

## Scope of Accreditation For Stork Garwood Laboratories, Inc

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In recognition of a successful assessment to ISO/IEC 17025:2005, accreditation is granted to **Stork Garwood Laboratories, Inc.** to perform the following tests:

Accreditation granted through: **July 28, 2011**

### Testing - Environmental Simulation

Technology	Range, when necessary	Methods Used	Product Types	Remarks
Flammability	-----	MIL-STD-202 Method 111 RTCA/DO160 Section 10		
Fire Resistance	-----	ISO 2685; FAA AC 20-135 SAE AS 4273, 85720 SAE AIR 1377		
Explosive Decompression	75K Ft	RTCA-DO160 Section 4 MIL-STD-810 Method 500 Proc IV		
Explosive Atmosphere	+80C/60K Ft	MIL-STD 202 Method 109 MIL-STD 810 Method 511 RTCA-DO160 Section 9		
Fluid Immersion	-----	MIL-STD-202 Method 104 MIL-STD-810 Method 512 MIL-STD-883 Method 1002		
Fluid Susceptibility	-----	RTCA-DO160 Sections 10 and 11		
Resistance to Solvents	-----	MIL-STD-202 Method 215		
Icing	-----	RTCA/DO160 Section 24 MIL-STD-810 Method 521		

<b>Technology</b>	<b>Range, when necessary</b>	<b>Methods Used</b>	<b>Product Types</b>	<b>Remarks</b>
High / Low Temperature	-184C to +200C	MIL-STD-202 Method 108 MIL-STD-810 Method 201, 502 MIL-STD-883 Method 1005, 1007, 1008, 1010 MIL-STD-1344 Method 1003, 1005; RTCA-DO160 Section 5		
Thermal Shock	-65C to +170C	MIL-STD-202 Method 107 MIL-STD-810 Method 503 MIL-STD-883 Method 1011		
Salt Spray (Fog)	-----	ASTM B117 MIL-STD-202 Method 101 MIL-STD-883 Method 1009 MIL-STD-810 Method 509 MIL-STD-1344 Method 1001 RTCA-DO160 Section 14		
SO <sub>2</sub> -Modified Salt Fog	-----	ASTM G85		
Altitude / Temperature	100K Ft -140C to +200C	RTCA/DO160 Section 4 MIL-STD 202 Method 105 MIL-STD 810 Method 500 MIL-STD-883 Method 1001		
Temperature/ Humidity	+85C 95%+ RH	RTCA-DO160 Section 6 MIL-STD 202 Method 103, 106 MIL-STD 810 Method 507		
Vibration/ Temperature/ Humidity	+100C 95%+ RH	MIL-STD-883 Method 1007 RTCA-DO160 Sections 4,5,6,8		Can be combined with any available vibration range
Moisture Resistance	+85C 95%+ RH	MIL-STD-883 Method 1004 MIL-STD-202 Method 106		
Rain	40-50 MPH	MIL-STD-810 Method 506		

**Testing - Vibration and Shock**

<b>Technology</b>	<b>Range, when necessary</b>	<b>Methods Used</b>	<b>Product Types</b>	<b>Remarks</b>
Classic Vibration	100 gPk 4-3K hz	MIL-STD-167-1 Type I MIL-STD 202 Method 201, 204 MIL-STD 883 Method 2005, 2007		
Random Vibration & Combinations	85 gRMS 4-3K hz	MIL-STD 202 Method 201, 214 MIL-STD 810 Method 514, 520 MIL-STD 883 Method 1007, 2026 MIL-STD 1344 Method 2005 RTCA/DO160 Section 8		
Shock	4000 gPk Short Duration	MIL-STD 202 Method 213 MIL-STD 810 Method 516 (procedures I through VI only) MIL-STD 810 Method 519 MIL-STD 1344 Method 2004 RTCA/DO160 Section 7.2, 7.3.1		
Combined Vibration with Temperature and Humidity	+100C 95% RH	MIL-STD-883 Method 1007 RTCA-DO-160 Sections 4, 5, 6, 8 GR-63 CORE Section 4.1, 6		
Hammer Shock	-----	MIL-STD-202 Method 207 MIL-S-901		
Instrumented Drop Impact	-----	MIL-STD 210 Method 213 MIL-STD-883 Method 2002 MIL-STD 1344 Method 2004		
Mechanical Acceleration	to 65 g (8' dia) to 20 g (28' dia)	MIL-STD 202 Method 212 (condition A&C) MIL-STD 810 Method 513 MIL-STD 1344 Method 2011 (to 50g's)		8 Ft Dia High G-Level Centrifuge (with Electrical Slip Rings) and 28 Foot Diameter Centrifuge
Package Shipment Testing	-----	ISTA Project 1, Methods 1A, 1B, 1C, 1D, 1E, 2A, 2B, 2C, 3D, 3E, 3F, 3G, F, 1G,3G		Except incline or fixed displacement
Hydraulic Impulse	25K psi	SAE AIR 1228, AIR 603E		Servo-Hydraulics

**NEBS Testing - GR-63-CORE / Physical Protection**

<b>Technology</b>	<b>Range, when necessary</b>	<b>Methods Used</b>	<b>Product Types</b>	<b>Remarks</b>
High / Low Temperature	-----	GR-63-CORE Section 4.1.1.1 GR-63-CORE Section 4.1.1.3 GR-63-CORE Section 4.1.4		
Temperature / Humidity	-----	GR-63-CORE Section 4.1.1.2 GR-63-CORE Section 4.1.2		
Altitude / Temperature	-----	GR-63-CORE Section 4.1.3		
Fan-Cooled Equipment	-----	GR-63-CORE Section 4.1.5		
Heat Dissipation	-----	GR-63-CORE Section 4.1.6		
Surface Temperature	-----	GR-63-CORE Section 4.1.7		
Equipment Airflow	-----	GR-63-CORE Section 4.1.8		
Acoustic Noise	-----	GR-63-CORE Section 4.6		
Illumination	-----	GR-63-CORE Section 4.7		
Fire Resistance	-----	GR-63-CORE Section 4.2 GR-63-CORE Section 4.2.3 (Materials)		
Vibration / Shock	-----	GR-63-CORE Section 4.3 GR-63-CORE Section 4.4		
Airborne Contaminants	-----	GR-63-CORE Section 4.5 (Hygroscopic Dust only)		

**Notes:**

This laboratory offers commercial testing service.

Approval:   
 R. Douglas Leonard  
 Chief Technical Officer

Date: July 28, 2008

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