includes assignments for existing licensees seeking to expand or modify their communications systems in the bands.

Any applications for case-by-case exemptions are to be referred to the Manager, Spectrum Planning Section for consideration.

### REASONS

The purpose of Embargo 76 is to preserve planning options in the 1900–1920 MHz band Australia-wide.

### COMMENTS

Prior to 12 October 2017 the 1900–1920 MHz band was subject to spectrum licensing within metropolitan areas. This restricted the issue of apparatus licences within these areas.

Since licences expired in October 2017, spectrum licence arrangements no longer apply. Embargo 76 was put in place whilst long-term arrangements were developed.

As a result of a band replanning process undertaken in 2023 the embargo has been updated to Australia-wide to allow for the implementation of outcomes of the replanning process.

### EMBARGO AUTHORISATION:

Approved 16/11/2023

Chris Worley  
Manager  
Spectrum Planning Section  
Communications and Infrastructure Division  
Australian Communications and Media Authority

## EMBARGO 77

|                            |                                                                  |
|----------------------------|------------------------------------------------------------------|
| <b>FREQUENCY RANGE(S):</b> | 1710–1785 MHz<br>1805–1880 MHz<br>1920–1980 MHz<br>2110–2170 MHz |
| <b>SUBJECT:</b>            | Embargo on new frequency assignments for apparatus licencing     |
| <b>DATE OF EFFECT:</b>     | 28 June 2024 (updated 04 Feb 2026)                               |
| <b>COVERAGE:</b>           | Areas defined in attachment 1                                    |
| <b>TIME FRAME:</b>         | Until further notice, review in April 2026.                      |

### INSTRUCTIONS

New frequency assignments for PTS Apparatus Licences in the frequency ranges and areas as defined in Attachment 1 will be generally restricted, except where the following criteria are met:<sup>5</sup>

1. where the total spectrum licensed by the licensee in the given area<sup>6</sup> would not exceed 2 x 10 MHz (i.e., a single 10 MHz paired or two 5 MHz paired) across both bands (inclusive of the proposed licence), and
2. where the proposed channel is within the nominal frequency segments for the licensee identified in the assignment priority schemes<sup>7</sup> of both RALI MS33 and MS34. These priority schemes are to be treated as mandatory, rather than preferred.

If the above criteria are not met, case-by-case exemptions to this embargo are to be referred to the Manager, Spectrum Planning Section for consideration. These applications should include information supporting the case for an exemption and relevant interference calculations. Exemptions will generally not be granted for 20 MHz (aggregated) channel bandwidths.

### REASONS

The purpose of the embargo is to preserve possible planning options in the bands for terrestrial fixed and mobile services while changes are being considered.

### COMMENTS

The ACMA is consulting on possible changes to arrangements in these frequency ranges for apparatus licences.

Apparatus licences are already restricted to areas outside of spectrum licences, described in Radiocommunications Assignment and Licensing Instruction (RALI) SM26 parts 4.5 and 4.6.

Spectrum Embargoes 62 and 49 also currently apply in parts of these ranges and remain applicable.

---

<sup>5</sup> Where both criteria are met, a licence may be issued without the need to apply for an exemption to this embargo.

<sup>6</sup> For the purpose of applying this guidance a given area is the frequency reuse area of 45 km.

<sup>7</sup> Preferred assignment allocations for MS33 under 4.15 and Assignment priority for MS34 under 4.14

## **HISTORY**

This embargo was put in place in June 2024 to preserve future planning options in the band. That first version of the embargo included guidance on particular circumstances where an exemption may be granted.

In February 2026, the ACMA updated this embargo to remove particular circumstances from the scope of the embargo, meaning that an exemption request is no longer required for proposed assignments that align with these particular circumstances.

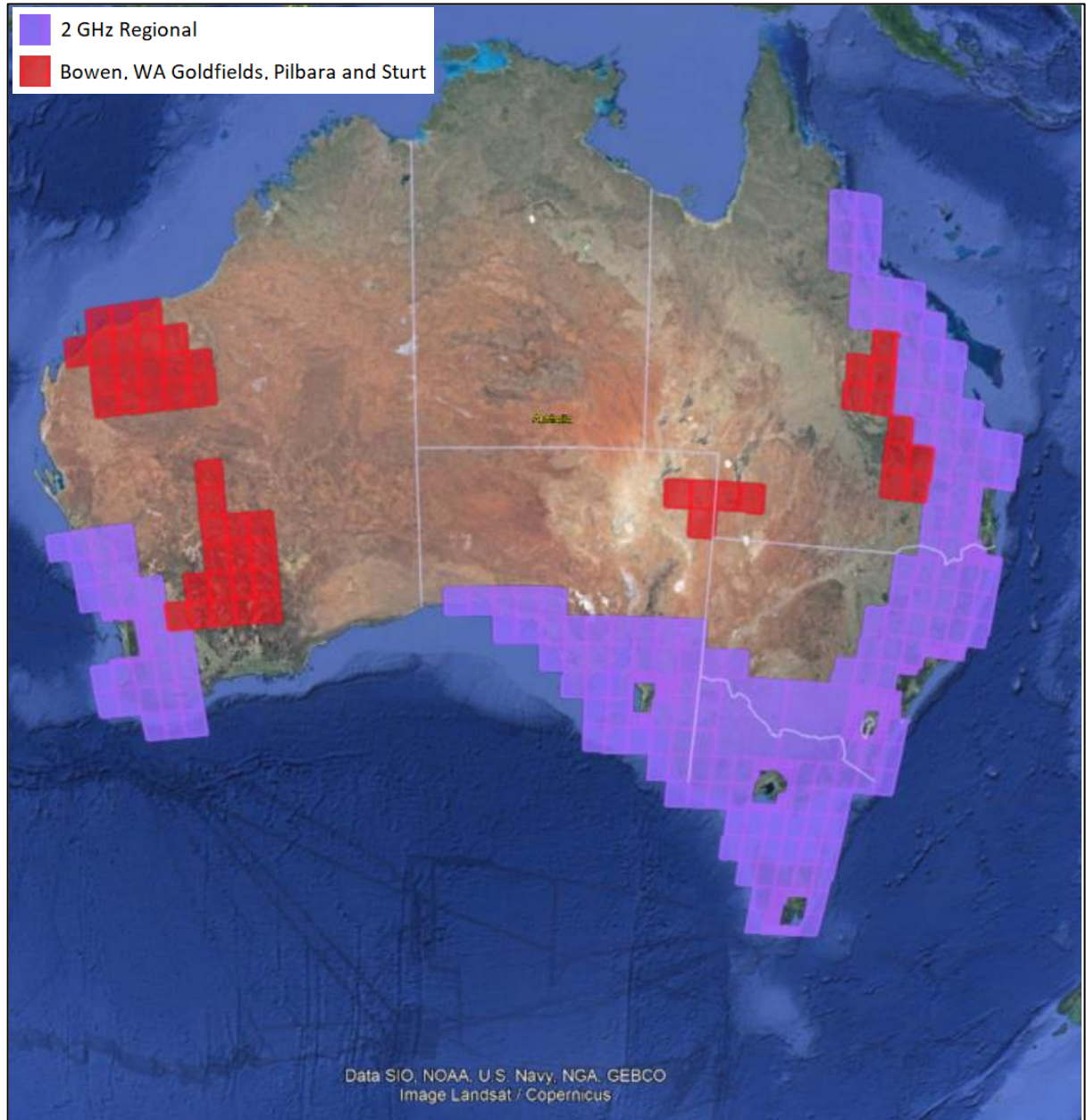
## **EMBARGO AUTHORISATION:**

Approved                      04/02/2026

Manager  
Spectrum Planning Section  
Spectrum Planning and Engineering Branch  
Australian Communications & Media Authority

**ATTACHMENT 1:  
AREAS WHERE THE EMBARGO APPLIES**

All areas listed in Table 1.



**Figure 1: Embargo 77 areas**

**Table 1: HCIS identifiers of embargo areas**

| area           | HCIS identifiers                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Bowen          | LR9, LS2, LS3, LS5, LS6, MS7, MT1, MT2, MT4, MT5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| WA Goldfields  | CT6, CT9, CU3, CU6, CU8, CU9, CV1, CV2, CV3, DU1, DU2, DU4, DU5, DU7, DU8, DV1, DV2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Pilbara        | BR5, BR6, BR7, BR8, BR9, BS2, BS3, BS5, BS6, CR4, CR7, CR8, CS1, CS2, CS3, CS4, CS5, CS6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Sturt          | JT7, JT8, JT9, JU2, KT7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| 2 GHz regional | KW, LW, AU2, AU3, AU6, AU9, AV9, AW3, BU1, BU2, BU4, BU5, BU7, BU8, BU9, BV3, BV6, BV7, BV8, BV9, BW1, BW2, BW3, BW5, BW6, CV4, CV7, CW1, CW4, GV1, GV2, GV3, GV6, HV1, HV2, HV4, HV5, HV6, HV8, HV9, HW3, IV4, IV5, IV6, IV7, IV8, IV9, IW1, IW2, IW4, IW5, IW7, IW8, IW9, JV4, JV5, JV7, JV8, JV9, JW2, JW3, JW4, JW5, JW6, JW7, JW8, JW9, JX1, JX2, JX3, JX5, JX6, KV7, KX1, KX2, KX4, KX5, KX8, KX9, KY2, KY3, KY6, LQ1, LQ2, LQ4, LQ5, LQ7, LQ8, LR2, LR3, LR5, LR6, LV9, LX2, LX3, LX5, LX6, LX7, LX8, LX9, LY1, LY2, LY3, LY4, LY5, LY6, LY7, LZ1, MR1, MR4, MR5, MR7, MR8, MR9, MS1, MS2, MS3, MS4, MS5, MS6, MS8, MS9, MT3, MT6, MT9, MU3, MU5, MU6, MU8, MU9, MV1, MV2, MV3, MV4, MV5, MV6, MV7, MV8, MW6, MW7, MW8, MW9, MX1, MX2, MX3, MX4, MX7, MY1, MY4, MY7, MZ1, NS4, NS7, NS8, NS9, NT1, NT2, NT3, NT4, NT7, NU1, NU4, NU5, NU6, NU7, NU8, NU9, NV1, NV2, NV3, BV1A, BV1B, BV1C, BV1D, BV2A, BV2B, BV2C, BV2D, BV2G, BV2H, BV2K, BV2L, BV2O, BV2P, BV5C, BV5D, BV5G, BV5H, BV5K, BV5L, BV5O, BV5P, IW3A, IW3B, IW3C, IW3D, IW6I, IW6J, IW6K, IW6L, IW6M, IW6N, IW6O, IW6P, JW1A, JW1B, JW1C, JW1D, JW1F, JW1G, JW1H, JW1J, JW1K, JW1L, JW1N, JW1O, JW1P, KX3A, KX3B, KX3C, KX3D, KX3E, KX3I, KX6M, KX6N, KX6O, KX6P, LX1A, LX1B, LX1C, LX1D, LX1F, LX1G, LX1H, LX1L, LX1P, LX4D, LX4G, LX4H, LX4K, LX4L, LX4M, LX4N, LX4O, LX4P, LY8A, LY8B, LY8C, LY8D, LY8E, LY8F, LY8G, LY8I, LY8J, LY8K, LY8M, LY8N, LY8O, LY9A, LY9B, LY9C, LY9D, LZ2A, LZ2B, LZ2C, LZ2E, LZ2F, LZ2G, LZ2I, LZ2J, LZ2K, LZ2M, LZ2N, LZ2O, LZ2P, LZ3M, LZ3N, LZ3O, LZ3P, MV9A, MV9B, MV9C, MW1A, MW1B, MW1C, MW1D, MW1E, MW1F, MW1G, MW1H, MW1I, MW1J, MW1K, MW1L, MW1M, MW1N, MW1O, MW2A, MW2B, MW2C, MW2D, MW2E, MW2F, MW2G, MW2H, MW2I, MW2J, MW2K, MW2L, MW2O, MW2P, MW3A, MW3E, MW3I, MW3M, MW3N, MW4A, MW4B, MW4C, MW4E, MW4F, MW4G, MW4I, MW4J, MW4K, MW4M, MW4N, MW4O, MW5C, MW5D, MW5G, MW5H, MW5K, MW5L, MW5O, MW5P, NT5A, NT5B, NT5E, NT5F, NT5I, NT5J, NT5M, NT5N, NT8A, NT8B, NT8E, NT8F, NT8I, NT8J, NT8M, NT8N, NU2A, NU2B, NU2E, NU2F, NU2G, NU2I, NU2J, NU2K, NU2L, NU2M, NU2N, NU2O, NU2P, NU3M, NU3N, NU3O, NU3P, NV4A, NV4B, NV4C, NV4D, NV4E, NV4F, NV4G, NV4H, NV5A, NV5B, NV5C, NV5D, NV5E, NV5F, NV5G, NV5H, BV1E1, BV1E2, BV1E3, BV1E4, BV1E5, BV1E6, BV1F1, BV1F2, BV1F3, BV1F4, BV1F5, BV1F6, BV1G1, BV1G2, BV1G3, BV1G4, BV1G5, BV1G6, BV1H1, BV1H2, BV1H3, BV1H4, BV1H5, BV1H6, BV2E1, BV2E2, BV2E3, BV2E4, |

| area | HCIS identifiers                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|      | BV2E5, BV2E6, BV2F1, BV2F2, BV2F3, BV2F4, BV2F5, BV2F6, BV4M4, BV4M5, BV4M6, BV4M7, BV4M8, BV4M9, BV4N4, BV4N5, BV4N6, BV4N7, BV4N8, BV4N9, BV4O4, BV4O5, BV4O6, BV4O7, BV4O8, BV4O9, BV4P4, BV4P5, BV4P6, BV4P7, BV4P8, BV4P9, BV5M4, BV5M5, BV5M6, BV5M7, BV5M8, BV5M9, BV5N4, BV5N5, BV5N6, BV5N7, BV5N8, BV5N9, IW3E1, IW3E2, IW3E3, IW3E4, IW3E7, IW3F1, IW3F2, IW3F3, IW3G1, IW3G2, IW3G3, IW3H1, IW3H2, IW3H3, IW3I1, IW3I4, IW3I7, IW3M1, IW3M4, IW3M7, IW6A1, IW6A4, IW6A7, IW6E1, IW6E4, IW6E7, JW1E1, JW1E2, JW1E3, JW1E5, JW1E6, JW1E8, JW1E9, JW1I2, JW1I3, JW1I5, JW1I6, JW1I8, JW1I9, JW1M2, JW1M3, JW1M5, JW1M6, JW1M7, JW1M8, JW1M9, KX3F1, KX3F2, KX3F3, KX3F4, KX3F5, KX3F6, KX3G1, KX3G2, KX3G3, KX3G4, KX3G5, KX3G6, KX3H1, KX3H2, KX3H3, KX3M1, KX3M2, KX3M3, KX3M4, KX3M5, KX3M7, KX6A1, KX6A4, KX6A7, KX6E1, KX6E4, KX6E7, KX6I1, KX6I4, KX6I7, LX1E1, LX1E2, LX1E3, LX1E5, LX1E6, LX1J2, LX1J3, LX1K1, LX1K2, LX1K3, LX1K5, LX1K6, LX1K8, LX1K9, LX4F3, LX4F6, LX4F9, LX4J3, LX4J6, LX4J9, LY8H1, LY8H2, LY8H3, LY9E1, LY9E2, LY9E3, LY9F1, LY9F2, LY9F3, LY9G1, LY9G2, LY9G3, LY9H1, LY9H2, LY9H3, LZ2L4, LZ2L5, LZ2L6, LZ2L7, LZ2L8, LZ2L9, LZ3I4, LZ3I5, LZ3I6, LZ3I7, LZ3I8, LZ3I9, LZ3J4, LZ3J5, LZ3J6, LZ3J7, LZ3J8, LZ3J9, LZ3K4, LZ3K5, LZ3K6, LZ3K7, LZ3K8, LZ3K9, LZ3L4, LZ3L5, LZ3L6, LZ3L7, LZ3L8, LZ3L9, MV9D1, MV9D2, MV9D3, MV9D4, MV9D5, MV9D7, MV9D8, MV9E1, MV9E2, MV9E3, MV9F1, MV9F2, MV9F3, MV9G1, MV9G2, MV9G3, MV9H1, MV9H2, MW1P1, MW1P2, MW1P3, MW2M1, MW2M2, MW2M3, MW2N1, MW2N2, MW2N3, MW3B1, MW3B4, MW3B7, MW3F1, MW3F4, MW3F7, MW3J1, MW3J4, MW3J5, MW3J6, MW3J7, MW3J8, MW3J9, MW4P4, MW4P5, MW4P6, MW4P7, MW4P8, MW4P9, MW5M4, MW5M5, MW5M6, MW5M7, MW5M8, MW5M9, MW5N4, MW5N5, MW5N6, MW5N7, MW5N8, MW5N9, NT5C1, NT5C2, NT5C3, NT5D1, NT5D2, NT5D3, NT6A1, NT6A2, NT6A3, NT6B1, NT6B2, NT6B3, NT6C1, NT6C2, NT6C3, NT6D1, NT6D2, NT6D3, NU2C4, NU2C5, NU2C6, NU2C7, NU2C8, NU2C9, NU2D4, NU2D7, NU2H1, NU2H4, NU2H5, NU2H6, NU2H7, NU2H8, NU2H9, NU3E4, NU3E7, NU3I1, NU3I4, NU3I5, NU3I6, NU3I7, NU3I8, NU3I9, NU3J4, NU3J5, NU3J6, NU3J7, NU3J8, NU3J9, NU3K4, NU3K5, NU3K6, NU3K7, NU3K8, NU3K9, NU3L4, NU3L5, NU3L6, NU3L7, NU3L8, NU3L9, NV4I1, NV4I2, NV4I3, NV4I4, NV4I7, NV4J1, NV4J2, NV4J3, NV4K1, NV4K2, NV4K3, NV4L1, NV4L2, NV4L3, NV4M1, NV4M4, NV4M7, NV5I1, NV5I2, NV5I3, NV5J1, NV5J2, NV5J3, NV5K1, NV5K2, NV5K3, NV5L1, NV5L2, NV5L3, NV7A1 |

**EMBARGO 78**

**Status:** Lifted

**EMBARGO 79**

**Status:** Lifted

## EMBARGO 80

|                            |                                                                                                                                                                   |
|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>FREQUENCY RANGE(S):</b> | 37.5-43.5 GHz<br>47.2-48.2 GHz<br>48.2-50.2 GHz<br>50.4-52.4 GHz                                                                                                  |
| <b>SUBJECT:</b>            | Embargo on all new assignments except for fixed point-to-point links and earth stations in earth station protection zones to support future replanning activities |
| <b>DATE OF EFFECT:</b>     | 16 October 2023                                                                                                                                                   |
| <b>COVERAGE:</b>           | Australia-wide                                                                                                                                                    |
| <b>TIME FRAME:</b>         | Until further notice                                                                                                                                              |

### INSTRUCTIONS

No new frequency assignments are to be made Australia-wide in the 37.5-43.5 GHz, 47.2-48.2 GHz, 48.2-50.2 GHz, 50.4-52.4 GHz frequency bands except for:

- > fixed point-to-point links operating in accordance with RALI FX 3;
- > earth stations in the Mingenew Earth Station Protection Zone (ESPZ) as defined in Embargo 49; and
- > earth stations in ESPZs for Quirindi, Moore and Roma as defined in Appendix C of RALI MS44.

The restrictions of Embargo 80 do not apply to new or existing earth stations located inside the Mingenew ESPZ as defined in Embargo 49 or ESPZs for Quirindi, Moore and Roma as defined in Appendix C of RALI MS44. The definitions of EPSZs are at Attachment 1.

Any applications for case-by-case exemptions are to be referred to the Manager, Space Systems Section for consideration using the [satellite.coordination@acma.gov.au](mailto:satellite.coordination@acma.gov.au) email address.

Details for seeking exemptions for earth stations are included in Attachment 2.

### REASONS

The ACMA is currently monitoring developments in the 40 GHz (37.5–43.5 GHz), 46 GHz (45.5–47 GHz) and 47 GHz (47.2–48.2 GHz) frequency bands, and the adjacent 48.2–50.2 GHz and 50.4–52.4 GHz bands, which are collectively known as Q/V bands.

The satellite industry has expressed interest in the 37–43.5 GHz, 47.2–50.2 GHz and 50.4–52.4 GHz bands. There is interest in the 37.5–43.5 GHz band (identified globally for IMT at WRC-19) and 47.2–48.2 GHz band (identified for IMT in Region 2, and 68 of the countries in Region 1 and Region 3 including Australia).

While not intending to undertake a full review of the bands, the ACMA acknowledges that the satellite industry is seeking greater certainty in access to the spectrum to assist long-term planning (particularly for gateway earth stations), with a number of operators looking to deploy new satellite systems in the coming years. The ACMA's understanding is that several satellite operators are looking to make decision about gateway earth stations in Australia.

In the interim, the ACMA has considered guidelines regarding its assessment on licence applications for gateway earth stations in the Q/V bands. The ACMA's intent is to provide a consistent framework for considering early requests for gateway earth stations while not compromising its ability to conduct a thorough review of the bands to determine what arrangements best serve the long-term interests of end users of the spectrum.

Embargo 80 is created to reflect the above consideration by the ACMA.

**EMBARGO AUTHORISATION:**

[signed] 16/10/2023

Chris Worley  
Manager  
Spectrum Planning Section  
Spectrum Planning and Engineering Branch  
Australian Communications and Media Authority

## EMBARGO 81

|                         |                                                                                 |
|-------------------------|---------------------------------------------------------------------------------|
| <b>FREQUENCY RANGE:</b> | 6585 - 7100 MHz                                                                 |
| <b>SUBJECT:</b>         | Embargo on all new frequency assignments to preserve future re-planning options |
| <b>DATE OF EFFECT:</b>  | 4 June 2024 (last revised 10 March 2026)                                        |
| <b>COVERAGE:</b>        | Australia-wide.                                                                 |
| <b>TIME FRAME:</b>      | Until further notice.                                                           |

### INSTRUCTIONS

No new assignments are to be made in the frequency range 6585-7100 MHz Australia-wide as specified in Attachment 1. This includes assignments for existing licensees seeking to expand their radiocommunications systems in this frequency range.

Any applications for case-by-case exemptions are to be referred to the Manager, Spectrum Planning Section for consideration.

### REASONS

The ACMA is currently developing new arrangements for the introduction of wireless broadband services in the 6585-7100 MHz band. The purpose of this embargo is to minimise the impact that the implementation of these new WBB arrangements might cause to other services. The current restrictions will be reconsidered once the new WBB arrangements in the 6585-7100 MHz band are finalised.

### COMMENTS

As detailed in our draft [Five-Year Spectrum Outlook 2025-30](#), the ACMA is currently considering implementation options for new arrangements in the 6585-7100 MHz band for wireless broadband.

### HISTORY

This embargo was put in place in May 2024 in the 6425-7125 MHz band to support the planning options being considered in the upper 6 GHz band.

The planning decisions detailed in the [Future use of the upper 6 GHz band: Outcomes paper](#) included:

- updating the Radiocommunications (Low Interference Potential Devices) Class licence 2025 (LIPD class licence) to support RLAN use in the 6425–6585 MHz band;
- introducing arrangements for wireless broadband in the 6585-7100 MHz band;
- maintaining the 7100–7125 MHz band for television outside broadcast (TOB) use.

With decisions in the 6425–6585 MHz and 7100–7125 MHz bands finalised, these bands were removed from this embargo in March 2026.

The 6585-7100 MHz band remains embargoed for new frequency assignments until arrangements are finalised.

### EMBARGO AUTHORISATION:

[signed] 10 March 2026

Manager  
Spectrum Planning Section  
Spectrum Planning & Engineering Branch  
Communications Infrastructure Division  
Australian Communications & Media Authority

## ATTACHMENT 1:

For the purposes of Embargo 81, Australia-wide as defined by the following HCIS area description:

BR, BS, BT, BU, BV, CR, CS, CT, CU, CV, DQ, DR, DS, DT, DU, DV, EP, EQ, ER, ES, ET, EU, FP, FQ, FR, FS, FT, FU, GP, GQ, GR, GS, GT, GU, HO, HP, HQ, HR, HS, HT, HU, IO, IP, IQ, IR, IS, IT, IU, IV, IW, JO, JP, JQ, JR, JS, JT, JU, JV, JW, KQ, KR, KS, KT, KU, KV, KW, LR, LS, LT, LU, LV, LW, LX, LY, MS, MT, MU, MV, MW, NT, NU, AR8, AR9, AS2, AS3, AS5, AS6, AS8, AS9, AT1, AT2, AT3, AT5, AT6, AT8, AT9, AU2, AU3, AU6, AU9, AV9, AW3, BW1, BW2, BW3, BW5, BW6, CW1, CW2, CW3, CW4, DW1, DW2, DW3, EV1, EV2, EV3, EV4, EV5, EV6, EV7, FV1, FV2, FV3, FV4, FV5, GO3, GO4, GO5, GO6, GO7, GO8, GO9, GV1, GV2, GV3, GV6, HV1, HV2, HV3, HV4, HV5, HV6, HV8, HV9, HW3, HW6, JX1, JX2, JX3, JX5, JX6, KO1, KO4, KO5, KO7, KO8, KP1, KP2, KP4, KP5, KP6, KP7, KP8, KP9, KX1, KX2, KX3, KX4, KX5, KX6, KX8, KX9, KY2, KY3, KY6, LP4, LP7, LQ1, LQ2, LQ4, LQ5, LQ7, LQ8, LZ1, LZ2, LZ3, MR1, MR4, MR5, MR7, MR8, MR9, MX1, MX2, MX3, MX4, MX7, MY1, MY4, MY7, MZ1, NS4, NS7, NS8, NS9, NV1, NV2, NV3, NV4, NV5, NV7, NW1A, NW1B, NW1C, NW1D, NW1E, NW1F, NW1G, NW1H, NW1I, NW1J, NW1K, NW1L, NW1M1, NW1M2, NW1M3, NW1M4, NW1M5, NW1M7, NW1M8, NW1N1, NW1N2, NW1N3, NW1O1, NW1O2, NW1O3, NW1P1, NW1P2, NW1P3

HCIS area descriptions can be converted into a Placemark file (viewable in Google Earth) through the [Convert HCIS area description to Placemark](#) facility on the ACMA website.

The HCIS is described in the [Australian Spectrum Map Grid 2012](#).

# Annex A: Amendment history

| Date of effect    | Comments                                                                             |
|-------------------|--------------------------------------------------------------------------------------|
| 29 April 2026     | Embargo 60 revised                                                                   |
| 10 March 2026     | Embargo 75 withdrawn<br>Embargo 81 revised                                           |
| 04 February 2026  | Embargo 77 revised                                                                   |
| 05 September 2025 | Embargo 70 revised                                                                   |
| 03 February 2025  | Embargo 42 withdrawn<br>Embargo 78 withdrawn<br>Embargo 23 revised                   |
| 28 June 2024      | Embargo 77 created                                                                   |
| 4 June 2024       | Embargo 81 created                                                                   |
| 16 November 2023  | Embargo 76 revised                                                                   |
| 19 October 2023   | Embargo 78 revised<br>Embargo 80 created                                             |
| 16 June 2023      | Embargo 52 revised                                                                   |
| 14 June 2023      | Embargo 41 withdrawn                                                                 |
| 12 August 2022    | Embargo 23 revised                                                                   |
| 28 July 2022      | Embargo 49 revised<br>Embargo 79 withdrawn                                           |
| 2 March 2022      | Embargo 61 withdrawn<br>Embargo 68 withdrawn<br>Embargo 75 revised                   |
| 20 August 2021    | Embargo 26 withdrawn<br>Embargo 69 withdrawn                                         |
| 10 February 2021  | Embargo 23 revised                                                                   |
| 26 October 2020   | Embargo 69 revised<br>Embargo 74 withdrawn<br>Embargo 79 created                     |
| 22 July 2020      | Embargo 78 created<br>Embargo 73 withdrawn                                           |
| 1 July 2020       | Embargo 64 withdrawn<br>Embargo 69 revised<br>Embargo 74 revised                     |
| 27 March 2020     | Embargo 26 revised                                                                   |
| 15 November 2019  | Embargo 42 revised<br>Embargo 74 revised<br>Embargo 75 revised<br>Embargo 76 created |
| 2 August 2019     | Embargo 49 revised<br>Embargo 71 withdrawn<br>Embargo 72 revised                     |
| 16 May 2019       | Embargo 75 created                                                                   |
| 16 April 2019     | Embargo 74 created                                                                   |
| 14 February 2018  | Embargo 64 revised                                                                   |
| 11 December 2017  | Embargo 73 created                                                                   |
| 11 December 2017  | Embargo 72 created                                                                   |
| 11 December 2017  | Embargo 71 revised                                                                   |
| 18 August 2017    | Embargo 71 revised                                                                   |
| 03 May 2017       | Embargo 71 created                                                                   |

| <b>Date of effect</b> | <b>Comments</b>                                                                                                                                                                  |
|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 31 March 2017         | Embargo 67 revised                                                                                                                                                               |
| 9 November 2016       | Embargo 42 revised                                                                                                                                                               |
| 20 April 2016         | Embargo 70 created                                                                                                                                                               |
| 2 March 2016          | Embargo 69 created                                                                                                                                                               |
| 03 February 2016      | Embargo 26 revised<br>Embargo 54 withdrawn<br>Embargo 56 withdrawn                                                                                                               |
| 12 January 2016       | Embargo 62 revised                                                                                                                                                               |
| 27 July 2015          | Embargo 49 revised                                                                                                                                                               |
| 19 December 2014      | Embargo 41 revised                                                                                                                                                               |
| 24 October 2014       | Embargo 66 withdrawn                                                                                                                                                             |
| 12 May 2014           | Embargo 68 created                                                                                                                                                               |
| 6 February 2014       | Embargo 55 withdrawn<br>Embargo 67 created                                                                                                                                       |
| 1 February 2014       | Embargo 26 revised<br>Embargo 66 created                                                                                                                                         |
| 19 September 2013     | Embargo 23 revised                                                                                                                                                               |
| 25 September 2012     | Embargo 26 revised<br>Embargo 51 revised<br>Embargo 53 revised<br>Embargo 60 revised<br>Embargo 65 created                                                                       |
| 25 May 2012           | Embargo 23 revised                                                                                                                                                               |
| 24 April 2012         | Embargo 23 revised<br>Embargo 26 revised<br>Embargo 38 withdrawn<br>Embargo 43 withdrawn                                                                                         |
| 6 December 2011       | Embargo 64 created<br>Embargo 24 withdrawn<br>Embargo 34 withdrawn                                                                                                               |
| 29 August 2011        | Embargo 63 created                                                                                                                                                               |
| 19 July 2011          | Embargo 53 revised<br>Embargo 54 revised<br>Embargo 55 revised<br>Embargo 56 revised                                                                                             |
| 21 January 2011       | Embargo 61 created<br>Embargo 62 created<br>Embargo 38 revised                                                                                                                   |
| 16 July 2010          | Embargo 60 created<br>Embargo 50 revised                                                                                                                                         |
| 22 June 2010          | Embargo 59 created                                                                                                                                                               |
| 30 April 2010         | Embargo 50 revised<br>Embargo 51 revised<br>Embargo 53 created<br>Embargo 54 created<br>Embargo 55 created<br>Embargo 56 created<br>Embargo 35 withdrawn<br>Embargo 36 withdrawn |
| 14 September 2009     | Embargo 52 created<br>Embargo 42 revised                                                                                                                                         |
| 6 August 2009         | Embargo 51 revised<br>Embargo 50 revised                                                                                                                                         |

| <b>Date of effect</b> | <b>Comments</b>                                                                                                                                                                                          |
|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2 April 2009          | Embargo 51 created<br>Embargo 50 created<br>Embargo 49 created                                                                                                                                           |
| 24 April 2009         | Embargo 48 created                                                                                                                                                                                       |
| 28 September 2007     | RALI completely updated<br>All embargoes revised, with exception of the following:<br>Embargo 22 withdrawn<br>Embargo 25 withdrawn<br>Embargo 28 withdrawn<br>Embargo 33 withdrawn<br>Embargo 47 created |
| 6 February 2007       | Embargo 46 created                                                                                                                                                                                       |
| 6 October 2006        | Embargo 45 created<br>Embargo 37 withdrawn<br>Embargo 40 withdrawn                                                                                                                                       |
| 18 September 2006     | Embargo 44 created                                                                                                                                                                                       |
| 5 December 2005       | Embargo 41 revised                                                                                                                                                                                       |
| 27 October 2005       | Embargo 23 revised                                                                                                                                                                                       |
| 23 August 2005        | Embargo 23 revised<br>Embargo 25 revised<br>Embargo 26 revised                                                                                                                                           |
| 27 June 2005          | Embargo 43 created                                                                                                                                                                                       |
| 27 May 2005           | Embargo 24 revised                                                                                                                                                                                       |
| 26 May 2005           | Embargo 42 created                                                                                                                                                                                       |
| 11 April 2005         | Embargo 41 created                                                                                                                                                                                       |
| 14 February 2005      | Embargo 38 revised                                                                                                                                                                                       |
| 8 February 2005       | Embargo 37 revised<br>Embargo 31 withdrawn                                                                                                                                                               |
| 20 December 2004      | Embargo 38 revised                                                                                                                                                                                       |
| 17 December 2004      | Embargo 36 revised                                                                                                                                                                                       |
| 2 December 2004       | Embargo 40 created                                                                                                                                                                                       |
| 26 November 2004      | Embargo 39 created                                                                                                                                                                                       |
| 24 September 2004     | Embargo 38 revised                                                                                                                                                                                       |
| 30 June 2004          | Embargo 36 revised                                                                                                                                                                                       |
| 25 June 2004          | Embargo 38 revised                                                                                                                                                                                       |
| 26 March 2004         | Embargo 38 created                                                                                                                                                                                       |
| 16 March 2004         | Embargo 37 revised                                                                                                                                                                                       |
| 18 December 2003      | Embargo 36 created                                                                                                                                                                                       |
| 14 February 2003      | Embargo 35 created                                                                                                                                                                                       |
| 16 July 2002          | Embargo 32 created                                                                                                                                                                                       |
| 3 July 2002           | Embargo 34 created                                                                                                                                                                                       |
| 31 May 2002           | Embargo 23 revised                                                                                                                                                                                       |
| 22 March 2002         | Embargo 30 withdrawn                                                                                                                                                                                     |
| 19 December 2001      | Embargo 32 revised                                                                                                                                                                                       |
| 10 October 2001       | Embargo 23 revised                                                                                                                                                                                       |
| 26 September 2001     | Embargo 26 revised                                                                                                                                                                                       |
| 5 September 2001      | Embargo 33 created                                                                                                                                                                                       |
| 13 February 2001      | Embargo 23 revised                                                                                                                                                                                       |
| 11 November 2000      | Embargo 26 revised                                                                                                                                                                                       |
| 5 September 2000      | Embargo 32 created                                                                                                                                                                                       |

| <b>Date of effect</b> | <b>Comments</b>                                  |
|-----------------------|--------------------------------------------------|
| 20 July 2000          | Embargo 26 revised                               |
| 20 July 2000          | Embargo 24 revised                               |
| 2 June 2000           | Embargo 26 revised                               |
| 4 May 2000            | Embargo 31 created                               |
| 22 February 2000      | Embargo 29 withdrawn                             |
| 24 January 2000       | Embargo 26 revised                               |
| 13 January 2000       | Embargo 24 revised                               |
| 12 January 2000       | Embargo 30 created                               |
| 21 December 1999      | Embargo 26 revised                               |
| 29 October 1999       | Embargo 26 revised<br>Embargo 27 withdrawn       |
| 30 July 1999          | Embargo 28 revised                               |
| 15 July 1999          | Embargo 11 withdrawn and RALI completely updated |
| 31 May 1999           | Embargo 23 revised                               |
| 18 December 1998      | Embargo 24 revised<br>Embargo 25 revised         |
| 31 August 1998        | Embargo 27 revised                               |
| 10 August 1998        | Embargo 29 created                               |
| 3 August 1998         | Embargo 28 created                               |
| 19 June 1998          | Embargo 11 revised                               |
| 8 May 1998            | Embargo 24 revised<br>Embargo 26 revised         |
| 10 March 1998         | Embargo 27 created                               |
| 7 November 1997       | Embargo 24 revised                               |
| 24 September 1997     | Embargo 23 revised                               |
| 3 September 1997      | Embargo 24 revised                               |
| 6 August 1997         | Embargo 18 revised<br>Embargo 26 created         |
| 14 February 1997      | Embargo 11 revised                               |
| 6 May 1994            | RALI completely updated                          |

## Annex B: Index of bands

| Frequency band          | Embargo number | Comment            |
|-------------------------|----------------|--------------------|
| 5900–5950 kHz           | 46             | Revised Sept 2007  |
| 5950–6200 kHz           | 44             | Revised Sept 2007  |
| 7100–7300 kHz           | 44             | Revised Sept 2007  |
| 7300–7350 kHz           | 46             | Revised Sept 2007  |
| 9400–9500 kHz           | 46             | Revised Sept 2007  |
| 9500–9900 kHz           | 44             | Revised Sept 2007  |
| 11600–11650 kHz         | 46             | Revised Sept 2007  |
| 11650–12050 kHz         | 44             | Revised Sept 2007  |
| 12050–12100 kHz         | 46             | Revised Sept 2007  |
| 13570–13600 kHz         | 46             | Revised Sept 2007  |
| 13600–13800 kHz         | 44             | Revised Sept 2007  |
| 13800–13870 kHz         | 46             | Revised Sept 2007  |
| 15100–15600 kHz         | 44             | Revised Sept 2007  |
| 15600–15800 kHz         | 46             | Revised Sept 2007  |
| 17480–17550 kHz         | 46             | Revised Sept 2007  |
| 17550–17900 kHz         | 44             | Revised Sept 2007  |
| 18900–19020 kHz         | 46             | Revised Sept 2007  |
| 21450–21850 kHz         | 44             | Revised Sept 2007  |
| 25670–26100 kHz         | 44             | Revised Sept 2007  |
| 45–52 MHz               | 67             | Revised Mar 2017   |
| 56–70 MHz               | 67             | Revised Mar 2017   |
| 85–87.5 MHz             | 67             | Revised Mar 2017   |
| 137–144 MHz             | 67             | Revised Mar 2017   |
| 168–174 MHz             | 32             | Revised Sept 2007  |
| 403–403.9875 MHz        | 50             | Revised April 2010 |
| 403–518 MHz             | 51             | Revised Sept 2012  |
| 405.0125–406 MHz        | 50             | Revised April 2010 |
| 406.1–408.6375 MHz      | 53             | Revised Sept 2012  |
| 406.11875–406.61875 MHz | 19             | Revised Sept 2007  |
| 408.11875–408.61875 MHz | 19             | Revised Sept 2007  |
| 408.6375–409.04375 MHz  | 60             | Revised April 2026 |
| 409.0375–410.5375 MHz   | 50             | Revised April 2010 |
| 410.5375–412.4625 MHz   | 53             | Revised Sept 2012  |
| 410.61875–410.63125 MHz | 60             | Revised April 2026 |
| 411.36875–411.38125 MHz | 60             | Revised April 2026 |
| 411.61875–411.63125 MHz | 60             | Revised April 2026 |
| 412.36875–412.38125 MHz | 60             | Revised April 2026 |
| 412.4625–413.4375 MHz   | 50             | Revised April 2010 |
| 414.4625–415.5625 MHz   | 50             | Revised April 2010 |
| 415.5625–418.0875 MHz   | 53             | Revised Sept 2012  |
| 415.56875–416.06875 MHz | 19             | Revised Sept 2007  |
| 417.56875–418.06875 MHz | 19             | Revised Sept 2007  |
| 418.0875–418.49375 MHz  | 60             | Revised April 2026 |
| 418.4875–420 MHz        | 50             | Revised April 2010 |
| 420–420.75 MHz          | 50             | Revised April 2010 |

| Frequency band          | Embargo number | Comment            |
|-------------------------|----------------|--------------------|
| 421.25–424.75 MHz       | 50             | Revised April 2010 |
| 425.25–427.75 MHz       | 50             | Revised April 2010 |
| 428.25–430 MHz          | 50             | Revised April 2010 |
| 450–450.4875 MHz        | 53             | Revised Sept 2012  |
| 450.04375–450.05625 MHz | 60             | Revised April 2026 |
| 450.40625–450.41875 MHz | 60             | Revised April 2026 |
| 452.5–457.50625 MHz     | 53             | Revised Sept 2012  |
| 457.5–459.9875 MHz      | 50             | Revised April 2010 |
| 462–467.50625 MHz       | 53             | Revised Sept 2012  |
| 467.5–469.9875 MHz      | 50             | Revised April 2010 |
| 469.99375–476.4125 MHz  | 53             | Revised Sept 2012  |
| 477.41875–518 MHz       | 53             | Revised Sept 2012  |
| 518–520 MHz             | 45             | Revised Sept 2007  |
| 1427–1518 MHz           | 70             | Revised Sept 2025  |
| 1525–1530 MHz           | 70             | Revised Sept 2025  |
| 1710–1785 MHz           | 62             | Revised Jan 2016   |
| 1805–1880 MHz           | 62             | Revised Jan 2016   |
| 1710–1785 MHz           | 77             | Revised Feb 2026   |
| 1805–1880 MHz           | 77             | Revised Feb 2026   |
| 1900–1920 MHz           | 76             | Revised Nov 2023   |
| 1920–1980 MHz           | 77             | Revised Feb 2026   |
| 1980–2010 MHz           | 23             | Revised Feb 2025   |
| 2010–2110 MHz           | 23             | Revised Feb 2025   |
| 2015–2100 MHz           | 49             | Revised July 2022  |
| 2025–2110 MHz           | 72             | Revised Aug 2019   |
| 2100–2130 MHz           | 49             | Revised July 2022  |
| 2110–2170 MHz           | 77             | Revised Feb 2026   |
| 2170–2200 MHz           | 23             | Revised Feb 2025   |
| 2190–2280 MHz           | 49             | Revised July 2022  |
| 2200–2290 MHz           | 72             | Revised Aug 2019   |
| 2200–2300 MHz           | 23             | Revised Feb 2025   |
| 2280–2310 MHz           | 49             | Revised July 2022  |
| 2300–2302 MHz           | 65             | Created Sept 2012  |
| 3400–3575 MHz           | 52             | Revised Nov 2009   |
| 3600–3700 MHz           | 52             | Revised Nov 2009   |
| 5725–5850 MHz           | 39             | Revised Sept 2007  |
| 5850–5925 MHz           | 48             | Created April 2008 |
| 6585 - 7100 MHz         | 81             | Revised March 2026 |
| 6700–7075 MHz           | 49             | Revised July 2022  |
| 7135–7245 MHz           | 49             | Revised July 2022  |
| 7250–7750 MHz           | 47             | Created Sept 2007  |
| 7250–7750 MHz           | 49             | Revised July 2022  |
| 7250–7750 MHz           | 59             | Created June 2010  |
| 7900–8390 MHz           | 49             | Revised July 2022  |
| 7900–8400 MHz           | 47             | Created Sept 2007  |
| 7900–8400 MHz           | 59             | Created June 2010  |
| 8390–8460 MHz           | 49             | Revised July 2022  |
| 8460–8510 MHz           | 49             | Revised July 2022  |

| <b>Frequency band</b> | <b>Embargo number</b> | <b>Comment</b>       |
|-----------------------|-----------------------|----------------------|
| 8540–8660 MHz         | 49                    | Revised July 2022    |
| 10700–14800 MHz       | 49                    | Revised July 2022    |
| 10.95–12.75 GHz       | 47                    | Created Sept 2007    |
| 13.75–14.50 GHz       | 47                    | Created Sept 2007    |
| 15349–15410 MHz       | 49                    | Revised July 2022    |
| 15430–15630 MHz       | 49                    | Revised July 2022    |
| 17200–21400 MHz       | 49                    | Revised July 2022    |
| 22200–22510 MHz       | 49                    | Revised July 2022    |
| 24750–25250 MHz       | 49                    | Revised July 2022    |
| 25500–31000 MHz       | 49                    | Revised July 2022    |
| 33400–36000 MHz       | 49                    | Revised July 2022    |
| 37500–43500 MHz       | 49                    | Revised July 2022    |
| 37500–43500 MHz       | 80                    | Created October 2023 |
| 47200–48200 MHz       | 80                    | Created October 2023 |
| 47200–51400 MHz       | 49                    | Revised July 2022    |
| 48200–50200 MHz       | 80                    | Created October 2023 |
| 50400–52400 MHz       | 80                    | Created October 2023 |
| 52590–59300 MHz       | 49                    | Revised July 2022    |

# Annex C: Withdrawn embargoes

| Embargo number | Frequency band          | Comment                                                                                                                       |
|----------------|-------------------------|-------------------------------------------------------------------------------------------------------------------------------|
| 31             | 3776–3800 kHz           | REPLACED<br>By provisions in the Australian Radiofrequency Spectrum Plan                                                      |
| 41             | 70 MHz to 25.25 GHz     | REPLACED<br>by conditions in the Radiocommunications (Australian Radio Quiet Zone Western Australia) Frequency Band Plan 2023 |
| 22             | 169.3875–169.7875 MHz   | LIFTED                                                                                                                        |
| 15             | 402 MHz                 | LIFTED                                                                                                                        |
| 1              | 403–420 MHz             | LIFTED                                                                                                                        |
| 2              | 403–520 MHz             | LIFTED                                                                                                                        |
| 71             | 403–520 MHz             | LIFTED                                                                                                                        |
| 11             | 410.75–412.25 MHz       | LIFTED                                                                                                                        |
| 35             | 418.0875–420 MHz        | SUPERSEDED<br>by Embargo No 50                                                                                                |
| 13             | 419.0–420.2 MHz         | REPLACED<br>by Embargo No 15                                                                                                  |
| 37             | 420–430 MHz             | LIFTED                                                                                                                        |
| 40             | 450–520 MHz             | LIFTED                                                                                                                        |
| 13             | 451.50–452.50 MHz       | LIFTED                                                                                                                        |
| 3              | 451.95–453.40 MHz       | LIFTED                                                                                                                        |
| 14             | 452.50–453.50 MHz       | LIFTED                                                                                                                        |
| 55             | 452.50–453 MHz          | LIFTED                                                                                                                        |
| 54             | 452.5–457.50625 MHz     | LIFTED                                                                                                                        |
| 4              | 456.35–457.325 MHz      | LIFTED                                                                                                                        |
| 36             | 458.3375–459.9375 MHz   | SUPERSEDED<br>by Embargo No 50                                                                                                |
| 13             | 461–462 MHz             | LIFTED                                                                                                                        |
| 3              | 461.45–462.90 MHz       | LIFTED                                                                                                                        |
| 14             | 462–463 MHz             | LIFTED                                                                                                                        |
| 55             | 462–462.5 MHz           | LIFTED                                                                                                                        |
| 54             | 462.5–467.50625 MHz     | LIFTED                                                                                                                        |
| 4              | 465.85–466.825 MHz      | LIFTED                                                                                                                        |
| 36             | 467.8375–469.4375 MHz   | SUPERSEDED<br>by Embargo No 50                                                                                                |
| 55             | 469.4875–469.9875       | LIFTED                                                                                                                        |
| 56             | 469.9875–476.4125 MHz   | LIFTED                                                                                                                        |
| 5              | 472.025–472.60 MHz      | LIFTED                                                                                                                        |
| 56             | 477.41875–484.79375 MHz | LIFTED                                                                                                                        |
| 56             | 485.19375–489.99375 MHz | LIFTED                                                                                                                        |
| 6              | 500–501 MHz             | LIFTED                                                                                                                        |
| 18             | 501–505 MHz             | REPLACED<br>by Embargo No 26                                                                                                  |
| 7              | 505.5–507 MHz           | LIFTED                                                                                                                        |
| 6              | 510–511 MHz             | LIFTED                                                                                                                        |

| Embargo number | Frequency band  | Comment                                                      |
|----------------|-----------------|--------------------------------------------------------------|
| 18             | 511–515 MHz     | REPLACED by Embargo No 26                                    |
| 7              | 515.5–517.0 MHz | LIFTED                                                       |
| 71             | 520–694 MHz     | LIFTED                                                       |
| 71             | 694–703 MHz     | LIFTED                                                       |
| 26             | 703–748 MHz     | Replaced by RALI SM26                                        |
| 71             | 748–758 MHz     | LIFTED                                                       |
| 26             | 758–803 MHz     | Replaced by RALI SM26                                        |
| 71             | 803–820 MHz     | LIFTED                                                       |
| 64             | 803–825 MHz     | LIFTED                                                       |
| 8              | 820–960 MHz     | LIFTED                                                       |
| 29             | 820–825 MHz     | LIFTED                                                       |
| 26             | 825–845 MHz     | Replaced by RALI SM26                                        |
| 64             | 845–870 MHz     | LIFTED                                                       |
| 34             | 857–859 MHz     | SUPERSEDED by Embargo 64                                     |
| 34             | 861–865 MHz     | SUPERSEDED by Embargo 64                                     |
| 26             | 870–890 MHz     | Replaced by RALI SM26                                        |
| 34             | 933–935 MHz     | SUPERSEDED by Embargo 64                                     |
| 29             | 865–870 MHz     | LIFTED                                                       |
| 64             | 890–960 MHz     | LIFTED                                                       |
| 21             | 1427–1535 MHz   | REPLACED by restrictions in 1.5 GHz Band Plan, December 1996 |
| 20             | 1700–1900 MHz   | REPLACED by Embargo No 23                                    |
| 26             | 1710–1785 MHz   | Replaced by RALI SM26                                        |
| 38             | 1785–1805 MHz   | LIFTED                                                       |
| 26             | 1805–1880 MHz   | Replaced by RALI SM26                                        |
| 38             | 1900–1920 MHz   | LIFTED                                                       |
| 26             | 1900–1980 MHz   | Replaced by RALI SM26                                        |
| 63             | 1960–1920 MHz   | LIFTED                                                       |
| 71             | 1980–2110 MHz   | LIFTED                                                       |
| 38             | 2010–2025 MHz   | REPLACED by Embargo No 23                                    |
| 9              | 2076–2111 MHz   | LIFTED                                                       |
| 26             | 2110–2170 MHz   | Replaced by RALI SM26                                        |
| 71             | 2170–2300 MHz   | LIFTED                                                       |
| 9              | 2300–2400 MHz   | LIFTED                                                       |
| 26             | 2302–2400 MHz   | Replaced by RALI SM26                                        |
| 26             | 2500–2570 MHz   | Replaced by RALI SM26                                        |
| 43             | 2500–2690 MHz   | REPLACED by Embargo No 26                                    |
| 26             | 2570–2620 MHz   | Replaced by RALI SM26                                        |
| 26             | 2620–2690 MHz   | Replaced by RALI SM26                                        |
| 68             | 3400–3425 MHz   | LIFTED and incorporated into Embargo 75                      |
| 75             | 3400–3575 MHz   | LIFTED                                                       |
| 78             | 3400–4000 MHz   | LIFTED                                                       |
| 49             | 3400–4200 MHz   | Revised Aug 2019                                             |
| 27             | 3425–3442 MHz   | REPLACED by Embargo No 26                                    |
| 26             | 3425–3492.5 MHz | Replaced by RALI SM26                                        |
| 27             | 3475–3492 MHz   | REPLACED by Embargo No 26                                    |

| Embargo number | Frequency band    | Comment                                                               |
|----------------|-------------------|-----------------------------------------------------------------------|
| 61             | 3492.5-3542.5 MHz | LIFTED and incorporated into Embargo 75                               |
| 26             | 3542.5–3575 MHz   | Replaced by RALI SM26                                                 |
| 42             | 3575-3710 MHz     | LIFTED                                                                |
| 72             | 3575–4200 MHz     | Revised Aug 2019                                                      |
| 73             | 3710—3790 MHz     | Replaced by Embargo 78 July 2020                                      |
| 72             | 4500–4800 MHz     | Revised Aug 2019                                                      |
| 72             | 5091–5250 MHz     | Revised Aug 2019                                                      |
| 49             | 5850-6700 MHz     | Revised Aug 2019                                                      |
| 72             | 5850–7075 MHz     | Revised Aug 2019                                                      |
| 81             | 6425 - 6585 MHz   | LIFTED                                                                |
| 81             | 7100 - 7125 MHz   | LIFTED                                                                |
| 71             | 7100–7425 MHz     | LIFTED                                                                |
| 30             | 7250–7375 MHz     | LIFTED                                                                |
| 72             | 7250–7750 MHz     | Revised Aug 2019                                                      |
| 72             | 7900–8400 MHz     | Revised Aug 2019                                                      |
| 72             | 10.7–11.7 GHz     | Revised Aug 2019                                                      |
| 33             | 11.7–12.2 GHz     | REPLACED by provisions in the Australian Radiofrequency Spectrum Plan |
| 72             | 12.2–13.25 GHz    | Revised Aug 2019                                                      |
| 10             | 12.75–13.25 GHz   | LIFTED                                                                |
| 16             | 12.75–13.27 GHz   | LIFTED                                                                |
| 72             | 13.75–14.8 GHz    | Revised Aug 2019                                                      |
| 17             | 14.5–15.35 GHz    | LIFTED                                                                |
| 72             | 15.43–15.63 GHz   | Revised Aug 2019                                                      |
| 72             | 17.3–21.2 GHz     | Revised Aug 2019                                                      |
| 25             | 18.8–19.3 GHz     | LIFTED                                                                |
| 69             | 24.25–24.7 GHz    | LIFTED                                                                |
| 24             | 24.5–26.5 GHz     | LIFTED                                                                |
| 72             | 24.65–25.25 GHz   | Revised Aug 2019                                                      |
| 79             | 24.7-30 GHz       | Replaced by provisions in RALI MS46                                   |
| 49             | 24.75-25.25 GHz   | LIFTED                                                                |
| 26             | 25.1–27.5 GHz     | Replaced by RALI SM26                                                 |
| 49             | 25.5-27 GHz       | LIFTED                                                                |
| 26             | 26.5–27.5 GHz     | Revised February 2016                                                 |
| 49             | 27-29.5 GHz       | LIFTED                                                                |
| 72             | 27–31 GHz         | Revised Aug 2019                                                      |
| 66             | 27.5–28.35 GHz    | LIFTED                                                                |
| 74             | 27.5–28.3 GHz     | LIFTED                                                                |
| 24             | 28.6–29.1 GHz     | LIFTED                                                                |
| 24             | 29.1–29.5 GHz     | LIFTED                                                                |
| 72             | 33.4–36 GHz       | Revised Aug 2019                                                      |
| 72             | 37.5–43.5 GHz     | Revised Aug 2019                                                      |
| 28             | 40.5–43.5 GHz     | LIFTED                                                                |
| 72             | 47.2–50.2 GHz     | Revised Aug 2019                                                      |

| <b>Embargo number</b> | <b>Frequency band</b> | <b>Comment</b>   |
|-----------------------|-----------------------|------------------|
| 72                    | 50.4–51.4 GHz         | Revised Aug 2019 |