

# Schedule of Accreditation

issued by

## United Kingdom Accreditation Service

21 - 47 High Street, Feltham, Middlesex, TW13 4UN, UK

 <p><b>0029</b></p> <p>Accredited to <b>ISO/IEC 17025:2005</b></p>	<b>Intertek Testing &amp; Certification Ltd</b>	
	<b>Issue No: 052    Issue date: 30 November 2011</b>	
	<b>Intertek House</b> <b>Cleeve Road</b> <b>Leatherhead</b> <b>Surrey</b> <b>KT22 7SB</b>	<b>Contact: Mr B McGill</b> <b>Tel: +44 (0)1372 370900</b> <b>Fax: +44 (0)1372 370999</b> <b>E-Mail: bruce.mcgill@intertek.com</b> <b>Website: www.uk.intertek-etlsemko.com</b>
<b>Testing performed by the Organisation at the locations specified below</b>		

### Locations covered by the organisation and their relevant activities

#### Laboratory locations:

Location details	Activity	Location code
<b>Address</b> Intertek ETL Semko Intertek House Cleeve Road Leatherhead Surrey KT22 7SB	<b>Local contact</b> Mr B McGill  Tel: +44 (0)1372 370900 Fax: +44 (0)1372 370999 Email: bruce.mcgill@intertek.com	Sections 1 to 3, 5 to 12, 14 15 and 19 - 21 of Schedule  CR
<b>Address</b> Intertek ETL Semko Unit D Imperial Park Randalls Way Leatherhead Surrey KT22 7TS	<b>Local contact</b> Mr D Griffin  Tel: +44 (0)1372 370900 Fax: +44 (0)1372 370999 Email: dan.griffin@intertek.com	EMC Testing, Section 4, and 13 of Schedule  IP
<b>Address</b> Intertek ETL Semko Research & Performance Testing Centre Davy Avenue Knowhill Milton Keynes MK5 8NL	<b>Local contact</b> Mr B McGill  Tel: +44 (0)1908 857777 Fax: +44 (0)1908 857830 Email: bruce.mcgill@intertek.com	Sections 7, 9, 16, 17 and 20 of Schedule  MK
<b>Address</b> Intertek ETL Semko Deeside Lane Chester CH1 6DD	<b>Local contact</b> Mr P Rawlinson  Tel: +44 (0) 1244 882590 Fax: +44 (0)1244 882599 Email: peter.rawlinson@intertek.com	Sections 2 and 20  CH



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**Site activities performed away from the locations listed above:**

Location details	Activity	Location code
Any	EMC Testing, Section 20 of Schedule	S



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DETAIL OF ACCREDITATION

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
<b>Index</b>			
<b>Section</b>	<b>Product</b>	<b>Pages</b>	
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<b>Index</b>			
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<u>Section 16</u>	Household And Similar Electrical Appliances - Performance Testing (Milton Keynes)	65 - 72	
<u>Section 17</u>	Acoustics Testing	73 - 74	
<u>Section 18</u>	EMC Site Testing	75 - 76	
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<u>Section 21</u>	Fire Detection & Fire Alarm Systems:	81 - 82	

In sections 2, 7, 8, 9, 12 and 14 where IEC, EN or BS EN standards have exact equivalents in BS EN or EN Standards, these BS EN or EN standards are also included in the accreditation.

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SECTION 1: CONTROLS  Thermal Links	<u>Electrical Products Tests</u>  Electrical safety	EN 60691:2003, Amd A1 IEC 60691:2002, Amd 1 Excluding: Clause 10.8 Annex C Annex D Annex E Annex F BS EN 60691:1996, Amd 1 EN 60691:1995, Amd A2 IEC 60691:1993, Amds 1 & 2	CR
Automatic controls for household and similar use  General requirements	Electrical safety	EN 60730-1:2000, Amds A1, A2 & A12 to A18 IEC 60730-1:1999 (withdrawn) Excluding: Annex D Annex H, 6.18 Software Class B and C Annex P Annex Q BS EN 60730-1:1995, Amds 1 to 5 EN 60730-1:1995, Amd s A1, A2, A11, A12, A14 to A17 Excluding: Annex D Annex H, 6.18 Software class B and C	CR
Electrical controls for electrical household appliances	Electrical safety	BS EN 60730-2-1:1997 EN 60730-2-1:1997 IEC 60730-2-1:1989	CR



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SECTION 1: (cont'd)  Thermal motor protectors	<u>Electrical Products Tests</u> (cont'd)  Electrical safety	EN 60730-2-2:2002, Amds A1 and A11 IEC 60730-2-2:2001, Amd 1 Excluding: Annex AA Clause 17.101, Short-circuit test BS EN 60730-2-2:1992, Amds 1 to 3 EN 60730-2-2:1991, Amds A1, A2 & A11 IEC 60730-2-2:1990, Amds 1 & 2 Excluding: Annex AA Clause 17.21.5, Short-circuit test	CR
Thermal Protectors for ballasts	Electrical safety	BS EN 60730-2-3:1992, Amd 1 EN 60730-2-3:1992, Amd A1 IEC 60730-2-3:1990, Amd 1 Excluding: Clause 17.4, Short-circuit test	CR
Thermal motor protectors for motor compressors	Electrical safety	BS EN 60730-2-4:1993, Amds 1 & 2 EN 60730-2-4:1993, Amds A1 & A2 IEC 60730-2-4:1990, Amds 1 & 2 Excluding: Clause 17.1, Short-circuit test	CR
Pressure sensing controls	Electrical safety	BS EN 60730-2-6:1995, Amds 1 & 2 EN 60730-2-6:1995, Amds A1 & A2 IEC 60730-2-6:1991, Amds 1 & 2	CR
Timers and time switches	Electrical safety	BS EN 60730-2-7:1992, Amds 1 to 5 EN 60730-2-7:1991, Amds A1 & A11 to A14 IEC 60730-2-7:1990, Amd 1	CR



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SECTION 1: (cont'd)  Water valves	<u>Electrical Products Tests</u> (cont'd)  Electrical safety	BS EN 60730-2-8:2002, Amd 1 EN 60730-2-8:2002, Amd A1 IEC 60730-2-8:2000, Amd 1 Excluding: Clause 18.101.3, Anti water hammer Clause 18.103, Water quality Annex BB, Anti water hammer Annex DD, Water quality Annex EE, Anti water hammer BS EN 60730-2-8:1995, Amd 1 EN 60730-2-8:1995, Amds A11 & A12 IEC 60730-2-8:1992, Amds 1 & 2 Excluding: Clause 18.101.3, Anti water hammer Clause 18.103, Water quality Annex BB, Anti water hammer Annex DD, Water quality	CR
Temperature sensing controls	Electrical safety	IEC 60730-2-9:2008 EN 60730-2-9:2002, Amds A1 A2, A11 & A12 IEC 60730-2-9:2000, Amds 1 and 2 (withdrawn) Excluding: Clause 11.4.13.102, Type 2.K impact test BS EN 60730-2-9:1995, Amds 1 to 4 EN 60730-2-9:1995, Amds A1, A2, A11 and A12	CR
Motor starting relays	Electrical safety	BS EN 60730-2-10:1995, Amds 1 & 2 EN 60730-2-10:1995, Amds A1 & A2 IEC 60730-2-10:1991, Amds 1 & 2	CR



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SECTION 1: (cont'd)  Energy regulators	<u>Electrical Products Tests</u> (cont'd)  Electrical safety	EN 60730-2-11:2008 IEC 60730-2-11:2006 EN 60730-2-11:1993, Amds A1 & A2 (withdrawn) IEC 60730-2-11:1993, Amds 1 & 2 (withdrawn)	CR
Electrically operated door locks	Electrical safety	BS EN 60730-2-12:1994, Amd 1 EN 60730-2-12:1993, Amd A1 IEC 60730-2-12:1993, Amd 1	CR
Electric actuators	Electrical safety	BS EN 60730-2-14:1998 EN 60730-2-14:1997 IEC 60730-2-14:1995	CR
Switches for appliances  General requirements	Electrical safety          Electrical safety	BS EN 61058-1:2002, Amd A2 EN 61058-1:2002 IEC 61058-1:2000, Amd 1 Excluding: Clause 20.4, Type A and B coatings Clause 23.3, Short-circuit test Annex R, Routine tests BS EN 61058:1992, Amd 1 EN 61058:1992, Amd A1 IEC 61058-1:1996 IEC 61058-1:1990, Amds 1 & 2  CEE 24:1962 CEE 24:Mod 4:1981	CR          CR
Electrical equipment of industrial machines  General requirements	Electrical safety	EN 60204:Part 1:1985 BS 2771:Part 1:1986	CR



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<p>SECTION 2: ELECTRICAL APPARATUS, SYSTEMS, COMPONENTS, ACCESSORIES AND ENCLOSURES FOR USE IN POTENTIALLY EXPLOSIVE ATMOSPHERES</p> <p>Electrical Apparatus, Systems, Components, Accessories and Enclosures for use in Potentially Explosive Atmospheres</p>	<u>Electrical Products Tests</u>		
	Tests for the General Requirements for Electrical Apparatus for Potentially Explosive Atmospheres or hazardous (Classified) Locations	BS EN 50014:1998, Amd A1 & A2 (withdrawn)  Excluding: Resistance to light	CR
	Tests for Apparatus in Flameproof Enclosures (Ex d)	BS EN 50018:2000, Amd 1 (withdrawn)	CR
	Tests for Increased Safety Apparatus (Ex e)	BS EN 50019:2000, (withdrawn)  Excluding: Thermal performance testing of electrical machines at frequencies other than 50 Hz, or with rated supply voltages above 660V or with rated powers above 15 kW Sulphur dioxide test for bi-pin lamp caps/lampholders Vibration test on luminaires with bi-pin caps/lampholders	CR
	Tests for Intrinsically Safe Apparatus, Associated Apparatus and Systems (Ex i)	BS EN 50020:2002	CR



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SECTION 2: (cont'd)  Electrical Apparatus, Systems, Components, Accessories and Enclosures for use in Potentially Explosive Atmospheres (cont'd)	<u>Electrical Products Tests</u> (cont'd)		
	Tests for Electrical Apparatus for Explosive Atmospheres with Type of Protection n (Ex n) + (Ex N)	BS EN 50021:1999, Amd 1 (obsolescent) Excluding: Thermal performance testing of electrical machines at frequencies other than 50 Hz, or with rated supply voltages above 660V or with rated powers above 15 kW	CR
	Tests for Encapsulated Apparatus (Ex m)	BS EN 50028:1987, Amd 1 (withdrawn)	CR
	Tests for Oil Immersed Apparatus (Ex o)	BS EN 50015:1998	CR
	Tests for Pressurised and Purged Apparatus (Ex p)	BS EN 50016:1996 (withdrawn)	CR
	Tests for Sand Filled Apparatus (Ex q)	BS EN 50017:1998	CR
	Tests for Apparatus having special Protection (Ex s)	SFA 3009:1985	CR



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SECTION 2: (cont'd)  Electrical apparatus for explosive gas atmospheres  General requirements	<u>Electrical Products Tests</u> (cont'd)  Construction, safety and marking	BS EN 60079-0:2006 IEC 60079-0:2006 BS EN 60079-0:2004 IEC 60079-0:2004 Excluding: Resistance to light Tests of Ignition by electrostatic Charges Hands and Cap Lamps Chemical Resistance of materials Oil and Flame Resistance	CR, CH
Tests for Apparatus in Flameproof Enclosures (Exd)	Construction, safety and marking	BS EN 60079-1:2007 IEC 60079-1:2007  Excluding: Ageing test for elastomeric sealing rings for cable entries	CR, CH
Tests for Pressurised and Purged Apparatus (Exp)	Construction, safety and marking	BS EN 60079-2:2007 IEC 60079-2:2007	CR, CH
Method of test for Ignition Temperature	Construction and safety	IEC 60079-4:1975, Amd 1	CR
Tests for Sand Filled Apparatus (Exq)	Construction, safety and marking	IEC 60079-5:2007	CR
Tests for Oil Immersed Apparatus (Ex o)	Construction, safety and marking	IEC 60079-6:2007	CR



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
SECTION 2: (cont'd)  Tests for Increased Safety Apparatus (Ex e)	<u>Electrical Products Tests</u> (cont'd)  Construction, safety and marking	BS EN 60079-7:2007 IEC 60079-7:2006 Excluding: Thermal performance testing of electrical machines at frequencies other than 50 Hz, or with rated supply voltages above 660V or with rated powers above 15 Kw Sulphur dioxide test for bi-pin lamp caps/lampholders Vibration test on luminaires with bi-pin caps/lampholders Tests for high-voltage machines	CR, CH
Tests for Intrinsically Safe Apparatus, Associated Apparatus and Systems (Ex i)	Construction, safety and marking	BS EN 60079-11:2007 IEC 60079-11:2006	CR, CH
Tests for Electrical Apparatus for Explosive Atmospheres with Type of Protection n (Ex n) + (Ex N)	Construction, safety and marking	BS EN 60079-15:2005 IEC 60079-15:2005  Excluding: Thermal performance testing of electrical machines at frequencies other than 50 Hz, or with rated supply voltages above 660 V or with rated powers above 15 kW	CR, CH
Tests for Encapsulated Apparatus (Ex m)	Construction, safety and marking	BS EN 60079-18:2004 IEC 60079-18:2004	CR, CH
Special requirements for construction, test and marking of electrical apparatus of equipment group II, Category 1G	Safety tests	BS EN 60079-26:2004 IEC 60079-26:2004 BS EN 50284:1999, (withdrawn)	CR, CH



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SECTION 2: (cont'd)  Tests for Fieldbus intrinsically safe concept (FISCO)	<u>Electrical Products Tests</u> (cont'd)  Construction, safety and marking	BS EN 60079-27:2008 IEC 60079-27:2008	CR, CH
Electrical Apparatus Protected by Enclosures - Construction and Testing	Construction, safety and marking	BS EN 50281-1-1:1999,Amds A1 and A2 Excluding: Clause 6.10 Radiating equipment IEC 61241-1-1:1999	CR
Tests for Electrical Apparatus with Protection by Enclosure for use in the presence of Combustible Dusts General requirements	Construction, safety and marking	BS EN 61241-0:2006 IEC 61241-0:2004	CR, CH
Tests for Electrical Apparatus with Protection by Enclosure for use in the presence of Combustible Dusts Protection by enclosure "tD"	Construction, safety and marking	BS EN 61241-1:2004 IEC 61241-1:2004	CR, CH
Electrical apparatus for use in the presence of combustible dust: Type of protection 'pD'	Construction, safety and marking	BS EN 61241-4:2006 IEC 61241-4:2001	CR, CH
Protection by intrinsic safety "iD"	Construction, safety and marking	BS EN 61241-11:2006 IEC 61241-11:2005	CR
Protection by encapsulation "mD"	Construction, safety and marking	BS EN 61241-18:2004 IEC 61241-18:2004	CR, CH



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
SECTION 2: (cont'd)  Tests for apparatus of equipment Group I, Category M1	<u>Electrical Products Tests</u> (cont'd)  Construction, safety and marking	BS EN 50303:2000	CR
Electrical apparatus for potentially explosive atmospheres. Group I. Intrinsically safe systems.	Construction, safety and marking	BS EN 50394:2004	CR
Surface heating devices	Safety tests	BS EN 62086-1:2005 IEC 62086-1:2001	CR
Basic Methods and Requirements	Construction, safety and marking	BS EN 13463-1:2001	CR
Protection by flow restricting enclosure "fr"	Construction, safety and marking	BS EN 13463-2:2004	CR
Protection by flameproof enclosure 'd'	Construction, safety and marking	BS EN 13463-3:2005	CR
Protection by flameproof enclosure 'c'	Construction, safety and marking	BS EN 13463-5:2003	CR
Protection by control of ignition source "b"	Construction, safety and marking	BS EN 13463-6:2005	CR
Protection by liquid immersion "k"	Construction, safety and marking	BS EN 13463-8:2003	CR



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SECTION 2: (cont'd)  Explosive Atmosphere Tests	<u>Electrical Products Tests</u> (cont'd)  Safety tests	MIL STD 810B, Method 511:1967 MIL STD 810C Procedures I and II: 10 March 1975 Method 511.1:10 March 1975 MIL STD 810D, Method 511.2:1983 MIL STD 810E Method 511.3:1989 MIL STD 810F Method 511.4:2002 MIL STD 810F Method 511.4:2000 PANAVIA SP-P-90033 Para 6.10.2 Issue 7:Explosive Atmosphere Test Method, 19 April 1974 RTCA/DO-160C Section 9 only RTCA-DO-160D Section 4.6.2 only Section 9 only EFJ-J-EFA-000-0083 Issue A, Sept 1988	CR
Reciprocating internal combustion engines	Safety Tests	BS EN 1834-1:2000 Excluding: Clause 6.3, Installation and auxiliary fittings Clause 6.4, Spark arrestor test	CR
Equipment in Aircraft	Explosion - Proofness	BS 3G100:Part 2:Section 3: Sub-section 3.5:1972	CR
Mechanical Cable Glands	<u>Dimensional Tests</u>  Tests to demonstrate compliance with Constructional Requirements	BS 6121:Part 1:1989, (withdrawn) Excluding: Seal Compression, Hardness and Ageing (eg, BS 6121:Part 1 Clauses 8.6.2, 8.6.3 and 8.6.4)	CR



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SECTION 2: (cont'd)  Flame Arresters for General Use	<u>Non-Electrical Product Tests</u>  <u>Performance Tests</u>  Tests to classify arresters in terms of their performance	BS 7244:1990 Excluding: Clause 3.4.2, Pressure Drop Test BS EN 12874:2001 EN 12874:2001	CR
All types of equipment capable of generating heat whilst operating	<u>Thermal Testing</u>  Test to determine temperature rise	Direct contact measurement using fine wire thermocouples and similar devices, typically as specified in Test Procedures TP/27/5 and TP/27/6	CR
Non-Electrical Apparatus, Systems, Components, Accessories and Enclosures for use in Potentially Explosive Atmospheres	Tests similar to those indicated in Section 3 above for electrical equipment	Tests or adaptations thereof, of those given in Section 3 above	CR
In the above section 2 where IEC or BS EN standards have exact equivalents in EN Standards, these EN standards are also included in the accreditation.			



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<p>SECTION 3: ELECTRICAL EQUIPMENT FOR MEASUREMENT, CONTROL AND LABORATORY USE</p> <p>General requirements and equipment for which there is no Part 2 standard</p>	<p><u>Electrical Product Tests</u></p> <p>Electrical safety AC test voltages up to 15kV DC test voltages up to 40kV Impulse withstand voltage up to 6kV</p>	<p>BS EN 61010-1:2001 EN 61010-1:2001 IEC 61010-1:2001 Excluding: Clause 12.6, Laser sources Clause 13.2.3, Implosion of cathode ray tubes Clause 16.2, Measurement categories iii and iv BS EN 61010-1:1993, Amd 1 EN 61010-1:1993 IEC 61010-1:1990, Amds 1 and 2 IEC 60348:1978 BS 4743:1979 HD 401 S1</p>	CR
Laboratory equipment for the heating of materials	Electrical safety	BS EN 61010-2-010:1995, Amds 1 and 2 EN 61010-2-010:1994 IEC 61010-2-010:1992	CR
Hand held probe assemblies for electrical measurement and test	Electrical safety	BS EN 61010-2-031:1995 EN 61010-2-031:1994 IEC 61010-2-031:1993	CR
Hand held current clamps for electrical measurement and test	Electrical safety	BS EN 61010-2-032:1995	CR
Automatic and semi-automatic laboratory equipment for analysis and other purposes	Electrical safety	BS EN 61010-2-081:2002, Amd 1 IEC 61010-2-081:2002, amd 1	CR
In-vitro diagnostic (IVD) medical equipment	Electrical safety	BS EN 61010-2-101: 2002 IEC 61010-2-101: 2002	



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SECTION 4: EMC TESTING	<u>EMC Testing</u>		
Audio Equipment Circuit Breakers and Switches Compressors Computers and Peripherals Construction: Plant Construction: Products Domestic Appliances Electrical/Electronic Components Electrical/Electronic Connectors Electrical/Electronic Products Electromechanical Devices Engine Components Fans Fire Detection Equipment Generators, Electrical Heating and Cooking Appliances	4.1 <u>Commercial EMC Testing</u>  4.1.1 Conducted Emissions  Conducted emissions: 9 kHz to 30 MHz  Continuous emissions  Discontinuous emissions	EN 55011:2007, Amd A1 & A2 EN 55011:1998, Amd A1 & A2 EN 55013:1990 Excluding: TV EN 55014-1:2006 EN 55014-1:2000, Amds A1 & A2 EN 55014-1:1993, Amds A1 & A2 EN 55014:1987 EN 55015:1996 < 100 Hz EN 55015:1993 < 100 Hz	IP
Instruments: Indicating/ Recording IT Equipment Lamps: Electrical Lawnmowers Lifts: Electrical Luminaires Marine Equipment Medical Equipment Motors, Electrical Office Equipment, Electrical Optical and Photometric Equipment Plugs and Sockets: Electrical Power Supplies, Electrical Power Tools Printed Circuit Boards Process Control Equipment Radar Equipment Radio Equipment Satellites and Sub-Assemblies Security Devices and Alarms Smoke Detectors	4.1.2 Radiated Emissions:  Electric field:  30 MHz to 40 GHz  Magnetic field: 9 kHz to 30 MHz  Radiated Power: 30 MHz to 300 MHz	EN 55011:2007, Amd A1 & A2 EN 55011:1998, Amd A1 & A2 EN 55022:2006 EN 55022:2010 EN 55022:1998 Excluding: TTE Equipment Clause 5.2 Section 9.5 EN 55022:1994, Amds A1 & A2 EN 55022:1987 CISPR:Pub 11:1991 CISPR:Pub 11:1990 CISPR:Pub 13:1990 Excluding: TV CISPR:Pub 14:1993 CISPR:Pub 15:1993 CISPR:Pub 20:1990 Excluding: TV CISPR:Pub 22:1993 CISPR:Pub 22:1990 VDE 0871 6.78:1986 VDE 0871 3.87:1987 VDE 0871 3.87:1987 VDE 0871 3.87:1987 VDE 0872:Part 1:1983 VDE 0879:Part 1:1979	IP



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
SECTION 4: (cont'd)  Continued from Page 18  Switchboards: Electrical Telecom Equipment Transformers: Electrical Tools: Hand Tools: Machine Toys Video Equipment Radio Agency EMC Short Range Devices Private Mobile Radio and Ancillary Equipment On-site Paging Standard Radio Equipment CB Radio Wireless Microphones Wide Band Audio Links CTO (UK CTI)	<u>EMC Testing</u> (cont'd)		
	4.1.2 Radiated Emissions (cont'd)	VDE 0879:Part 3:1981 Vfg 243:1991 Vfg 1046:1984 AS/NZS 1044:1995, Amd A1 AS/NZS 1053:1999 AS/NZS 2064:1997, Amd A1 AS/NZS 3548:1995, Amds A1 & A2 AS/NZS 4051:1998 AS/NZS 4251.1:1999 AS/NZS 4251.2:1999	IP
	4.1.3 Electrostatic discharge up to 15 kV	EN 61000-4-2:2001 EN 61000-4-2:1995, Amds A1 & A2 IEC 61000-4-2:1995 IEC 60801-2:1991	IP
	4.1.4 Radiated E-Field Immunity 80 MHz to 2.7 GHz 50 V/M	EN 61000-4-3:2002, Amd 1 EN 61000-4-3:1996, Amds A1 & A2 ENV 50140:1994 ENV 50204:1996 IEC 60801-3:1984	IP
	4.1.5 Fast Burst Transients	EN 61000-4-4:2004 EN 61000-4-4:1995, Amd A1 IEC 61000-4-4:1995 IEC 60801-4:1988	IP
	4.1.6 Surge Immunity	EN 61000-4-5:2006 EN 61000-4-5:1995, Amd A1 IEC 61000-4-5:1995 ENV 50142:1994	IP
	4.1.7 Conducted RF Immunity  150 kHz to 80 MHz	EN 61000-4-6:2003 EN 61000-4-6:1996, Amd A1 IEC 61000-4-6:1996 ENV 50141:1994	IP



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SECTION 4: (cont'd)  As listed on Pages 18 and 19	<u>EMC Testing</u> (cont'd)		
	4.1.8 Magnetic Immunity	EN 61000-4-8:1993, Amd A1 IEC 61000-4-8:1993, Amd 1	IP
	4.1.9 Voltage dips and interrupts	EN 61000-4-11:2004 EN 61000-4-11:1996, Amd A1 IEC 61000-4-11:1994, Amd 1	IP
	4.1.10 Mains Harmonics	EN 61000-3-2:2006 EN 61000-3-2:2000	IP
	4.1.11 Voltage Flicker	EN 61000-3-3:2008 EN 61000-3-3:1995, Amd A1	IP
	4.1.12 Insertion Loss	CISPR 17:1981	IP
	4.2 <u>Commercial EMC Testing</u>  <u>Generic and product specific standards</u>  These standards are accredited to the extent that they call up the basic standards as detailed above	EN 54-4:1998 EN 50081-1:1992 EN 50081-2:1997 EN 50081-2:1992 EN 50082-1:1997 EN 50082-2:1995 EN 50121-4:2006 EN 50121-4:2000 EN 50130-4:1996, Amds A1 & A2 EN 50270:2006 EN 50293:2001 EN 55014-2:1997, Amd A1 EN 55024:1998, Amds A1 & A2 Excluding: Annex A, TTE Equipment EN 55103-1:1996 EN 55103-2:1996 EN 55104:1995 EN 60204-31:1998	IP



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SECTION 4: (cont'd)  As listed on Pages 18 and 19	4.2 <u>Commercial EMC Testing</u> (cont'd)  <u>Generic and product specific standards</u> (cont'd)  These standards are accredited to the extent that they call up the basic standards as detailed above (cont'd)	EN 60601-1-2:2007 EN 60601-1-2:1993 EN 61000-6-1:2007 EN 61000-6-1:2001 EN 61000-6-2:2005 EN 61000-6-2:2001 EN 61000-6-2:2005 EN 61000-6-3:2007 EN 61000-6-3:2001 EN 61000-6-4:2007 EN 61000-6-4:2001 EN 61204-3:2001 EN 61547:1995, Amd A1 EN 61326-1:2006 EN 61326-2-1:2006 EN 61326-2-2:2006 EN 61326-2-3:2006 EN 61326-2-4:2006 EN 61326-2-5:2006 EN 61326-1:1997, Amds A1 - A3 Excluding: Appendix F TRG 1068:1991 ETSI EN 301 489-1, V1.2.1 ETSI EN 301 489-1, V1.3.1 ETSI EN 301 489-1 V1.8.1 ETSI EN 301 489-3 V 1.3.1 ETSI EN 302 291-1 , V1.1.1 ETSI EN 302 291-2 , V1.1.1	IP
PMR		ETSI EN 301 489-5, V1.2.1 EN 300 279:1999 Excluding: Clause 9.5	IP
General		EN 300 339:1998 Excluding: Clause 9.7	IP



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
SECTION 4: (cont'd)  900/1800 GSM	4.2 <u>Commercial EMC Testing</u> (cont'd)	ETS EN 301 489-7, V1.1.1 ETS 300 342-1:1997 Excluding: Clause 9.5	IP
Wireless Microphones		ETSI EN 301 489-9, V1.1.1 ETSI EN 301 489-9, V1.2.1 ETS 300 445:1996, Amd 1 Excluding: Clause 9.6	IP
VSAT		ETSI EN 301 489-12, V1.1.1 ETS 300 673:1997	IP
Citizen Band		ETSI EN 301 489-13, V1.1.1 ETS 300 680-1:1997 Excluding: Clause 9.6 ETS 300 680-2:1997 Excluding: Clause 9.6	IP
Paging		ETSI EN 301 489-2, V1.2.1 ETS 300 682:1997	IP
SRD		ETSI EN 301 489-3, V1.2.1 ETSI EN 301 489-3, V1.3.1 ETS 300 683:1997 Excluding: Clause 9.6	IP
Analogue Cellular		ETSI EN 301 489-16, V1.1.1 prETS 300 717:1998 Excluding: Clause 9.5	IP



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
SECTION 4: (cont'd)  Wide Area Paging	<u>EMC Testing</u> (cont'd)	ETS 300 741:1998 Excluding: Clause 9.6	IP
Aerospace Components and Equipment Aerospace Materials Marine Equipment Medical Equipment Missile: Components Missiles: Guided Missiles: Unguided Power Supplies, Electrical Radar Equipment Radio Equipment Security Devices and Alarms Telecom Equipment Weapons and Sub-Assemblies	4.3 <u>Military and Aircraft EMC Testing</u>		
	4.3.1 Conducted Emissions:  20 Hz to 150 MHz  Time Domain to 10 ns  (Control, Signal and Power Lines)  (Exported Transients - Power Lines)	DEF STAN 59-41 (Issue 3, 4 & 5) DCE01, DCE02, DCE03 DEF STD 59/411 Part 3 DCE01, DCE02, DCE03 MIL STD 461 (A, B and C) CE01, CE03, CE06 MIL STD 461 (D and E) CE101, CE102 MIL STD 461 F CE101, CE102 SPE-J-000-E-1000: Issue 1:1991 CE-EFA-1, CE-EFA-2, CE-EFA-3 RTCA DO160 (A, B and C) Section 21, paragraph 21.3	IP
	4.3.2 Conducted Emissions:  10 Hz to 40 GHz  (Antenna terminal)	MIL STD 461 F CE106	IP
4.3.3 Radiated Emissions (E Field)  10 kHz - 18 GHz  (Installed Antenna Method)	DEF STAN 59-41 (Issue 3, 4 & 5) DRE01, DRE03 DEF STD 59/411 Part 3 DRE01 MIL STD 461 (A, B and C) RE02 MIL STD 461 (D and E) RE102 MIL STD 461 F RE102 SPE-J-000-E-1000: Issue 1:1991 RE-EFA-1 RTCA DO160 (A, B and C) Section 21, Paragraph 21.4	IP	



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SECTION 4: (cont'd)  As listed on Page 23	4.3 <u>Military and Aircraft EMC Testing</u> (cont'd)		
	4.3.4 Radiated Emissions  10 kHz - 40 GHz  (Antenna spurious and harmonic outputs)	MIL STD 461 F RE103	IP
	4.3.5 Radiated Emissions (H Field)  20 Hz - 250 kHz	DEF STAN 59-41 (Issue 3, 4 & 5) DRE02 DEF STD 59/411 Part 3 DRE02 MIL STD 461 (A, B and C) RE01 MIL STD 461 (D and E) RE101 MIL STD 461 F RE101	IP
	4.3.6 Conducted Susceptibility  20 Hz - 150 kHz  (Control, Signal and Power Lines)  (Audio Frequency Susceptibility - Power Lines)	DEF STAN 59-41 (Issue 3, 4 & 5) DCS01, DCS03 DEF STD 59/411 Part 3 DCS01, DCS03, MIL STD 461 (A, B and C) CS01 MIL STD 461 (D and E) CS101 MIL STD 461 F CS101 SPE-J-000-E-1000: Issue 1:1991 CS-EFA-1 RTCA DO160 (A, B and C) Section 18	IP
4.3.7 Conducted Susceptibility  10 kHz - 400 MHz  (Bulk Current Injection) (Voltage Injection)  (Control, Signal and Power Lines) (up to 4 Amps)	DEF STAN 59-41 (Issue 3, 4 & 5) DCS02 DEF STD 59/411 Part 3 DCS02 MIL STD 461 (A, B and C) CS02 MIL STD 461 (D and E) CS114 MIL STD 461 F CS114 SPE-J-000-E-1000: Issue 1:1991 CS-EFA-1 RTCA DO160 (A, B and C) Section 20, Paragraph 20.4	IP	



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
SECTION 4: (cont'd) As listed on Page 23	<u>EMC Testing (cont'd)</u>  4.3 <u>Military and Aircraft EMC Testing (cont'd)</u>  4.3.8 Transient Susceptibility  10 kHz - 100 MHz  (Damped Sine wave) (Pulse)  (Externally Generated Transients)  (Imported Long Transients)  (Aircraft, Land and Sea Systems)	DEF STAN 59-41 (Issue 3, 4 & 5) DCS04, DCS05, DCS06, DCS08, DCS11 DEF STD 59/411 Part 3 DCS04 MIL STD 461 (D and E) CS116 MIL STD 461 F CS106, CS116 SPE-J-000-E-1000: Issue 1:1991 NEMP-EFA-1	IP
	4.3.9 Impulse Excitation  LEMP to 30Ka (Imported Lightning Transient) (BCI Impulse Excitation) (Imported Transients) (Slow and Fast Lightning Pulse) (Voltage Spike) (Power Lines) (Pin Injection) (DEF-STAN 59-41: Short pulse to Category C, Medium pulse to Category C, Long pulse to Category D) (RTCA DO160: Pin Injection Waveform 3 Level 4, Waveform 4 and 5B Level 5, Cable Bundle Test with Ground Injection, Waveform 2 Level 2, Waveform 3 Level 3, Waveform 4 Level 2 and Waveform 5B Level 5)	DEF STAN 59-41 (Issue 3, 4 & 5) DCS09 MIL STD 461 (A, B and C) CS06 MIL STD 461 (D and E) CS115 MIL STD 461 F CS115 SPE-J-000-E-1000: Issue 1:1991 CS-EFA-4, LEMP-EFA-1, LEMP-EFA-2 RTCA DO160 (A, B and C) Section 17, Section 22	IP



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
SECTION 4: (cont'd)  As listed on Page 23	<u>EMC Testing</u> (cont'd)		
	4.3 <u>Military and Aircraft EMC Testing</u> (cont'd)		
	4.3.10 Electrostatic Discharge  15 kV Air, 8 kV Contact	DEF STAN 59-41 (Issue 3, 4 & 5) DCS10 (Aircraft) DEF STD 59/411 Part 3 DCS10 SPE-J-000-E-1000:Issue 1:1991 Category B and C Only RTCA DO160D Section 25	IP
	4.3.11 Radiated Susceptibility (H Field)  20 Hz - 100 kHz  (Magnetic Spike Induction)  (Control and Signal Lines)  (Radiated Audio Frequency)  (Induced Signal Susceptibility)	DEF STAN 59-41 (Issue 3, 4 & 5) DRS01 DEF STD 59/411 Part 3 DRS01 MIL-STD 461 (A, B and C) RS01, RS02 MIL STD 461 (D and E) RS101 SPE-J-000-E-1000:Issue 1:1991 RS-EFA-1, RS-EFA-2 RTCA DO160 (A, B, C, and D) Section 19	IP
4.3.12 Radiated Susceptibility (E Field)  10 kHz - 40 GHz (up to 200 V/m)	DEF STAN 59-41 (Issue 3, 4 & 5) DRS02 DEF STD 59/411 Part 3 DRS02 MIL STD 461 (A, B and C) RS03 MIL STD 461 (D and E) RS103 MIL STD 461 F RS103 SPE-J-000-E-1000:Issue 1:1991 RS-EFA-3 RTCA DO160 (A, B, C, and D) Section 20 Paragraph 20.5	IP	



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
SECTION 4: (cont'd) As listed on Page 23	<u>EMC Testing</u> (cont'd)  4.3 <u>Military and Aircraft EMC Testing</u> (cont'd)  4.3.13 Magnetic Field Susceptibility  DC 1000 A/m AC 50 Hz, 500 A/m	DEF STAN 59-41 (Issue 3, 4 & 5) DMFS01 DEF STD 59/411 Part 3 DRS03 MIL STD 461 F RS101	IP
	4.3.14 Power Supply Variations  Emissions: Steady State Voltage Ripple Surges Spikes  Susceptibility: Surges	DEF STAN 61-5 Part 6 RTCA DO160 (A, B and C) Section 16 Power Input (DC Systems only)	IP
Motor vehicles Motor vehicle Accessories and Components	4.4 <u>Automotive Motor vehicle EMC Testing</u>  4.4.1 Conducted Emissions  Conducted Emissions: 9 kHz to 30 MHz	CISPR 25:2002, Section 6	IP
	4.4.2 Radiated Emissions  Electric field:  20 MHz to 1000 MHz  Whole Vehicle ESA	CISPR 12:2001 Sections 5 and 6 CISPR 25:2002, 2004/104/EC Annexes IV, V, VII and VIII	IP



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
SECTION 4: (cont'd) As listed on Page 27	<u>EMC Testing</u> (cont'd)  4.4 <u>Automotive Motor vehicle EMC Testing</u> (cont'd)  4.4.3 Transient Testing  Transient Emissions Transient Immunity	ISO 7637-1:2002 ISO 7637-2:2004 ISO 7637-3:1995 2004/104/EC Annex X	IP
	4.4.4 Radiated Immunity:  Whole vehicle: ESA  *Using OATS in 5.6	ISO 11451-1:2005* ISO 11451-2:2005* ISO 11452-1:2005 ISO 11452-2:2004 ISO 11452-4:2005 2004/104/EC Annex VI and IX	IP CR*
As listed on Page 18 to 27	4.5 <u>Facilities</u>  4.5.1 Anechoic Chamber, Bay 1:  12.25 m x 7.75 m x 6.5 m Access Door: 3 m x 4 m with pneumatic ramp 3 m Turntable: Maximum Weight 1.5 Tonne 4 m Mast Exhaust Extractor Screened Control Room: 1.8 m x 4.5 m x 3.2 m		IP
	4.5.2 Anechoic Chamber, Bay 2:  7 m x 4.5 m x 3.75 m Access Door: 2 m x 2 m Screened Control Room: 1.8 m x 4.5 m x 3.2 m		IP



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SECTION 4: (cont'd) As listed on Page 18 to 27	<u>EMC Testing</u> (cont'd)		
	4.5 <u>Facilities</u> (cont'd)		
	4.5.3 Anechoic Chamber, Bay 3:  6 m x 5 m x 3 m Access Door: 1.98 m x 0.86 m		IP
	4.5.4 Anechoic Chamber, Bay 4:  10.2 m x 7 m x 5 m Access Door: 2 m x 2 m 1.5 m Turntable: Maximum Weight 1.5 Tonne 4 m Mast Screened Control Rooms: Control 1: 1.8 m x 4.5 m x 3.2 m Control 4: 7 m x 3 m x 3.2 m		IP
	4.5.5 Screened Chamber, Bay 5:  14 m x 8 m x 3.2 m Access Door: 4 m x 2.2 m		IP
4.5.6 Open area test site:  3 m, 10 m and 30 m covered and heated CISPR 16 site Access door: 2.9 m x 2.9 m 5m Turntable: Maximum Weight 3 tonne 4 m Mast		CR	



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SECTION 4: (cont'd) As listed on Page 18 to 27	<u>EMC Testing</u> (cont'd) 4.5 <u>Facilities</u> (cont'd) 4.5.7 Open area test site: 3 m and 10 m CISPR 16 site Access door: 1.9 m x 2.0 m		CR
	4.5.8 Chambers Power Supplies: 115 V ac, 12.5 kVa, 60 Hz 200 V ac, 16 kVa, 3-phase, 400 Hz 200 V ac, 7 kVa, 3-phase, 380/420 Hz 240 V/415 V ac, 200 A/line, 50 Hz 28 V dc, 200 A 50-100 V dc, 100 A 680 V dc, 20 A		IP
	4.5.9 OATS Power Supplies: 115 V ac, 12.5 kVa, 60 Hz 117 V ac, 7.5 kVa, 60 Hz 240 V ac, 30 A 1-phase 50 Hz 415 V ac, 50 A/line, 3-phase, 50 Hz		CR
	4.5.10 Other Facilities: Regulated hydrovane air source up to 10.6 bar Regulated air source, 9 bar 8.5 cfm FAD		IP



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SECTION 5: ELECTRICAL WIRING ACCESSORIES  Products Marked '**' listed below	<u>Electrical Products Tests</u>  Electrical Safety	The Plug and Socket etc (Safety) Regulations 1994	CR
Ceiling roses	Electrical safety Maximum ratings: 6A, 250V, 50 Hz	BS 67:1987	CR
Two-pole and earthing-pin plugs, socket-outlets and socket-outlet adapters*	Electrical safety Ratings: 2A, 5A and 15A, 250V ac	BS 546:1950, Amds 1 to 8 Supplements 1 & 2 Excluding: Resilient plugs	CR
13A fused plugs and switched and unswitched socket-outlets*	Electrical safety	BS 1363:1984, Amds 1 to 6 IEC 60884:1994, Amds 1 & 2	CR
13A rewirable and non-rewirable plugs*	Electrical safety	BS 1363-1:1995, Amds 1 to 3 Excluding : Clause 16, Temperature rise	CR
13A switched and unswitched socket-outlets*	Electrical safety	BS 1363-2:1995, Amds 1 to 3	CR
13A adapters*	Electrical safety	BS 1363-3:1995, Amds 1 to 3 corrig Excluding : Clause 16, Temperature rise	CR
13A fused connection units switched and unswitched	Electrical safety	BS 1363-4:1995, Amds 1 to 3 Excluding : Clause 16, Temperature rise	CR
Conversion plugs	Electrical safety	BS 1363-5:2008 Excluding: Clause 16, Temperature rise	CR



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SECTION 5: (cont'd)  Switches for household and similar fixed electrical installations	<u>Electrical Products Tests</u> (cont'd)  Electrical safety Maximum ratings: 63A, 250V ac	BS 3676-1:2000, Amds 1 & 2 BS EN 60669-1:1999 + A2:2008 EN 60669-1:2000, amd A1 and A2 IEC 60669-1:1998 Excluding: Clause 15.2.2	CR
Electronic switches	Electrical safety	BS EN 60669-2-1:2004, corrig 1 and 2 EN 60669-2-1:2004 IEC 60669-2-1:2002	CR
Electromagnetic remote-control switches (RCS)	Electrical safety	BS EN 60669-2-2:2006 EN 60669-2-2:2006 IEC 60669-2-2:2006	CR
Time delay switches	Electrical safety	BS EN 60669-2-3:2006 EN 60669-2-3:2006 IEC 60669-2-3:2006	CR
Isolating switches	Electrical safety	BSEN 60669-2-4:2005 IEC 60669-2-4:2004	CR
Cooker control units	Electrical safety Maximum ratings: 45A, 250V ac single phase	BS 4177:1992, Amds 1 to 4 Excluding: Figure 6 boxes (Fig 7 gauge)	CR
2-pin plugs and shaver socket-outlets	Electrical safety	BS 4573:1970, Amds 1 to 4	CR
General requirements for electrical accessories not covered by other British Standards	Electrical safety	BS 5733:1979, Amds 1 to 3 BS 5733:1995, Amd 1, corrig	CR



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SECTION 5: (cont'd)	<u>Electrical Products Tests</u> (cont'd)		
Appliance Connectors for household and similar general purposes	Electrical safety	BS EN 60320-1:2001 + A1:2007 EN 60320-1:2001, Amd A1 IEC 60320-1:2001 Excluding: Couplers to standard sheets other than C5, C7, C13, C15, C17 & C19; Clause 16.2 and 18.1 for hot connectors	CR
Cord-sets	Electrical safety	BS EN 60799:1998 IEC 60799:1998	CR
Cable Reels	Electrical safety	BS EN 61242:1998, Amds 1 and 2, Corrig 1 EN 61242:1997, Amd A1 IEC 61242:1995	CR



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
SECTION 6: GARDEN EQUIPMENT  Petrol lawnmowers	<u>Safety Tests</u>  Mechanical Safety	BS EN 836:1997, Amd 1 EN 836:1997, Amd A1 Excluding: Clause 4.1.12 Clause 4.1.13	CR
SECTION 7: HOUSEHOLD AND SIMILAR ELECTRICAL APPLIANCES  Mains operated electronic and related apparatus for household and similar general use Including: Audio Radio TV Video and ancillary apparatus	<u>Electrical Products Tests</u>  Electrical safety	BS EN 60065:2002 IEC 60065:2001 Excluding: Clause 3.1, Sound pressure test Clause 8.17, Insulated winding wires Clause 8.18, Wound components BS EN 60065/BS 415:1994, Amd 1 (withdrawn) IEC 60065:1985, Amds 1 to 3 (withdrawn) BS 415:1990 (withdrawn) HD 195 S6 Excluding: Clause 18 Mechanical strength of picture tubes and for protection against effects of implosion BS EN 60065/BS 415:1998, Amd 1 (withdrawn) IEC 60065:1998, (withdrawn) Excluding: Clause 18 Mechanical strength of picture tubes and for protection against effects of implosion	CR



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
SECTION 7: HOUSEHOLD AND SIMILAR ELECTRICAL APPLIANCES (cont'd)  Household and Similar Electrical Appliances  General requirements	<u>Electrical Products Tests</u> (cont'd)  Electrical safety	EN 60335-1:2002, Amds A1, A11, A12 and A2 IEC 60335-1:2001, A1 and A2 Excluding: Clause 22.32; Oxygen bomb and sintered ceramic Annex J Annex N (>250 V) EN 60335-1:1994, Amds A1, A2 and A11 to A16 Excluding: Annex ZC	CR
Vacuum cleaners and water suction cleaning devices  Excluding: Tests on current carrying hoses	Electrical Safety	EN 60335-2-2:2003, Amds A1 and A2 IEC 60335-2-2:2002, Amds 1 and 2 EN 60335-2-2:1995 (withdrawn)	CR
Electric irons	Electrical Safety	EN 60335-2-3:2002, Amds A1 and A2 IEC 60335-2-3:2002, Amds 1 and 2 EN 60335-2-3:1995 (withdrawn)	CR
Spin extractors	Electrical Safety	EN 60335-2-4:2002, Amds A1 and A2 IEC 60335-2-4:2002, Amds 1 and 2 EN 60335-2-4:1995, Amd A1 (withdrawn)	CR



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SECTION 7: (cont'd)  Dishwashers	<u>Electrical Products Tests</u> (cont'd)  Electrical Safety	EN 60335-2-5:2003, Amd A1 IEC 60335-2-5:2002, Amd 1 EN 60335-2-5:1995, Amds A1 and A2 (withdrawn) Excluding: Clause 24. Z101 Annex BB and the requirements of EN 50084:1992	CR
Cooking ranges, cooking tables, ovens and similar appliances for household use Including: Boiling plates Excluding: Cooker with pyrolytic ovens	Electrical Safety	EN 60335-2-6:2003, Amds A1 and A2 IEC 60335-2-6:2002, Amds 1 and 2	CR



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SECTION 7: (cont'd)	<u>Electrical Products Tests</u> (cont'd)		
Washing machines	Electrical Safety	BS EN 60335-2-7:2003, Amds A1 and A2 IEC 60335-2-7:2002, Amds 1 and 2 Excluding: Clause 24.Z101 EN 60335-2-7:1997, Amd A1 (withdrawn) Excluding: Clause 24.Z101 Annex BB	CR
Shavers, hair clippers and similar appliances	Electrical Safety	EN 60335-2-8:2003, Amds A1 and A2 IEC 60335-2-8:2002, Amds 1 and 2 EN 60335-2-8:1996 (withdrawn)	CR
Toasters, grills, roasters and similar appliances Including: Portable cooking appliances Roasters and similar dry cooking appliances Toasters Sandwich toasters Waffle irons	Electrical Safety	EN 60335-2-9:2003, Amds A1 to A3 IEC 60335-2-9:2002, Amds 1 and 2 EN 60335-2-9:1995 (withdrawn)	CR
Floor treatment machines and wet scrubbing machines Including: Floor polishers Excluding: Shampooers Floor scrubbers	Electrical Safety	EN 60335-2-10:1995 (withdrawn) IEC 60335-2-10:1992 (withdrawn)	CR
Plate warmers and similar appliances Including: Portable cooking appliances	Electrical Safety	EN 60335-2-12:2003, Amd A1 IEC 60335-2-12:2002, Amd 1 EN 60335-2-12:1995 (withdrawn)	CR



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Deep fat fryer, electric frying pans and similar appliances	Electrical Safety	EN 60335-2-13:1995 (withdrawn)	CR
Kitchen machines Excluding: Kitchen knives Blenders	Electrical Safety	BS EN 60335-2-14:2003 IEC 60335-2-14:2002 EN 60335-2-14:1996 (withdrawn) IEC 60335-2-14:1994 (withdrawn)	CR
Appliances for heating liquids Including: Cooking pans Coffee percolators Feeding bottle heaters Feed bottles Glue pots and water jackets Kettles Milk boilers Pressure cookers Portable cooking appliances Sterilizers Wash boilers Water boilers	Electrical Safety	EN 60335-2-15:2002, Amd A1 IEC 60335-2-15:2002, A1 and A2 EN 60335-2-15:1996 (withdrawn) IEC 60335-2-15:1995 (withdrawn)	CR
Food waste disposers	Electrical Safety	EN 60335-2-16:2003 IEC 60335-2-16:2002	CR
Storage water heaters	Electrical Safety	EN 60335-2-21:2003, Amd A1 IEC 60335-2-21:2002, Amd 1	CR



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
SECTION 7: (cont'd)  Appliances for skin or hair care Including: Hair dryers Facial saunas Curling tongs Combs Permanent wave Steam and spray producing devices Hand dryers Warm air hand dryers But excluding Hair rollers	<u>Electrical Products Tests</u> (cont'd)  Electrical safety	EN 60335-2-23:2003 IEC 60335-2-23:2003 EN 60335-2-23:1996 (withdrawn) IEC 60335-2-23:1996 (withdrawn)	CR
Refrigerators, food freezers and ice makers Excluding: Flammable refrigerants	Electrical Safety	EN 60335-2-24:2003, Amds A1, A2 and A11 IEC 60335-2-24:2002, Amds 1 and 2	CR
Microwave ovens	Electrical Safety	EN60335-2-25:2002, Amds A1 and A2 IEC 60335-2-25:2002, Amds 1 and 2 EN 60335-2-25:1997 (withdrawn) IEC 60335-2-25:1996 (withdrawn)	CR
Clocks	Electrical safety	EN 60335-2-26:1996 (withdrawn) EN 60335-2-26:1990 (withdrawn) IEC 60335-2-26:1994 (withdrawn) IEC 60335-2-26:1987 (withdrawn)	CR
Ultra-violet and infra-red radiation skin treatment appliances	Electrical safety	EN 60335-2-27:1997 (withdrawn) EN 60335-2-27:1992, Amds A2 and A51, Corrig IEC 60335-2-27:1995 (withdrawn) IEC 60335-2-27:1987, Amds 1 & 2 (withdrawn) Excluding: Clause 32.101	CR



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SECTION 7: (cont'd)	<u>Electrical Products Tests</u> (cont'd)		
Sewing machines	Electrical Safety	EN 60335-2-28:2003 IEC 60335-2-28:2002	CR
Battery chargers	Electrical Safety	EN 60335-2-29:1996 (withdrawn) IEC 60335-2-29:1994 (withdrawn)	CR
Room heaters	Electrical Safety	EN 60335-2-30:2003, A1 and A2, corrig IEC 60335-2-30:2002, Amds 1 and 2 (withdrawn) Excluding: Clause 22.110 coating thickness EN 60335-2-30:1997 (withdrawn) IEC 60335-2-30:1996 (withdrawn)	CR
Range hoods	Electrical Safety	EN 60335-2-31:2003, Amd A1 IEC 60335-2-31:2002, Amd 1 EN 60335-2-31:1997 (withdrawn) IEC 60335-2-31:1995 (withdrawn)	CR
Massage appliances	Electrical Safety	EN 60335-2-32:1995 (withdrawn) IEC 60335-2-32:1993 (withdrawn)	CR
Coffee mills and Coffee grinders	Electrical Safety	EN 60335-2-33:1990 IEC 60335-2-33:1987, Amd 1	CR
Motor compressors	Electrical safety	EN 60335-2-34:2002, Amds A1 and A11 IEC 60335-2-34:2002, Amd 1 EN 60335-2-34:1996 (withdrawn) IEC 60335-2-34:1996 (withdrawn)	CR



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SECTION 7: (cont'd)  Instantaneous water heaters	<u>Electrical Products Tests</u> (cont'd)  Electrical safety	EN 60335-2-35:2002, Amd A1 IEC 60335-2-35:2002, Amd 1 EN 60335-2-35:1998, Amd A1 (withdrawn) IEC 60335-2-35:1997, Amd 1	CR,
Pumps for liquids having a temperature not exceeding 35 °C Including: Shower boosters	Electrical safety	EN 60335-2-41:2003, Amd A1 IEC 60335-2-41:2002, Amd 1 EN 60335-2-41:1996 (withdrawn) IEC 60335-2-41:1996 (withdrawn)	CR
Clothes dryers and towel rails	Electrical Safety	EN 60335-2-43:2003, Amd 1 IEC 60335-2-43:2002, Amd 1 EN 60335-2-43:1997, (withdrawn) IEC 60335-2-43:1995 (withdrawn)	CR
Electric ironers Including: Pressing machines	Electrical safety	EN 60335-2-44:2002 IEC 60335-2-44:2002	CR
Portable heating tools and similar appliances Including: Soldering irons	Electrical safety	EN 60335-2-45:1996 (withdrawn) IEC 60335-2-45:1996 (withdrawn)	CR
Electrical appliances for use with aquariums and garden pools	Electrical Safety	EN 60335-2-55:2003, Amd A1 IEC 60335-2-55:2002, Amd 1 EN 60335-2-55:1997 (withdrawn) IEC 60335-2-55:1997 (withdrawn)	CR
Insect killers	Electrical safety	EN 60335-2-59:2003, Amd A1 IEC 60335-2-59:2002, Amd 1 EN 60335-2-59:1997 (withdrawn) IEC 60335-2-59:1997 (withdrawn) Excluding: UV Radiation measurements	CR



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SECTION 7: (cont'd)	<u>Electrical Products Tests</u> (cont'd)		
Thermal storage room heaters	Electrical safety	EN 60335-2-61:1996 (withdrawn) IEC 60335-2-61:1992 (withdrawn)	CR
Dispensing appliances for food, drink and packaged consumer products Excluding machines heated by gas	Electrical safety	EN 60335-2-75:2004,, Amds A1 and A11 IEC 60335-2-75:2002, amd A1 Excluding: Annex ZAA Annex ZBB EN 60335-2-75:2002 (withdrawn) IEC 60335-2-75:1995 (withdrawn)	CR
Pedestrian controlled mains-operated lawn-mowers	Electrical safety	EN 60335-2-77:2006, Corrig EN 60335-2-77:2000 (withdrawn) IEC 60335-2-77:2002 IEC 60335-2-77:1996 (Mod)	CR
Fans Including: Desk or table top Ventilating	Electrical safety	EN 60335-2-80:2003, Amd A1 IEC 60335-2-80:2002, Amds 1 and 2 EN 60335-2-80:1997 (withdrawn) IEC 60335-2-80:1997 (withdrawn)	CR
Amusement machines	Electrical safety	BS EN 60335-2-82:2003, Amd A1 IEC 60335-2-82:2002, Amd 1 Excluding: Clause 31	CR
Lawn trimmers and lawn edge trimmers	Electrical safety	IEC 60335-2-91:2008 EN 60335-2-91:2003 IEC 60335-2-91:2002 (withdrawn)	CR
Lawnmowers and similar gardening appliances	Electrical safety	BS 3456-2.32:1974, Amds 1 to 3 (withdrawn)	CR

In the above section 7 where IEC or EN standards have exact equivalents in BS EN Standards, these BS EN standards are also included in the accreditation.



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SECTION 8: INDUSTRIAL APPLIANCES AND TOOLS	<u>Electrical Products Tests</u>		
Hand held electric tools General requirements	Electrical safety	BS EN 50144-1:1996 Excluding: Clause 13 BS 2769:Part 1:1984, Amd 1 HD 400.1 S1:1980, Amd A1 IEC 60745-1:1997	CR
Drills	Electrical safety	BS EN 50144-2-1:1996 IEC 60745-2-1:1989, Amd 1	CR
Screwdrivers and impact wrenches	Electrical safety	BS EN 50144-2-2:1996 IEC 60745-2-2:1982, Amd 1	CR
Grinders, polishers and disc-type sanders	Electrical safety	BS 2769:Section 2.3:1984, Amd 1 HD 400.2C S1:1980, Amd A1 IEC 60745-2-3:1984, Amd 1	CR
Sanders	Electrical safety	BS EN 50144-2-4:1996 IEC 60745-2-4:1983, Amds 1 and 2	CR
Circular saws and circular knives	Electrical safety	BS EN 50144-2-5:1996 IEC 60745-2-5:1993	CR
Hammers	Electrical safety	BS EN 50144-2-6:1997	CR
Spray guns	Electrical safety	BS EN 50144-2-7:1996 IEC 60745-2-7:1989	CR
Jig saws	Electrical safety	BS EN 50144-2-10:1996	CR
Reciprocating saws (jig saws)	Electrical safety	IEC 60745-2-11:1984	CR



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SECTION 8: (cont'd)	<u>Electrical Products Tests</u> (cont'd)		
Chain saws	Electrical safety	BS 2769:Section 2.12:1991 HD 400.3L S2:1988 IEC 60745-2-13:1989, Amd 1	CR
Planes	Electrical safety	BS EN 50144-2-14:1997 IEC 60745-2-14:1984	CR
Hedge trimmers	Electrical safety	BS EN 50144-2-15:1997 IEC 60745-2-15:1984	CR
Routers and trimmers	Electrical safety	BS 2769:Section 2.15:1992 HD 400.3O S1:1992 IEC 60745-2-17:1989	CR
Trimmers	Electrical safety	BS 2769:Section 2.16:1992 HD 400.3R S1:1992	CR
Transportable electric tools General requirements	Electrical safety	BS EN 61029-1:1996 IEC 61029:Part 1:1990	CR
Bench grinders	Electrical safety	IEC 61029:Part 2.4:1993	CR
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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
SECTION 9: INFORMATION TECHNOLOGY EQUIPMENT  Information technology equipment including electrical business equipment	<u>Electrical Products Tests</u>  Electrical safety	BS EN 60950-1:2002 IEC 60950-1:2001 AS/NZS 60950-1:2003 Excluding: Clause 4.3.13.3, UV radiation Clause 4.3.13.4, UV radiation Clause 4.3.13.5, Lasers BS EN 60950:2000 EN 60950:2000 IEC 60950:1999 AS/NZS 60950:2000 Excluding: Clause 4.2.8, Implosion of cathode ray tubes 4.3.13, Lasers Annex U, Insulated windings BS EN 60950:1992, Amds 1 to 4 Excluding: Annex U of IEC 60851 EN 60950:1992, Amds A1, A2, A3 and A4 Excluding: Annex U of IEC 60851 HD 372 S1	CR
Information technology equipment including electrical business equipment	Electrical safety	EN 60950:1988, Amds A1, A2, A3 and A4 Excluding: Annex U of IEC 60851 BS 7002:1992, Amds 1 to 4 Excluding: Annex U of IEC 60851 BS 7002:1989 Excluding: Annex U of IEC 60851 IEC 60950:1991, Amds 1 to 4 Excluding: Annex U of IEC 60851 IEC 60380:1985	CR



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SECTION 9: (cont'd)  Data processing equipment  Apparatus for connection to telecommunications networks	<u>Electrical Products Tests</u> (cont'd)  Electrical safety	BS EN 41003:1997 BS EN 41003:1993 BS EN 41003:1991 IEC 60435:1983, Amd 1	CR
Business machines	Electrical safety	AS/NZS 3260:1993	CR
Telecommunications connections for business machines	Electrical safety	TS 001 Excluding: Clause 5.4.1 (7 kV surge)	CR

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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
SECTION 10: LUMINAIRES Track systems for luminaires	<u>Electrical Products Tests</u> Electrical safety	BS EN 60570:2003 IEC 60570:2003	CR
Luminaires General Requirements	Electrical safety Electrical, Mechanical and Thermal	BS EN 60598-1:2008, Amd 1 IEC 60598-1:2008 BS EN 60598-1:2004, Amd 1, corrig IEC 60598-1:2003, corrig (withdrawn) Excluding: Annex P, UV radiation	CR
Fixed luminaires	Electrical safety	EN 60598-2-1:1989 BS 4533:Section 102.1:1990 IEC 60598-2-1:1979, Amd 1	CR
Recessed luminaires	Electrical safety	BS EN 60598-2-2:1997, Amd 1 IEC 60598-2-2:1997, Amd 1	CR
Road and street lighting	Electrical safety	BS EN 60598-2-3:2003, Amd 1 IEC 60598-2-3:2002 Excluding: Clause 3.6.3.1	CR
Portable general purpose luminaires	Electrical safety	BS EN 60598-2-4:1998 IEC 60598-2-4:1997	CR
Floodlights	Electrical safety	BS EN 60598-2-5:1998, Amd 1 IEC 60598-2-5:1998, Amds 1 Excluding: Clause 5.6.5	CR
Luminaires with built in transformers	Electrical safety	BS EN 60598-2-6:1995, Amd 1 IEC 60598-2-6:1994, Amd 1	CR



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
SECTION 10: (cont'd)  Portable luminaires for garden use	<u>Electrical Products Tests</u> (cont'd)  Electrical safety	BS EN 60598-2-7:1997, Amds 1 to 5 IEC 60598-2-7:1982, Amds 1 & 2	CR
Handlamps	Electrical safety	BS EN 60598-2-8:1997+ A2:2008 IEC 60598-2-8:1996, Amd 1	CR
Photo and film luminaires	Electrical safety	EN 60598-2-9:1989, Amd A1 BS 4533:Section 102.9:1990, Amd 1 IEC 60598-2-9:1987, Amd 1	CR
Portable luminaires for children	Electrical safety	BS EN 60598-2-10:2003, corrig IEC 60598-2-10:2003 Excluding: Clause 10.6.3.2 Clause 10.6.4 Clause 10.15.2.1	CR
Aquarium luminaires	Electrical safety	BS EN 60598-2-11:2005 IEC 60598-2-11:2005	CR
Mains socket-outlet mounted nightlights	Electrical safety	BS EN 60598-2-12:2006, corrig IEC 60598-2-12:2006	CR
Ground recessed luminaires	Electrical safety	BS EN 60598-2-13:2006, corrig IEC 60598-2-13:2006 Excluding: Clause 13.6.1, static load test Clause 13.6.2, torque test Clause 13.6.3, shear load test	CR



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SECTION 10: (cont'd)  Stage lighting, television, film and photographic studio luminaires	<u>Electrical Products Tests</u> (cont'd)  Electrical safety	BS 4533:Section 102.17:1990, Amds 1 to 3 IEC 60598-2-17:1984, Amds 1 & 2	CR
Swimming pool luminaires	Electrical safety	BS EN 60598-2-18:1994, Amd 1 IEC 60598-2-18:1993	CR
Lighting chains	Electrical safety	BS EN 60598-2-20:1998, Amds 1 and 2, Corrigs 1 to 4 IEC 60598-2-20:1996, Amds 1 & 2	CR
Emergency lighting	Electrical safety	BS EN 60598-2-22:1998 + A2:2008 IEC 60598-2-22:1997, Amds 1 & 2 Excluding: Clause 22.16, functional safety Clause 22.17 changeover operation Annex C - Luminance Measurements	CR
Extra low voltage lighting systems for filament lamps	Electrical safety	BS EN 60598-2-23:1997, Amd 1 IEC 60598-2-23:1997, Amd 1	CR
Luminaires with limited surface temperature	Electrical safety	BS EN 60598-2-24:1999 IEC 60598-2-24:1997	CR
Luminaires for use in clinical areas of hospitals and healthcare buildings	Electrical safety	BS EN 60598-2-25:1995, Amds 1 and 2 IEC 60598-2-25:1994, Amds 1 & 2	CR
Self ballasted lamps for general lighting services	Electrical safety	BS EN 60968:2000, Amds 1 to 3 IEC 60968:1990, Amds 1 & 2	CR



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SECTION 10: (cont'd)  Lamp controlgear  General and Safety Requirements	<u>Electrical Products Tests</u> (cont'd)  Electrical safety	BS EN 61347-1:2008 IEC 61347-1:2008, Amd 1 Excluding: Annex B, thermally protected lamp controlgear Annex E, magnetic ballasts Annex I, magnetic ballasts Annex K, Tests during manufacture	CR
Starting devices (other than glow-starters)	Electrical safety	BS EN 61347-2-1:2001, Amds 1 and 2 IEC 61347-2-1:2000, Amd 1 Excluding: Annex B, thermally protected lamp controlgear Annex E, magnetic ballasts	CR
DC and AC supplied electronic step down converters for filament lamps	Electrical safety	BS EN 61347-2-2:2001, Amds 1 and 2 IEC 61347-2-2:2000 Excluding: Annex E, magnetic ballasts	CR
AC supplied electronic ballasts for fluorescent lamps	Electrical safety	BS EN 61347-2-3:2001, Amds 1 - 3 IEC 61347-2-3:2000, Amd's 1 & 2 Excluding: Clause 17 Annex E, magnetic ballasts	CR
Miscellaneous electronic circuits used with luminaires	Electrical safety	BS EN 61347-2-11:2002 IEC 61347-2-11:2001	CR
DC or AC supplied electronic controlgear for LED modules	Electrical safety	BS EN 61347-2-13:2006, corrig 1 IEC 61347-2-13:2006 Excluding: Annex E, magnetic ballasts	CR



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
SECTION 10: (cont'd)  Led Modules for general lighting. Safety specifications	<u>Electrical Products Tests</u> (cont'd)  Electrical safety	  BS EN 62031:2008 IEC 62031:2008	  CR

In the above Section 10 where IEC or BS EN standards have exact equivalents in EN Standards, these EN standards are also included in the accreditation.

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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
SECTION 11: MATERIALS  Materials (non-metallic) for use with potable water	<u>Chemical and Microbiological Tests</u>  Analysis for the purpose of enforcement of the Water Supply (Water Fittings) Regulations 1999 (SI 1999/1148)  Chemical tests	BS 6920:Part 1:2000 BS 6920:Part 2:Section 2.1:2000 BS 6920:Part 2:Section 2.2: Subsection 2.2.1:2000 BS 6920:Part 2:Section 2.2: Subsection 2.2.2:2000 BS 6920:Part 2:Section 2.2: Subsection 2.2.3:2000 BS 6920:Part 2:Section 2.3:2000 BS 6920:Part 2:Section 2.4:2000 BS 6920:Part 2:Section 2.5:2000 BS 6920:Part 2:Section 2.6:2000 Excluding: Clause 8, Metal Analysis BS 6920:Part 3:2000 BS 6920-4:2001 Excluding: Clause 7	CR
	Microbiological tests	BS 6920:Part 2:Section 2.4:2000 BS 6920:Part 2:Section 2.5:2000	
Materials (metallic) for use with potable water	Chemical tests	BS 7766:1994 (withdrawn)	CR
Influence of materials on water intended for human consumption - influence due to migration non-metallic and non-cementitious, factory made & site-applied materials	Chemical tests	BS EN 12873-1:2003 BS EN 12873-2:2005	CR





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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
SECTION 12: MEDICAL ELECTRICAL EQUIPMENT	<u>Electrical Products Tests</u>		
Medical electrical equipment	Electrical safety	BS EN 60601-1:2006 IEC 60601-1:2005	CR
General requirements	Humidity pre-conditioning of equipment or relevant equipment parts limited to dimensions:  65 cm x 1.8 m x 2 m  Ingress Protection Tests limited to  IP1X TO IP4X IPX1 TO IPX6	Excluding: Clause 11.7 Biocompatibility Clause 8.8.42 Ageing of Rubber Annex's G2, to G6 BS EN 60601-1:1990, Amds 1 to 3 IEC 60601-1:1988, Amds 1 and 2  Excluding: Anaesthetic Proof equipment to Clause 37 Clause 38 Clause 39 Clause 40 Clause 41 Clause 48 Biocompatibility Clause 59.2c Ageing of Rubber	
Safety requirements for medical electrical systems	Electrical safety  Medical Electrical Systems that can be transported to the accredited laboratory and are not installation dependent	BS EN 60601-1-1:2001 (withdrawn) IEC 60601-1-1:2000 BS EN 60601-1-1:1993, Amds 1 and 2 (withdrawn) IEC 60601-1-1:1992 (withdrawn)	CR
Programmable Electrical Medical Systems	Electrical safety	IEC 60601-1-4:2006 BS EN 60601-1-4:1997 IEC 60601-1-4:1996	CR
Nerve and muscle stimulators	Electrical safety	BS 5724-2.10:1988 (withdrawn) BS EN 60601-2-10:2001, Amd 1 IEC 60601-2-10:1987, Amd A1	CR
Electrocardiographs	Electrical safety	BS EN 60601-2-25:1996, Amd 1 IEC 60601-2-25:1993	CR



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
SECTION 12 MEDICAL ELECTRICAL EQUIPMENT (cont'd)  Electroencephalographs	<u>Electrical Products Tests</u> (cont'd)  Electrical safety	BS EN 60601-2-26:2003 IEC 60601-2-26:2002 BS EN 60601-2-26:1995 (withdrawn) IEC 60601-2-26:1994 (withdrawn)	CR
Electrocardiograph Monitoring Equipment	Electrical safety	BS EN 60601-2-27:2006 IEC 60601-2-27:2005	CR
Electrically-Operated Hospital Beds	Electrical safety	BS EN 60601-2-38:1997, Amd 1 IEC 60601-2-38:1996, Amd A1	CR

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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
SECTION 13: RADIO TESTING  Radio Transmitting and Receiving Equipment	<u>Radio Testing</u>  13.1 Radio transmitters and receivers:  Measurement frequency range: 10 kHz to 4 GHz, power output up to 150 watts  13.1.1 Frequency  13.1.2 Power  13.1.3 Modulation  13.1.4 Spurious signals  13.1.5 Intermodulation  13.1.6 Sensitivity  13.1.7 Distortion  13.1.8 SINAD and S/N ratios  13.1.9 Spurious Responses  13.1.10 Selectivity  13.1.11 Other related tests	MPT 1302:1996 MPT 1304:1996 MPT 1305:1996 MPT 1306:1996 MPT 1308:1998 MPT 1314:1994 MPT 1322:1996 MPT 1325:1998 MPT 1335:1996 MPT 1357:1996 MPT 1365:1996 MPT 1371:1998 MPT 1380:1996 MPT 1382:1997 MPT 1384:1997 MPT 1411:1995 ETS 300 086:1991, Amds A1 & A2 ETS 300 113:1996, Amd A1 ETSI EN 300 086-1, V1.2.1 ETSI EN 300 086-2, V1.1.1 ETSI EN 300 113-1, V1.3.1 ETSI EN 300 113-2, V1.1.1 ETSI EN 300 135-1, V1.1.2 ETSI EN 300 135-2, V1.1.1 ETSI EN 300 220-1, V1.3.1 ETSI EN 300 220-1 V2.3.1:2010 ETSI EN 300 220-3, V1.1.1 ETSI EN 300 296-1, V1.1.1 ETSI EN 300 330-1, V1.3.1 ETSI EN 300 330-2, V1.1.1 ETSI EN 300 390-1, V1.2.1 ETSI EN 300 390-2, V1.1.1 ETSI EN 300 454-1, V1.1.2 ETSI EN 300 454-2, V1.1.1 ETSI EN 302 018-1, V1.1.1, for Spurious Emissions and Out of Band measurements only	IP





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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
SECTION 14: TRANSFORMERS  Safety of power transformers, power supply units and similar  General requirements and tests	<u>Electrical Product Tests</u>  Electrical safety	BS EN 61558-1:2005 + A1:2009 IEC 61558-1:2005, Amd 1 BS EN 61558-1:1998, Amds 1 & 2 IEC 61558-1:1997, Amd A1 & A11 (withdrawn)	CR
Isolating transformers for general use	Electrical safety	BS EN 61558-2-4:2009 IEC 61558-2-4:2009 BS EN 61558-2-4:1998, Amd 1 IEC 61558-2-4:1997	CR
Shaver transformers and shaver power supplies	Electrical safety	BS EN 61558-2-5:1998, Amds 1 and 2 IEC 61558-2-5:1997, Amd 1	CR
Safety isolating transformers for general use	Electrical safety	BS EN 61558-2-6:1998, Amd 1 IEC 61558-2-7:1997	CR
Transformers for toys	Electrical safety	BS EN 61558-2-7:2007 IEC 61558-2-7:2007	CR
In the above Section 14 where IEC or BS EN standards have exact equivalents in EN Standards, these EN standards are also included in the accreditation.			



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
SECTION 15: OTHER TESTS  Enclosures for Electrical Equipment	<u>Electrical Products Tests</u>  For voltages up to and including 1000V ac and 1200V dc  Range IP22 to IP67	BS 5420:1977 (withdrawn) IEC 60144:1963 (withdrawn)	CR



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
SECTION 16: HOUSEHOLD AND SIMILAR ELECTRICAL APPLIANCES	<u>Performance Tests</u>		
Dishwashers	Performance tests	BS EN 50242:1999, Amd 1, Corrig Excluding: Clause 9, Noise	MK
	Performance tests	In line with Dishwasher Testing Manual, Issue 6	
Food freezers	Performance tests	In line with Fridge Freezer Testing Manual, Issue 4, based on BS EN ISO 5515:1996 BS EN 153:2006 - Energy labelling and associated characteristics	MK
	Required characteristics	Clause 6	
	Determination of linear dimensions, volumes and areas	Clause 7	
	General test conditions	Clause 8	
	Testing air-tightness of door or lid seal(s)	Clause 9 Deviation: Test carried out at operating temperature, not in equilibrium with ambient temperature as demanded by Clause 9.1	
	Testing the storage temperatures	Clause 13	
	Energy consumption test	Clause 15 and in accordance with BS EN 153:2006	
	Temperature rise test	Clause 16	
	Freezing test (if appliance has 4 star compartment)	Clause 17 Deviation: Clause 17.1.3.3 ballast load calculation: above 50 litres the amount of ballast load is calculated according to 25 kg/100L	



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SECTION 16: (cont'd) Food freezers (cont'd)	<u>Performance Tests</u> (cont'd)  Freezing test (if appliance has 4 star compartment) (cont'd)  Designation  Marking  Instructions for use and maintenance	Clause 17.1.4.2.1 Pre-freeze/fast freeze: in the absence of manufacturer's instructions, there shall be no pre-freeze. The fast freeze shall be set when the light load is introduced.  Clause 17.1.4.3 Any drawer or basket shall be left in place, even if this is contrary to any instructions or loading plan suggested by the manufacturer  Clause 19  Clause 20  Clause 22	MK
Food preparation machines	Performance tests	In line with Food Preparation Machines Testing Manual, Issue 2	MK
Microwave ovens	Performance tests	In line with Microwave Oven Testing Manual, Issue 5	MK
Ovens Excluding: Integrated air-extraction units	Performance tests  Energy consumption	BS EN 50304:2001, Corrig 1 EN 50304:2001 Excluding: Clause 10	MK
Refrigerators, freezers and fridge-freezers	Performance tests	BS EN 153:2006, corrig	MK
Household refrigerating appliances - Characteristics and test methods	Performance tests	BS EN ISO 15502:2005, corrig	MK



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
SECTION 16: (cont'd)  Refrigerators	<u>Performance Tests</u> (cont'd)  Performance tests  Required characteristics  Determination of linear dimensions, volumes and areas  General test conditions  Testing air-tightness of door or lid seal(s)  Testing the storage temperatures  Energy consumption test  Temperature rise test  Freezing test (if appliance has 4 star compartment)	In line with Fridge Freezer Testing Manual, Issue 4, based on BS EN ISO 7371:1996 (withdrawn) BS EN 153:2006 - Energy labelling and associated characteristics  Clause 6  Clause 7  Clause 8  Clause 9 Deviation: Test carried out at operating temperature, not in equilibrium with ambient temperature as demanded by Clause 9.1  Clause 13  Clause 15 and in accordance with BS EN 153:2006  Clause 16  Clause 17 Deviation: Clause 17.1.3.3 ballast load calculation: above 50 litres the amount of ballast load is calculated according to 25 kg/100L.  Clause 17.1.4.2.1 Pre-freeze/fast freeze: in the absence of manufacturer's instructions, there shall be no pre-freeze. The fast freeze shall be set when the light load is introduced.	MK





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SECTION 16: (cont'd) Refrigerator-freezers (cont'd)	<u>Performance Tests</u> (cont'd)  Temperature rise test  Freezing test (if appliance has 4 star compartment)        Designation  Marking  Instructions for use and maintenance  Ice making	Clause 16  Clause 17 Deviation: Clause 17.1.3.3 ballast load calculation: above 50 litres the amount of ballast load is calculated according to 25 kg/100L.  Clause 17.1.4.2.1 Pre-freeze/fast freeze: In the absence of manufacturer's instructions, there shall be no pre-freeze. The fast freeze shall be set when the light load is introduced.  Clause 17.1.4.3 Any drawer or basket shall be left in place, even if this is contrary to any instructions or loading plan suggested by the manufacturer  Clause 21  Clause 22  Clause 24  Testing manual	MK
Tumbler dryers	Performance tests  Performance tests	BS EN 61121:2005 Excluding: Clause 10.1.3, Air volume of exhaust air  In line with Tumbler Dryer Testing Manual, Issue 6	MK
Washer dryers	Performance tests	BS EN 50229:2007 Excluding: Clause 6.7, Noise	MK



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SECTION 16: (cont'd)  Washing machines	<u>Performance Tests</u> (cont'd)  Performance tests	IEC 60456:2010 BS EN 60456:2005, Amd 1 and 2 IEC 60456:2003 Excluding: Clause 9.3.3, Wash performance - easy care and wool Clause 10, Rinsing Clause 12.101, Energy - machines without integral heater Clause 14, Wool shrinkage Clause 102, Noise Annex D, Wash performance - natural soils	MK
Washing machines and washer dryers	Performance tests	In line with Washing Machine Testing Manual, Issue 6	MK
Dishwashers, food freezers, integral washer/dryers, refrigerators, refrigerator-freezers, tumble dryers and washing machines	Water safety	Test to the back siphonage test as detailed in the Product Safety Manual, Section 3.18 dated January 1999, Issue 3	MK
Household electrical appliances - Measurement of standby power	Power consumption	BS EN 62301:2005 IEC 62301:2005	MK
Methods of measurement for the power consumption of audio, video and related equipment	Power consumption	BS EN 62087:2009 IEC 62087:2008	MK
External power supply units:-  Household electrical appliances - Measurement of standby power	Power consumption	BS EN 62301:2005 Test Method for Calculating the Energy Efficiency of Single-Voltage External AC-DC and AC-AC Power Supplies - August 11 2004	MK



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SECTION 16: (cont'd)  ENERGY STAR  Battery charging systems  Secondary cells and batteries containing alkaline or other non-acid electrolytes  Portable sealed rechargeable single cells -  Part 1: Nickel-cadmium  Nickel-metal hydride  Secondary lithium cells and batteries for portable applications	<u>Performance Tests</u> (cont'd)  Performance Tests  Discharge test  Discharge test  Discharge test	Energy Star Test Method for Battery Charging Systems, Aug 2010  IEC 61951-1:2006 Clause 7.2 only  IEC 61951-2:2003 Clause 7.2 only  IEC 61960:2003 Clause 7.2 only	MK
Computers	Performance Tests	Energy Star Test Method for Computers, Aug 2010 Excluding: Computer Servers; Handheld computers; PDA; Smart phones; Games consoles; Handheld gaming devices;	MK
Cordless phones	Performance Tests	Energy Star Test Method for Telephony, Aug 2010	MK
Displays	Performance Tests	Energy Star Test Method for Displays, Aug 2010	MK



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SECTION 16: (cont'd) ENERGY STAR (cont'd) External Power Supplies	<u>Performance Tests</u> (cont'd)  Performance Tests	  EPRI Test Method for Calculating the Energy Efficiency of Single-Voltage External Ac-Dc and Ac-Ac Power Supplies Revised August 11, 2004	  MK
Performance of household electrical appliances - Clothes washing machines  Clothes dryers	Performance, Energy and water consumption  Labelling requirements  Performance and Energy consumption  Labelling requirements	AS/NZS 2040 Part 1:2005  AS/NZS 2040 Part 2:2005  AS/NZS 2442 Part 1:1996  AS/NZS 2442 Part 1:2000	  MK



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SECTION 17: ACOUSTICS TESTING	<u>Acoustical Tests</u>		
Headphones and earphones	Maximum sound pressure levels	BS EN 50332-1:2000 BS EN 50332-2:2003	MK
Item 6 Chainsaws	Determination of Noise Emission in the Environment	Directive 2000/14/EC SI 1701:2001	MK
Item 9 Compressors		EN ISO 3744:1995 as modified by 2000/14/EC	MK
Item 11 Concrete Motar Mixers		EN ISO 3744:1995 as modified by 2000/14/EC	MK
Item 25 Hedge Trimmers		EN ISO 3744:1995 as modified by 2000/14/EC	MK
Item 32 Lawnmowers		EN ISO 3744:1995 as modified by 2000/14/EC	MK
Item 33 Lawn Trimmers/Lawn Edge Trimmers		EN ISO 3744:1995 as modified by 2000/14/EC	MK
Item 34 Leaf blowers		EN ISO 3744:1995 as modified by 2000/14/EC	MK
Item 35 Leaf collectors		EN ISO 3744:1995 as modified by 2000/14/EC	MK
Item 40 Motor Hoes (< 3 Kw)		EN ISO 3744:1995 as modified by 2000/14/EC	MK
Item 45 Power Generators		EN ISO 3744:1995 as modified by 2000/14/EC	MK
Item 49 Scarifiers		EN ISO 3744:1995 as modified by 2000/14/EC	MK
Item 50 Shreaders/Chippers	EN ISO 3744:1995 as modified by 2000/14/EC	MK	



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SECTION 17: ACOUSTICS TESTING (cont'd)  Item 56 Water Pumps  Item 57 Welding Generators	<u>Acoustical Tests</u> (cont'd)	EN ISO 3744:1995 as modified by 2000/14/EC  EN ISO 3744:1995 as modified by 2000/14/EC	MK  MK



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
SECTION 18: EMC SITE TESTING  As listed on Pages 18 and 19	18.1 Site Surveys		
	18.1.1 Low Frequency Broad Band Magnetic Field 40 Hz to 2 kHz	In-House Test Procedure TP30/Z001	S
	18.1.2 Low frequency Narrow Band Magnetic Field 40 Hz to 10kHz	In-House Test Procedure TP30/Z002	S
	18.1.3 High Frequency Broad and Narrow Band Magnetic Field 10 Hz to 30 MHz (Receiver)	In-House Test Procedure TP30/Z003	S
	18.1.4 High Frequency Broad and Narrow Band Magnetic Field 10 kHz to 30 MHz (Spectrum Analyser)	In-House Test Procedure TP30/Z004	S
	18.1.5 VHF/UHF Broad and Narrow Band Electric Field 30 MHz to 1 GHz	In-House Test Procedure TP30/Z005	S
	18.1.6 Microwave Electric Field 1 GHz to 18 GHz	In-House Test Procedure TP30/Z006	S
	18.1.7 RF Voltage on Mains Supply 10 kHz to 30 MHz	In-House Test Procedure TP30/Z007	S
	18.1.8 Mains Supply Quality Monitoring: Voltage Dips, Interruptions and Transients	In-House Test Procedure TP30/Z008	S



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SECTION 18: (cont'd)  As listed on Pages 18 and 19	18.1 Site Surveys (cont'd)		
	18.2.1 Conducted Emissions 9 kHz to 30 MHz	EN 55011:2007, Amd A1 & A2 EN 55011:1998 EN 55011:1991 EN 55022:2006 EN 55022:1998 EN 55022:1997 as modified by in-house procedure EMC 47	S
	18.2.2 Radiated Emissions 9 kHz to 1 GHz	EN 55011:2007, Amd A1 & A2 EN 55011:1998 EN 55011:1991 EN 55022:2006 EN 55022:1998 EN 55022:1997 as modified by in-house procedures EMC 48 and EMC 54	S
	18.2.3 Conducted RF Immunity 150 kHz to 450 MHz	EN 61000-4-6:1996 as modified by in-house procedures EMC 49	S
	18.2.4 Radiated RF Immunity 450 MHz and 850 to 950 MHz	EN 61000-4-3:1996 as modified by in-house procedures EMC 49	S
	18.2.5 Electrical Fast Transients Up to 2 kV	EN 61000-4-4:1995 as modified by in-house procedures EMC 51	S
	18.2.6 Electrostatic Discharge 15 kV air discharge 8 kV contact discharge	EN 61000-4-2:1995 as modified by in-house procedures EMC 50	S



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SECTION 19: ENVIRONMENTAL TESTING	Environmental Tests (non-explosive items)		
Fire Detection and Fire Alarm Systems	Dry Heat Max Temp: + 180 °C Max chamber size: 1 m x 0.99 m x 1.13 m Max Temp: + 120 °C Max chamber size: 1.99 m x 0.99 m x 0.96 m	BS EN 60068-2-2:1993	CR
	Cold Min Temp: - 75 °C Max chamber size: 1 m x 0.99 m x 1.13 m Min Temp: - 5 °C Max chamber size: 1.99 m x 0.99 m x 0.96 m	BS EN 60068-2-1:2007	CR
	Damp Heat, cyclic Temp range: - 75 °C to + 180 °C Humidity range: 10 % RH to 98 % RH Max chamber size: 1 m x 0.99 m x 1.13 m	BS EN 60068-2-30:2005 Db, Variant 1	CR
	Damp Heat, steady state Temp range: + 10 °C to + 180 °C Humidity range: 10 % RH to 98 % RH Max chamber size: 1 m x 0.99 m x 1.13 m	BS EN 60068-2-78:2001 Cab	CR
	Shock, via shock machine (half sine) Max severity: 5000 g Max drop: 2.1 m Max velocity: 10 m/s	BS EN 60068-2-27:1993 Ea	CR
	Impact Via Spring Hammer 0.5 J	BS EN 60068-2-75 Eh for Ehb	CR



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Testing performed by the Organisation at the locations specified

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
SECTION 19: ENVIRONMENTAL TESTING (cont'd)  Fire Detection & Fire Alarm Systems	Environmental Tests (non-explosive items) (cont'd)  Vibration, Sinusoidal (ambient temperature) Freq range: 20 to 5000Hz Peak thrust: 2.2 kN Max pk/pk displacement: ± 8.9 mm	BS EN 60068-2-6:1995 Fc	CR



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SECTION 20: ENCLOSURES FOR ELECTRICAL EQUIPMENT	<u>Electrical Product Tests</u>		
Enclosures for Electrical Equipment	Ingress Protection Tests	BS EN 60529:1992, Amds 1 and 2	
	IP1X Protected against solid objects greater than 50 mm diameter		CR, MK
	IP2X Protected against solid objects greater than 12 mm diameter		CR
	IP3X Protected against solid objects greater than 2.5 mm diameter		CR, MK
	IP4X Protected against solid objects greater than 1.0 mm diameter		CR, MK, CH
	IP5X Dust Protected Excluding: Objects greater than 570 x 570 x 570 mm (CR) 800 (w) x 800 (D) x 1400 (H) mm (CH)		CR, CH
	IP6X Dust Protected Excluding: Objects greater than 570 x 570 x 570 mm (CR) 800 (w) x 800 (D) x 1400 (H) mm (CH)		CR, CH
	IPX1 Protected against dripping water		CR
	IPX2 Protected against dripping water when tilted up to 15°		CR
IPX3 Protected against spraying water	CR, MK		
IPX4 Protected against splashing water	CR, MK, CH		



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<p>SECTION 20: ENCLOSURES FOR ELECTRICAL EQUIPMENT (cont'd)</p> <p>Enclosures for Electrical Equipment (cont'd)</p>	<p><u>Electrical Product Tests</u> (cont'd)</p> <p>Ingress Protection Tests (cont'd)</p> <p>IPX5 Protected against water jets</p> <p>IPX6 Protected against heavy seas</p> <p>IPX7 Protected against the effects of immersion Excluding: Objects greater than 1200 (h) x 850 (w) x 1000 (l) mm</p> <p>IPX8 Protected against the effects of immersion Excluding: Objects greater than 400 (h) x 850 (w) x 1000 (l) mm</p>	<p>BS EN 60529:1992, Amds 1 and 2 (cont'd)</p>	<p>CR, MK, CH</p> <p>CR, MK, CH</p> <p>CR, MK, CH</p> <p>CR, CH</p>



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
SECTION 21: FIRE DETECTION & FIRE ALARM SYSTEMS:	Performance Tests		
Control and Indicating Equipment for Fire safety	Performance & endurance	EN 54-2:1998, Amds 1 and 2 excluding: Software documentation Software design Storage of programs and data	CR
Sounders	Performance & endurance	EN 54-3:2001 , Amds 1 and 2 excluding: Clause 5.11, SO <sub>2</sub> corrosion	CR
Power supplies for CIE	Performance & endurance	EN 54-4:1998, Amds 1 and 2	CR
Heat Detectors	Performance & endurance	EN 54-5:2001, Amd 1 excluding: Performance measurements Clause 5.13, SO <sub>2</sub> corrosion Clause 6.1, Suffix S detectors Clause 6.2, Suffix R detectors	CR
Smoke Detectors	Performance & endurance	EN 54-7:2001, Amds 1 and 2 excluding: Performance measurements Clause 5.12, SO <sub>2</sub> corrosion Clause 5.18, Fire sensitivity	CR
Manual Call-points	Performance & endurance	EN 54-11:2001, Amd 1, Corrig excluding: Clause 5.13, SO <sub>2</sub> corrosion	CR
CIE for Voice Alarm systems	Performance & endurance	EN 54-16:2008	CR
Isolators	Performance & endurance	EN 54-17:2005 excluding: Software documentation Software design Storage of programs and data SO <sub>2</sub>	CR



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
SECTION 21: FIRE DETECTION & FIRE ALARM SYSTEMS: (cont'd)			
I/P & O/P Devices	Performance & endurance	EN 54-18:2005 excluding: Software documentation Software design Storage of programs and data Clause 5.7, SO <sub>2</sub> corrosion	CR
Fire & Fire warning routing equipment	Performance & endurance	EN 54-21:2006 excluding: Software documentation Software design Storage of programs and data Monitoring of memory contents	CR
Loudspeakers for VACIE	Performance & endurance	EN 54-24:2008 excluding: Clause 5.13, SO <sub>2</sub> corrosion	CR
Radio devices for Fire related products	Performance & endurance	EN 54-25:2008 excluding: Clause 8.3.15, SO <sub>2</sub> corrosion	CR
	Note : For the EN 54 series of standards:-  General Performance and Environmental testing is performed at Cleeve Road - CR  EMC Testing is performed at Imperial Park - IP  Sound Level testing is performed at Milton Keynes - MK		
END			