


Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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

 <p>0461</p> <p>Accredited to ISO/IEC 17025:2005</p>	<h3>SELEX Galileo Limited</h3> <p>Issue No: 028 Issue date: 19 April 2010</p>	
	<p>2 Crewe Road North Crewe Toll Edinburgh EH5 2XS</p>	<p>Contact: Mr G Couser Tel: +44 (0)131 343 4242 Fax: +44 (0)131 343 5420 E-Mail: environmental.enquiries@selexgalileo.com Website: http://www.selexgalileo.com/SelexGalileo/EN/More/Centre_of_Excellence/Environmental_Engineering/index.sdo</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
Laboratory Contact listed at end of Schedule		
<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 Enclosures for electrical equipment Fans Fuses: weapons Generators: electric Generators: power Instruments: indicating/recording Insulating material: electric Lamps: electric Laser equipment Luminaires Magnetic materials</p>	<p>EMC TESTS</p> <p>1 Conducted Emissions: 20 Hz to 150 MHz</p>	<p>BS 3G100:Part 4:Section 2:1980</p> <p>Aeritalia SBB 3056 (Rev 0) CE01, CE02, CE03, CE04 and CE1</p> <p>Aerospatiale SG.1.40, Issue 17 CE02, CE03, CE04 and CE05</p> <p>MIL STD 461A, Notices 1 to 6 MIL STD 461B MIL STD 461C, Notices 1 and 2 MIL STD 462, Notices 1 to 6 CE01, CE02, CE03, CE04, CE05 and CE07</p> <p>MIL STD 461D/462D MIL STD 461E CE101, CE102</p> <p>PANAVIA SP-P-90003, Issue 3 SP-P-90203, Issue 2 CE01, CE02, CE03, CE04 and CE1 SP-P-90-010 CE-TOR-1, CE-TOR-2 and CE-TOR-3</p>



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
Continued from Page 1 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 Other miscellaneous assemblies similar to the above	EMC TESTS (cont'd) 1 Conducted Emissions: (cont'd)	SAAB-SCANIA Ref 80-V-4.2E/4.3E, Issue 5 CE03 and CE07 BAe-WAS-SP-TOR-EMC-034, Issue 1 DCE01, DCE02 and DCE03 DEF STAN 59-41:Part 3, Issue 4 and Issue 5 DEC01, DCE02 and DCE03 EFA SPE-J-000-E-1000, Issue 1 CE-EFA-1, CE-EFA-2 and CE-EFA-3 Westland EA98Q010J, Issue 2 CEWA04, CEWA05, CEWA07 and CEWA09 RTCA DO-160B, Section 21 EUROCAE ED-14/RTCA DO-160C Section 21 RTCA DO-160D Section 21
	2 Conducted Susceptibility: DC to 400 MHz	BS 3G100:Part 4:Section 2:1980 Susceptibility to Audio Frequency on Power Lines, Susceptibility to rf on Power Lines and Susceptibility to 400 Hz Magnetic Fields Aeritalia SBB 3056 (Rev 0) CS01, CS02 and CS06 Aerospatiale SG.1.40, Issue 17 CS01, CS02 and CS06



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Continued from Pages 1 and 2	<p>EMC TESTS (cont'd)</p> <p>2 Conducted Susceptibility: (cont'd)</p>	<p>MIL STD 461A, Notices 1 to 6 MIL STD 461B MIL STD 461C, Notices 1 and 2 MIL STD 462, Notices 1 to 6 CS01, CS02 and CS06 (Limited CS09, CS10, CS11, CS12 and CS13)</p> <p>MIL STD 461D/462D MIL STD 461E CS114, CS101</p> <p>PANAVIA SP-P-90003, Issue 3 SP-P-90203, Issue 2 CS01, CS1, CS2 and CS3 SP-P-90-010, Issue 1 CS-TOR-1, CS-TOR-2, CS-TOR-4</p> <p>SAAB-SCANIA REF 80-V-4.2E/4.3E, Issue 5 CS01, CS02 and CS06</p> <p>BAe-WAS-SP-TOR-EMC-034, Issue 1 DCS01, DCS02, DCS03 and CS1</p> <p>DEF STAN 59-41:Part 3:Issue 4 and Issue 5 DCS01, DCS02, DCS03, DCS04, DCS06, DCS11 and Limited DCS05/DCS07</p> <p>EFA SPE-J000-E-1000:Issue 1 CS-EFA-1, CS-EFA-4, Limited CS-EFA-2 and Limited NEMP-EFA-1</p> <p>Westland EA98Q010J:Issue 2 CSWA01, CSWA02, CSWA03, CSWA07, CSWA09 and CSWA13</p> <p>RTCA DO-160B Section 17 (Cat A), Section 18 and Section 20</p>



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Continued from Pages 1 and 2	EMC TESTS (cont'd)	
	2 Conducted Susceptibility: (cont'd)	EUROCAE ED-14/RTCA DO-160C Section 17 (Cat A), Section 18 and Section 20 RTCA DO 160D Section 17, Section 18 and Section 20
	3 Radiated Emission: 20 Hz to 18 GHz	BS 3G100:Part 4:Section 2:1980 Radiated Interference Aeritalia SBB 3056 (Rev 0) RE02 Aerospatiale SG.1.40, Issue 17 RE01 and RE02 MIL STD 461A, Notices 1 to 6 MIL STD 461B MIL STD 461C, Notices 1 and 2 MIL STD 462, Notices 1 to 6 RE01 and RE02 MIL STD 461 D & E RE 101 and RE 102 PANAVIA SP-P-90003:Issue 3 SP-P-90203:Issue 2 RE02 SP-P-90-010, Issue 1 RE-TOR-1 SAAB-SCANIA Ref 80-V-4.2E/4.3E, Issue 5 RE02 BAe-WAS-SP-TOR-EMC-034, Issue 1 DRE01 and DRE02 DEF STAN 59-41:Part 3:Issue 4 and Issue 5 DRE01 and DRE02



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Continued from Pages 1 and 2	EMC TESTS (cont'd)	
	3 Radiated Emission: (cont'd)	EFA SPE-J-000-E-1000, Issue 1 RE-EFA-1 Westland EA98Q010J, Issue 2 REWA01 and REWA02 RTCA DO-160B, Section 21 EUROCAE ED-14/RTCA DO-160C Section 21
	4 Radiated Susceptibility: DC to 18 GHz Typical E-Field Intensity Capability 14 kHz to 18 GHz 50 V/m	BS 3G100:Part 4: Section 2:1980 Susceptibility to Radiated Fields Aeritalia SBB 3056 (Rev 0) RS02 and RS03 Aerospatiale SG.1.40, Issue 17 RS01 and RS03 MIL STD 461A, Notices 1 to 6 MIL STD 461B MIL STD 461C, Notices 1 and 2 MIL STD 462, Notices 1 to 6 RS01, RS02, RS03, RS04 and RS06 MIL STD 461 D & E RS 101 and RS 103 PANAVIA SP-P-90003:Issue 3 SP-P-90203:Issue 2 RS03 and RS1 SP-P-90-010, Issue 1 RS-TOR-1, RS-TOR-2 and RS-TOR-3 SAAB-SCANIA REF 80-V-4.2E/4.3E, Issue 5 RS02 and RS03 BAe-WAS-SP-TOR-EMC-034, Issue 1 DRS01 and DRS02



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Continued from Pages 1 and 2	<p>EMC TESTS (cont'd)</p> <p>4 Radiated Susceptibility: (cont'd)</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>Westland EA98Q010J, Issue 2 RSWA01 and CSWA03</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>
	<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>	



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Continued from Pages 1 and 2	<p><u>Facilities:</u> (cont'd)</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>	
	<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 60068-2-2:1974 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 60068-2-61:1994 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-810B, 502 MIL-STD-810C, 502.1 MIL-STD-810D, 502.2 MIL-STD-810E, 502.3 MIL STD 810F, 502.4 DEF STAN 00-35:1999 DEF STAN 00-35 Pt 3 Issue 4 Test CL1</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>Temperature/altitude (cont'd)</p> <p>Sealing/Immersion Tests To a depth of 1.0 Metre</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: 10 °C to 95 °C</p> <p>Max chamber size: 1 m x 1 m x 1 m</p>	<p>DEF STAN 00-35:1999 Tests CL11 & CL12 DEF STAN 00-35 Part 3), Issue 4 (2006), Chapter 3-02, Test CL11 DEF STAN 00-35 Part 3), Issue 4 (2006), Chapter 3-02, Test CL12 BS3G100 Part 2, Section3, Sub Section 3.2:1983 MIL-STD-810F, Method 520.2</p> <p>DEF Stan 0035 (Part B)/3 Test CL 29, Severity B DEF STAN 00-35 Part 3), Issue 4 (2006), Chapter 3-02, Test CL29 BS EN 60529:1992 Test IPX 7 MIL-STD-810F, 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 DEF STAN 00-35 Part 3), Issue 4 (2006), Chapter 3-02, Test CN5</p> <p>IEC 60068-2-39:1999 BS EN 60068-2-39:1999 Excluding Steam Injection MIL-STD-810D, 520.0 MIL-STD-810E, 520.1 MIL-STD-810F, Method 520.2 DEF STAN 00-35:1999 Test CL13 DEF STAN 00-35 Part 3), Issue 4 (2006), Chapter 3-02, 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>DYNAMIC</p> <p>Vibration Sinusoidal, random, sine on random, random on random</p> <p>Freq range: 2 to 3000 Hz</p> <p>Max peak thrust: 13,000 lbf</p> <p>Max displacement: 62 mm pk-pk</p> <p>Max mass vertical: 1000 kg</p> <p>Max mass horizontal: 2000 kg</p>	<p>BS 2011-FC IEC 60068-2-6:1995 IEC 60068-2-64:1993 IEC 60068-2-57:1999 BS EN 60068-2-6:1996 BS EN 60068-2-64:1995 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 RTCA/DO-160B Section 8 EUROCAE ED14/RTCA DO-160C Section 8 RTCA DO 160D, Section 8 RTCA DO 160E, Section 8 DEF STAN 00-35:1999 Tests M1 and M2 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 DEF STAN 81-41 Pt 3 Issue 4 Test K MIL-STD-202G Methods 201A 204D & 214A</p>



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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>Water: drip</p> <p>Max coverage area in single pass: 0.6 m x 0.3 m</p> <p>Salt mist</p> <p>Temp range: ambient to +35 °C</p> <p>Max chamber size: 0.65 m x 1.46 m x 1.04 m</p> <p>Compass safe distance</p>	<p>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 Method 506.5, Proc III DEF STAN 00-35:1999 Test CL28 DEF STAN 00-35 Part 3), Issue 4 (2006), Chapter 3-02, Test CL28 RTCA/DO-160B Section 10 EUROCAE ED14/RTCA DO-160C Section 10 RTCA DO 160D, Section 10 RTCA DO 160E, Section 10 BS 3G100, Part 2, Section3, Sub Section 3.11:1974</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 Test CN2 DEF STAN 00-35 Part 3), Issue 4 (2006), Chapter 3-02, Test CN2</p> <p>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 Panavia, SP-P-90-010 RS-TOR-CSD</p>



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SELEX Galileo Limited
Issue No: 028 Issue date: 19 April 2010

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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
As listed on Pages 1 and 2	<p>ENVIRONMENTAL TESTS (NON-EXPLOSIVE ITEMS) (cont'd)</p> <p>DYNAMIC (cont'd)</p> <p>Fluid Contamination</p> <p>Max temp: +90°C</p> <p>Max chamber size: 0.6 m x 0.6 m x 0.6 m</p> <p>Functional tests/ancillary measurements</p> <p>Input/output measurements</p> <p>Voltage: 0 to 300 V dc 0 to 300 V ac</p> <p>Frequency: 0 to 50 kHz</p> <p>Resistance: 0 to 11 kΩ</p> <p>Current: 0 to 110 mA</p>	<p>DEF STAN 00-35:1999 Test CN4 DEF STAN 00-35 Part 3), Issue 4 (2006), Chapter 3-02, Test CN4 BS 3G100, Pt 2, Section3, Sub Section 3.12:1991 BS EN 60068-2-74 MIL STD 810F Method 504 MIL STD 810F Method 504 RTCA DO 160E, Section 11</p>



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Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
Contact for EMC and Environmental Testing:		
<p>Address:</p> <p>SELEX Galileo Limited 2 Crewe Road North Edinburgh EH5 2XS</p> <p>SELEX Galileo Limited EMC Department 2 Crewe Road North Edinburgh EH5 2XS</p>	<p>Local contact:</p> <p>Mr C McCrory</p> <p>Tel: +44 (0)131-343 4300 Fax: +44 (0)131-343 5420 Email: colin.mccrory@selexgalileo.com</p> <p>Mr G Bremner</p> <p>Tel: +44 (0)131-343 5667 Fax: +44 (0)131-343 5420 Email: gordon.bremner@selexgalileo.com</p>	<p>Activity</p> <p>Testing: Environmental Testing</p> <p>Testing: EMC Testing</p>
END		