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MINISTRY  
OF  
ECONOMIC DEVELOPMENT  
RADIOCOMMUNICATIONS  
(EMC STANDARDS) (RADIO STANDARDS)  
NOTICES 2004 No. 2

PURSUANT TO THE  
RADIOCOMMUNICATIONS REGULATIONS 2001

**RADIOCOMMUNICATIONS (EMC STANDARDS) NOTICE 2004 No. 2**

*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 (EMC Standards) Notice 2004 No.2.
- (b) This notice comes into force on 1 October 2004
- (c) This notice prescribes:
  - (i) classes of electrical and electronic 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) In this notice, unless the context otherwise requires:
  - “battery powered”, in relation to a product, means a product that is not capable of being connected, either directly or indirectly, to the electrical mains supply.
  - “code of practice” means a publication prescribing the procedures and processes relating to any of the following:
    - (i) the installation and maintenance of products.
    - (ii) the interconnection of products.
    - (iii) the networking of products.
    - (iv) the assembling of components, modules and sub-assemblies to form a finished product.
  - “electromagnetic compatibility”, also known as EMC, means the ability of products to satisfactorily function as intended in their electromagnetic environment, without introducing intolerable electromagnetic disturbances into that environment.
  - “fixed installation” means a combination of parts, components, modules, or products assembled and installed at a place of use in such a way that the combination cannot be moved without being at least partially disassembled, including electric power lines and wired telecommunication distribution networks, but not including telecommunications terminal equipment designed for installation in customer premises.
- (b) For the purposes of the tables of this notice:
  - “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.
  - “CISPR” means a publication published by the Special Committee on Radio Interference of the International Electrotechnical Commission.
  - “COP” means a code of practice prescribed in this notice.
  - “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.
  - “IEC” means a publication published by the International Electrotechnical Commission.
  - “RFS” means a standard or specification published by the Chief Executive of the Ministry of Economic Development.
- (c) 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) Every product that is interfering equipment, except wanted and unwanted emissions from a radio transmitter, is subject to the provisions of this notice.
- (b) The following products are exempt from the requirement to be the subject of a declaration of conformity and to be labelled:
  - (i) those with a power consumption not exceeding 6 nano-watts.
  - (ii) a spare part intended for use in replacing parts of a product.
  - (iii) a vehicle that is registered under Part 1 of the Transport (Vehicle Registration and Licensing) Act 1986, or capable of being registered, for use on a public road.
  - (iv) military equipment or weapons systems of the New Zealand Defence Force.

- (v) military equipment or weapons systems 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 2 years or more after the effective date of an amendment or modification to an applicable standard, must conform to that amended or modified applicable standard.

#### **5. Conformity requirements**

- (a) If a product is in a class to which a standard as prescribed in tables 1 to 6 applies, that standard is an applicable standard, and the product must conform to the requirements of that applicable standard, as amended by the provisions of table 7 of this notice.
- (b) 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, or a notice in replacement thereof.
- (c) If more than one standard prescribed in tables 1 to 6 applies to a product, the applicable standard is the standard most closely related to the primary purpose, use or application of the product.
- (d) Only those requirements of a standard relating to electromagnetic radiations, or inductions apply for the purposes of this notice.

#### **6. Products to which level of conformity 1 requirements apply**

If a product is not a product to which level of conformity 2 or level of conformity 3 applies, the supplier of the product must meet the requirements of level of conformity 1. Products to which level of conformity 1 applies include those that are, or incorporate:

- (a) manually operated switches or simple relays.
- (b) brushless squirrel cage induction motors.
- (c) wire-wound, mains frequency transformers.
- (d) rectifier diodes.
- (e) resistive heating elements.

#### **7. Products to which level of conformity 2 requirements apply**

- (a) Except as provided in subsection (b), if a product is, or incorporates, any of the following, the supplier of the product must meet the requirements of level of conformity 2. The products are:
  - (i) a microprocessor or other clocked digital device.
  - (ii) a radio frequency oscillator.
  - (iii) a commutator or slip-ring motor.
  - (iv) arc welding equipment.
  - (v) a lighting ballast.
  - (vi) electronic devices operating in a switching or non-linear mode such as switched-mode power supplies, lighting dimmers, electronic transformers, and motor speed controllers.
- (b) If a product to which subsection (a) applies is any of the following, then the product is exempt from the requirement to be the subject of a compliance folder or to be labelled. The products are those that are:
  - (i) supplied in a total quantity of no more than 10 per annum.
  - (ii) battery powered.
  - (iii) a prototype for demonstration purposes.
  - (iv) a fixed installation, including telecommunications network equipment (TNE).
- (c) If a product is Group 1 industrial, scientific and medical (ISM) equipment, as defined in AS/NZS CISPR 11:
  - (i) the supplier of the product must meet the requirements of level of conformity 2; and
  - (ii) the product must comply with the provisions of Table 6 in regard to the frequencies of operation.
- (d) If a product is telecommunications terminal equipment (TTE) designed for installation in customer premises, the supplier of the product must meet the requirements of level of conformity 2.

#### **8. Products to which level of conformity 3 requirements apply**

If a product is Group 2 industrial, scientific and medical (ISM) equipment, as defined in AS/NZS CISPR 11:

- (i) the supplier of the product must meet the requirements of level of conformity 3; and

- (ii) the product must comply with the provisions of Table 6 in regard to the frequencies of operation.

### 9. Revocation

The Radiocommunications (EMC Standards) Notice 2004 made pursuant to regulation 32 of the Radiocommunications Regulations 2001 is hereby revoked on 1 October 2004.

### 10. Transitional provision

Notwithstanding the revocation of the notice set out in clause 9, 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 – Australian and New Zealand Standards (AS/NZS, AS, NZS) Standards**

AS/NZS CISPR 11	ISM radio frequency equipment
AS/NZS CISPR 12	Vehicles, motorboats, and spark-ignited engine-driven equipment
AS/NZS CISPR 13	Broadcast receivers and associated equipment
AS/NZS CISPR 14-1	Household appliances, electric tools and similar equipment
AS/NZS CISPR 22	Information technology equipment
AS/NZS 4051	Electrical lighting and similar equipment
AS/NZS 4251.1	EMC generic emission standard – residential, commercial and light industry
AS/NZS 4251.2	EMC generic emission standard – industrial environments
NZS 6869	Limits and measurement methods of electromagnetic noise from A.C. power systems,
AS 62040.2	0.15 – 1000 MHz Uninterruptible power systems (UPS)

**TABLE 2 – Special Committee On Radio Interference (CISPR) Standards**

CISPR 11	ISM radio frequency equipment
CISPR 12	Vehicles, motorboats, and spark-ignited engine-driven equipment
CISPR 13	Broadcast receivers and associated equipment
CISPR 14-1	Household appliances, electric tools and similar equipment
CISPR 15	Electrical lighting and similar equipment
CISPR 22	Information technology equipment

**TABLE 3 – International Electrotechnical Commission (IEC) Standards**

IEC 60204-31	Sewing machines, units and systems
IEC 60439-1	Low voltage switch gear and control gear assemblies
IEC 60669-2-1	Electronic switches
IEC 60669-2-2	Remote control switches (RCS)
IEC 60669-2-3	Time-delay switches (TDS)
IEC 60687	Alternating current static watt-hour meters for active energy – classes 0,2,S and 0,5,S
IEC 60730-1	Automatic electrical controls for household and similar use
IEC 60730-2-5	Automatic electrical burner control systems
IEC 60730-2-6	Automatic electrical pressure sensing controls
IEC 60730-2-7	Timers and time switches
IEC 60730-2-8	Electrically operated water valves
IEC 60730-2-9	Temperature sensing controls
IEC 60730-2-11	Energy regulators
IEC 60730-2-13	Humidity sensing controls
IEC 60730-2-14	Electric actuators
IEC 60730-2-18	Automatic electrical water and air flow sensing controls
IEC 60870-2-1	Telecontrol equipment and systems
IEC 60945	Maritime navigation and radiocommunication equipment and systems
IEC 60947-1	Low voltage switch gear and control gear
IEC 60947-2	Circuit breakers
IEC 60947-3	Switches, disconnectors, switch-disconnectors and fuse-combination units
IEC 60947-4-1	Electromechanical contactors and motor-starters
IEC 60947-4-2	AC semiconductor motor controllers and starters
IEC 60947-4-3	AC semiconductor controllers and contactors for non-motor loads
IEC 60947-5-1	Electromagnetic control circuit devices

IEC 60947-5-2	Proximity switches
IEC 60947-5-3	Proximity devices and defined behaviour under fault conditions (PDF)
IEC 60947-5-6	DC interface for proximity sensors and switching amplifiers (NAMUR)
IEC 60947-6-1	Automatic transfer switching equipment
IEC 60947-6-2	Control and protective switching devices (or equipment) (CPS)
IEC 60974-10	Arc welding equipment, Electromagnetic compatibility (EMC)
IEC 61000-3-8	Signalling on low voltage electrical installations
IEC 61000-6-3	EMC generic emission standard – residential, commercial and light industry
IEC 61000-6-4	EMC generic emission standard – industrial environments
IEC 61008-1	Residual current operated circuit breakers for household and similar uses (RCCB)
IEC 61037	Electricity metering – tariff and load control – electronic ripple control receivers
IEC 61038	Electricity metering – tariff and load controls – time switches
IEC 61326	Electrical equipment for measurement, control and laboratory use
IEC 61543	Residual current operated protective devices (RCD) for household and similar use
IEC 61800-3	Adjustable speed electrical power drive
IEC 61812-1	Specified time relays for industrial use
IEC 62040-2	Uninterruptible power systems (UPS)
IEC 62052-11	Electricity metering equipment (a.c) – Particular requirements , tests and test conditions – Part 11: Metering equipment
IEC 62053-21	Electricity metering equipment (a.c) – Particular requirements – Part 21: Static meters for reactive energy (classes 1 and 2)
IEC 62053-22	Electricity metering equipment (a.c) – Particular requirements – Part 22: Static meters for active energy (classes 0,2 and 0,5 S)
IEC 62053-23	Electricity metering equipment (a.c) – Particular requirements – Part 23: Static meters for reactive energy (classes 2 and 3)

**TABLE 4 – European Norm (EN) Standards**

EN 50065-1	Signalling on low-voltage electrical installations in the range 3 kHz to 148,5 kHz
EN 50091-2	Uninterruptible power systems (UPS)
EN 50148	Electronic taximeters
EN 50227	Control circuit devices and switching elements proximity sensors
EN 50263	Relays and protection equipment
EN 50270	Equipment for detection and measurement of combustible, toxic gases or oxygen
EN 55011	ISM radio frequency equipment
EN 55013	Broadcast receivers and associated equipment
EN 55014-1	Household appliances, electric tools and similar apparatus
EN 55015	Electrical lighting and similar equipment
EN 55022	Information technology equipment
EN 55103-1	Audio, video and entertainment lighting control apparatus for professional use
EN 61000-6-3	EMC generic emission standard – residential, commercial and light industry
EN 61000-6-4	EMC generic emission standard – industrial environments
EN 60204-31	Sewing machines, units and systems
EN 60439-1	Low voltage switchgear and controlgear assemblies
EN 60669-2-1	Switches for household and similar fixed-electrical installations – electronic switches
EN 60669-2-2	EM remote control switches (RCS)
EN 60669-2-3	Time delay switches (TDS)
EN 60730-1	Automatic electrical controls for household and similar use
EN 60730-2-5	Automatic electrical burner control systems
EN 60730-2-6	Automatic electrical pressure sensing controls
EN 60730-2-7	Timers and time switches
EN 60730-2-8	Electrically operated water valves, including mechanical requirements
EN 60730-2-9	Temperature sensing controls
EN 60730-2-11	Energy regulators
EN 60730-2-13	Humidity sensing controls
EN 60730-2-14	Electric actuators
EN 60730-2-18	Automatic electrical water and air flow sensing controls
EN 60870-2-1	Telecontrol equipment and systems
EN 60945	Maritime navigation and radiocommunication equipment and systems
EN 60947-1	Low voltage switchgear and controlgear – general rules
EN 60947-2	Circuit breakers
EN 60947-3	Switches, disconnectors, switch-disconnectors and fuse-combination units
EN 60947-4-1	Electromechanical contactors and motor starters
EN 60947-4-2	AC semiconductor motor controllers and starters
EN 60947-4-3	AC semiconductor controllers and contactors for non-motor loads

EN 60947-5-1	Electromechanical control circuit devices
EN 60947-5-2	Proximity switches
EN 60947-5-3	Proximity devices with defined behaviour under fault conditions (PDF)
EN 60947-5-6	DC interface for proximity sensors and switching amplifiers (NAMUR)
EN 60947-6-1	Multiple function equipment – automatic transfer switching equipment
EN 60947-6-2	Control and protective switching devices (or equipment) (CPS)
EN 60974-10	Arc welding equipment, Electromagnetic compatibility (EMC)
EN 61008-1	Residual current operated circuit (RCCB)
EN 61036	Alternating current static watt-hour meters for active energy (classes 1 and 2)
EN 61037	Electricity metering – tariff and load control – electronic ripple control receivers
EN 61038	Time switches for tariff and load control
EN 61326	Electrical equipment for measurement, control and laboratory use
EN 61543	Residual current operated protective devices (RCD) for household and similar use
EN 61800-3	Adjustable speed electrical power drive systems
EN 61812-1	Specified time relays for industrial use
EN 62052-11	Electricity metering equipment (a.c) – Particular requirements, tests and test conditions – Part 11: Metering equipment
EN 62053-21	Electricity metering equipment (a.c) – Particular requirements – Part 21: Static meters for reactive energy (classes 1 and 2)
EN 62053-22	Electricity metering equipment (a.c) – Particular requirements – Part 22: Static meters for active energy (classes 0,2 and 0,5 S)
EN 62053-23	Electricity metering equipment (a.c) – Particular requirements – Part 23: Static meters for reactive energy (classes 2 and 3)

**TABLE 5 – Codes of Practice**

COP 001	Personal computer assemblies
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**TABLE 6 – ISM Frequencies**

Characteristic Frequency	Frequency Range
6.780 MHz	6765 – 6795 MHz
13.56 MHz	13.553 – 13.567 MHz
27.12 MHz	26.957 – 27.283 MHz
35.7 MHz	35.4 – 36 MHz
40.68 MHz	40.66 – 40.7 MHz
433.92 MHz	433.05 – 434.79 MHz
921.5 MHz	915 – 928 MHz
2.45 GHz	2.4 – 2.5 GHz
5.8 GHz	5.725 – 5.875 GHz
24.125 GHz	24 – 24.25 GHz
61.25 GHz	61 – 61.5 GHz
122.5 GHz	122 – 123 GHz
245 GHz	244 – 246 GHz

**Table 7 – Variations to Standards**

Standard	Provisions
AS/NZS CISPR 14-1	Subclauses 7.2.1 and 8.4 do not apply
EN 55014	Subclauses 7.2.1 and 8.4 do not apply
CISPR 14	Subclauses 7.2.1 and 8.4 do not apply
AS/NZS CISPR 22	Subclause 4.2 does not apply to the extent that a warning is not required to be included in the instructions for use.
EN 55022	Subclause 4.2 does not apply to the extent that a warning is not required to be included in the instructions for use.
CISPR 22	Subclause 4.2 does not apply to the extent that a warning is not required to be included in the instructions for use.

Dated at Wellington this Monday, the 6th day of September 2004

SANJAI RAJ,  
Manager Business Services, Radio Spectrum Management,  
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.

**RADIOCOMMUNICATIONS (RADIO STANDARDS) NOTICE 2004 No. 2**

*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 2004 No 2.
- (b) This notice comes into force on 16 September 2004..
- (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:
  - “ACA Radiocommunications Standard” means a standard made by the Australian Communications 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 1 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 ACA 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 Authority under section 182 of the Australian Radiocommunications Act 1992; and
  - (ii) applicable standards made by the Australian Communications 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, or a notice in replacement thereof.

### 6. **Revocation**

The Radiocommunications (Radio Standards) Notice 2004 made pursuant to regulation 32 of the Radiocommunications Regulations 2001 is hereby revoked on 16 September 2004.

### 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**

<b>Applicable Standards</b>		<b>Level Of Conformity</b>
<b>1. Short Range Devices</b>		
Short Range Devices: 9kHz – 25 MHz Short Range Devices: 25 MHz – 25 GHz Spread Spectrum Devices: 900, 2400 & 5800 MHz bands	AS/NZS 4268. AS/NZS 4268. AS/NZS 4771	A1
ACA Radiocommunications (Data Transmission Equipment Using Spread Spectrum Modulation Techniques) Standard 2003. <b>2400 and 5700 MHz bands only</b>		2
ACA Radiocommunications (Short Range Devices) Standard 2004. <b>2400 and 5700 MHz bands only</b>		1
Low Power FM Broadcasting (LPFM)	Table 3	A1

Short Range Devices (9kHz – 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 (24 GHz and 76 GHz)	EN 300 330 EN 300 220 EN 300 440 EN 300 328 EN 301 893 EN 300 422 EN 301 091	A1
CFR Title 47: Part 15 – Radio Frequency Devices: Subpart C – Intentional Radiators Subpart E – Unlicensed National Information Infrastructure Devices (UNII).	Sections 15.247, 15.249, 15.251, 15.253, 15.255, 15.401 to 15.407	A1
<b>2. Personal Communications</b>		
HF CBRS – Citizen Band Radio Service (26 MHz) UHF CBRS – Citizen Band Radio Service (476 MHz)	AS/NZS 4355 AS/NZS 4365	A3
ACA Radiocommunications (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
<b>3. Maritime, Aeronautical, and Safety Services</b>		
MF/HF Maritime Mobile (below 30 MHz)	AS/NZS 4582 ETS 300 373	A3
ACA 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
ACA Radiocommunications (VHF Radiotelephone Equipment – Maritime Mobile Service) Standard 2004		3
VHF Aeronautical ground-based equipment – amplitude modulation (118 – 137 MHz)	AS/NZS 4583 ETSI EN 300 676	A3
ACA Radiocommunications (118 MHz – 137 MHz Amplitude Modulated Equipment – Aeronautical Radio Service) Standard 2002		3
EPIRB – Emergency position indicating radio beacons (121.5 and 243.0 MHz)	AS/NZS 4330	A3

ACA Radiocommunications (121.5 MHz and 243.0 MHz Emergency Position Indicating Radio Beacons) Standard 2003		3
EPIRB – Emergency position-indicating radio beacons (406 MHz)	AS/NZS 4280	A3
ACA Radiocommunications Standard (406 MHz Satellite Distress Beacons) No. 1 of 1996		3
Search and rescue radiotelephone transmitters (123.1 MHz)	AS/NZS 4330	A2
Avalanche Beacons (457 kHz)	EN 300 718	A2
SART – Search and rescue transponders (9200 – 9500 MHz)	AS/NZS 4432 IEC 1097-1	A2
Survival craft (156.0 – 156.9 MHz)	AS 4416 ETS 300 225	A2
<b>4. Land Mobile and Fixed Services</b>		
MF/HF Land mobile – SSB (below 30 MHz)	AS/NZS 4770 EN 300 373	A3
ACA 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
ACA Radiocommunications Standard (Analogue Speech (Angle Modulated) Equipment) No.1 of 1995		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
ACA 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 (UNII).	Sections 15.401 to 15.407	A2

**Table 2**  
**Spurious 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 to 30 MHz	10 kHz
	30 MHz to 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 to 240 kHz	Not to exceed 10 kHz *
-38 dBW	> 240 kHz to 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 6th day of September 2004.

SANJAI RAJ,  
Manager Business Services, Radio Spectrum Management,  
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.