

Radiocommunications Regulations (Radio Standards) Notice 2020

Pursuant to section 133 of the Radiocommunications Act 1989 and Regulation 32(1)(a), (b), (d), and (j) of the Radiocommunications Regulations 2001, the Chief Executive of the Ministry of Business, Innovation & Employment, hereby gives the following notice.

Notice

1. Title, commencement and purpose

- a. This notice is the Radiocommunications Regulations (Radio Standards) Notice 2020.
- b. This notice comes into force on **29 January 2020**.
- c. This notice prescribes:
 - i. classes of products;
 - ii. the standards applicable to particular classes of products;
 - iii. the level of conformity applicable to a class of product; and
 - iv. products that are exempt from the need to be the subject of a declaration of conformity.

2. Interpretation

- a. In this notice, unless the context otherwise requires:

ACMA Radiocommunications Standard means a standard made by the Australian Communications and Media Authority under subsection 162(1) of the Australian Radiocommunications Act 1992.

Act means the Radiocommunications Act 1989.

ANSI/TIA means a joint standard or specification published by the American National Standards Institute and the Telecommunications Industry Association Standards.

APCO means Association of Public-Safety Communications Officials International.

ARIB means a standard published by the Association of Radio Industries and Businesses in Japan.

AS/NZS means a joint Australian/New Zealand standard under the terms of the Active Co-operation Agreement between Standards Australia Limited and Standards New Zealand.

CFR means the Code of Federal Regulations of the United States of America.

EN means a standard published by European Telecommunications Standards Institute, commonly known as ETSI. These standards are recognised by European Committee for Electrotechnical Standardisation, commonly known as CENELEC.

IEC means a standard or specification published by the International Electrotechnical Commission.

Product means any interfering equipment which is a radio transmitter.

RFS means a standard or specification published by the Chief Executive of the Ministry of Business, Innovation & Employment.

Regulations mean the Radiocommunications Regulations 2001.

- b. Other words and expressions contained in this notice that are defined in the Act, Regulations and notices made under the Regulations, have the meanings so defined.

3. Scope

- a. Subject to subsection (b) and except for a radio transmitter operating in conformity with a spectrum licence granted under section 48(1) of the Act, every product must comply with the applicable standard for that type of product and may only be used pursuant to and in conformity with:
 - i. a general user radio licence granted by the chief executive under the Regulations.
 - ii. a general user spectrum licence granted by the chief executive under section 55A of the Act.
 - iii. a radio licence granted by the chief executive under the Regulations.
 - iv. an exemption from the requirement for a radio licence granted by the chief executive under the Regulations.
- b. If a product fits any of the following descriptions, the product is exempt from the requirement to be the subject of a declaration of conformity and to be labelled. The products are

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- i. short range device (SRD) radio transmitters installed in vehicles at the time of manufacture.
- ii. military radio transmitters of the New Zealand Defence Force.
- iii. military radio transmitters of the defence force of another country operating in co-operation with the New Zealand Defence Force.

4. Applicable standards

- a. For the purposes of Regulation 32(1)(a), (b), (c), and (d), the applicable standards and levels of conformity apply to specified classes of product as provided in the tables to this notice.
- b. Unless expressly stated to the contrary in this notice:
 - i. an amendment or modification to an ACMA Radiocommunication Standard or an AS/NZS standard is effective from the date specified by the authority issuing the amendment or modification.
 - ii. a product that is first supplied one year or more after the effective date of an amendment or modification to an ACMA Radiocommunication Standard or AS/NZS standard, must conform to that amended or modified standard.
- c. If an applicable standard is an ACMA Radiocommunications Standard, assessment of conformity of a product to that standard, including the electromagnetic radiation (EMR) performance of the product, must be in accordance with the requirements of:
 - i. relevant notices issued by the Australian Communications and Media Authority under section 182 of the Australian Radiocommunications Act 1992; and
 - ii. applicable standards made by the Australian Communications and Media Authority under subsection 162(1) of the Australian Radiocommunications Act 1992.

5. Conformity requirements

- a. All products must comply with the requirements of Table 2 of this notice.
- b. If a product is in a class to which Table 1 of this notice applies, the product must comply with the applicable standard to the level of conformity specified in that Table.
- c. If a product is in a class to which Table 1, part 4, Land Mobile and Fixed Services, of this notice applies, use of the product must conform to the requirements of the Radio Spectrum Management Public Information Brochure 38 (PIB 38).
- d. The supplier of a product to which subsection (a) applies must comply with the level of conformity requirements applying to that product as prescribed in the Radiocommunications (Compliance) Notice 2013 No. 2, published in the [New Zealand Gazette, 8 August 2013, No. 103, page 2777](#), or a notice in replacement thereof.

6. Revocation

The Radiocommunications (Radio Standards) Notice 2016, made pursuant to Regulation 32 of the Radiocommunications Regulations 2001 and published in the [New Zealand Gazette, 14 April 2016, Issue No. 31, Notice No. 2016-go2007](#), is hereby revoked on 1 February 2020.

7. Transitional provision

Notwithstanding the revocation of the notice set out in clause 6, every product that is compliant with the requirements of that notice on the commencement date of this notice is deemed to be compliant with the requirements of this notice.

Table 1—Radio Standards

Applicable Standards		Level of Conformity
1. Short Range Devices		
Short Range Devices: 9 kHz – 40 GHz	AS/NZS 4268	A1
ACMA Short Range Devices (2400 to 2483.5 MHz, 5150 to 5250 MHz, and 5725 to 5850 MHz bands only)	ACMA Radiocommunications (Short Range Devices) Standard 2014	1
Short Range Devices (9 kHz – 25 MHz)	EN 300 330-1 V1.8.1	A1
Short Range Devices (25 MHz – 1 GHz)	EN 300 220-1 V3.1.1	
Short Range Devices (above 1 GHz)	EN 300 440 V2.2.1	
Near Field Communication (NFC) Devices (13.56 MHz)	EN 302 291-1 V1.1.1	

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Medical Implant Communication System (402 - 406 MHz)	EN 301 839-1 V2.1.1	
Wireless Microphones (25 MHz - 3 GHz)	EN 300 422-1 V2.1.2	
Spread Spectrum Devices (2.4 GHz)	EN 300 328 V2.2.2	
High performance RLAN (5 GHz)	EN 301 893 V2.1.1	
Road Transport and Traffic Telematics (5.8 GHz)	EN 300 674-1 V1.2.1	
Road Transport and Traffic Telematics (24 GHz)	EN 302 288-1 V1.6.1	
Road Transport and Traffic Telematics (76 GHz)	EN 301 091-1 V2.1.1 EN 301 091-2 V2.1.1 EN 301 091-3 V1.1.1	
Broadband Radio Access Networks (60 GHz)	EN 302 567 V2.1.1	
Ultra Wide Band Devices	EN 302 065-1 V2.1.1	
Ground and Wall Probing Radar (30 - 18000 MHz)	EN 302 066-1 V2.1.1	
CFR Title 47 (2018 Edition): Part 15 - Radio Frequency Devices: Subpart C - Intentional Radiators	Sections: 15.209, 15.231, 15.235, 15.239, 15.247, 15.249, 15.251, 15.255	A1
Subpart E - Unlicensed National Information Infrastructure Devices (UNII). CFR Title 47 (2018 Edition): Part 95 - Personal Radio Services (Medical Radio transmitters 402 - 406 MHz)	Sections 15 Subpart E Section 95 Subpart I	
Low Power FM Broadcasting (LPFM)	Table 3	A1
2. Personal Communications		
HF CBRS - Citizen Band Radio Service (26 MHz)	AS/NZS 4355	A2
UHF CBRS - Citizen Band Radio Service (476 MHz)	AS/NZS 4365	
ACMA UHF CB Radio Equipment	ACMA Radiocommunications (UHF CB Radio Equipment) Standard 2011 (No.1)	2
CT1 - Cordless Telephones (below 100 MHz)	AS/NZS 4281	A2
CT2 - Cordless Telephones (864 - 868 MHz)	MPT 1334:1998	
DECT - Digital Enhanced Cordless Telecommunications (1880 - 1900 MHz)	EN 301 406 V2.2.2	
PHS - Personal Handyphone System (1895 - 1920 MHz)	ARIB RCR STD-28 Ver. 6.0	
3. Maritime, Aeronautical and Safety Services		
MF/HF Maritime Mobile (below 30 MHz)	AS/NZS 4582 EN 300 373-1 V1.4.1	A2
ACMA MF and HF Radiotelephone Equipment	ACMA Radiocommunications (MF and HF Radiotelephone Equipment - International Maritime Mobile Service) Standard 2014	2
VHF Maritime Mobile (156 - 174 MHz): Shipborne DSC Shipborne DSC - class D Portable DSC - class H Portable non-GMDSS Coast station, shipborne, and handheld	EN 300 162-1 V1.4.1 EN 301 025 V2.2.1 AS/NZS ETSI EN 301 025 EN 302 885 V2.2.3 AS/NZS ETSI EN 302 885 EN 301 178 V2.2.2 AS/NZS ETSI EN 301 178 CFR Title 47 (2018 Edition) Part 80, Subpart E	A2
ACMA VHF Radiotelephone Equipment	ACMA Radiocommunications (VHF Radiotelephone Equipment - Maritime Mobile Service) Standard 2018	2
VHF Aeronautical ground-based equipment - amplitude modulation (118 - 137 MHz)	AS/NZS 4583 EN 300 676-1 V1.5.2	A2
ACMA 118 MHz to 137 MHz Amplitude Modulated Equipment - Aeronautical Radio Service	ACMA Radiocommunications (118 MHz to 137 MHz Amplitude Modulated Equipment - Aeronautical Radio Service) Standard 2012	2
406 MHz satellite distress beacons - Marine emergency position-indicating radio beacons (EPIRBs)	AS/NZS 4280.1	A2
406 MHz satellite distress beacons - Personal locator beacons (PLB)	AS/NZS 4280.2	
ACMA 406 MHz Satellite Distress Beacons	Radiocommunications (406 MHz Satellite Distress Beacons) Standard 2014	2
Maritime survivor locating systems	AS/NZS 4869	A2
Avalanche Beacons (457 kHz)	EN 300 718-1 V2.1.1	A2
Radar transponders - Marine search and rescue (SART)	AS/NZS 4432.1 IEC 61097-1 Ed. 2.0	A2
AIS search and rescue transmitter (AIS-SART)	IEC 61097-14 Ed. 1.0	
Class B shipborne equipment of the automatic identification system (AIS) (CSTDMA)	AS/NZS IEC 62287.1 IEC 62287-1 Ed. 2.1	A2

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Class B shipborne equipment of the automatic identification system (AIS) (SOTDMA)	AS/NZS IEC 62287.2 IEC 62287-2 Ed. 2.0	
Survival craft (156.0 - 156.9 MHz)	AS/NZS 61097.12 EN 300 225 V1.5.1	A2
4. Land Mobile and Fixed Services		
MF/HF Land mobile – SSB (below 30 MHz)	AS/NZS 4770	A2
ACMA MF and HF equipment - Land Mobile Service	ACMA Radiocommunications (MF and HF equipment - Land Mobile Service) Standard 2014	2
Land mobile (Amplitude Modulation) - 12.5 kHz channels (30 - 300 MHz)	RFS 21	A2
Land mobile (Angle Modulation) - 12.5/25 kHz channels (30 - 1000 MHz)	AS/NZ 4295 EN 300 086 V2.1.2	A2
Land mobile (Angle Modulation) - 12.5/25 kHz channels (400 MHz & 800 MHz trunked radio)	EN 300 086-1 V2.1.2 CFR47 (2018 Edition) Part 90, Subpart I	A2
ACMA Analogue Speech (Angle Modulation) Equipment	ACMA Radiocommunications (Analogue Speech (Angle Modulation) Equipment) Standard 2014	2
TETRA land mobile - 25 kHz channels (800 MHz trunked radio)	EN 300 394-1 V3.3.1	A2
APCO P25 land mobile - 12.5 kHz channels (30 - 1000 MHz & 800 MHz trunked radio)	ANSI/TIA-102.CAAB-D	
APCO P25 Two-Slot Time Division Multiple Access Transceiver Performance Recommendations	ANSI/TIA-102.CCAB-A	
Digital land mobile - 6.25 kHz channels (30 - 1000 MHz)	EN 301 166-1 V1.3.2	
Digital land mobile - 12.5/25 kHz channels (30 - 1000 MHz)	AS/NZ 4768	
Digital land mobile - ETSI DMR (30 - 1000 MHz)	EN 300 113-1 V2.2.1	
Radio paging (Angle modulation)	AS/NZS 4769.1 EN 300 224 V2.1.1	A2
Radio paging (Amplitude modulation)	AS/NZS 4769.2	
ACMA Paging Service Equipment	ACMA Radiocommunications (Paging Service Equipment) Standard 2014	2
AM/FM Telemetry and Telecommand	RFS 27	A2
Fixed services (Angle Modulation) - 50 kHz channels (30 - 1000 MHz)	RFS 36	A2
Fixed services (Angle Modulation) - 12.5/25 kHz channels (30 - 1000 MHz)	AS/NZ 4295	
UHF Fixed services (Angle Modulation) - studio to transmitter links	RFS 37	
Digital fixed services 12.5/25 kHz channels (30 - 1000 MHz)	AS/NZ 4768	A2
Digital fixed services (5.9 - 40 GHz)	EN 302 217-2-2 V2.2.1	
Digital fixed services - 80 GHz Band (71 - 86 GHz)	EN 302 217-3 V2.2.1 CFR Title 47 (2018 Edition) Part 101, Subpart C	
Fixed Radio Link Devices (5725 - 5850 MHz): CFR Title 47 (2018 Edition): Part 15 - Radio Frequency Devices Subpart C - Intentional Radiators	Section 15.247	A2
CFR Title 47 (2018 Edition): Part 15 - Radio Frequency Devices Subpart E - Unlicensed National Information Infrastructure Devices (U-NII)	Sections 15.401 to 15.406	
Fixed Radio Link Devices (57 - 64 GHz):		A2

Table 2—Unwanted Emissions Limits

Spurious Emissions Limit (peak power)	Frequency Range	Measurement Bandwidth
-56 dBW (2.5µW) e.i.r.p (59 dBµV/m at 10 metres)	< 150 kHz	1 kHz
	150 kHz - 30 MHz	10 kHz
	30 MHz - 1 GHz	100 kHz
	> 1 GHz	1 MHz

Table 3—Low Power FM (LPFM) Unwanted Emissions Limits

Unwanted Emission Limits (in the resolution bandwidth)	Frequency Range (from carrier)	Spectrum Analyser Resolution Bandwidth
-25 dBW	128 kHz - 240 kHz	Not to exceed 10 kHz*
-35 dBW	> 240 kHz - 600 kHz	Not to exceed 100 kHz*
-56 dBW	> 600 kHz	100 kHz

*The spectrum analyser shall be set for five minute maximum hold

Dated at Wellington this 27th day of January 2020.

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JACQUELINE McMILLAN, Acting Manager, Licensing & Technical, Radio Spectrum Management, Ministry of Business, Innovation and Employment.

Explanatory Note

This note is not part of the notice, but is intended to indicate its general effect.

This notice prescribes:

- a. *classes of products, being interfering equipment and susceptible equipment as defined in section 2(1) of the Radiocommunications Act 1989; and*
- b. *the standards applicable to particular classes of products; and*
- c. *the level of conformity applicable to a class of product; and*
- d. *products that are exempt from the need to be the subject of a declaration of conformity; and*
- e. *the versions of applicable standards have been updated and land mobile standard Project 25 Two-Slot Time Division Multiple Access Transceiver Performance Recommendations has been added.*

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