

 Electromagnetic Fields (EMF) Protection			
Country #1	Australia		
EMF protection #2	Yes		
Instrument type #3	Guidelines	Standard	Regulation (restricted to Commonwealth Government)
Instrument coverage #4	National	National	National
Title of Instrument #5			
a.	Interim Guidelines on Limits of Exposure to 50/60 Hz Electric and Magnetic Fields	Radiocommunications (Electromagnetic Radiation - Human Exposure)	Australian Radiation Protection and Nuclear Safety Regulations
b.			Regulation 4: Kinds of apparatus that are controlled apparatus
c.			Regulation 61: Dealings with controlled apparatus generating non-ionizing radiation
Issued by whom? #6	National Health and Medical Research Council (NHMRC)	Australian Communications Authority (ACA)	Australian Radiation Protection and Nuclear Safety Agency (ARPANSA)
Issued when? #7	1989	2003	1999
Is there a revision pending? #8	Yes. ARPANSA, an Agency in the Federal Government portfolio of Health and Ageing, is currently reviewing the interim guidelines and aims to replace them with an ELF Standard.	No	Yes. ARPANSA is currently developing a new ELF Standard.
Are the limits based on ICNIRP? #9	Yes.	Yes	Yes
Compliance #10	Voluntary	Mandatory	Mandatory
			Compliance is achieved through (a) the reporting of licence holders under

If mandatory - how is compliance verified? #11	N/A	Compliance with the mandatory human exposure standard by the manufacturers and importers of specified devices is enforced through the currently operating system of random audits of compliance records as well as through complaint investigations.	<p>the guidelines described by "Guidelines about how the licence holders will report their compliance with the Australian Radiation Protection and Nuclear Safety Act 1998" available at:</p> <p>www.arpansa.gov.au/reg_rep.htm</p> <p>and</p> <p>(b) the inspection process carried out by ARPANSA, which is described in "Guidelines about how inspection of 'controlled facilities', 'controlled apparatus' and 'controlled materials' will be conducted" available at:</p> <p>www.arpansa.gov.au/inspect.htm</p>
Group protected #12	Public and Occupational	Public only	Public and Occupational
Frequency range covered #13	50/60 Hz	100 kHz to 300 GHz	a. 0-3 kHz
			b. 3 kHz - 300 GHz
Quantities #14	Basic restrictions and Reference levels		
Basic restriction quantities #15	Current Density	Specific Absorption Rate (SAR)	<p><u>Frequencies 0 - 3kHz:</u></p> <p>Current Density</p> <p><u>Frequencies 3kHz-300GHz:</u></p> <p>Specific Absorption Rate (SAR) and Current density</p>
SAR details #16	None	Spatial peak SAR: 2 W/kg	<p><u>Frequencies 0 - 3kHz:</u> None</p> <p><u>Frequencies 3kHz-300GHz:</u></p> <p>Spatial peak SAR: Occupational: 10 W/kg; Public: 2 W/kg</p>
a. averaging time	None	6 min	<p><u>Frequencies 0 - 3kHz:</u> None</p> <p><u>Frequencies 3kHz-300GHz:</u> 6 min</p>
b. averaging mass	None	10 g	<p><u>Frequencies 0 - 3kHz:</u> None</p> <p><u>Frequencies 3kHz-300GHz:</u> 10 g</p>
		"Specific Absorption Rate Test Method	

c. measurement method	None	Using Phantom Model of Human Head (1): 2001; and Australian Standard: Radiofrequency Radiation Part 2 - Principles and Methods of Measurement - 300 kHz to 100 GHz (AS 2772.2 - 1988)"	<p>Frequencies 0 - 3kHz: None</p> <p>Frequencies 3kHz-300GHz: Australian Standard: Radiofrequency Radiation Part 2 - Principles and Methods of Measurement - 300 kHz to 100 GHz (AS 2772.2 - 1988)</p>
Reference level quantities #17	Electric field strength (E), Magnetic field strength (H)	Electric field strength (E), Magnetic field strength (H/M), equivalent plane-wave power flux densities (S), Induced current, Contact current	<p>Frequencies 0 - 3kHz: Electric Field Strength (E), Magnetic Field Strength (H/M), Contact Current</p> <p>Frequencies 3kHz-300GHz: Electric field strength (E), Magnetic field strength (H/M), equivalent plane-wave power flux densities (S), Induced current, Contact current.</p>
Measurement method for reference level quantities #18	None	<p>Specific Absorption Rate Test Method Using Phantom Model of Human Head (1): 2001; and</p> <p>Australian Standard: Radiofrequency Radiation Part 2 - Principles and Methods of Measurement - 300 kHz to 100 GHz (AS 2772.2 - 1988)</p>	<p>Australian Standard: Radiofrequency Radiation Part 2 - Principles and Methods of Measurement - 300 kHz to 100 GHz (AS 2772.2 - 1988)</p>
Multiple frequency exposure #19	No	No	<p>Frequencies 0 - 3kHz: Yes</p> <p>Frequencies 3kHz-300GHz: Yes</p>
Pulsed field exposure #20	No	Yes	<p>Frequencies 0 - 3kHz: No</p> <p>Frequencies 3kHz-300GHz: Yes</p>
Contact details #21	For further information refer to the ARPANSA website	<p>For further information contact the ACA website</p> <p>and</p> <p>the Radiocommunications (Electromagnetic Radiation - Human Exposure) Standard, 2003</p>	<p>Australian Radiation Protection and Nuclear Safety Regulations, 1999</p> <p>If you would like to find out any more information regarding the Regulations please contact:</p> <p>Don Macnab, ARPANSA , P.O. Box 655, MIRANDA NSW 1490</p> <p>Ph: +61 2 9545 8329</p> <p>Fax: +61 2 9545 8348</p> <p>don.macnab@health.gov.au</p>
Request for limit data #22	Limit data is included in the "Interim Guidelines on Limits of Exposure	The limit data is included in the Radiation Protection Series No. 3 "Maximum Exposure Levels to	Limit data is included in the ICNIRP "Guidelines for limiting exposure to time-varying electric,

	to 50/60 Hz Electric and Magnetic Fields (1989)"	Radiofrequency Fields - 3 kHz to 300 GHz"	magnetic, and electromagnetic fields (up to 300 GHz)"
<p>EMF handbooks for general public #23</p>	<p>1. RF fields</p> <p>The Committee on Electromagnetic Energy Public Health Issues</p> <p>EME Series No.1 - Electromagnetic energy and its effects - 189KB <input type="checkbox"/></p> <p>EME Series No.2 - Government action on electromagnetic energy public health issues - 194KB <input type="checkbox"/></p> <p>EME Series No.3 - Australian research into EME - 177KB <input type="checkbox"/></p> <p>EME Series No.4 - The ARPANSA radiofrequency radiation exposure Standard - 177KB <input type="checkbox"/></p> <p>EME Series No.5 - About mobile phones -171KB <input type="checkbox"/></p> <p>EME Series No.6 - About mobile phone networks - 234KB <input type="checkbox"/></p> <p>EME Series No.7 - What about using a mobile phone while driving - 159KB <input type="checkbox"/></p> <p>EME Series No.8 - Potential interference of mobile phones with pacemakers, hearing aids and other devices - 164KB <input type="checkbox"/></p> <p>EME Series No.9 - What about base stations and telecommunications towers - are there any health effects? - 163KB <input type="checkbox"/></p> <p>EME Series No.10 - What about broadcast towers - are there any health effects? - 195KB <input type="checkbox"/></p> <p>EME Series No.11 - Mobile phones and children - 197KB <input type="checkbox"/></p>		

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