


Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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

 <p>2221</p> <p>Accredited to ISO/IEC 17025:2005</p>	<h3>AWE Aldermaston</h3>	
	<p>Issue No: 011 Issue date: 09 November 2010</p>	
<p>Environmental Testing Laboratory Building C3.1 Aldermaston Reading Berkshire RG7 4PR</p>	<p>Contact: Mr B E Tyler, Mr R Howden, Mr R Cornick Tel: +44 (0)118 982 7810 Fax: +44 (0)118 982 7735 E-Mail: Brian.Tyler@awe.co.uk Website: www.awe.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>Weapons and sub-assemblies</p> <p>Aerospace structures and equipment</p> <p>Missiles and missile components</p> <p>Munition components and assemblies</p> <p>Motor vehicle components</p> <p>Electronic and electrical equipment</p> <p>Marine equipment</p> <p>Telecommunications equipment</p> <p>Packaging and container assemblies</p> <p>Other miscellaneous assemblies similar to the above</p>	<p>(Environmental Tests (explosive, radioactive, toxic and inert items))</p> <p>Vibration (Sine, random and mixed-mode) (At ambient temperature or conditioned between - 40 °C and + 100 °C)</p> <p>Max shaker-mounted static mass of test item plus fixture 3000 kg. Higher static masses can be accommodated on slip tables. Multi-channel response measurement.</p> <p>Shaker systems available:</p> <p>260 kN rigid trunnion 5 Hz to 2 kHz 70 gn pk; 1.4 m/s pk Displacement: 50 mm pk-pk Max mass of test item using slip table: 2000 kg</p> <p>160 kN rigid trunnion 5 Hz to 2 kHz 70 gn pk; 1.78 m/s pk Displacement: 25.4 mm pk-pk Max mass of test item using slip table: 2000 kg</p>	<p>Def Stan 00-35:Part 3:Tests M1, M2 Mil Std 810F:Method 514.5 BS EN 60068-2-6:2008 BS EN 60068-2-64:2008 BS EN 60068-2-80:2005</p>



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As listed on Page 1	<p>Environmental Tests (explosive, radioactive, toxic and inert items) (cont'd)</p> <p>Vibration (cont'd)</p> <p>107 kN air suspension 5 Hz to 2 kHz 150 gn pk; 2 m/s pk Displacement: 76 mm pk-pk Max mass of test item using slip table: 2000 kg</p> <p>89 kN air suspension 2 Hz to 3 kHz 70 gn pk; 1.78 m/s pk Displacement: 25.4 mm pk-pk Max mass of test item using slip table: 2000 kg</p> <p>31 kN rigid trunnion 5 Hz to 3 kHz 70 gn pk; 1.78 m/s pk Displacement: 25.4 mm pk-pk Max mass of test item using slip table: 500 kg</p> <p>27 kN rigid trunnion 5 Hz to 3 kHz 70 gn pk; 1.78 m/s pk Displacement: 25.4 mm pk-pk Max mass of test item 'armature mounted': 500 kg</p> <p>Shaker-induced shock (Classic shock or SRS)</p> <p>(At ambient temperature or conditioned between - 40 °C and + 100 °C)</p> <p>Max shaker-mounted static mass of test item plus fixture 3000 kg. Higher static masses can be accommodated on slip tables. Multi-channel response measurement.</p>	<p>BS EN 60668-2-27:2008</p> <p>BS EN 60068-2-57:1993</p> <p>BS EN 60068-2-81:2005 Def Stan 00-35:Part 3:Tests M6, M6, M12 Mil Std 810F:Method 516.5</p>



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As listed on Page 1	<p>Environmental Tests (explosive, radioactive, toxic and inert items) (cont'd)</p> <p>Shaker-induced shock (Classic shock or SRS) (cont'd)</p> <p>Shaker systems available:</p> <p>260 kN rigid trunnion 5 Hz to 2 kHz 70 gn pk; 1.4 m/s pk Displacement: 50 mm pk-pk Max mass of test item using slip table: 2000 kg</p> <p>160 kN rigid trunnion 5 Hz to 2 kHz 70 gn pk; 1.78 m/s pk Displacement: 25.4 mm pk-pk Max mass of test item using slip table: 2000 kg</p> <p>107 kN air suspension 5 Hz to 2 kHz 150 gn pk; 2 m/s pk Displacement: 76 mm pk-pk Max mass of test item using slip table: 2000 kg</p> <p>89 kN air suspension 2 Hz to 3 kHz 70 gn pk; 1.78 m/s pk Displacement: 25.4 mm pk-pk Max mass of test item using slip table: 2000 kg</p> <p>31 kN rigid trunnion 5 Hz to 3 kHz 70 gn pk; 1.78 m/s pk Displacement: 25.4 mm pk-pk Max mass of test item using slip tables: 500 kg</p>	



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As listed on Page 1	<p>Environmental Tests (explosive, radioactive, toxic and inert items) (cont'd)</p> <p>Shaker-induced shock (Classic shock or SRS) (cont'd)</p> <p>Shaker systems available: (cont'd)</p> <p>27 kN rigid trunnion 5 Hz to 3 kHz 70 gn pk; 1.78 m/s pk Displacement: 25.4 mm pk-pk Max mass of test item 'armature mounted': 500 kg</p> <p>Impact/Shock (free-fall drop, accelerated drop) Test item may be pre-conditioned to between - 40 °C and + 100 °C</p> <p>Test machines available:</p> <p>Free-fall drop test machine Max test mass 454 kg 1000 g down to 0.4 ms duration*</p> <p>Accelerated drop test machine Max test mass 22 kg free fall, or 9 kg accelerated 10000 g down to 0.2 ms duration</p> <p>[*0.1 ms duration achievable using shock amplifier]</p> <p>'20-inch' vacuum gun Max test mass 13 kg 54.8 m/s final velocity</p> <p>'10-inch' vacuum gun Max test mass 5.5 kg 48.7 m/s final velocity</p>	<p>BS EN 60068-2-31:2008 Def Stan 00-35:Part 3:Tests M3, M4, M5, M12</p>



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As listed on Page 1	Environmental Tests (explosive, radioactive, toxic and inert items) (cont'd) Acceleration (Centrifuge) Max rotational speed 250 rpm Max ratings (bare arm):- 170 g at 2.4 m 255 g at 3.6 m 297 g at 4.2 m Max mass of test item 1134 kg	BS EN 60068-2-7:1993 Def Stan 00-35:Part 3:Test M13 Mil Std 810E:Method 513
	END	