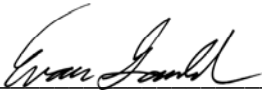



Report No	EE0489-1
Client	Escort, Inc. 5440 West Chester Road West Chester, OH 45069
Phone	(513)-870-8535
Fax	(513)-870-8523
FRN	0007508732
<hr/>	
Model	Road Tech 75
FCC ID	QKLRT75
Equipment Type Equipment Code	Radar Detector CRD
Results	As detailed within this report
<hr/>	
Prepared by	 Evan Gould – Test Engineer
Authorized by	 Michael Buchholz – EMC Manager
Issue Date	7/2/04
Conditions of issue	This Test Report is issued subject to the conditions stated in 'terms and conditions' section of this report.

Curtis-Straus LLC is accredited by the American Association for Laboratory Accreditation for the specific scope of accreditation under Certificate Number 1627-01. This report may contain data which is not covered by the A2LA accreditation.

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Summary

This report is an application for Certification of a radar detector operating pursuant to 47 CFR 15.109(h). This report is designed to demonstrate the compliance of the Road Tech 75 with the requirements outlined in Part 15 (using the methods outlined in Part 2) of 47 CFR.

Statement of Conformity

47 CFR 15.109(h) states that “*Radar detectors shall comply with the emissions limits...of [section 15.109(a)] over the frequency range of 11.7 – 12.2GHz.*” The applicable limit being 500 μ V/m measured at a distance of 3m. The Escort Road Tech 75 has been tested and found to comply with this requirement:

Test Methodology

Radiated emission testing was performed according to the procedures in ANSI C63.4 (2001). The testing was performed at a distance of 1 meter. The device’s performance was investigated in the range 11.7-12.2GHz. The Road Tech 75 was powered by an HP E3612A variable DC power supply. Since the device is a hand-held unit, the emissions were maximized around the three orthogonal axes and the maximum reading was recorded. The integrated antenna cannot be maximized separately.

Test Equipment Used

REV. 6/17/04

SPECTRUM ANALYZER	RANGE	MN	MFR	SN	ASSET	CALIBRATION DUE
ORANGE	9kHz-26.5GHz	E4407B	HP	US39440975	00394	03-JUN-2005
OPEN AREA TEST SITE (OATS)		FCC CODE	IC CODE	VCCI CODE	CALIBRATION DUE	
SITE F		93448	IC 2762-F	R-1688	25-MAR-2005	
ANTENNA	RANGE	MN	MFR	SN	ASSET	CALIBRATION DUE
ORANGE HORN	1-18GHz	3115	EMCO	0004-6123	00390	04-JUN-2005
PREAMP	RANGE	MN	MFR	SN	ASSET	CALIBRATION DUE
ORANGE-BLACK	1-20GHz	SMC-12A	C-S	637367	00761	29-JUL-2004

Unless otherwise noted the calibration interval is one year. All equipment is calibrated using standards traceable to NIST or other nationally recognized calibration standard.



Radiated Emissions Measurements

LIMIT

Average: $500\mu\text{V/m} = 54\text{dB}\mu\text{V/m}$ @ 3m [15.109(a)]

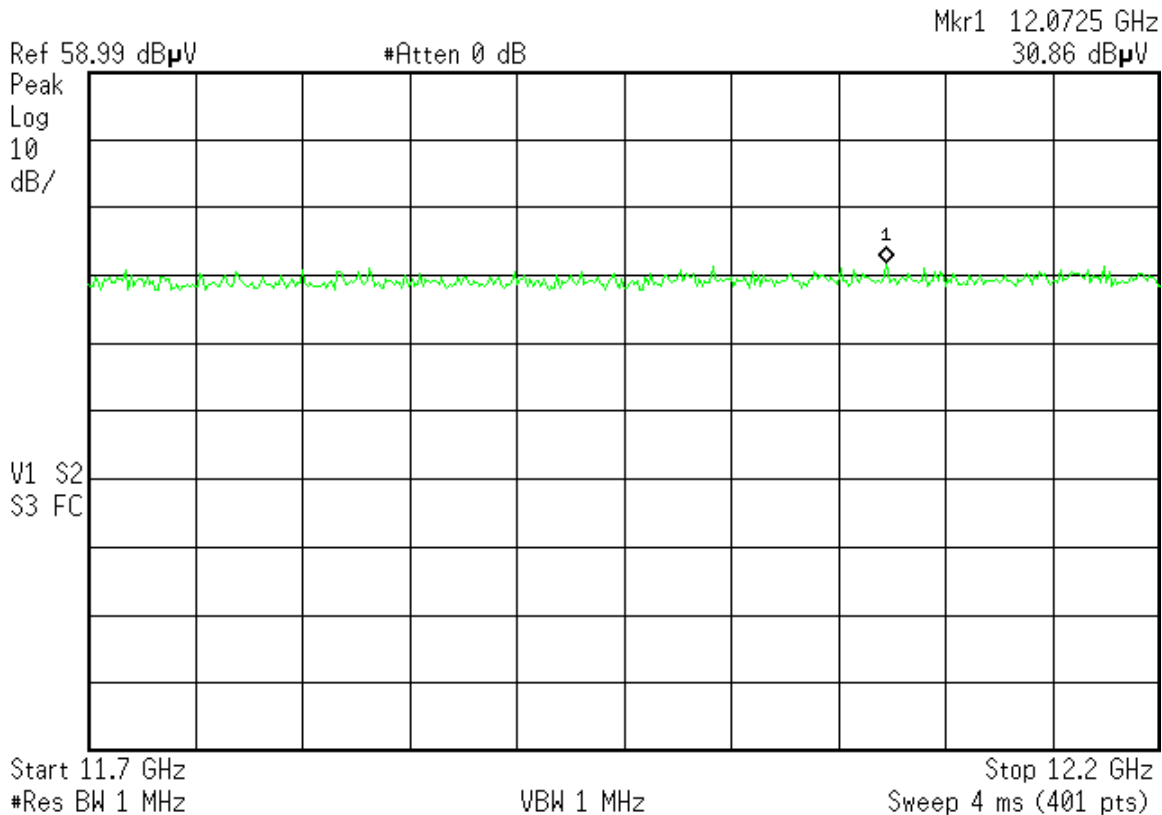
Note: If peak measurements meet the Average limit, then Average measurements are not required.

MEASUREMENTS

Radiated Emissions Table							Curtis-Straus LLC		
Date: 16-Jun-04		Company: Escort			Work Order: E0489				
Engineer: Evan Gould		EUT Desc: Road Tech 75							
Frequency Range: 11.7-12.2GHz				Measurement Distance: 1 m					
Notes:									
Antenna Polarization (H / V)	Frequency (MHz)	Reading (dB μV)	Preamp Factor (dB)	Antenna Factor (dB/m)	Cable Factor (dB)	Adjusted Reading (dB $\mu\text{V/m}$)	47 CFR 15.109(h)		
							Limit (dB $\mu\text{V/m}$)	Margin (dB)	Result (Pass/Fail)
noise floor	12072.0	30.9	14.8	40.4	5.0	61.5	63.5	-2.0	Pass
Table Result:		Pass		by		-2.0 dB		Worst Freq: 12072.0 MHz	
Test Site: "F"		Pre-Amp: White		Cable: 2 RG142LL		Analyzer: Orange		Antenna: Orange Horn	

ANALYZER PLOT

Agilent 15:08:18 Jun 16, 2004



Terms And Conditions

Paragraph 1. SERVICES. LABORATORY will:

- 1.1 Use the degree of care and skill ordinarily exercised by and consistent with the standards of the profession.
- 1.2 Perform all technical services in substantial accordance with the generally accepted laboratory principles and practices.
- 1.3 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:

- 2.1 Provide LABORATORY with all plans, schematics, specifications, addenda, change orders, drawings and other information for the proper performance of technical services.
- 2.2 Designate a person to act as CLIENT's representative with respect to LABORATORY's services to be performed on behalf of the CLIENT; 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.
- 2.3 Designate a person who is authorized to receive copies of LABORATORY's reports.
- 2.4 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.

Paragraph 3. GENERAL CONDITIONS:

- 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.
- 3.2 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.
- 3.3 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.
- 3.4 THE ONLY WARRANTY MADE BY LABORATORY 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 HEREUNDER.
- 3.5 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.
- 3.6 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.
- 3.7 The LABORATORY agrees to exercise ordinary care in receiving, preserving and shipping (F.O.B. Littleton, MA) any sample 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.
- 3.8 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.
- 3.9 The CLIENT recognizes that generally accepted error variances apply and agrees to consider such error variances in its use of test data.
- 3.10 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:

- 4.1 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.
- 4.2 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.
- 4.3 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:

- 5.1 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.

- 5.2 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.
- 5.3 Amounts overdue from CLIENT to LABORATORY shall be charged interest at a rate of 1½% per month.

Paragraph 6. ISO/IEC GUIDE 17025 ADDITIONS:

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

A2LA Accreditation

<p style="text-align: center;"><u>SCOPE OF ACCREDITATION TO ISO/IEC 17025:1999</u></p> <p style="text-align: center;">CURTIS-STRAUS¹ 527 Great Road Littleton, MA 01460 Barry Quinlan Phone: 978-486-8880</p> <p style="text-align: center;">ELECTRICAL</p> <p>Valid until: July 31, 2005 Certificate Number: 1627-01</p> <p>In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following <u>Electromagnetic Compatibility (EMC), Telecommunications, and Product Safety tests:</u></p> <p>Electromagnetic Compatibility (EMC) Radiated emissions testing (electric and magnetic fields); Conducted emissions testing (voltage and current); Electrostatic Discharge testing; Electrical Fast Transient testing; Radiated Immunity testing; Conducted Immunity testing; Lightning Immunity testing; Voltage Dips, Interrupts and Voltage Variations testing; Magnetic Immunity testing; RF Power measurements; Frequency Stability measurements; Longitudinal Induction measurements; Harmonic emissions testing; Light flicker testing; Low frequency disturbance voltage testing; Disturbance Power measurements</p> <table border="0"> <thead> <tr> <th style="text-align: left;">EMC Standards</th> <th style="text-align: left;">Title</th> </tr> </thead> <tbody> <tr> <td><i>Emissions</i> CISPR 22 1997 with amendments 1 and 2</td> <td>Limits and methods of measurement of radio disturbance characteristics of information technology equipment.</td> </tr> <tr> <td>CNS13438 1994</td> <td>Limits and methods of measurement of radio interference characteristics of information technology equipment.</td> </tr> <tr> <td>EN55022:1994 and 1998</td> <td>Limits and methods of measurement of radio disturbance characteristics of information technology equipment.</td> </tr> <tr> <td>SABS CISPR 22:1997</td> <td>Information technology equipment – Radio disturbance characteristics – Limits and methods of measurement</td> </tr> <tr> <td>Canada ICES-003 1997 AS/NZS 3548 1995</td> <td>Digital apparatus Australian/New Zealand Standard Limits and methods of measurement of radio disturbance characteristics of information technology equipment</td> </tr> <tr> <td>CISPR 11 1990, 1997, 1999</td> <td>Limits and methods of measurement of electromagnetic disturbance characteristics of industrial, scientific and medical (ISM) radio-frequency equipment.</td> </tr> </tbody> </table> <p>¹ Note: This accreditation covers testing performed at the laboratory listed above and the satellite facility located at 168 Ayer Rd, Littleton, MA 01460</p> <p>(A2LA Cert. 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<p>ETS EN 300 386-2 1997, 1998, ETS EN 300 386 2000 v1.2.1, 2001 v1.3.1</p> <p>ETS 300 132-1 1996</p> <p>ETS 300 132-2 1996</p> <p>ETR 283 1997</p> <p><i>EU radio standards</i> (ETS) EN 300 385 v1.2.1: 1998, 1999</p> <p>EN 300 330 v1.2.1: 1998, 1999</p> <p>ETS 300 328 1996</p> <p>ETS EN 300 440 v1.2.1 1999</p> <p>EN 301 893:2002 v1.2.1</p> <p>ETS 300 836-1:1998</p> <p>EN301 489-17:2002 v1.2.1</p> <p>(A2LA Cert. No. 1627-01) 10/31/03</p> <p style="text-align: right;">Page 5 of 11</p>	<p>Electromagnetic compatibility and radio spectrum matters (ERM); Telecommunication network equipment; Electromagnetic compatibility (EMC) requirements; Part 2: Product family standard.</p> <p>Equipment Engineering (EE); Power supply interface at the input to telecommunications equipment; Part 1: Operated by 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 direct current (dc)</p> <p>Equipment Engineering (EE); Transient voltages at Interface A on telecommunications direct current (DC) power distributions.</p> <p>Electromagnetic compatibility and Radio spectrum matters (ERM); Electromagnetic Compatibility (EMC) standard for fixed radio links and ancillary equipment (ETS) 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 MHz and inductive loop systems in the frequency range 9 kHz to 30 MHz 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 Electromagnetic compatibility and Radio spectrum matters (ERM); Short range devices; Technical characteristics and test methods for radio equipment to be used in the 1 Ghz to 40 Ghz frequency range Broadband Radio Access Networks (BRAN); 5 GHz (draft) high performance RLAN; Harmonized EN covering Essential 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 testing specification; Part 1: Radio Type approval and Radio Frequency (RF) conformance test specification Electromagnetic compatibility and Radio spectrum Matters (ERM); Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 17: Specific conditions for 2,4 GHz wideband transmission systems and 5 GHz high performance RLAN equipment</p> <p>EN 300 328-2:2001 v1.2.1 Electromagnetic compatibility and Radio spectrum Matters (ERM); 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 requirements under article 3.2 of the R&TTE Directive</p> <p>EN 301 489-1:2002 Electromagnetic compatibility and Radio spectrum Matters (ERM); Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 1: Common technical requirements Switches for household and similar fixed electrical installations -- Part 2-1: Particular requirements -- Electronic switches</p> <p>EN 60669-2-1:2002 Switches for household and similar fixed electrical installations -- Part 2-1: Particular requirements -- Electronic switches</p> <p><i>Canada Radio Standards</i> Canadian GL-36 1995 Industry Canada -- technical requirements for low power Devices in the 2400 -- 2483.5 MHz band. Canadian RSS-119 1999, 2000 Issue 6 Industry Canada -- Land mobile and fixed radio Transmitters and receivers, 27,41 to 960,0 MHz Canadian RSS-134 1996 & 2000, Issue 1 Rev 1 Industry Canada -- 900 MHz narrowband personal communications services Canadian RSS-210 2000 Issue 3, Industry Canada -- Low power license-exempt radio 2001 Issue 5 communication devices RFS29 1998 Specification for Restricted Radiation Radio Apparatus (New Zealand)</p> <p><i>FCC Standards</i> 47 CFR FCC low power transmitters operating on frequencies below 1 GHz, emergency alert systems, unintentional radiators and ISM devices. Scope A1 47 CFR FCC low power transmitters operating on frequencies above 1 GHz, with the exception of spread spectrum devices. Scope A2 47 CFR FCC Unlicensed Personal Scope A3 Communications System (PCS) devices 47 CFR FCC Unlicensed National Scope A4 Information Infrastructure devices and low power transmitters using spread spectrum techniques. 47 CFR FCC Personal mobile Scope B1 Radio Services in the following FCC Rule Parts 22, 24, 25, 27, 47 CFR FCC General Mobile Radio B2 Scope Services in the following FCC Rule Parts 22, 74, 90, 95, 97, 47 CFR FCC Maritime and Aviation B3 Scope RadioServices in 47 CFR Parts 80 and 87 47 CFR FCC Microwave Radio Services B4 Scope in 47 CFR Parts 21, 74 and 101.</p> <p>(A2LA Cert. No. 1627-01) 10/31/03</p> <p style="text-align: right;">Page 6 of 11</p>
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<p><u>Product Safety Standards</u></p>	<p><u>Title</u></p>	<p>EN 60825-1 1994 IEC 60825-1 2001 IEC 60825-2 2000-5 systems IEC 60825-4 1997-11 IEC 60335-1 1995 (Including AM2 – 1997 & AM 12 – 1997) EN 60335-1 2001 UL 60335-1 1998 CAN/CSA E335-1 1994</p>	<p>Safety of laser products – Part 1: equipment Classification, requirements and user's guide Safety of laser products – Part 2: Safety of optical communication systems Safety of laser products – Part 4: Laser guards Safety of household and similar electrical appliances Part 1: General requirements</p>
<p>Specific Product Safety Standards IEC 950 1991</p>	<p>Safety of information technology equipment including Includes Amendments 1, 2, 3, and 4 electrical business equipment.</p>	<p>EN 60825-1 1994 IEC 60825-1 2001 IEC 60825-2 2000-5 systems IEC 60825-4 1997-11 IEC 60335-1 1995 (Including AM2 – 1997 & AM 12 – 1997) EN 60335-1 2001 UL 60335-1 1998 CAN/CSA E335-1 1994</p>	<p>Safety of household and similar electrical appliances Part 1: General requirements</p>
<p>UL 1950 1998</p>	<p>Safety of information technology equipment, including lectrical business equipment.</p>	<p>EN 60825-1 1994 IEC 60825-1 2001 IEC 60825-2 2000-5 systems IEC 60825-4 1997-11 IEC 60335-1 1995 (Including AM2 – 1997 & AM 12 – 1997) EN 60335-1 2001 UL 60335-1 1998 CAN/CSA E335-1 1994</p>	<p>Safety of household and similar electrical appliances Part 1: General requirements</p>
<p>CSA C22.2 No.950-95 UL 60950 2000</p>	<p>Safety of Information Technology Equipment (UL 1950) Safety of information technology equipment</p>	<p>EN 60825-1 1994 IEC 60825-1 2001 IEC 60825-2 2000-5 systems IEC 60825-4 1997-11 IEC 60335-1 1995 (Including AM2 – 1997 & AM 12 – 1997) EN 60335-1 2001 UL 60335-1 1998 CAN/CSA E335-1 1994</p>	<p>Safety of household and similar electrical appliances Part 1: General requirements</p>
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<p>UL 61010A-1 : 2002</p>	<p>Electrical equipment for laboratory use; part 1: General requirements</p>	<p>EN 60825-1 1994 IEC 60825-1 2001 IEC 60825-2 2000-5 systems IEC 60825-4 1997-11 IEC 60335-1 1995 (Including AM2 – 1997 & AM 12 – 1997) EN 60335-1 2001 UL 60335-1 1998 CAN/CSA E335-1 1994</p>	<p>Safety of household and similar electrical appliances Part 1: General requirements</p>
<p>EN 61010-1 : 2001</p>	<p>Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 1: General requirements</p>	<p>EN 60825-1 1994 IEC 60825-1 2001 IEC 60825-2 2000-5 systems IEC 60825-4 1997-11 IEC 60335-1 1995 (Including AM2 – 1997 & AM 12 – 1997) EN 60335-1 2001 UL 60335-1 1998 CAN/CSA E335-1 1994</p>	<p>Safety of household and similar electrical appliances Part 1: General requirements</p>
<p>AS/NZS 60950 : 2000</p>	<p>Safety information technology equipment</p>	<p>EN 60825-1 1994 IEC 60825-1 2001 IEC 60825-2 2000-5 systems IEC 60825-4 1997-11 IEC 60335-1 1995 (Including AM2 – 1997 & AM 12 – 1997) EN 60335-1 2001 UL 60335-1 1998 CAN/CSA E335-1 1994</p>	<p>Safety of household and similar electrical appliances Part 1: General requirements</p>
<p>Environmental²</p>	<p><u>Title</u></p>	<p>EN 60825-1 1994 IEC 60825-1 2001 IEC 60825-2 2000-5 systems IEC 60825-4 1997-11 IEC 60335-1 1995 (Including AM2 – 1997 & AM 12 – 1997) EN 60335-1 2001 UL 60335-1 1998 CAN/CSA E335-1 1994</p>	<p>Safety of household and similar electrical appliances Part 1: General requirements</p>
<p><u>Environmental Standards</u> GR-63-CORE ETS 300 019 (vibration up to 1000Hz)</p>	<p>NEBS Requirements: Physical Protection Environmental conditions and environmental tests For telecommunications equipment</p>	<p>EN 60825-1 1994 IEC 60825-1 2001 IEC 60825-2 2000-5 systems IEC 60825-4 1997-11 IEC 60335-1 1995 (Including AM2 – 1997 & AM 12 – 1997) EN 60335-1 2001 UL 60335-1 1998 CAN/CSA E335-1 1994</p>	<p>Safety of household and similar electrical appliances Part 1: General requirements</p>
<p>² Environmental testing is performed at the satellite facility located at 168 Ayer Rd, Littleton, MA 01460</p>	<p>Page 11 of 11</p>	<p>(A2LA Cert. No. 1627-01) 10/31/03</p>	<p>Page 10 of 11</p>

