

Radiocommunications (Radio Standards) Notice 2007

Pursuant to Regulation 32(1)(a), (b), (c), (d) and (j) of the Radiocommunications Regulations 2001, the Chief Executive, Ministry of Economic Development, hereby gives the following notice.

Notice

1. Title, commencement and purpose

- (a) This notice is the Radiocommunications (Radio Standards) Notice 2007.
- (b) This notice comes into force on 19 April 2007.
- (c) This notice prescribes:
 - (i) classes of radio transmitting products, being interfering equipment as defined in section 2(1) of the Radiocommunications Act 1989.
 - (ii) the standards applicable to particular classes of products.
 - (iii) the level of conformity applicable to a class of product.
 - (iv) products that are exempt from the need to be the subject of a declaration of conformity.

2. Interpretation

- (a) For the purposes of Table 1 of this notice:
 - “**ACMA Radiocommunications Standard**” means a standard made by the Australian Communications and Media Authority under subsection 162(1) of the Australian Radiocommunications Act 1992.
 - “**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 International Limited and Standards New Zealand.
 - “**CFR**” means the Code of Federal Regulations of the United States of America.
 - “**EN**” means a standard published by the European Committee for Electrotechnical Standardisation, commonly known as CENELEC.
 - “**ETS**” and “**ETS EN**” means a standard published by the European Telecommunications Standards Institute, commonly known as ETSI.
 - “**RFS**” means a standard or specification published by the Chief Executive of the Ministry of Economic Development.
- (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) Except for a radio transmitter operating in conformity with a spectrum licence granted under section 48(1) of the Act, every product that is a radio transmitter is subject to the provisions of this notice 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) The frequency, frequencies and power of a radio transmitter product to which subsection (a) applies must be in conformity with a licence, or exemption from the requirement for a licence, irrespective of any frequency, or frequencies, or transmitter power otherwise specified in an applicable standard prescribed in Table 1.
- (c) 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:
 - (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 applicable 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 applicable standard, must conform to that amended or modified applicable 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) If a product is in a class to which Table 1 of this notice applies, the product must conform to the requirements of an applicable standard specified in Table 1.
- (b) If a product is not in a class to which a standard prescribed in Table 1 of this notice applies, the product must, as a minimum, comply with the requirements of Table 2 of this Schedule.
- (c) Any product must, as a minimum, comply with the requirements of Table 2 of this Schedule.
- (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 2004, published in a Supplement to the *New Zealand Gazette*, 12 December 2003, No. 170, page 4714, or a notice in replacement thereof.

6. Revocation

The Radiocommunications (Radio Standards) Notice 2005 No. 2, made pursuant to Regulation 32 of the Radiocommunications Regulations 2001 and published in the *New Zealand Gazette*, 13 October 2005, No. 175, page 4397, is hereby revoked on 19 April 2007.

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 – 25 MHz Short Range Devices: 25 MHz – 25 GHz Spread Spectrum Devices: 900, 2400 and 5800 MHz bands	AS/NZS 4268 AS/NZS 4268 AS/NZS 4771	A1
ACMA Radiocommunications (Data Transmission Equipment Using Spread Spectrum Modulation Techniques) Standard 2003 2400 and 5700 MHz bands only		2
ACMA Radiocommunications (Short Range Devices) Standard 2004 2400 and 5700 MHz bands only		1
Low Power FM Broadcasting (LPFM)	Table 3	A1
Short Range Devices (9 kHz – 25 MHz) Short Range Devices (25 MHz – 1 GHz) Short Range Devices (above 1 GHz) Spread Spectrum Devices (2.4 GHz) High performance RLAN (5 GHz) Wireless Microphones (25 MHz – 3 GHz) Road Transport and Traffic Telematics (5.8 GHz) Road Transport and Traffic Telematics (76 GHz) Road Transport and Traffic Telematics (24 GHz) Medical Implant Communication System (402 – 406 MHz)	EN 300 330 EN 300 220 EN 300 440 EN 300 328 EN 301 893 EN 300 422 EN 300 674 EN 301 091 EN 302 288 EN 301 839	A1
CFR Title 47: Part 15 – Radio Frequency Devices: Subpart C – Intentional Radiators Subpart E – Unlicensed National Information Infrastructure Devices (UNII). CFR Title 47: Part 95 – General Mobile Radio Service and Personal Mobile Radio Services) (402 – 405 MHz)	Sections 15.209, 15.239, 15.247, 15.249, 15.251, 15.253, 15.255, 15.401 to 15.407 Section 95.628	A1
2. Personal Communications		
HF CBRS – Citizen Band Radio Service (26 MHz) UHF CBRS – Citizen Band Radio Service (476 MHz)	AS/NZS 4355 AS/NZS 4365	A3
ACMA Radiocommunications Standard (UHF CB Radio Transmitters) Standard 2004		3
CT1 – Cordless Telephones (below 100 MHz) CT2 – Cordless Telephones (864 – 868 MHz) DECT – Digital Enhanced Cordless Telecommunications (1880 – 1900 MHz) PHS – Personal Handyphone System (1895 – 1920 MHz)	AS/NZS 4281 MPT 1334 EN 300 176-1 and EN 301 406 ARIB RCR STC-28	A2
3. Maritime, Aeronautical and Safety Services		
MF/HF Maritime Mobile (below 30 MHz)	AS/NZS 4582 ETS 300 373	A3
ACMA Radiocommunications (MF and HF Radiotelephone Equipment – International Maritime Mobile Service) Standard 2002		3
VHF Maritime Mobile (156 – 174 MHz)	AS/NZS 4415 ETS 300 162 CFR Title 47 (Part 80, Subpart E)	A3
ACMA Radiocommunications (VHF Radiotelephone Equipment –		3

Maritime Mobile Service) Standard 2004		
VHF Aeronautical ground-based equipment – amplitude modulation (118 – 137 MHz)	AS/NZS 4583 ETSI EN 300 676	A3
ACMA Radiocommunications (118 – 137 MHz Amplitude Modulated Equipment – Aeronautical Radio Service) Standard 2002		3
121.5 and 243 MHz emergency position indicating radio beacons (EPIRBs) including personal EPIRBs	AS/NZS 4330	A3
ACMA Radiocommunications (121.5 MHz and 243.0 MHz Emergency Position-Indicating Radio Beacons) Standard 2003		3
(406 MHz) satellite distress beacons – Marine emergency position-indicating radio beacons (EPIRBs)	AS/NZS 4280	A3
ACMA Radiocommunications (406 MHz Satellite Distress Beacons) Standard 2005		3
Search and rescue radiotelephone transmitters (123.1 MHz)	AS/NZS 4330	A2
ElectroMagnetic Compatibility and Radio Spectrum Matters (ERM); Avalanche Beacons (457 kHz)	EN 300 718	A2
Radar transponders for marine search and rescue (SART) – Operational and performance requirements and methods of test	AS/NZS 4432 IEC 1097-1	A2
Survival craft (156.0 – 156.9 MHz)	AS 4416 ETS 300 225	A2
4. Land Mobile and Fixed Services		
MF/HF Land mobile – SSB (below 30 MHz)	AS/NZS 4770 EN 300 373	A3
ACMA Radiocommunications (MF and HF Equipment – land mobile service) Standard 2003		3
VHF/UHF Land mobile – angle modulation – 12.5/25 kHz channels (30 – 1000 MHz)	AS 4295 ETS 300 086	A3
ACMA Radiocommunications (Analogue Speech (Angle Modulated) Equipment) Standard 2005		3
VHF Land mobile – amplitude modulation – 12.5 kHz channels (30 – 300 MHz)	RFS 21	A3
Terrestrial trunked radio	RFS 32 EN 300 394-1 EN 300 086 CFR47 Part 90	A3
AM / FM paging	AS/NZS 4769 EN 300 224	A3
ACMA Radiocommunications (Paging Service Equipment) Standard 2002		3
AM / FM Telemetry and Telecommand	RFS 27	A2
VHF/UHF FM Fixed point to point 25/50 kHz channelling VHF/UHF FM Fixed point to point 75/500 kHz channelling	RFS 36 RFS 37	A2
<u>Fixed Radio Link Devices (5725 – 5825 MHz):</u> CFR Title 47: Part 15 – Radio Frequency Devices Subpart E – Unlicensed National Information Infrastructure Devices (U-NII)	Sections 15.401 to 15.407	A2

TABLE 2 – Unwanted Emissions Limits

Spurious Emissions Limit (peak power)	Frequency Range	Measurement Bandwidth
-56 dBW (2.25µW) 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 Emissions Limit (peak power)	Frequency Range (from carrier)	Measurement Bandwidth
-28 dBW	120 kHz – 240 kHz	Not to exceed 10 kHz*
-38 dBW	> 240 kHz – 600 kHz	Not to exceed 100 kHz*
-56 dBW	> 600 kHz	100 kHz

*Test equipment selectivity shall not impair measurement

Dated at Wellington this Monday, the 18th day of April 2007.

SANJAI RAJ, Group Manager, Radio Spectrum Management, Business Services, Ministry of Economic Development.

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.*

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