

FCC ID: R8N-GW-5209 IC: 5127A-GW5209

Report No	EF0603-2
Client	Millennial Net
Phone Fax	781-222-1030 617-225-0770
FRN	0011054871
Models	GW-5209-1/2-ASM
FCC ID IC # Emission Designator	R8N-GW-5209 5127A-GW5209 A1D
Equipment Type Equipment Code	Low Power Communications Device Transmitter DXX
Results	As detailed within this report
Prepared by	Josh LeBlanc – Test Engineer
Authorized by	Michael Buchholz – EMC Manager
Issue Date	7/29/05
Conditions of issue	This Test Report is issued subject to the conditions stated in 'terms and conditions' section of this

REPORT:EF0603-2

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Summary

This report is an application for a class II Permissive change of a transmitter operating pursuant to 47 CFR 15.249 and RSS-210 provided for the operation in the band of 902-928MHz. The product covered by this report is the GW-5209-1/2-ASM. It is a wireless sensor network gateway module that has both a transmitter and receiver which operates at 916.5MHz with a frequency tolerance of ±200kHz. The changes to the EUT include:

- 1) The addition of one new omni-directional whip antenna model:
 - a. Mobile Mark PSKN3-925RS
- 2) The lowering of the output power to compensate for the higher gain antenna.

A detailed description of the antennas Mobile Mark Communications model PSKN3-925RS is provided in the antenna exhibit. Only those tests affected by the above changes have been tested and included in this report.

Test Methodology

Radiated emissions testing was performed according to the procedures specified in ANSI C63.4 (2003). The EUT was maximized around all three orthogonal axes. The EUT has an external antenna which was maximized separately. The EUT is DC powered. Power was provided by a Unifive model ULW305-3315 AC/DC power supply. The standard test voltage was 120VAC. The ambient environmental conditions were as follows:

Date	Temperature	Humidity
8/11/05	24.1°C	43%

Frequency range investigated:	30 MHz- 9.166 GHz
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Measurement Distance:		
Frequency (MHz)	Distance (m)	Comments
Fundamental 916.6MHz	3 m	Radiated
Spurious & harmonics 30 – 10000MHz	3 m	Radiated

All readings are peak unless otherwise noted.

EUT Configuration

EUT Configuration

Work Order: F0603
Company: Millennial Net
Company Address: 2 Fourth Ave

S. 2 Fourth Ave

Burlington, Ma 01803

Contact: Dave Oswill
Person Present: Faraz Firoozabadi

MN SN

EUT: GW-5409-1/2-ASM 305261327 used for intentional tests

GW-5409-1/2-ASM 305261350 used for spurious tests

Unifive AC/DC power supply ULW305-3315 504-0294343

EUT Description: wireless sensor network meshnode

EUT Max Frequency: 916.5MHz

Support Equipment:	MN	SN
IBM laptop	G40	2G-0006L
endnode	EN-5409-ASM	not available
terminal board	not available	405110036

EUT Cables:	Qty	Shielded?	Length	Ferrites	
Serial cable to meshnode	1	yes	3m	no	
Power from AC/DC supply	1	no	1.5m	no	
signal cable	1	no	3m	no	

Unpopulated EUT Ports: Qty Reason

none

Software / Operating Mode Description:

The EUT was set to operate in TX and RX modes.

Spurious Radiated Emissions

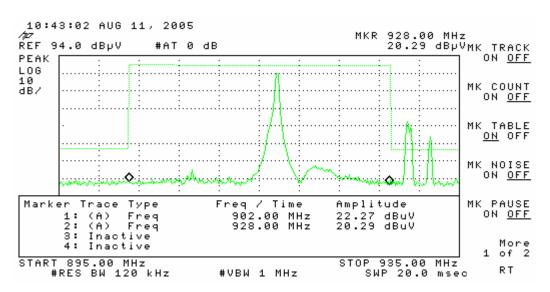
Sections 15.247(d), 15.205, 15.209, & RSS-210 2.6

Radiated	l Emissi	ons Tab	ole								Curtis -S t	raus LLC
Date:	11-Aug-05			Company:	Millennia	al Net				W	ork Order:	F0603
Engineer:	Josh LeBland	;		EUT Desc:	GW-520	9						
	Freque	ncy Range:	30-3000M	Hz					Measuremer	nt Distance:	3 m	
Notes:	White preamp	p, Orange Ho	orn, and EN	/IR-high3 ca	able were	used abov	e 2GHz.		EU	Γ Max Freq:	916.6MHz	
Antenna			Preamp	Antenna	Cable	Adjusted				F	CC Class	В
Polarization (H / V)	Frequency (MHz)	Reading (dBµV)	Factor (dB)	Factor (dB/m)	Factor (dB)	Reading (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Result (Pass/Fail)	Limit (dBµV/m)	Margin (dB)	Result (Pass/Fail)
V	47.1	40.7	21.5	10.7	0.7	30.6				40.0	-9.4	Pass
V	58.85	42.9	21.5	7.2	0.8	29.4				40.0	-10.6	Pass
V	62.15	44.0	21.5	6.8	0.9	30.2				40.0	-9.8	Pass
V	70.0	35.0	21.5	6.6	0.9	21.0				40.0	-19.0	Pass
V	101.3	30.2	21.5	11.4	1.2	21.3				43.5	-22.2	Pass
V	142.65	37.3	21.4	12.0	1.4	29.3				43.5	-14.2	Pass
V	160.35	36.1	21.5	10.9	1.5	27.0				43.5	-16.5	Pass
V	200.0	38.7	21.4	10.6	1.7	29.6				43.5	-13.9	Pass
Table	e Result:	Pass	by	-9.4	dB				Wo	orst Freq:	47.1	MHz
Test Site:	"F"	Pre-Amp:	Green	Cable:	EMIR-0	1	Analyzer:	Black		Antenna:	Green	

Sample Calculation:

Adjusted Reading = Reading - Pre Amp_(factor) + Antenna_(factor) + Cable_(factor)

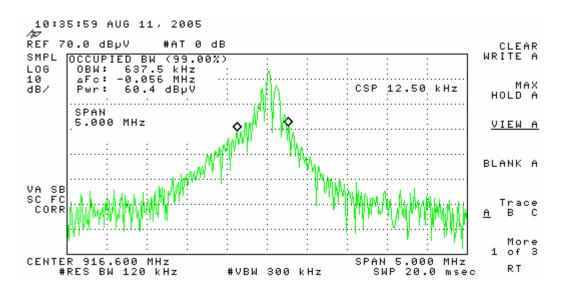
Bandedge Plot



Conclusion: As seen on the above plot, the fundamental is >10dB below the limit line shown at the bandedge and thus meets the spurious limit at the bandedge.

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Emission Bandwidth RSS-GEN Section 4.4.1



Fundamental and Harmonics Field Strength

Section 15.249(a) & RSS-210 A2.9

Fundam	ental Ra	diated E	Emissi	on							Curtis -S t	aus LLC	
Date:	11-Aug-05			Company:	Millennia	al Net				W	ork Order:	F0603	
Engineer:	Josh LeBlanc	:		EUT Desc:	GW-520	09							
	Freque	ncy Range:	916.6MHz						Measuremer	nt Distance:	3 m		
Notes:													
Antenna			Preamp	Antenna	Cable	Adjusted				F	FCC Class A		
Polarization	I			_	_								
	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Factor (dB/m)	Factor (dB)	Reading (dBu\//m)	Limit (dBu\//m)	Margin (dB)	Result (Pass/Fail)	Limit (dBu\//m)	Margin (dB)	Result	
(H / V)	(MHz) 916.6	(dBµV)	(dB)	(dB/m) 21.7	(dB)	Reading (dBµV/m) 90.7	Limit (dBµV/m)	Margin (dB)	Result (Pass/Fail)	Limit (dBµV/m) 94.0	Margin (dB) -3.3	Result (Pass/Fail) Pass	
(H / V)	(MHz)	(dBµV)	(dB)	(dB/m)	(dB) 4.5	(dBµV/m)	(dBµV/m)	(dB)	(Pass/Fail)	(dBµV/m)	(dB)	(Pass/Fail) Pass	

	11-Aug-05			Company:						٧	Vork Order:	F0603
Engineer:	Josh LeBland	;		EUT Desc:	GW-520)9						
	Freque	ncy Range:	Harmonics	up to the 1	l0th				Measuremer	nt Distance:	3 m	
Notes:	White pream	o, Orange Ho	orn, and EN	/IR-high3 c	able were	e used abov	e 2GHz.		EUT	Γ Max Freq:	916.6MHz	
Antenna	Antenna Preamp			Antenna	Cable	Adjusted					FCC Class I	В
			_				Limit	Margin	Result	Limit	Margin	Result
Polarization (H / V)	Frequency (MHz)	Reading (dBµV)	Factor (dB)	Factor (dB/m)	Factor (dB)	Reading (dBµV/m)	(dBµV/m)	(dB)	(Pass/Fail)	(dBµV/m)	(dB)	
											-	
(H / V) Havg Hpk	(MHz) 1833.0	(dBµV) 24.8	(dB) 15.3	(dB/m) 26.6	(dB) 7.4 7.4	(dBµV/m) 43.5	(dBµV/m)	(dB)	(Pass/Fail)	(dBµV/m) 54.0	(dB) -10.5	(Pass/Fail Pass Pass

Sample Calculation:

Adjusted Reading = Reading - Pre Amp_(factor) + Antenna_(factor) + Cable_(factor)

Test Equipment Used

						REV. 10-AUG-2	2005
SPECTRUM ANALYZER RECEIVERS	s/ R	ANGE	MN	MFR	SN	ASSET	CALIBRATION DUE
BLACK	9kHz-	12.8GHz	8596E	HP	3710A00944	00337	27-DEC-2005
OPEN AREA TEST S	ITE (OATS)	F	CC CODE	IC CODE	VCCI	CODE	CALIBRATION DUE
SITE F			93448	IC 2762-	F R-10	688	04-APR-2007
PREAMPS / ATTENUATORS / FILTERS	RANGE		MN	MFR	SN	ASSET	CALIBRATION DUE
GREEN	0.01-2000MHz	z ZF	L-1000-LN	C-S	N/A	00802	21-JUL-2006
WHITE	1-20GHz	S	SMC-12A	C-S	426643	00760	21-AUG-2005
ANTENNAS	RANGE	MN	MFR	SN	ASSET	CALIBR	ATION DUE
GREEN BILOG	30-2000MHz	CBL6112E		2742	00620		PR-2006
ORANGE HORN	1-18GHz	3115	EMCO	0004-6123	00390	09-JI	JN-2007
METEOROLOGICAL N	NETERS	MN	J	MFR	SN	ASSET	CALIBRATION DUE
TEMP./HUMIDITY/ATM. P GAUGE	RESSURE	7400 PERC	EPTION II	DAVIS	N/A	00965	08-FEB-2007
TEMPERATURE /HUMIDIT	Y GAUGE	THG-	912	HUGER	4000562	00789	01-FEB-2007
WEATHER CLOCK (PRESS	URE ONLY)	BA9	28	OREGON SCIENTIFIC	C3166-1	00831	02-FEB-2007

All equipment is calibrated using standards traceable to NIST or other nationally recognized calibration standard.

Terms And Conditions

Paragraph 1. SERVICES. LABORATORY will:

- Use the degree of care and skill ordinarily exercised by and consistent with the standards of the profession.
- Perform all technical services in substantial accordance with the generally accepted laboratory principles and practices.
- Retain all pertinent records relating to the services performed for a period of three (3) years following submission of the report describing such services, during which period the records will be made available to CLIENT upon reasonable request.

Paragraph 2. CLIENT'S RESPONSIBILITIES. CLIENT or his authorized representative will:

- Provide LABORATORY with all plans, schematics, specifications, addenda, change orders, drawings and other information for
- the proper performance of technical services.

 Designate a person to act as CLIENT's representative with respect to LABORATORY's services to be performed on behalf of the CLIENT's such person or firm to have complete authority to transmit instructions, receive information and data, interpret and define CLIENT's policies and decisions with respect to the LABORATORY's work on behalf of the CLIENT and to order, at CLIENT's expense, such technical services as may be required.
- Designate a person who is authorized to receive copies of LABORATORY's reports.
- Undertake the following:
 - (a) Secure and deliver to LABORATORY, without cost to LABORATORY, preliminary representative samples of the equipment proposed to require technical services, together with any relevant data.
 (b) Furnish such labor and equipment needed by LABORATORY to handle samples at the LABORATORY and to facilitate
 - the specified technical services.

GENERAL CONDITIONS: Paragraph 3.

- 3.1 LABORATORY, by the performance of services covered hereunder, does not in any way assume any of those duties or responsibilities customarily vested in the CLIENT, its employees, or any other party, agency or authority.
- LABORATORY shall not be responsible for acts of omissions of any other party or parties involved in the design, manufacture or maintenance of the equipment or the failure of any employee, contractor or subcontractor to undertake any aspect of equipment's design, manufacture or maintenance.
- LABORATORY is not authorized to revoke, alter, release, enlarge or release any requirement of the equipment's design, manufacture or maintenance unless specifically authorized by CLIENT or his authorized representative.
- THE ONLY WARRANTY MADE BY LABÓRATORY IN CONNECTION WITH ITS SERVICE PERFORMED HEREUNDER IS THAT IT WILL USE THAT DEGREE OF CARE AND SKILL AS SET FORTH IN PARAGRAPH 1 ABOVE. NO OTHER WARRANTY, EXPRESS OR IMPLIED, IS MADE OR INTENDED FOR SERVICES PROVIDED
- Where the LABORATORY indicates that additional testing is advisable to obtain more valid or useful data, and where such testing has not been authorized, CLIENT agrees to view such test reports as inconclusive and preliminary.
- The LABORATORY will supply technical service and prepare a report based solely on the sample submitted to the LABORATORY by the CLIENT. The CLIENT understands that application of the data to other devices is highly speculative
- and should be applied with extreme caution.

 The LABORATORY agrees to exercise ordinary care in receiving, preserving and shipping (F.O.B. Littleton, MA) any sample 3.7 to be tested, but assumes no responsibility for damages, either direct or consequential, which arise from loss, damage or destruction of the samples due to the act of examination, modification or testing, or technical services or circumstances beyond LABORATORY's control.
- The LABORATORY will hold samples for thirty (30) days after tests are completed, or until the CLIENT's outstanding debts
- to the LABORATORY are satisfied, whichever is later.

 The CLIENT recognizes that generally accepted error variances apply and agrees to consider such error variances in its use of
- It is agreed between LABORATORY and CLIENT that no distribution of any tests, reports or analysis other than that described below shall be made to any third party without the prior written consent of both parties unless such distribution is mandated by operation of law. It is agreed that tests, reports, or analysis results may be disclosed to third party auditors of the laboratory at the laboratory facility in the course of accreditation maintenance audits. No reference to reports or technical services of the LABORATORY shall be made in any advertising or promotional literature without the express written permission of the LABORATORY.
- 3.11 The CLIENT acknowledges that all employees of LABORATORY operate under employment contracts with the LABORATORY and CLIENT agrees not to solicit employment of such employees or to solicit information related to other clients from said employees.
- 3.12 In recognition of the relative risks and benefits of the project to both CLIENT and LABORATORY, the risks have been allocated such that the CLIENT agrees, to the fullest extent permitted by law, to limit the liability of the LABORATORY to the CLIENT for any and all claims, losses, costs, damages of any nature whatsoever or claims expenses from any cause or causes, including attorneys' fees and costs and expert witness fees and costs, so that the total aggregate liability of the LABORATORY to the CLIENT shall not exceed \$100,000, or the LABORATORY'S total fee for services rendered on this project, whichever is greater. It is intended that this limitation apply to any and all liability or cause of action however alleged or arising, unless otherwise prohibited by law.

Paragraph 4. INSURANCE:

- LABORATORY shall secure and maintain throughout the full period of the services provided to the CLIENT adequate insurance to protect it from claims under applicable Workmen's Compensation Acts and also shall maintain one million dollars of general liability coverage to cover claims for bodily injury, death or property damage as may arise from the performance of its services
- The CLIENT hereby warrants that it has sufficient insurance to protect its employees adequately under applicable Workmen's Compensation Acts and for bodily injury, death, or property damage.

No insurance of whatever kind or type, which may be carried by either party is to be considered as in any way limiting any other party's responsibility for damages resulting from their operations or for furnishing work and materials.

Paragraph 5. PAYMENT:

- CLIENT shall pay to LABORATORY such fees for services as previously agreed, orally or in writing, within 30 days of presentment of a bill for such services performed. In the event CLIENT ordered, orally or in writing, services but such services were not assigned a rate for billing, such services shall be billed at the LABORATORY's reasonable and customary rate.
- CLIENT shall be responsible for all shipping, customs and other expenses related to services provided by LABORATORY to the CLIENT, and shall fully insure any test sample or other equipment provided to LABORATORY by the CLIENT. Amounts overdue from CLIENT to LABORATORY shall be charged interest at a rate of 1½% per month. 5.2

Paragraph 6. ISO/IEC GUIDE 17025 ADDITIONS:

- CLIENT agrees that this test report will not be reproduced except in full, without written approval from the LABORATORY. CLIENT agrees that this test report shall not be used to claim product endorsement by A2LA or ANSI or any agency of the 6.2
- 6.3 CLIENT agrees that test results presented herein relate only to the sample tested by the LABORATORY.

A2LA Accreditation

SCOPE OF ACC	REDITATION TO ISO/IEC 17025-1999	EN 55011 1991, 1998	Limits and methods of measurement of radio disturbance characteristics of industrial, scientific and medical (ISM) radio-
	CURTIS-STRAUS ¹	SABS CISPR 11:1997	frequency equipment. Industrial, scientific and medical (ISM) radio-frequency equipment –
	527 Great Road Littleton, MA 01460		Electromagnetic disturbance characteristics Limits and methods of measurement
Barry Q	uinlan Phone: 978-486-8880	Canada ICES-001 1998	Industrial, scientific and medical radio frequency generators
	ELECTRICAL	CNS13803 AS/NZS 2064: 1997	Industrial, Scientific and Medical Instrument Limits and methods of measurement of electromagnetic disturbance
	ELECTRICAL	A3/NZ3 2004: 1997	characteristics of industrial, scientific and medical (ISM) radio-
Valid until: September 30, 2005	Certificate Number: 1627-01	GEA GIOS S. MIOSS	frequency equipment.
In recognition of the successful completion of	f the A2LA evaluation process, accreditation is granted to this	CSA C108.8 – M1983	Electromagnetic Emission from Data Processing Equipment and Electronic Office Machines
laboratory to perform the following Electroma	agnetic Compatibility (EMC), Telecommunications, and Product	CISPR 13:1996, 1998, 2001	Limits and methods of measurement of radio interference
Safety tests:			characteristics of sound and television broadcast receivers and associated equipment.
Electromagnetic Compatibility (EMC)		EN 55013: 1990, 2001	Sound and television broadcast receivers and associated equipment:
	netic fields); Conducted emissions testing (voltage and current); at Transient testing; Radiated Immunity testing; Conducted Immunity		Electromagnetic compatibility. Part 1: Specification for limits and methods of measurement of radio disturbance characteristics of
testing; Lightning Immunity testing; Voltage	Dips, Interrupts and Voltage Variations testing; Magnetic Immunity		broadcast receivers and associated equipment.
	Stability measurements; Longitudinal Induction measurements; ting; Low frequency disturbance voltage testing; Disturbance Power	EN 55013 Amend 12 1994	Limits and methods of measurement of radio disturbance characteristics of broadcast receivers and associated equipment.
measurements	ing, Low frequency disturbance voltage testing, Disturbance Fower		Amendment 12
mag	m: a	SABS CISPR 13: 1996	Limits and methods of measurement of radio interference
EMC Standards	<u>Title</u>		characteristics of sound and television broadcast receivers and associated equipment.
Emissions		CNS 13439	Broadcast receiver and associated equipment Limits and methods of
CISPR 22 1997 with amendments 1 and 2	Limits and methods of measurement of radio disturbance characteristics of information technology equipment.	AS/NZS 1053: 1999	measurement of radio interference characteristics of sound and television broadcast receivers and associated equipment.
CNS13438 1994	Limits and methods of measurement of radio interference	CISPR 14 1993	Limits and methods of measurement of radio disturbance
ENES022-1004 - 1 1009	characteristics of information technology equipment.	(except discontinuous disturbances)	characteristics of electrical motor- operated and thermal appliances for
EN55022:1994 and 1998	Limits and methods of measurement of radio disturbance characteristics of information technology equipment.	EN 55014 1993, 1997	household and similar purposes, electric tools and electric apparatus. Limits and methods of measurement of radio disturbance (except
SABS CISPR 22:1997	Information technology equipment - Radio disturbance	discontinuous disturbances)	characteristics of electrical motor- operated and thermal appliances for
Canada ICES-003 1997	characteristics – Limits and methods of measurement Digital apparatus		household and similar purposes, electric tools and similar electric apparatus.
AS/NZS 3548 1995	Australian/New Zealand Standard Limits and methods of	AS/NZS 1044: 1995	Limits and methods of measurement of radio disturbance (except
	measurement of radio disturbance characteristics of information	discontinuous disturbances)	characteristics of electrical motor- operated and thermal appliances for
CISPR 11 1990, 1997, 1999	technology equipment Limits and methods of measurement of electromagnetic		household and similar purposes, electric tools and similar electric apparatus.
	disturbance characteristics of industrial, scientific and medical		
	(ISM) radio-frequency equipment.	Immunity CNS13783-1	Household Electrical Appliances
		SABS CISPR 14-1 1993	Electromagnetic compatibility – Requirements for household
lar me e e	1.4.1		appliances, electric tools and similar apparatus Part 1: Emission -
Note: This accreditation covers testing perfolecated at 168 Ayer Rd, Littleton, MA 01460	ormed at the laboratory listed above and the satellite facility	SABS CISPR 14-2 1997 + A1:2001	Product family standard Electromagnetic compatibility – Requirements for household
,,,			appliances, electric tools and similar apparatus Part 2: Immunity -
(A2LA Cert. No. 1627-01) 7/25/05	Page 1 of 11		Product family standard
(AZEA Celt. 16. 1627-01) 7/25/05	rage rol ir	(A2LA Cert. No. 1627-01) 7/25/05	Page 2 of 11
CISPR 14.2.1007 1007 - 11.2001	I am a few and feel and all and few and the all	EN (1000 (1 1007 2001	El de constitución de la Constit
CISPR 14-2 1996, 1997 + A1:2001	Immunity requirements for household appliances, tools and similar apparatus.	EN 61000-6-1: 1997, 2001	Electromagnetic Compatibility (EMC)- Part 6: Generic standards- Section 1: Immunity for residential, commercial and light-industrial
CISPR 20: 1995, 2002 with amendment 3	Limits and methods of measurement of immunity characteristics		environments
(associated group only)	of sound and television broadcast receivers and associated equipment.	EN 61000-6-2: 1998, 2001	Electromagnetic Compatibility (EMC)- Part 6: Generic standards- Section 2: Immunity for industrial environments
EN 55020: 1995, 2002	Electromagnetic immunity of broadcast receivers and	EN 50091-2 1996	Specification for Uninterruptible Power Systems (UPS). Part 2: EMC
(associated group only) CISPR 24	Associated equipment. Information technology equipment – Immunity characteristics –	EN 55024 1998	requirements Information technology equipment – Immunity Characteristics – Lim
CIST R 24	Limits and methods of measurement	EN 33024 1998	and methods of measurement.
SABS CISPR 24 1997	Information technology equipment – Immunity characteristics –	EN 55103-1 1997	Electromagnetic Compatibility - Product family standard for audio,
AS/NZS 3200.1.2: 1995	Limits and methods of measurement Approval and test specification – Medical electrical Equipment		video, audio-visual and entertainment lighting control apparatus for professional use. Part 1: Emission
	 General requirements for safety – Collateral Standard: 	EN 55103-2 1997	Electromagnetic Compatibility - Product family standard for audio,
	Electromagnetic compatibility – Requirements and tests.	(excluding Annex A3)	video, audio-visual and entertainment lighting control professional us Part 2: Immunity
		FN 4122 4 1000	
		EN 61326 1998	Electrical equipment for measurement, control and laboratory use -
	Electromagnetic compatibility (EMC). Part 4: Testing and		EMC requirements
	measurement techniques. Section 2: Electrostatic discharge	EN 61547 1996	
EN 61000-4-2: 1995, 1999, 2001 EN 61000-4-3:1997, 1998, 2002	measurement techniques. Section 2: Electrostatic discharge immunity test – Basic EMC Publication Electromagnetic compatibility (EMC). Part 4: Testing and		EMC requirements Equipment for general lighting purposes – EMC immunity requirements Alarm Systems. Part 4: Electromagnetic compatibility. Product famil
EN 61000-4-2: 1995, 1999, 2001 EN 61000-4-3:1997, 1998, 2002	measurement techniques. Section 2: Electrostatic discharge immunity test — Basic EMC Publication Electromagnetic compatibility (EMC). Part 4: Testing and measurement techniques. Section 3: Radiated, radio-frequency,	EN 61547 1996	EMC requirements Equipment for general lighting purposes – EMC immunity requirements Alarm Systems. Part 4: Electromagnetic compatibility. Product famil standard: Immunity requirements for components of fire, intruder an
EN 61000-4-2: 1995, 1999, 2001 EN 61000-4-3:1997, 1998, 2002 AS/NZS 61000.4.3 1999	measurement techniques. Section 2: Electrostatic discharge immunity test – Basic EMC Publication Electromagnetic compatibility (EMC). Part 4: Testing and	EN 61547 1996	EMC requirements Equipment for general lighting purposes – EMC immunity requirements Alarm Systems. Part 4: Electromagnetic compatibility. Product famil standard: Immunity requirements for components of fire, intruder an social alarm systems.
EN 61000-4-2: 1995, 1999, 2001 EN 61000-4-3:1997, 1998, 2002 AS/NZS 61000.4.3 1999	measurement techniques. Section 2: Electrostatic discharge immunity test – Basic EMC Publication Electromagnetic compatibility (EMC). Part 4: Testing and measurement techniques. Section 3: Radiated, radio-frequency, electromagnetic field immunity test Electromagnetic compatibility (EMC). Part 4: Testing and measurement techniques. Section 4: Electrical fast	EN 61547 1996 EN 50130-4 1996 EN 55104 1995	EMC requirements Equipment for general lighting purposes – EMC immunity requirements Alarm Systems. Part 4: Electromagnetic compatibility. Product famil standard: Immunity requirements for components of fire, intruder an social alarm systems. Electromagnetic compatibility immunity – requirements for househol appliances, tools and similar apparatus. Product family standard.
EN 61000-4-2: 1995, 1999, 2001 EN 61000-4-3:1997, 1998, 2002 AS/NZS 61000.4-3 1999 EN 61000-4-4 1995	measurement techniques. Section 2: Electrostatic discharge immunity test – Basic EMC Publication Electromagnetic compatibility (EMC). Part 4: Testing and measurement techniques. Section 3: Radiated, radio-frequency, electromagnetic field immunity test Electromagnetic compatibility (EMC). Part 4: Testing and	EN 61547 1996 EN 50130-4 1996	EMC requirements Equipment for general lighting purposes – EMC immunity requirements Alarm Systems. Part 4: Electromagnetic compatibility. Product famil standard: Immunity requirements for components of fire, intruder an social alarm systems. Electromagnetic compatibility immunity – requirements for househol appliances, tools and similar apparatus. Product family standard.
EN 61000-4-2: 1995, 1999, 2001 EN 61000-4-3:1997, 1998, 2002 AS/NZS 61000.4.3 1999 EN 61000-4-4 1995 EN 61000-4-5 1995 AS/NZS 61000.4.5 1999	measurement techniques. Section 2: Electrostatic discharge immunity test – Basic EMC Publication Electromagnetic compatibility (EMC). Part 4: Testing and measurement techniques. Section 3: Radiated, radio-frequency, electromagnetic field immunity test Electromagnetic feod immunity test Electromagnetic compatibility (EMC). Part 4: Testing and measurement techniques. Section 4: Electrical fast transient/burst immunity test – Basic EMC publication (EMC) Part 4: Testing and measurement techniques. Section 5: Surge immunity test.	EN 61547 1996 EN 50130-4 1996 EN 55104 1995	EMC requirements Equipment for general lighting purposes – EMC immunity requirements Alarm Systems. Part 4: Electromagnetic compatibility. Product famil standard: Immunity requirements for components of fire, intruder an social alarm systems. Electromagnetic compatibility immunity – requirements for househol appliances, tools and similar apparatus. Product family standard. Cabled distribution systems for television and sound signals. Part 2: Electromagnetic compatibility for equipment. Medical electrical equipment Part 1: general requirements for safety
EN 61000-4-2: 1995, 1999, 2001 EN 61000-4-3:1997, 1998, 2002 AS/NZS 61000.4-3 1999 EN 61000-4-4 1995 EN 61000-4-5 1995 AS/NZS 61000.4-5 1999 EN 61000-4-6 1996	measurement techniques. Section 2: Electrostatic discharge immunity test – Basic EMC Publication Electromagnetic compatibility (EMC). Part 4: Testing and measurement techniques. Section 3: Radiated, radio-frequency, electromagnetic field immunity test Electromagnetic compatibility (EMC). Part 4: Testing and measurement techniques. Section 4: Electrical fast transient/burst immunity test. Testing EMC Part 4: Testing and measurement techniques. Section 5: Surge immunity test. Electromagnetic compatibility (EMC). Part 4: Testing	EN 61547 1996 EN 50130-4 1996 EN 55104 1995 EN 50083-2 1995	EMC requirements Equipment for general lighting purposes – EMC immunity requirements Alarm Systems. Part 4: Electromagnetic compatibility. Product famil standard: Immunity requirements for components of fire, intruder an social alarm systems. Electromagnetic compatibility immunity – requirements for househol appliances, tools and similar apparatus. Product family standard. Cabled distribution systems for television and sound signals. Part 2: Electromagnetic compatibility for equipment. Medical electrical equipment Part 1: general requirements for safety Section 2: Collateral standard: Electromagnetic compatibility –
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EN 61000-4-2: 1995, 1999, 2001 EN 61000-4-3:1997, 1998, 2002 ASNZS 61000.4-3 1999 EN 61000-4-4 1995 EN 61000-4-5 1995 ASNZS 61000.4-5 1999 EN 61000-4-6 1996 ASNZS 61000.4-6 1999 EN 61000-4-8 1994 EN 61000-4-11 1994 ENV 61000-2-2 1993 EU Product Family Standards EN 50081-1 1992 EN 50081-2 1993 EN 50082-1 1992, 1998	measurement techniques. Section 2: Electrostatic discharge immunity test – Basic EMC Publication Electromagnetic compatibility (EMC). Part 4: Testing and measurement techniques. Section 3: Radiated, radio-frequency, electromagnetic field immunity test Electromagnetic compatibility (EMC). Part 4: Testing and measurement techniques. Section 4: Electrical fast transient/burst immunity test – Basic EMC publication (EMC) Part 4: Testing and measurement techniques. Section 6: Electromagnetic compatibility (EMC). Part 4: Testing and measurement techniques. Section 6: Immunity to conducted disturbances, induce by radio-frequency fields. Electromagnetic compatibility (EMC). Part 4: Testing and measurement techniques. Section 8: Power frequency magnetic field immunity test. (EMC) Part 4: Testing and measurement techniques. Section 8: Voltage dips, short interruptions and voltage Variations immunity tests. Electromagnetic compatibility (EMC). Part 2: Environment, Section 2: Compatibility levels for low-frequency conducted disturbances and signaling in public low-voltage power supply systems (IEC 1000-2-2:1990) Electromagnetic capability – Generic emission standard. Part 1: Residential, commercial and light industry. (LS.) Electromagnetic compatibility – Generic emission standard. Part 2: Industrial environment Electromagnetic compatibility – Generic emission standard. Part 1: Residential, commercial and light industry.	EN 61547 1996 EN 50130-4 1996 EN 50130-4 1996 EN 55104 1995 EN 50083-2 1995 EN 60601-1-2: 1993, 2002 IEC 1800-3 1995 EN 60555 Part 2 1987 EN 60555 Part 3 1987 EN 61000-3-2: 1995, 2000 AS/NZS 61000.3.2 1998 EN 61000-3-3 1995 AS/NZS 61000.3.3 1999	EMC requirements Equipment for general lighting purposes – EMC immunity requirements Alarm Systems. Part 4: Electromagnetic compatibility. Product famil standard: Immunity requirements for components of fire, intruder an social alarm systems. Electromagnetic compatibility immunity – requirements for househol appliances, tools and similar apparatus. Product family standard. Cabled distribution systems for television and sound signals. Part 2: Electromagnetic compatibility for equipment. Medical electrical equipment Part 1: general requirements for safety Section 2: Collateral standard: Electromagnetic compatibility – requirements and tests Adjustable speed electrical power drive systems. Part 3: EMC produ standard including specific test methods. Disturbances in supply systems caused by household appliances and similar electrical equipment. Part 2: Harmonics Disturbances in supply systems caused by household appliances and similar electrical equipment. Part 3: Voltage fluctuations. Electromagnetic compatibility (EMC). Part 3: Limits Section 2: Limi for harmonic current emissions Electromagnetic compatibility (EMC). Part 3: Limits Section 2: Limitation of voltage fluctuations and flicker in low-voltage supply systems. Equipment Engineering (EE); Public telecommunication network equipment electro-magnetic compatibility (EMC). Pour part 2- Part 3- Part
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EN 61000-4-2: 1995, 1999, 2001 EN 61000-4-3:1997, 1998, 2002 AS/NZS 61000.4:3 1999 EN 61000-4-4 1995 EN 61000-4-5 1995 AS/NZS 61000.4:5 1999 EN 61000-4-6 1996 AS/NZS 61000.4:6 1999 EN 61000-4-8 1994 EN 61000-4-8 1994 EN 61000-2-2 1993 EU Product Family Standards EN 50081-1 1992 EN 50081-2 1993 EN 50081-2 1993 EN 50082-1 1992, 1998	measurement techniques. Section 2: Electrostatic discharge immunity test – Basic EMC Publication Electromagnetic compatibility (EMC). Part 4: Testing and measurement techniques. Section 3: Radiated, radio-frequency, electromagnetic field immunity test Electromagnetic compatibility (EMC). Part 4: Testing and measurement techniques. Section 4: Electrical fast transient/burst immunity test – Basic EMC publication (EMC) Part 4: Testing and measurement techniques. Section 6: Surge immunity test. Electromagnetic compatibility (EMC). Part 4: Testing and measurement techniques. Section 6: Immunity to conducted disturbances, induce by radio-frequency fields. Electromagnetic compatibility (EMC). Part 4: Testing and measurement techniques. Section 8: Power frequency magnetic field immunity test. (EMC) Part 4: Testing and measurement techniques. Section 11: Voltage dips, short interruptions and voltage Variations immunity tests. Electromagnetic compatibility (EMC). Part 2: Environment, Section 2: Compatibility levels for low-frequency conducted disturbances and signaling in public low-voltage power supply systems (IEC 1000-2-2:1990) Electromagnetic capability – Generic emission standard. Part 1: Residential, commercial and light industry. (LS.) Electromagnetic compatibility – Generic emission standard. Part 2: Industrial environment Electromagnetic compatibility – Generic emission standard. Part 1: Residential, commercial and light industry (immunity immunity lest immunity light industry (immunity immunity).	EN 61547 1996 EN 50130-4 1996 EN 50130-4 1996 EN 55104 1995 EN 50083-2 1995 EN 60601-1-2: 1993, 2002 IEC 1800-3 1995 EN 60555 Part 2 1987 EN 60555 Part 3 1987 EN 61000-3-2: 1995, 2000 AS/NZS 61000.3.2 1998 EN 61000-3-3 1995 AS/NZS 61000.3.3 1999	EMC requirements Equipment for general lighting purposes – EMC immunity requirements Alarm Systems. Part 4: Electromagnetic compatibility. Product famil standard: Immunity requirements for components of fire, intruder an social alarm systems. Electromagnetic compatibility immunity – requirements for househol appliances, tools and similar apparatus. Product family standard. Cabled distribution systems for television and sound signals. Part 2: Electromagnetic compatibility for equipment. Medical electrical equipment Part 1: general requirements for safety Section 2: Collateral standard: Electromagnetic compatibility – requirements and tests Adjustable speed electrical power drive systems. Part 3: EMC produc standard including specific test methods. Disturbances in supply systems caused by household appliances and similar electrical equipment. Part 2: Harmonics Disturbances in supply systems caused by household appliances and similar electrical equipment. Part 3: Voltage fluctuations. Electromagnetic compatibility (EMC). Part 3: Limits Section 2: Limit for harmonic current emissions Electromagnetic compatibility (EMC). Part 3: Limits Section 2: Limitation of voltage fluctuations and flicker in low-voltage supply systems. Equipment Engineering (EE); Public telecommunication network equipment electro-magnetic compatibility (EMC). Pcoloriements Part 1

ETS EN 300 386-2 1997, 1998,	Electromagnetic compatibility and radio spectrum matters	EN 300 328-2:2001	Electromagnetic compatibility and Radio spectrum Matters (ERM);
ETS EN 300 386 2000 v1.2.1, 2001 v1.3.1	(ERM); Telecommunication network equipment; Electromagnetic compatibility (EMC) requirements; Part 2: Product family	v1.2.1	Wideband Transmission systems; Data transmission equipment operating in the 2,4 GHz ISM band and using spread spectrum modulation techniques; Part 2: Harmonized EN covering essential
ETS 300 132-1 1996	standard. Equipment Engineering (EE); Power supply interface at the input to telecommunications equipment; Part 1: Operated by	EN 301 489-1:2002	requirements under article 3.2 of the R&TTE Directive Electromagnetic compatibility and Radio spectrum Matters (ERM); Electromagnetic Compatibility (EMC) standard for radio equipment
ETS 300 132-2 1996	alternating current (ac) derived from direct current (dc) sources Equipment Engineering (EE); Power supply interface at the input to telecommunications equipment; Part 2: Operated by	EN 60669-2-1:2002	and services; Part 1: Common technical requirements Switches for household and similar fixed electrical installations Part 2-1: Particular requirements Electronic switches
ETR 283 1997	direct current (dc) Equipment Engineering (EE): Transient voltages at Interface A on telecommunications direct current (DC) power distributions.	Canada Radio Standards Canadian GL-36 1995	$\label{lower} Industry\ Canada-technical\ requirements\ for\ low\ power\ Devices\ in\ the\ 2400-2483.5\ MHz\ band.$
EU radio standards (ETS) EN 300 385 v1.2.1: 1998, 1999	Electromagnetic compatibility and Radio spectrum matters	Canadian RSS-119 1999, 2000 Issue 6	Industry Canada – Land mobile and fixed radio Transmitters and receivers, 27.41 to 960.0 MHz
	(ERM); Electromagnetic Compatibility (EMC) standard for fixed radio links and ancillary equipment (ETS)	Rev 1	Industry Canada – 900 MHz narrowband personal communications services
EN 300 330 v1.2.1: 1998, 1999	Electromagnetic compatibility and Radio spectrum matters (ERM); Short range devices (SRD); Technical characteristics and test methods for radio equipment in the range 9 kHz to 25	Canadian RSS-210 2000 Issue 3, RFS29 1998	Industry Canada – Low power license-exempt radio 2001 Issue 5 communication devices Specification for Restricted Radiation Radio Apparatus (New Zealand)
	MHz and inductive loop systems in the frequency range 9 kHz to 30 MHz	FCC Standards	
ETS 300 328 1996	Radio Equipment and Systems (RES); Wideband transmission systems; Technical characteristics and test conditions for data transmission equipment operating in the 2,4 GHz ISM band and using spread spectrum modulation techniques	47 CFR FCC low power transmitters operating on frequencies below 1 GHz, emergency alert systems, unintentional radiators and ISM devices.	Scope AI
ETS EN 300 440 v1.2.1 1999	Electromagnetic compatibility and Radio spectrum matters (ERM); Short range devices; Technical characteristics and test	47 CFR FCC low power transmitters operating on frequencies above 1 GHz,	Scope A2
	methods for radio equipment to be used in the 1 Ghz to 40 Ghz frequency range	with the exception of spread spectrum devices.	
EN 301 893:2002 v1.2.1	Broadband Radio Access Networks (BRAN); 5 GHz (draft) high performance RLAN; Harmonized EN covering Essential	47 CFR FCC Unlicensed Personal Scope Communications System (PCS) devices	
ETS 300 836-1:1998	requirements of article 3.2 of the R&TTE Directive Broadband Radio Access Networks (BRAN); High Performance Radio Local Area Network (HIPERLAN) Type 1; Conformance	47 CFR FCC Unlicensed National Scope Information Infrastructure devices and low power transmitters using spread	A4
	requency (RF) conformance test specification	spectrum techniques. 47 CFR FCC Personal mobile Scope	BI
EN301 489-17:2002 v1.2.1	Electromagnetic compatibility and Radio spectrum Matters (ERM); Electromagnetic Compatibility (EMC) standard for	Radio Services in the following FCC Rule Parts 22, 24, 25, 27.	
	radio equipment and services; Part 17: Specific conditions for 2,4 GHz wideband transmission systems and 5 GHz high	47 CFR FCC General Mobile Radio Scope Services in the following FCC	B2
	performance RLAN equipment	Rule Parts 22, 74, 90, 95, 97. 47 CFR FCC Maritime and Aviation Scope RadioServices in 47 CFR Parts	В3
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FCC/OST MP-5 1986	FCC (Federal Communications Commission) methods Of	TIA/EIA-IS-968	Telecommunications Telephone Terminal Equipment Technical
GD 1000 GODE 1007 1000 : 2/	measurement of radio noise emissions from industrial, scientific and medical equipment.	TV TV 10 000	Requirements for Connection of Terminal Equipment to the Telephone Network
GR-1089-CORE: 1997, 1999 issue 2/ 2002 Issue 3 ANSI EMC Standards	Bellcore electromagnetic compatibility and electrical safety – Generic criteria for network telecommunications equipment.	TIA/EIA-IS-883 TIA-968-A	Telecommunications Telephone Terminal Equipment Supplemental Technical Requirements for Connection of Stutter Dial Tone Detection Devices and ADSL Modems to the Telephone Network Telecommunications Telephone Terminal Equipment Technical
ANSI C63.4: 1992, 1999, 2001, 2003	American National Standard for methods of measurement of radio-noise emissions for low-voltage electrical and electronic	11A-908-A	Requirements for Connection of Terminal Equipment to the Telephone Network
ANSI C63.5 1988	equipment in the range of 9 kHz to 40GHz. American National Standard for electromagnetic compatibility —	T1.TRQ.6-2001	Technical Requirements for SHDSL, HDSL2, HDSL4 Digital Subscriber Line Terminal Equipment to Prevent Harm to the Telephone
	radiated emissions measurements in electromagnetic interference (EMI) control – calibration of antennas.	Canada VDSL Issue 1 January 2003	Network Industry Terminal Attachment Program Requirements and Test Methods for Very-High-Bit-Rate Digital Subscriber Line (VDSL) Terminal
IEEE EMC Standards IEEE C62.41: 1980, 1991	IEEE recommended practice on surge voltages in low-voltage	AS/ACIF S002-2001	Equipment Analogue interworking and non-interference requirements for
	AC power circuits		Customer Equipment for connection to the Public Switched Telephone Network
Swedish EMC Standards BAKOM 3336.3 1995	Electromagnetic compatibility and electrical safety (EMC & S)	AS/ACIF S016-2001	Requirements for Customer Equipment for connection to hierarchical digital interfaces
	for wired terminal equipment. Harmonization document information over the OFCOM requirements.	AS/ACIF S031-2001 AS/ACIF S038-2001 AS/ACIF S043-2001	Requirements for ISDN Basic Access Interface Requirements for ISDN Primary Rate Access Interface Requirements for Customer Equipment for Connection to a Metallic
South African EMC standards other than CISP. SABS 1718-1: 1996	R equivalents South African Bureau of Standards: Specification for Gaming	AS/ACT 5043-2001	Local Loop Interface of a Telecommunications Network — Part 1: General
	equipment. Part 1: Casino equipment.		Part 2: Broadband Part 3: DC, Low Frequency AC and Voiceband
Japanese VCCI Standards VCCI V-3/99.05 1999	Technical Requirements	ITU-T G.703 HKTA 2028	Physical/electrical characteristics of hierarchical Digital interfaces Network connection specification for connection of CPE to the PTNs in
VCCI V-4/99.05 1999	Instruction for Test Conditions for Requirement under Test	HKTA 2029	Hong Kong using digital leased circuits at data rate of 1544 kbit/s Network connection specification for connection of CPE to the PTNs in Hong Kong using digital leased circuits at data rate of 2048 kbit/s
	methods; Lightning surge; Drop testing; Balance testing; Signal	TBR 1 : 1995	Attachment requirements for terminal equipment to be connected to circuit switched data networks and leased circuits using a CCITT
power (metallic and longitudinal); Frequency measurements; Pulse templates; Leakage testing; Impedance testing; Hearing Aid Compatibility testing (excluding volume control); Protocol analysis and Jitter testing.			Recommendation X.21 interface, or at an interface physically, functionally and electrically compatible with CCITT Recommendation
<u>Telecom Standards</u>	<u>Title</u>	TDD 2 . 1007	X.21 but operating at any data signaling rate up to, and including, 1984 kbit/s
FCC 47 CFR Part 68 Telephone	Connection of terminal equipment to the telephone Terminal	TBR 2: 1997	Attachment requirements for Data Terminal Equipment (DTE) to connect to Packet Switched Public Data Networks (PSPDNs) for CCITT Recommendation X.25 interfaces at data signaling rates up to 1
-	Equipment network. Analog and Digital Equipment. TCB Scope		
CS-03 Issue 8 1996 through amendment 5	C1. Specification for terminal equipment, terminal systems, Network protection devices, connection arrangements and		920 kbit/s utilizing interfaces derived from CCITT Recommendations X.21 and X.21 bit
CS-03 Issue 8 1996 through amendment 5 TIA/EIA TSB31-B 1998	C1. Specification for terminal equipment, terminal systems,		

IEC 60950 2000 EN 60950 1997, 1998, 2000 TBR 3: 1995 + Amdt: 1997 Integrated Services Digital Network (ISDN); Attachment Safety of information technology equipment requirements for terminal equipment to connect to an ISDN Safety of information technology equipment, including using ISDN basic access IEC 60950-1 2001 Electrical business equipment. TBR 4: 1995 + Amdt: 1997 Integrated Services Digital Network (ISDN); Attachment requirements for terminal equipment to connect to an ISDN using ISDN primary rate access UL 60950-1 2001 UL 60950-1 2003 CSA C22.2 No. 60950-00 CSA C22.2 No. 60950-1 03 AS/NZS 3260 1993 TBR 012: 1993 + Amdt: 1996 Business Telecommunications (BT); Open Network Provision Approval and test specification - Safety of information technology Approval and test specification – Safety of information technology equipment including electrical business Equipment.

Approval and test specification – Safety of information technology equipment including electrical business equipment – Alphabetical reference index to IEC 950 (Supplement to AS/NZS 3260:1993)

Australian Communications Authority – Safety requirements for (ONP) technical requirements: 2 048 kbit/s digital unstructured leased line (D2048U) Attachment requirements for terminal AS/NZS 3260 Supp 1 1996 equipment Business TeleCommunications (BTC); 2 048 kbit/s digital structured leased lines (D2048S); Attachment requirements for TBR 013: 1996 ACA TS 001 1997 terminal equipment interface customer equipment. terminal equipment interface
Terminal Equipment (TE); Attachment requirements for panEuropean approval for connection to the analogue Public
Switched Telephone Networks (PSTNs) of TE (excluding TE
supporting the voice telephony service) in which network
addressing, if provided, is by means of Dual Tone Multi customer equipment.

Telephone Equipment

Safety requirements for electrical equipment for measurement, control
and laboratory use, Part 1: General requirements.
Safety requirements for electrical equipment for measurement, control
and laboratory use, Part 1: General requirements. TBR 21: 1998 UL 1459 1995 IEC 1010-1 1990 IEC 61010-1 1990 IEC 61010-1 1993 EN 61010-1 1993, 2001 IEC 61010-1 2001 Frequency (DTMF) signaling Business TeleCommunications (BTC); 34 Mbit/s digital UL 61010B-1 2003 TBR 24: 1997 UL 3101-1 1993 Electrical equipment for laboratory use Part 1: General requirements. Unstructured and structured leased lines (D34U and D34S); Attachment requirements for terminal equipment interface UL 3111-1 1996
UL 3121-1 1995
IEC 60601-1 1995 Electrical measuring and test equipment. Part 1: General requirements. Australia Medical electrical equipment. Part 1: General requirements for safety. Medical electrical equipment. Fait 1: General requirements for safety. Medical electrical equipment. Medical electrical equipment. Part 1: General Requirements for safety. Audio, video and similar electronic apparatus – Safety requirements Audio/video and musical instrument apparatus for Household, commercial and similar general use Australian/New Zealand Standard – Approval and test Analogue Interworking and Non interference Requirements for Customer Equipment Connected to the Public Switched Telephone Network TS 002: 1997 EN 60601-1 1995 (Including AM 2) UL 2601-1 1997 IEC 60065 1998, 2000 ANSI/UL 6500: 1998 CAN/CSA 60065-00 AS/NZS 3250 1995 General Requirements for Customer Equipment Connected to Hierarchical Digital Interfaces Requirements for ISDN Basic Access Interface TS 016: 1997 TS 031: 1997 Australian/New Zealand Standard – Approval and test Specification – Mains operated electronic and related Equipment for household and similar general use Audio, video and similar electronic equipment. Consumer and 1994, commercial products Safety requirements for main operated electronic and related apparatus for household and similar general use. Radiation safety of laser products, equipment Classification, requirements and user's guide Safety of laser products Part 1: equipment Classification, requirements and user's suide. Requirements for ISDN Primary Rate Access Interface Requirements for Customer Equipment for connection to a metallic loop interface of a Telecommunications Network – Part 2 Broadband AS/NZS 60065 2000 AS/ACIF S043.2:2001 Canadian C22.2 No. 1-94 (1-98) 1998 EN 60065 1994 Product Safety
General test methods; Input tests; Electric strength tests; Impulse tests; Permanency of marking tests; IEC 60825 1990 Ocherat less intentious, implicitess, recent starting in esses, implicite essis, retinateiner, or inaturig tests; Accessibility tests; Energy Hazard measurements; Capacitor discharge tests; Humidity conditioning; Earthing tests; Limited power source measurements; Stability tests; Steel ball tests; Lithium Battery Reverse Current measurements; Leakage current tests; Transformer abnormal tests; Telecom leakage tests; Over voltage/power EN 60825-1 1994 Safety of laser products – Part 2: Safety of optical co systems
IEC 60825-4 1997-11 Safety of laser products – Part 4: Laser guards
IEC 60335-1 1995 Safety of losue hold and similar electrical appliances (Including AM2 – 1997 & AM 12 – 1997) Part 1: General requirements
EN 60335-1 2001
UL 60335-1 1998
CAN/CSA E335-1 1004 and user's guide. Safety of laser products – Part 2: Safety of optical communication cross tests (excluding x-ray tests). Product Safety Standards Title Specific Product Safety Standards IEC 950 1991 Safety of information technology equipment including Includes Amendments 1, 2, 3, and 4 electrical business equipment. UL 1950 1998 Safety of information technology equipment, including Safety of information Technology Equipment, including lectrical business equipment.

Safety of Information Technology Equipment (UL 1950)

Safety of information technology equipment CSA C22.2 No.950-95 (A2LA Cert. No. 1627-01) 7/25/05 Page 9 of 11 (A2LA Cert. No. 1627-01) 7/25/05 Page 10 of 11 UL 61010A-1: 2002 Electrical equipment for laboratory use; part 1: General requirements
Safety requirements for electrical equipment for measurement,
control, and laboratory use - Part 1: General requirements
Safety information technology equipment EN 61010-1:2001 AS/NZS 60950 : 2000 Environmental 2 Environmental Standards GR-63-CORE ETS 300 019 Title
NEBS Requirements: Physical Protection
Environmental conditions and environmental tests For
telecommunications equipment (vibration up to 1000Hz) Environmental testing is performed at the satellite facility located at 168 Ayer Rd, Littleton, MA 01460 Page 11 of 11 (A2LA Cert. No. 1627-01) 7/25/05