


Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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

 <p>0461</p> <p>Accredited to ISO/IEC 17025:2005</p>	<h3>Leonardo MW Limited</h3> <p>Issue No: 040 Issue date: 08 January 2019</p>	
	<p>2 Crewe Road North Crewe Toll Edinburgh EH5 2XS</p>	<p>Contact: Mr C Marshall Tel: +44 (0)131 343 4242 Fax: +44 (0)131 343 5420 E-Mail: chris.marshall@leonardocompany.com Website: www.environmentaltestlab.co.uk</p>
<p>Testing performed at the above address only</p>		

DETAIL OF ACCREDITATION

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
<p>Address:</p> <p>Leonardo MW Limited EED Department 2 Crewe Road North Edinburgh EH5 2XS</p> <p>Leonardo MW Limited EMC Department 2 Crewe Road North Edinburgh EH5 2XS</p>	<p>Contacts for EMC and Environmental Testing:</p> <p>Local contact:</p> <p>Mr C McCrory Tel: +44 (0)131-343 4300 Fax: +44 (0)131-343 5420 Email: colin.mccrory@leonardocompany.com</p> <p>Mr S Mcneill Tel: +44 (0)131-343 5667 Fax: +44 (0)131-343 5420 Email: Scott.mcneill@leonardocompany.com</p>	<p>Activity:</p> <p>Environmental Testing</p> <p>EMC Testing</p>
<p>Aerospace components and equipment Aerospace materials Aerospace structures Avionics equipment and structures Batteries and cells Circuit breakers and switches Coatings: metallic Composite materials Computers and peripherals Display systems Domestic appliances Electrical cables Electrical/electronic components Electrical/electronic connectors Electro-mechanical devices Electro-optics equipment</p>	<p>EMC TESTS</p> <p>1 Conducted Emissions: 20 Hz to 150 MHz</p>	<p>MIL STD 461E CE101, CE102 MIL STD 461F CE101, CE102 DEF STAN 59-41:Part 3, Issue 4 and Issue 5 DEC01, DCE02 and DCE03</p> <p>EFA SPE-J-000-E-1000, Issue 1 CE-EFA-1, CE-EFA-2 and CE-EFA-3</p> <p>RTCA DO-160B, Section 21 EUROCAE ED-14/RTCA DO-160C Section 21 RTCA DO-160D Section 21</p>



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<p>Continued from Page 1</p> <p>Fans</p> <p>Fuses: weapons Generators: electric Generators: power Instruments: indicating/recording Insulating material: electric Lamps: electric Laser equipment Luminaires Magnetic materials Marine equipment Measuring equipment Micro-electronic circuits and components Microwave components Missile components Missiles: guided Missiles: unguided Motors: electric Navigation systems Office equipment Optical/photometric equipment Packaging Plugs and sockets Power supplies Printed circuit boards Radar equipment Radio and TV equipment Satellites and sub-assemblies Security devices and alarms Sonar equipment Telecommunication equipment Weapons and sub-assemblies</p> <p>Other miscellaneous assemblies similar to the above</p>	<p>EMC TESTS (cont'd)</p> <p>2 Conducted Susceptibility: DC to 400 MHz</p> <p>3 Radiated Emission: 20 Hz to 18 GHz</p>	<p>MIL STD 461D/462D MIL STD 461E CS101(DC Only), CS114 MIL STD 461F CS101(DC Only), CS114</p> <p>RTCA DO-160B Section 17 (Cat A), Section 18 and Section 20</p> <p>EUROCAE ED-14/RTCA DO-160C Section 17 (Cat A), Section 18 and Section 20</p> <p>RTCA DO 160D Section 17, Section 18 and Section 20</p> <p>MIL STD 461 D & E RE 101 and RE 102 MIL STD 461F RE101, RE102</p> <p>DEF STAN 59-41:Part 3:Issue 4 and Issue 5 DRE01 and DRE02</p> <p>EFA SPE-J-000-E-1000, Issue 1 RE-EFA-1</p> <p>RTCA DO-160B, Section 21</p> <p>EUROCAE ED-14/RTCA DO-160C Section 21</p>



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As listed on Pages 1 and 2	<p>EMC TESTS (cont'd)</p> <p>4 Radiated Susceptibility: DC to 18 GHz Typical E-Field Intensity Capability 14 kHz to 18 GHz 50 V/m</p>	<p>Susceptibility to Radiated Fields RS02 and RS03 RS01 and RS03</p> <p>MIL STD 461 D & E RS 101 and RS 103 MIL STD 461F RS101, RS103</p> <p>DEF STAN 59-41:Part 3:Issue 4 and Issue 5 DRS01, DRS02 and DMFS01</p> <p>EFA SPE-J-000-E-1000, Issue 1 RS-EFA-1, RS-EFA-2 and RS-EFA-3</p> <p>EUROCAE ED-14/RTCA DO-160C Section 19 and Section 20</p> <p>DO 160D Section 19 (Cat A, B and Z)</p>
	<p>5 Electrical Surge Testing:</p> <p>AC 3 Phase 9 kVA 0 to 250 V 20 Hz to 2 kHz Minimum duration: 10 ms</p> <p>DC 0 to 60 V, 25 A Minimum duration: 1 ms</p> <p>(Higher levels can be arranged up to 100 V, 40 A maximum)</p>	<p>EFJ-SP-EFA-240-2036:Issue 3 MIL STD 704 Series</p> <p>RTCA DO-160B, Section 16 EUROCAE ED-14/RTCA DO-160C, Section 16</p> <p>Plus specifications derived or amalgamated from those listed above</p>



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As listed on Pages 1 and 2	<p>EMC TESTS (cont'd)</p> <p>Facilities:</p> <p>Screened enclosure information: 8.1 m x 5.4 m x 3.5 m high with control room 2.5 m x 5.4 m x 3.5 m high</p> <p>The Test Room is fully lined with a combination of Ferrite and Radiation Absorber Material</p> <p>Maximum Size of EUT: All rooms have door sizes 2 m x 0.9 m, the maximum length of test sample is 4.0 m</p> <p>Power Supplies: Supplies to screened enclosures are: 240 V, 50 Hz, 30 A, single phase 200 V, 400 Hz, 10 kVa, three phase 240 V, 50 Hz, 10 kVA, three phase 0 V to 30 V, 30A DC regulated Variable 45 Hz/2 kHz, 9 kVa, three phase</p>	



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As listed on Pages 1 and 2	<p>ENVIRONMENTAL TESTS (NON-EXPLOSIVE ITEMS)</p> <p>CLIMATIC</p> <p>High and low temperature</p> <p>- constant and cyclic</p> <p>Max temp: +180°C</p> <p>Min temp: -60°C</p> <p>Max chamber size: 1 m x 1 m x 1 m</p> <p>Max temp: +90°C</p> <p>Min temp: -60°C</p> <p>Max chamber size: 4 m x 1.5 m x 1.8 m or 2.25 m x 2.25 m x 2.0 m</p>	<p>IEC 60068-2-1:1993 IEC 60068-2-1: 2004 IEC 60068-2-1:2007 IEC 60068-2-2:1974 IEC 60068-2-61:1991 BS EN 60068-2-1:1993 BS EN 60068 -2-1: 2007 BS EN 60068-2-2:1993 BS EN 60068 -2-2: 2007 BS EN 60068 -2-2: 2007 BS EN 60068-2-61:1994 MIL-STD-810B, 501 MIL-STD-810C, 501.1 MIL-STD-810D, 501.2 MIL-STD-810E, 501.3 MIL STD 810F, 501.4 MIL STD 810G, 501.5 MIL STD 810G:CN1, 501.6 MIL-STD-810B, 502 MIL-STD-810C, 502.1 MIL-STD-810D, 502.2 MIL-STD-810E, 502.3 MIL STD 810F, 502.4 MIL STD 810G, 502.5 MIL STD 810G:CN1, 502.6 DEF STAN 00-35:1999 DEF STAN 00-35 Pt 3 Issue 4 Chapter 3-01 Test CL1 DEF STAN 00-35 (Part 3) Issue 4 (2006), Chapter 3-04, Test CL4 DEF STAN 00-35 (Part 3) Issue 4 (2006), Chapter 3-05, Test CL5 DEF STAN 00-35 (Part 3) Issue 4 (2006), Chapter 3-06, Test CL6 Tests CL1, CL4, CL5 and CL6 DEF STAN 00-035 (Part 3) Issue 5 (2017) Tests CL5 and CL6 NES 1004 Data Sheet 7:1995 NES 1004 Data Sheet 8:1995 RTCA/DO-160B Section 5 EUROCAE ED14 RTCA DO-160C, Section 5 RTCA DO 160D, Section 5 RTCA DO 160E, Section 5</p>



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As listed on Pages 1 and 2	ENVIRONMENTAL TESTS (NON-EXPLOSIVE ITEMS) (cont'd) CLIMATIC (cont'd) -constant and cyclic (cont'd)	RTCA DO 160G, Section 5 RTCA DO 160F, Section 5 STANAG 4370, AECTP 302 STANAG 4370, AECTP 303 DEF STAN 81-41 Pt 3 Issue 4 DEF STAN 81-41 Pt 3 Issue 5 DEF STAN 81-41 Pt 3 Issue 4 Test G
	Temperature/humidity - constant and cyclic Max temp: +100°C Min temp: -20°C Humidity range: 10 to 98 % RH Max chamber size: 1 m x 1 m x 1 m Temperature range with humidity: 20 °C to 95 °C	IEC 60068-2-38:1974 Sub Section 3.15:1978 IEC 60068-2-30:1980 BS EN 60068-2-30: 2006 IEC 60068-2-67:1995 BS EN 60068-2-30:1999 BS EN 60068-2-38:1999 BS EN 60068-2-38:2009 BS EN 60068-2-67:1996 BS EN 60068-2-78:2001 BS EN 60068-2-78: 2002 BS EN 60068-2-78:2013 MIL-STD-810B, 507 MIL-STD-810C, 507.1 MIL-STD-810D, 507.2 MIL-STD-810E, 507.3 MIL-STD-810F, 507.4 MIL STD 810G 507.5 MIL STD 810G:CN1 507.6 RTCA/DO-160B Section 6 EUROCAE ED14 RTCA DO-160C, Section 6 RTCA DO 160D, Section 6 RTCA DO 160E, Section 6 DEF STAN 00-35:1999 Test CL7 DEF STAN 00-35 (Part 3) Issue 4 (2006), Chapter 3-07, Test CL7 NES 1004 Data Sheet 9:1995 BS3G100 Part 2, Section 3 Sub Section 3.7:1992 STANAG 4370 AECTP 306 DEF STAN 81-41(Part 3) Issue 4, Test B DEF STAN 81-41(Part 3) Issue 5, Test B-2007



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As listed on Pages 1 and 2	ENVIRONMENTAL TESTS (NON-EXPLOSIVE ITEMS) (cont'd) CLIMATIC (cont'd)	DEF STAN 81-41(Part 3) Issue 4, Test J MIL-STD-202G Methods 103B & 106G
	Solar radiation Heating effect only Radiation area: 1.5 m x 1.5 m	DEF STAN 00-35:1999 Test CL2 DEF STAN 00-35 (Part 3), Issue 4 (2006) Test CL2 DEF STAN 00-035 (Part 3) Issue 5 (2017) Test CL2 MIL-STD-810F, Method 505.4 MIL-STD-810E, Method 505.3 Procedure 1 MIL-STD-810G, 505.5 MIL-STD-810G:CN1 505.6 DEF STAN 81-41(Part 3) Issue 4, Test N BS EN 60068-2-5 BS EN 60068-2-5:2011 RTCA DO-160D, Section 4 RTCA DO-160E, Section 4 RTCA-DO-160F RTCA-DO-160G
	Temperature/altitude Max temp: +90°C Min temp: -60°C Max altitude: 100,000 ft Max chamber size: 1 m x 1 m x 1 m	IEC 60068-2-40:1976 IEC 60068-2-41:1976 BS EN 60068-2-40:2000 BS EN 60068-2-41:2000 MIL-STD-810B, 504 MIL-STD-810C, 504.1 RTCA/DO-160B Section 4 RTCA DO 160D, sect 4 RTCA DO 160E, sect 4 RTCA DO 160F, sect 4 RTCA DO 160G, sect 4 EUROCAE ED14/RTCA DO-160c Section 4 Tests CL11 & CL12 DEF STAN 00-35 Part 3, Issue 4 (2006), Chapter 3-11, Test CL11 DEF STAN 00-35 Part 3, Issue 4 (2006), Chapter 3-12, Test CL12 DEF STAN 00-035 Part 3, Issue 5 (2017) Test CL11 BS3G100 Part 2, Section3, Sub Section 3.2:1983



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As listed on Pages 1 and 2	<p>ENVIRONMENTAL TESTS (NON-EXPLOSIVE ITEMS) (cont'd)</p> <p>CLIMATIC (cont'd)</p> <p>Sealing/Immersion Tests To a depth of 1.0 Metre</p>	<p>DEF Stan 0035 (Part B)/3 Test CL 29, Severity B DEF STAN 00-35 Part 3), Issue 4 (2006), Chapter 3-29, Test CL29 BS EN 60529:1992 Test IPX 7 MIL-STD-810F, Method 512.4, Procedure I. MIL-STD-810G, Method 512.4, Procedure I. BS EN 60068-2-17 (1995), Part 2, Test Qf IEC 68-2-17 (1994), Part 2, Test Qf BS EN 60068-2-18 (2001), Test Rc STANAG 4370 AECTP 307</p>
	<p>Temperature/humidity/altitude</p> <p>Max temp: +95°C</p> <p>Min temp: -60°C</p> <p>Max altitude: 100,000 ft</p> <p>Humidity: 10 % to 95 % rh</p> <p>Temperature range with humidity: 20 °C to 95 °C</p> <p>Max chamber size: 1 m x 1 m x 1 m</p>	<p>IEC 60068-2-39:1999 IEC 60068-2-39:2015 BS EN 60068-2-39:1999 BS EN 60068-2-39:2015 Excluding Steam Injection MIL-STD-810D, 520.0 MIL-STD-810E, 520.1 MIL-STD-810F, 520.2 MIL-STD-810G:CN1 520.4 DEF STAN 00-35:1999 Test CL13 DEF STAN 00-35 Part 3, Issue 4 (2006), Chapter 3-13, Test CL13 DEF STAN 00-035 Part 3 Issue 5 (2017) Test CL13 STANAG 4370 AECTP 317</p>



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As listed on Pages 1 and 2	<p>ENVIRONMENTAL TESTS (NON-EXPLOSIVE ITEMS) (cont'd)</p> <p>CLIMATIC (cont'd)</p> <p>Altitude/low pressure</p> <p>Max altitude: 100,000 ft Min altitude: - 1000 ft (1050 mbar) Max chamber size: 1.67 m x 0.96 m (diameter)</p>	<p>IEC 60068-2-13:1983 BS EN 60068-2-13:1999 MIL-STD-810B, 500 MIL-STD-810C, 500.1 MIL-STD-810D, 500.2 MIL-STD-810E, 500.3 MIL-STD-810F, Method 500.4, Procedures I, II & III MIL-STD-810G, Method 500.5 Procedures I, II & III MIL-STD-810G:CN1, Method 500.6 Procedures I, II & III DEF STAN 00-35:1999 Tests CL20 & CL21 DEF STAN 00-35 Part 3), Issue 4 (2006), Chapter 3-20, Test CL20 DEF STAN 00-35 Part 3), Issue 4 (2006), Chapter 3-21, Test CL21 NES 1004, Data Sheet 12:1995 NES 1004, Data Sheet 14:1995 BS 3G100, Part 2, Section3, Sub Section 3.4:1972 STANAG 4370 AECTP 312, Procedures I, II & III DEF STAN 00-35 Part 3, Issue 4 (2006), Chapter 3-09, Test CL9 DEF STAN 00-035 Part 3, Issue 5 (2017) Test CL9 Rapid Decompression only MIL-STD-202G Method 105C</p>
	<p>Thermal shock Two chamber method</p> <p>Max temp: +80°C Min temp: -60°C Max chamber size: 1 m x 1 m x 1 m</p>	<p>IEC 60068-2-14:1984 BS EN 60068-2-14:2000 BS EN 60068-2-14:2009 MIL-STD-810B, 503 MIL-STD-810C, 503.1 MIL-STD-810D, 503.2 MIL-STD-810E, 503.3 MIL-STD-810F, 503.4, Procedure II MIL-STD-810G, 503.5 MIL-STAD-810G, 503.6</p>



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	DYNAMIC Vibration Sinusoidal, random, sine on random, random on random Freq range: 2 to 3000 Hz Max peak thrust: 13,000 lbf Max displacement: 62 mm pk-pk Max mass vertical: 1000 kg Max mass horizontal: 2000 kg	BS 2011-FC IEC 60068-2-6:1995 IEC 60068-2-6:2008 IEC 60068-2-64:1993 IEC 60068-2-57:1999 BS EN 60068-2-6:1996 BS EN 60068-2-6:2008 BS EN 60068-2-64:1995 BS EN 60068-2-64:2008 BS EN 60068-2-57:2000 MIL-STD-810B, 514.1 MIL-STD-810C, 514.2 MIL-STD-810D, 514.3 MIL-STD-810E, 514.4 MIL STD 810F, 514.5 MIL STD 810G:CN1, 514.7 RTCA/DO-160B Section 8 EUROCAE ED14/RTCA DO-160C Section 8 RTCA DO 160D, Section 8 RTCA DO 160E, Section 8 RTCA DO-160G Section 8 DEF STAN 00-35:1999 Tests M1 and M2 DEF STAN 00-35: 2006 Tests M1 and M2 DEF STAN 00-035 Part 3 Issue 5 Test M1 NES 1004 Data Sheet 25:1995 BS 3G100, Pt 2, Section3, Sub Section 3.1:1979 ASTM D4728-91 ASTM D999-91 STANAG 4370 AECTP 401 STANAG 4370 AECTP 420 BS EN 61373



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	<p>DYNAMIC (cont'd)</p> <p>Temperature/vibration Vertical axis sinusoidal vibration Freq range: 5 Hz to 2000 Hz Max peak thrust: 6000 lbf Max displacement: 50 mm pk-pk Max temp: +70°C Min temp: -40°C Max chamber size: 1 m x 1 m x 1 m</p> <p>Gunfire</p> <p>Bump Max mass: 225 kg</p>	<p>IEC 60068-2-50:1983 IEC 60068-2-51:1983 BS EN 60068-2-50:2000 BS EN 60068-2-51:2000</p> <p>MIL-STD-810B, 519.1 MIL-STD-810C, 519.2 MIL-STD-810D, 519.3 MIL-STD-810E, 519.4 MIL STD- 810F, 519.5 MIL-STD-810G, 519.6 MIL-STD-810G:CN1, 519.7 STANAG 4370 AECTP 405</p> <p>IEC 60068-2-29:1987 BS EN 60068-2-29:1993 DEF STAN 00-35:1999 Test M12</p> <p>DEF STAN 00-35 Part 3), Issue 4 (2006), Chapter 2-12, Test M12 DEF STAN 81-41 Pt 3 Issue 4 Test S</p>



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	<p>Salt mist</p> <p>Temp range: ambient to +35 °C Max chamber size: 0.65 m x 1.46 m x 1.04 m</p>	<p>IEC 60068-2-11:1981 IEC 60068-2-52:1996 BS EN 60068-2-11:1999 BS EN 60068-2-52:1996 DEF STAN 00-35:1999</p>



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	Cargo handling/Bounce	MIL-STD 810F, Meth 514.5 Proc. II MIL-STD 810G, Meth 514.6 Proc. II MIL-STD 810G:CN1 Meth 514.7 Proc. II STANAG 4370 AECTP 400 Method 406 BS EN 60068-2-55:1993:2013 DEF STAN 81-41 Pt 3 Issue 4 Test A DEF STAN 00-035 Part 3 Issue 5 (2017) Test M11
	Drop and topple (Rough Handling) Max mass: 5000 kg Max drop height: 3 m (test item dependent)	IEC 60068-2-31:1969 IEC 60068-2-31:2009 IEC 60068-2-32:1975 BS EN 60068-2-31:1993 BS EN 60068-2-31:2009 BS EN 60068-2-32:1993 DEF STAN 00-35:1999 Test M4 DEF STAN 00-35 Part 3), Issue 4 (2006), Chapter 2-04, Test M4 DEF STAN 81-41 Pt 3 Issue 4 Test E
	Water: drip Max coverage area in single pass: 0.6 m x 0.3 m	IEC 60068-2-18:1989 BS EN 60529:1992 MIL-STD-810B, 506 MIL-STD-810C, 506.1 MIL-STD-810D, 506.2 MIL-STD-810E, 506.3 MIL-STD-810F 506.5, Proc III MIL-STD-810G:CN1 506.6 Proc III DEF STAN 00-35:1999 Test CL28



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	Compass safe distance	BS 3G100, Part 2, Section 2:1979 RTCA/DO-160B:1984 Section 15 EUROCAE ED14/RTCA DO-160C Section 15 RTCA DO 160D, Section 15 RTCA DO 160E, Section 15 RTCA DO-160G:1984 Section 15 Panavia, SP-P-90-010 RS-TOR-CSD
	Fluid Contamination Max temp: +90°C Max chamber size: 0.6 m x 0.6 m x 0.6 m	DEF STAN 00-35:1999 Test CN4 DEF STAN 00-35 Part 3, Issue 4 (2006), Chapter 4-04, Test CN4 DEF STAN 00-035 Part 3, Issue 5 (2017) Test CN4 BS 3G100, Pt 2, Section3, Sub Section 3.12:1991 BS EN 60068-2-74 MIL STD 810F 504 MIL STD 810G 504.1 MIL STD 810G:CN1 504.2 RTCA DO 160E, Section 11 RTCA DO 160F, Section 11 RTCA DO 160G, Section11



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As listed on Pages 1 and 2	<p>ENVIRONMENTAL TESTS (NON-EXPLOSIVE ITEMS) (cont'd)</p> <p>DYNAMIC (cont'd)</p> <p>Functional tests/ancillary measurements</p> <p>Input/output measurements</p> <p>Voltage: 0 to 1000 V dc 0 to 1000 V ac</p> <p>Frequency: 0 to 50 kHz</p> <p>Resistance: 0 to 30MΩ</p> <p>Current: 0 to 3A</p>	
END		