


# Schedule of Accreditation

issued by

## United Kingdom Accreditation Service

2 Pine Trees, Chertsey Lane, Staines-upon-Thames, TW18 3HR, UK

 <p><b>0047</b></p> <p>Accredited to <b>ISO/IEC 17025:2017</b></p>	<h3>BAE SYSTEMS (Operations) Limited</h3> <p>Issue No: 042    Issue date: 11 April 2019</p>	
	<p><b>Product Development and Qualification</b></p> <p>Marconi Way Rochester Kent ME1 2XX</p>	<p><b>Contact: Mr P J Davison</b></p> <p>Tel: +44 (0)3300 484 291 Fax: +44 (0)1634 203647 E-Mail: paul.j.davison@baesystems.com Website: www.baesystems.com/faradaytestcentre</p>
<p><b>Testing performed at the above address only</b></p>		

### DETAIL OF ACCREDITATION

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
Aerospace Equipment Aerospace Materials Aerospace Structures Cells and Batteries Circuit Breakers and Switches Computers and Peripherals Electrical Cables Electrical/Electronic Components Electrical/Electronic Connectors Electrical/Electronic Products Electro-mechanical Devices Enclosures for Electrical Equipment Engine Components Fans Fire Prevention and Detection Equipment Gas Detectors: Electronic Generators: Electrical Generators: Power Instruments for Measuring Vehicle Instruments - Indicating, Recording Luminaires Magnetic Materials Marine Equipment Measuring Equipment Medical/Dental Equipment Microelectronic Circuits and Components Mining Equipment Components Missile Components Missiles: Guided Missiles: Unguided Motors and Generators, Electrical Office Equipment, Electrical	<p><b>1 EMC TESTING</b></p> <p>1.1 MILITARY EMC TESTS</p> <p>1.1 Conducted Emissions 20 Hz to 1 GHz including exported spikes and Transients (Time Domain)</p>	BS3G100:Part 4:Section 2, 1980  DEF STAN 59-41:1995 Part 3:Issue 5 DCE01, DCE02, DCE03  DEF STAN 59-41:2003 Part 3, Section 3, Issue 1, DCE01.3, DCE02.3, DCE03.1  DEF STAN 59-411 Part 3, Issue 1:2007 Amendment 1:31 January 2008 Part 3, Issue 2: 2014 DCE02.A DCE01.B, DCE02.B, DCE03.B  DEF STAN 61-5:Part 6, Issue 6 Annex B (All sections)  Panavia SP-P-90003, Issue 3 CE01, CE02, CE03, CE04,  Panavia: SP-P-90-010, Issue 1 CE-TOR-1, CE-TOR-2, CE-TOR-3  EFA: SPE-J-000-E-1000, Issue 1, CE-EFA-1, CE-EFA-2, CE-EFA-3  EFA: SPE-J-000-E-1006, Issue 2 CE-EFA-1, CE-EFA-2, CE-EFA-3



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Continued from Page 1  Plugs and Sockets Security Devices and Alarms Sonar Equipment Switchboards: Electrical Telecommunications Equipment Toys	<b>1 EMC TESTING (cont'd)</b>  <b>1.1 MILITARY EMC TESTS (cont'd)</b>  1.1.1 Conducted Emissions 20 Hz to 1 GHz including exported spikes and Transients (Time Domain) (cont'd)	Boeing D6-16050, Rev A to D, 1986  RTCA DO-160 A: Section 21 RTCA DO-160 B: Section 21 RTCA DO-160 C: Section 21 RTCA DO-160 D: Section 21 RTCA DO-160 E: Section 21 RTCA DO-160 F: Section 21 RTCA DO-160 G: Section 21  EUROCAE ED-14E: Section 21 EUROCAE ED-14F: Section 21 EUROCAE ED-14G: Section 21  MIL-STD-461A, Notices 1 to 6 CE01, CE02, CE03, CE04  MIL-STD-461B MIL-STD-461C, Notices 1 and 2 CE01, CE03, CE07  MIL-STD-461D MIL-STD-461E MIL-STD-461F MIL-STD-461G CE101, CE102
	1.1.2 Radiated Emissions 20 Hz to 40 GHz	BS3G100:Part 4:Section 2, 1980  DEF STAN 59-41:1995 Part 3:Issue 5, DRE01, DRE02  DEF STAN 59-41: 2003 Part 3, Section 3, Issue 1 DRE01.3, DRE02.3  DEF STAN 59-411 Part 3, Issue: 1: 2007 Amendment 1: 31 January 2008 Part 3, Issue 2: 2014 DRE01.A DRE02.A DRE01.B, DRE02.B



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As listed on Pages 1 and 2	<p><b>1 EMC TESTING (cont'd)</b></p> <p>1.1 MILITARY EMC TESTS (cont'd)</p> <p>1.1.2 Radiated Emissions 20 Hz to 40 GHz (cont'd)</p>	<p>Panavia SP-P-90003, Issue 3 RE01, RE02</p> <p>Panavia: SP-P-90-010, Issue 1 RE-TOR-1</p> <p>EFA: SPE-J-000-E-1000, Issue 1, RE-EFA-1, RE-EFA-2</p> <p>EFA: SPE-J-000-E-1006, Issue 2 RE-EFA-AGE-1,</p> <p>Boeing D6-16050-4, Rev A to D, 1986</p> <p>RTCA DO-160 A: Section 21 RTCA DO-160 B: Section 21 RTCA DO-160 C: Section 21 RTCA DO-160 D: Section 21 RTCA DO-160 E: Section 21 RTCA DO-160 F: Section 21 RTCA DO-160 G: Section 21</p> <p>EUROCAE ED-14E: Section 21 EUROCAE ED-14F: Section 21 EUROCAE ED-14G: Section 21</p> <p>MIL-STD-461A, Notices 1 to 6 MIL-STD-461B MIL-STD-461C, Notices 1 and 2 RE01, RE02</p> <p>MIL-STD-461D MIL-STD-461E MIL-STD-461F MIL-STD-461G RE101, RE102</p>



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As listed on Pages 1 and 2	<p><b>1 EMC TESTING (cont'd)</b></p> <p>1.1 MILITARY EMC TESTS (cont'd)</p> <p>1.1.3 Compass Safe Distance</p>	<p>BS 3G100, Part 2, Section 2: 1972</p> <p>RTCA DO-160 D: Section 15 RTCA DO-160 E: Section 15 RTCA DO-160 F: Section 15 RTCA DO-160 G: Section 15</p> <p>EUROCAE ED-14E: Section 15 EUROCAE ED-14F: Section 15 EUROCAE ED-14G: Section 15</p> <p>SP-P-90-010 Issue 1 RE-TOR-CSD</p>
	<p>1.1.4 Conducted Susceptibility DC to 400 MHz</p>	<p>BS3G100:Part 4:Section 2, 1980</p> <p>DEF STAN 59-41: 1995 Part 3, Issue 5 DCS01, DCS02, DCS03</p> <p>DEF STAN 59-41: 2003 Part 3, Section 3, Issue 1 DCS01.3, DCS02.3, DCS03.3</p> <p>DEF STAN 59-411:2007 Part 3, Issue: 1: 2007 Amendment 1: 31 January 2008 Part 3, Issue: 2: 2014 DCS02.A DCS01.B, DCS02.B, DCS03.B</p> <p>Panavia SP-P-90003, Issue 3, CS01, CS02</p> <p>Panavia: SP-P-90-010, Issue 1 CS-TOR-1, CS-TOR-2</p> <p>EFA: SPE-J-000-E-1000, Issue 1, CS-EFA-1, CS-EFA-2</p> <p>EFA: SPE-J-000-E-1006, Issue 2 CS-EFA-1, CS-EFA-AGE-2</p> <p>Boeing D6-16050-4, Rev A to D, 1986</p>



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As listed on Pages 1 and 2	<b>1 EMC TESTING (cont'd)</b>  1.1 MILITARY EMC TESTS (cont'd)  1.1.4 Conducted Susceptibility DC to 400 MHz (cont'd)	RTCA DO-160 A RTCA DO-160 B RTCA DO-160 C RTCA DO-160 D RTCA DO-160 E RTCA DO-160 F RTCA DO-160 G Sections 18 19 & 20  EUROCAE ED-14E EUROCAE ED-14F EUROCAE ED-14G Sections 18 19 & 20  MIL-STD-461A & Notices 1 to 6 CS01, CS02 MIL-STD-461B & Notices 1 and 2 MIL-STD-461C CS01, CS02, CS09 MIL-STD-461D MIL-STD-461E MIL-STD-461F MIL-STD-461G CS101, CS109, CS114 MIL-STD-461A & Notices 1 to 6
	1.1.5 Conducted Susceptibility imported spikes, surges and transients  (Damped Sinusoids limited to 40A And 4kV, 7kHz to 100MHz)  (No Phase Control on Type 2 Transient for DEF STAN)	DEF STAN 59-41: 1995 Part 3, Issue 5 DCS04, DCS05, DCS06  DEF STAN 59-41: 2003 Part 3, Section 3, Issue 1 DCS04.3, DCS05.3, DCS06.3  DEF STAN 59-411 Part 3, Issue 1: 2007 & Amendment 1: 31 January 2008 Part 3, Issue 2, 2014 DCS04.B, DCS05.B, DCS06.B  DEF STAN 61-5:Part 6, Issue 6 Annex B (All sections)



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As listed on Pages 1 and 2	<p><b>1 EMC TESTING (cont'd)</b></p> <p>1.1 MILITARY EMC TESTS (cont'd)</p> <p>1.1.5 Conducted Susceptibility imported spikes, surges and transients (cont'd)</p>	<p>Panavia SP-P-90003, Issue 3, CS1</p> <p>Panavia: SP-P-90-010, Issue 1 CS-TOR-4</p>
		<p>EFA: SPE-J-000-E-1000, Issue 1, EFA: SPE-J-000-E-1006, Issue 2 CS-EFA-4</p> <p>RTCA DO-160 A: Section 17 RTCA DO-160 B: Section 17 RTCA DO-160 C: Section 17 RTCA DO-160 D: Section 17 RTCA DO-160 E: Section 17 RTCA DO-160 F: Section 17 RTCA DO-160 G: Section 17</p> <p>EUROCAE ED-14E: Section 17 EUROCAE ED-14F: Section 17 EUROCAE ED-14G: Section 17</p> <p>MIL-STD-461A &amp; Notices 1 to 6 MIL-STD-461B MIL-STD-461C &amp; Notices 1 and 2 CS06</p> <p>MIL-STD-461D MIL-STD-461E MIL-STD-461F MIL-STD-461G CS115</p>



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As listed on Pages 1 and 2	<p><b>1 EMC TESTING (cont'd)</b></p> <p>1.1 MILITARY EMC TESTS</p> <p>1.1.6 Power Supply DC to 1.2kHz</p> <p>AC specification 18kVA or 6kVA/phase maximum 144A/single, 48A/3 phase r.m.s</p> <p>DC specification 9kW or 3kW 3 phase DC 424V/36A or 212V/72A</p> <p>Electrical Characteristics of A350 AC and DC equipment</p>	<p>BS 3G100, Part 3: 1979</p> <p>Panavia SP-P-90001, Issue 5 &amp; 6</p> <p>EFJ-SP-EFA-240-2036, Issue 3, March 1988, Appendix A</p> <p>RTCA DO-160 A: Section 16 RTCA DO-160 B: Section 16 RTCA DO-160 C: Section 16 RTCA DO-160 D: Section 16 RTCA DO-160 E: Section 16 RTCA DO-160 F: Section 16 RTCA DO-160 G: Section 16</p> <p>EUROCAE ED-14E: Section 16 EUROCAE ED-14F: Section 16 EUROCAE ED-14G: Section 16</p> <p>MIL-STD-704A MIL-STD-704B MIL-STD-704C MIL-STD-704D MIL-STD-704E MIL-STD-704F</p> <p>ABD0100.1.8.1 issue C Excludes test 104 for all supply types</p>



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As listed on Pages 1 and 2	<p><b>1 EMC TESTING (cont'd)</b></p> <p>1.1 MILITARY EMC TESTS (cont'd)</p> <p>1.1.7 Radiated Susceptibility DC to 40 GHz</p> <p>Field strength dependent on EUT Size and frequency range</p> <p>10kHz to 200MHz up to 400 V/m</p> <p>200MHz to 1GHz up to 800 V/m</p> <p>1GHz to 18GHz up to 5000 V/m</p> <p>18GHz to 40GHz up to 200 V/m</p> <p>(Magnetic and Electric field)</p>	<p>DEF STAN 59-41: 1995 Part 3, Issue 5 DRS01, DRS02, DMFS01</p> <p>DEF STAN 59-41: 2003 Part 3, Section 3, Issue 1 DRS01.3, DRS02.3, DRS03.3</p> <p>DEF STAN 59-411 Part 3, Issue 1: 2007 Amendment 1: 31 January 2008 Part 3, Issue 2: 2014 DRS01.A, DRS02.A DRS01.B, DRS02.B, DRS03.B</p> <p>Panavia SP-P-90003, Issue 3, RS1, RS03</p> <p>Panavia: SP-P-90-010, Issue 1 RS-TOR-1, RS-TOR-3</p> <p>EFA: SPE-J-000-E-1000, Issue 1, RS-EFA-1, RS-EFA-2, RS-EFA-3</p> <p>EFA: SPE-J-000-E-1006, Issue 2 RS-EFA-AGE-3</p> <p>Boeing D6-16050-4 Revision A to D</p> <p>RTCA DO-160 A: Section 20 RTCA DO-160 B: Section 20 RTCA DO-160 C: Section 20 RTCA DO-160 D: Section 20 RTCA DO-160 E: Section 20 RTCA DO-160 F: Section 20 RTCA DO-160 G: Section 20</p> <p>EUROCAE ED-14E: Section 20 EUROCAE ED-14F: Section 20 EUROCAE ED-14G: Section 20</p>





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As listed on Pages 1 and 2	<b>1 EMC TESTING (cont'd)</b>  1.1 MILITARY EMC TESTS (cont'd)  1.1.7 Radiated Susceptibility DC to 40 GHz (cont'd)	MIL-STD-461A & Notices 1 to 6 MIL-STD-461B MIL-STD-461C & Notices 1 and 2 RS01, RS02, RS03  MIL-STD-461D MIL-STD-461E MIL-STD-461F MIL-STD-461G RS101. RS103
	1.1.8 ESD  (Limited to 32kV maximum)	DEF STAN 59-41: 1995 Part 3, Issue 5 DCS10  DEF STAN 59-41: 2003 Part 3, Section 3, Issue 1 DCS10  DEF STAN 59-411 Part 3, Issue 1: 2007 Amendment 1: 31 January 2008 Part 3 Issue 2, 2014 DCS10  MIL-STD-461G CS118  EFA: SPE-J-000-E-1000, Issue 1, EFA: SPE-J-000-E-1006, Issue 2 ESD-EFA-1  RTCA DO-160 D: Section 25 RTCA DO-160 E: Section 25 RTCA DO-160 F: Section 25 RTCA DO-160 G: Section 25  EUROCAE ED-14E: Section 25 EUROCAE ED-14F: Section 25 EUROCAE ED-14G: Section 25



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	1.1.9 EMP 7 kHz to 100 MHz  (Damped Sinusoids limited to 40A And 4kV, 7kHz to 100MHz)	DEF STAN 59-41: 1995 Part 3, Issue 5 DCS08  DEF STAN 59-41: 2003 Part 3, Section 3, Issue 1 DCS08.3  DEF STAN 59-411 Part 3, Issue 1: 2007 Amendment 1: 31 January 2008 Part 3 Issue 2, 2014 DCS08.B  EFA: SPE-J-000-E-1000, Issue 1, NEMP-EFA-1  MIL-STD-461C & Notices 1 and 2 CS11  MIL-STD-461D MIL-STD-461E MIL-STD-461F MIL-STD-461G CS116
	1.2 CIVIL EMC TESTS  1.2.1 Conducted Emissions 150 kHz to 30 MHz	EN 55011:2009+A1:2010
	1.2.2 Harmonic Current emissions Measurements up to 40 <sup>th</sup> Harmonic, 13A max	EN 61000-3-2:2006 EN 61000-3-2:2014
	1.2.3 Voltage Fluctuations and Flicker 230V, 13A Pst, Plt, dT, dmax, dc	EN 61000-3-3:2008 EN 61000-3-3:2013
	1.2.4 Electrostatic discharge Up to 30 kV air Up to 30 kV contact	EN 61000-4-2:2009



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As listed on Pages 1 and 2	<b>1 EMC TESTING (cont'd)</b>	
	1.2 CIVIL EMC TESTS	
	1.2.5 Electrical Fast transients Up to 4.8 kV	EN 61000-4-4:2012
	1.2.6 Surges 1.2/50 µs up to 4.4 kV	EN 61000-4-5:2006
	1.2.7 Conducted disturbance Immunity 150 kHz to 80 MHz Up to 10 Vrms	EN 61000-4-6:2009 EN 61000-4-6:2014
	1.2.8 Power Frequency immunity Up to 100 A/m	EN 61000-4-8:2010
	1.2.9 Voltage Dips and Interruptions AC 230V up to 16A, 230 A inrush current	EN 61000-4-11:2004
	1.2.10 Radiated Susceptibility 80 MHz to 2.7 GHz	EN 61000-4-3:2006+A1:2008+ A2:2010



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	<p>FACILITIES FOR EMC TESTING</p> <p>Nine electromagnetically screened rooms.</p> <p>ETF 10: Fully lined (ferrite &amp; Absorber) Screened Enclosure Length 8.58m, Width 7.36m and Height 4.2m. Door size: ETL 11: Screened Enclosure: 3.75m x 3.09m x 3.0m. ETL 12: Screened Enclosure: 4.97m x 3.09m x 3.0m ETL 13: Screened Enclosure: 3.73m x 3.09m x 3.0m</p> <p>ETL 20: Fully lined (ferrite &amp; Absorber) Screened Enclosure Length 8.58m, Width 7.36m and Height 4.2m. Door size: ETL 21: Screened Enclosure: 3.75m x 3.09m x 3.0m. ETL 22: Screened Enclosure: 4.97m x 3.09m x 3.0m</p> <p>ETL 30: Semi-lined (ferrite &amp; Absorber) Screened Enclosure Length 7.34m, Width 5.54m and Height 4.5m. ETL 31: Screened Enclosure: 3.75m x 3.10m x 3.0m</p> <p>Two external ground planes</p> <p>Power supplies include: 20 kVA, 3 phase, 400 Hz (200V phase to phase) 30 kVA, 3 phase, 50 Hz (415V phase to phase) 3 kVA, single phase, variable frequency 1 kVA, 3 phase, variable frequency 240V, 13A, single phase 50 Hz 28V, 100A DC Other DC voltages available</p> <p>Compressed air supply up to 100psi Water supply at mains pressure Exhaust venting in one screened room only All rooms air conditioned</p> <p>Note: Tests may be carried out to other specifications which are derived from, or are amalgamations of, those specifications on the Schedule.</p>	



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Aerospace Equipment Aerospace Structures Cells and Batteries Coatings: Metallic Computers and Peripherals Domestic Appliances: Electrical Domestic Appliances: Non-Electrical Electrical/Electronic Components Electrical/Electronic Connectors Electrical/Electronic Products Electrical Cables Electro-mechanical Devices Engine Components Fasteners Fire Fighting and Detection Equipment Generators: Electrical Instruments for Measuring Vehicle Instruments - Indicating, Recording Marine Equipment Metallic Coatings/Treatment Measuring Equipment Mechanical Products Medical/Dental Equipment Metallic Coatings/Treatment Microelectronic Circuits and Components Mining Plant and Equipment Missile Components Missiles: Guided Missiles: Unguided Motor Vehicle Accessories and Components Motors, Electrical Packages and Packaging Material Pipes and Pipeline Products Plugs and Sockets: Electrical Power Supplies: Electrical Printed Circuit Boards Radar Equipment Radio and TV Equipment Satellites and Sub-assemblies Security Devices and Alarms Sonar Equipment Structural Components and Fixings Switchboards: Electrical Weapons and Sub-assemblies	<p><b>2 ENVIRONMENTAL TESTS</b></p> <p>2.1 Drop and Topple/Free Fall            Max mass: 100 kg            Max size: 90 cm x 90 cm</p>	BS 2011:Ec:1977 (IEC 68-2-31:1993) TR 2130:Issue B:1993 DEF-STAN 07-55:1975 Test A9 DEF-STAN 00-35: Issue 3 and 4 Test M4 MIL-STD-810 versions B to G Method 516 and STANAG 4370 equivalent BS EN 60068-2-31:2008 BS EN 60068-2-32:1993
	<p>2.2 Bump            Max mass: 750 kg            Max size: 1 x 1 x 1 m</p>	BS 2011:Eb:1987 (IEC 68-2-29:1993) TR 2130:Issue B:1993 DEF-STAN 07-55:1975 Test A5 DEF-STAN 00-35: Issue 3 and 4 Test M12 BS EN 60068-2-29:1993
	<p>2.3 (a) Shock on Vibrator            Max mass: 750 kg            Max size: 1 x 1 x 1 m            Peak thrust: 118.6 kN            Max level: 100g            Max displacement: 63.5mm            Slip table size: 0.9 x 0.9 m</p>	BS 2011:Ea:1988 (IEC 68-2-27:1993) RIA 20, Issue 2:1994 TR 2130:Issue B:1993 DEF-STAN 07-55:1975 Test A3 RTCA DO-160 versions A to G Section 7 and EUROCAE ED-14 equivalent Tests M3 and M6 MIL-STD-810 versions B to G Method 516 and STANAG 4370 equivalent



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As listed on Page 13	<p><b>2 ENVIRONMENTAL TESTS</b> (cont'd)</p> <p>2.3 (b) Shock on Shock machine Half Sine Only Max mass: 454 kg Specimen mounting area: 0.9 x 0.9 m Max acceleration: 600g Max pulse duration: 80 ms Max velocity change: 7.62 m/sec</p>	<p>BS 2011:Ea:1988 (IEC 68-2-27:1993) RIA 20:Issue 2:1994 TR 2130:Issue B:1993 DEF-STAN 07-55:1975 Test A3 MIL-STD-810 B and C Method 516 and STANAG 4370 equivalent DEF-STAN 00-35:Issue 3 and 4 Test M3 BS EN 60068-2-27:2009 NES 1004:Issues 1 and 2 Data Sheet 28</p>
	<p>2.4 Vibration: Sinusoidal at ambient temperature only Frequency range: 3 Hz to 2.5 kHz Peak thrust: 57 kN Max displacement: 63.5mm Max mass: 750 kg Max size: 1 x 1 x 1 m Slip table size: 0.9 x 0.9 m</p>	<p>BS 2011:Fc:1983 (IEC 68-2-6:1996) BS3G100:Part 2:Section 3: Sub-section 3.1:1969(1983) TR 2130:Issue B:1993 DEF-STAN 07-55:1975 Test A1 NES 1004:Issues 1 and 2 Data Sheet 25 RTCA DO-160 versions A to G Section 8 and EUROCAE ED-14 equivalent MIL-STD-781C:1977 MIL-STD-810 versions B to G Method 514 and STANAG 4370 equivalent DEF-STAN 00-35: Issue 3 and 4 Test M1 BS EN 60068-2-6:2008</p>



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As listed on Page 13	<p><b>2 ENVIRONMENTAL TESTS</b> (cont'd)</p> <p>2.5 Vibration: Random at ambient temperature only Frequency range: 3 Hz to 2.5 kHz RMS thrust: 66 kN Max displacement: 63.5mm Max mass: 750 kg Max size: 1 x 1 x 1 m Slip table size: 0.9 x 0.9 m</p>	<p>BS 2011:Fd:1973 (1984) (IEC 68-2-34:1973) BS3G100:Part 2:Section 3: Sub-section 3.1:1969(1983) RIA 20:Issue 2:1994 TR 2130:Issue B:1993 DEF-STAN 07-55:1975 Test A2 DEF-STAN 00-35: Issue 3 and 4 Test M1 RTCA DO-160 versions A to G Section 8 and EUROCAE ED-14 equivalent MIL-STD-810 versions B to G Method 514 and STANAG 4370 equivalent BS EN 60068-2-64:2008</p>
	<p>2.6 Mixed Mode / Gunfire Vibration - at ambient temperature only Fixed and Swept Sine Tones or Fixed and Swept Random Narrow Bands on Broadband Random. Frequency range: 3 Hz to 2.5 kHz RMS thrust: 66 kN Max displacement: 63.5mm Max mass: 750 kg Max size: 1 x 1 x 1 m Slip table size: 0.9 x 0.9 m</p>	<p>MIL-STD-810 versions B to G Methods 514 and 519 and STANAG 4370 equivalent DEF-STAN 00-35: Issue 3 and 4 Test M1 RTCA DO-160 versions A to G Section 8 and EUROCAE ED-14 equivalent</p>



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As listed on Pages 12 and 13	<p><b>2 ENVIRONMENTAL TESTS</b> (cont'd)</p> <p>2.7 Acceleration - Steady State Max accel: 30 g at 1 m Max radius: 1.1 m Max mass: 42 kg Max size: 0.55 x 0.55 x 0.55 m</p>	<p>BS 2011:Ga:1984 (IEC 68-2-7:1983) BS3G100:Part 2:Section 3: Sub-section 3.6 BS G 260:1996 (ISO 2669:1995) DEF-STAN 07-55:1975 Test A6 BS EN 60068-2-7:1993 RTCA DO-160 versions A to G Section 7, Procedure 2 and EUROCAE ED-14 equivalent BS G 260:1996 ISO 2669:1995 MIL-STD-810 versions B to G Method 513 and STANAG 4370 equivalent DEF-STAN 00-35:Issue 3 and 4 Test M13</p>
	<p>2.8 Low Temperature Min Temperature: -60°C Max Rate of Change 10°C/min Max chamber size: 1.5 x 1.75 x 2.2 m</p>	<p>BS 2011:Ab:1980 (IEC 68-2-1:1990) TR 2130:Issue B:1993 BS EN 60068-2-1:2007 RTCA DO-160 versions A to G Section 4 and EUROCAE ED-14 equivalent DEF-STAN 07-55:1975 Tests B4, B5 NES 1004:Issues 1 and 2 Data Sheet 8 MIL-STD-810 versions B to G Method 502 and STANAG 4370 equivalent DEF-STAN 00-35: Issue 3 and 4 Test CL4 and CL5</p>





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As listed on Page 13	<p><b>2 ENVIRONMENTAL TESTS</b> (cont'd)</p> <p>2.9 High Temperature Max Temperature: +140°C Max Rate of Change 10°C/min Max chamber size: 1.5 x 1.75 x 2.2 m</p>	<p>BS 2011:Bb:1977 (IEC 68-2-2:1974) BS 2011:Bd:1977 (IEC 68-2-2:1974) TR 2130:Issue B:1993 BS EN 60068-2-2:2007 RTCA DO-160 versions A to G Section 4 and EUROCAE ED-14 equivalent DEF-STAN 07-55:1975 Tests B4, B5 NES 1004:Issues 1 and 2 Data Sheet 7 MIL-STD-810 versions B to G Method 501 and STANAG 4370 equivalent DEF-STAN 00-35: Issue 3 and 4</p>
	<p>2.10 Thermal Cycling, Temperature Variation and Thermal Shock Max Temp: +140°C Min Temp: -60°C Max Rate of Change 10°C/min Max chamber size: 1.5 x 1.75 x 2.2 m Manual Transfer Only Above 10°C/Minute is by manual transfer only</p>	<p>BS3G100:Part 2:Section 3: Sub-section 3.15:1978 BS EN 60068-2-14:2009 RTCA DO-160 versions A to G Section 5 and EUROCAE ED-14 equivalent DEF-STAN 07-55:1975 Test B14 DEF-STAN 00-35: Issue 3 and 4 Test CL14 MIL-STD-810 versions B to G Method 503 and STANAG 4370 equivalent</p>



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As listed on Page 13	<p><b>2 ENVIRONMENTAL TESTS</b> (cont'd)</p> <p>2.11 Damp Heat (Humidity) Max temp: +75°C Max RH: 95% Tolerance on RH: = ±5% Max chamber size: 1.5 x 1.75 x 2.2 m</p>	<p>BS 2011:Ca: 1977 (IEC 68-2-3:1969) BS 2011:Cb:1990 (IEC 68-2-56:1988) BS 2011:Da:1977 (IEC 68-2-4:1960) BS 2011:Db:1981 (IEC 68-2-30:1980) BS3G100:Part 2:Section 3: Sub-section 3.7 TR 2130:Issue B:1993 BS EN 60068-2-30:2005 BS EN 60068-2-38:2009 RTCA DO-160 versions A to G Section 6 and EUROCAE ED-14 equivalent DEF-STAN 07-55:1975 Tests B6, B7 and B8 DEF-STAN 00-35: Issue 3 and 4 Test CL6 NES 1004:Issues 1 and 2 Data Sheet 9 MIL-STD-810 versions B to G Method 507 and STANAG 4370 equivalent</p>



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As listed on Page 13	<p><b>2 ENVIRONMENTAL TESTS</b> (cont'd)</p> <p>2.12 Altitude (Low Pressure) Max Altitude: 30 mb (80000 ft) Max Temp: +140°C Min Temp: -60°C Max chamber size: 1 x 1 x 1.5 m</p>	<p>BS 2011:Z/AM:1977 (IEC 68-2-40:1976) BS 2011:Z/BM:1977 (IEC 68-2-41:1976) BS3G100:Part 2:Section 3: Sub-section 3.2:1970(1983) BS EN 60068-2-13:1999 BS EN 60068-2-40:2000 BS EN 60068-2-41:2000 RTCA DO-160 versions A to G Paragraph 4.6.1 and EUROCAE ED-14 equivalent DEF-STAN 07-55:1975 Tests B11 and B12 Part 2:Section 2/1:Test B21 NES 1004:Issues 1 and 2 Data Sheet 14 DEF-STAN 00-35: Issue 3 and 4 Tests CL11, CL12, CL20 and CL21 MIL-STD-810 versions B to G Method 500 and STANAG 4370 equivalent</p>
	<p>2.13 Rapid and Explosive Decompressions Max Altitude: 30 mb (80000 ft) Max Temp: +60°C Min Temp: -40°C Max chamber size: 1 x 1 x 1.5 m (Rapid) 0.45 x 0.45 x 0.75 (Explosive) 0.25 x 0.38 x 0.7 (Explosive less than 70ms)</p>	<p>BS3G100:Part 2:Section 3: Sub-section 3.4:1972 RTCA DO-160 versions A to G Paragraph 4.6.2 and EUROCAE ED-14 equivalent SP-P-90033:Issue 7:para 6.19 DEF-STAN 00-35: Issue 3 and 4 Test CL9 MIL-STD-810 versions B to G Method 500 and STANAG 4370 equivalent</p>



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As listed on Page 13	<p><b>2 ENVIRONMENTAL TESTS</b> (cont'd)</p> <p>2.14 Over-Pressure Test ambient temperature only Max size: 0.9 m x 0.9 m dia Max pressure: 4.1 bar</p>	<p>RTCA DO-160 versions A to G Paragraph 4.6.3 and EUROCAE ED-14 equivalent DEF-STAN 07-55:1975 Part 2:Section 2:Test B15 Excluding severity F NES 1004:Issues 1 and 2 Excluding severity F DEF-STAN 00-35: Issue 3 and 4 Test CL15 excluding severity F</p>
	<p>2.15 Combined Temperature/ Altitude/Humidity Max Altitude: 15 mb (95000 ft) Max Temp: +140°C Min Temp: -60°C Max RH: 95% Max chamber size: 1 x 1 x 1.5 m</p>	<p>BS 2G 100-2:1962 BS EN 60068-2-39:1999 MIL-STD-810 B and C Method 518 and STANAG 4370 equivalent MIL-STD-810 versions D to G Method 520 (without vibration) and STANAG 4370 equivalent</p>
	<p>2.16 Corrosion - Salt Max temp: 80°C Chamber size: 0.9 x 1.2 x 0.85 m</p>	<p>BS 2011:Ka:1982 (IEC 68-2-11:1981) BS 2011:Kb:1987 (IEC 68-2-52:1996) TR 2130:Issue B:1993 ASTM B117-90:1990 BS EN 60068-2-11:1999 BS EN 60068-2-52:1996 RTCA DO-160 versions A to G Section 14 and EUROCAE ED-14 equivalent DEF-STAN 07-55:1975 Test C2, C5 DEF-STAN 00-35: Issue 3 and 4 Test CN2 NES 1004:Issues 1 and 2 Data Sheet 21 MIL-STD-810 versions B to G Method 509 and STANAG 4370 equivalent</p>



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As listed on Page 13	<b>2 ENVIRONMENTAL TESTS</b> (cont'd)  2.17 Fine Mist	DEF-STAN 07-55, Part 2, Section 4/1, Test D2
	2.18 Rain (Blowing and Driving) Wind speed: 18 m/sec (non variable) Max rainfall: 12 inch/hour Exposure area (exit of wind tunnel) 0.5 x 0.5 m	BS 2011:Rb:1990 (IEC 68-2-18:1989) BS 4999:Part 105:1988 Table IV, Test No 6 BS 5490:1977 Paras 8.5 and 8.6 TR 2130:Issue B:1993 BS EN 60529:1991 Paras 14.2.5 and 14.2.6 BS EN 60068-2-18:2001 RTCA DO-160 versions A to G Paragraph 10.3.2 and EUROCAE ED-14 equivalent DEF-STAN 07-55:1975 Test D3 NES 1004:Issues 1 and 2 Data Sheet 18 DEF-STAN 00-35: Issue 3 and 4 Test CL27 MIL-STD-810 versions B to G Method 506, Procedure I and STANAG 4370 equivalent
	2.19 Water-Proofness (Drip) Chamber max size: 1 m x 1.2 m	BS 2011:Ra:1990 (IEC 68-2-18:1989) BS3G100:Part 2:Section 3: Sub-section 3.11:1973 BS EN 60068-2-18:2001 RTCA DO-160 versions A to G Paragraphs 10.3.1 and 10.3.2 and EUROCAE ED-14 equivalent DEF-STAN 07-55:1975 Test D4 DEF-STAN 66.31:para 8.17 DEF-STAN 00-35: Issue 3 and 4 Test CL28 MIL-STD-810 versions B to G Method 506, Procedure III and STANAG 4370 equivalent



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As listed on Page 13	<p><b>2 ENVIRONMENTAL TESTS</b> (cont'd)</p> <p>2.20 Immersion Max size: 0.9 m x 0.9 m dia Max depth: 10 m (pressurised equivalent)</p>	<p>BS 2011:Rc1, Rc 2:1990 (IEC 68-2-18:1989) TR 2130:Issue B:1993 BS EN 60068-2-18:2001 DEF-STAN 07-55:1975 Test D5 Excluding severity G DEF 133:1963:para 15.3 Excluding severity G DEF-STAN 00-35: Issue 3 and 4 Test CL29 excluding severity G MIL-STD-810 versions B to G Method 512 and STANAG 4370 equivalent</p>
	<p>2.22 Fluid Contamination Max temp: 70°C Chamber max size: 0.75 m x 0.75 m x 0.5 m</p> <p>Fluid limited to non-toxic or Non-Hazardous materials</p>	<p>BS3G100:Part 2:Section 3: Sub-section 3.12:1991 DEF-133:Feb 1963:para 14.3 RTCA DO-160 versions A to G Section 11 and EUROCAE ED-14 equivalent DEF-STAN 00-35: Issue 3 and 4 Test CN4 MIL-STD-810 F and G Method 504 and STANAG 4370 equivalent</p>
	<p>2.23 Icing</p>	<p>RTCA DO-160 versions A to G Section 24, Categories A, B, C and EUROCAE ED-14 equivalent DEF-STAN 00-35: Part 3 Issue 4 Test CL10, Procedure A MIL-STD-810 versions B to G Method 521</p>



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	<p><b>Environmental Testing:</b></p> <p>Power supplies include:</p> <ul style="list-style-type: none"><li>20 kVA, 3 phase, 400 Hz (200V phase to phase rotary generator)</li><li>30 kVA, 3 phase, 50 Hz (415V phase to phase)</li><li>18 kVA, single phase, variable frequency</li><li>6 kVA, 3 phase, variable frequency</li><li>240V, 13A, single phase 50 Hz</li><li>28V, 100A DC</li><li>Other DC voltages available</li></ul> <p>Compressed air supply up to 100psi Water supply at mains pressure</p> <p>Note:</p> <p>Tests may be carried out to other specifications which are derived from, or are amalgamations of, those specifications on this Schedule.</p>	
END		