



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

NATIONAL TECHNICAL SYSTEMS (NTS)¹

Plano Division

1701 E Plano Pkwy Suite 150

Plano, Texas 75074

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MECHANICAL

Valid to: February 28, 2018

Certificate Number: 0214.24

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory at the location listed above, ***as well as the satellite location listed below***, to perform the following tests:

<u>Test Technology</u>	<u>Test Capabilities</u>	<u>Test Method(s)</u>
Corrosion	Salt Spray/Fog	ASTM B117; ASTM G85; GR-13-CORE; GR-49-CORE; GR-487-CORE; GR-937-CORE; GR-1089-CORE (Section 8); GR-1274-CORE; GR-3108-CORE; GR-3115-CORE; GR-3125-CORE; MIL-STD 810 C-G; RTCA/DO-160 C-G
	Modified Salt Spray/Fog	ASTM G85
	Sea Water	
	Acidified Salt Spray	
Vibration ²	Electro Dynamic Sine, Random, Mixed (5 to 3000) Hz; 115gRMS Sine: 32,000 force lbs. Random: 32,000 force lbs. Shock: 64,000 force lbs. ½ Sine, Saw Tooth	AT&T-TP76200; EN 60065; EN 60204-1; ETS 300 0 019; FTM 101; GR-13-CORE; GR-49-CORE; GR-63-CORE; GR-487-CORE; GR-937-CORE; GR-3115-CORE; GR-3125-CORE; MIL-STD 167-1; MIL-STD 167-1A; MIL-STD 202 F; MIL-STD 202 G; MIL-STD 331 C; MIL-STD 331 B; MIL-STD 750 C-E; MIL-STD 1344; MIL-STD 810 C-G; MIL-STD 883 E-G; MIL-STD 1344 A; MIL-STD 1540 C-D;

<u>Test Technology</u>	<u>Test Capabilities</u>	<u>Test Method(s)</u>
Vibration (cont.)		MIL-STD 1576; MIL-PRF 28800 F; RTCA/DO-160 C-G; IEC 60068; SAE J577; JIS D160; IEEE 1613; ATIS 0600019-2009 (Pb-free); ATIS 0600020.2010
Package Drop Testing		MIL-STD-810; GR-63-CORE; GR-487-CORE
Bounce/Loose Cargo		MIL-STD-810
Seismic ²	Servo Hydraulic Sine & Random 15,000 force pounds (1 to 500) Hz	ANSI T1.329; GR-13-CORE; GR-49-CORE; GR-63-CORE; GR-487-CORE; GR-937-CORE; GR-3115-CORE; GR-3125-CORE
Drop Tower ²	6 Ft. 200g's	GR-63-CORE; GR-487-CORE; MIL-PRF 28800 F; MIL-STD 1344; MIL-STD 1576; MIL-STD 202 F; MIL-STD 202 G; MIL-STD 810 C-G
Illumination		GR-63-CORE
Acoustic Noise ²	(30 to 100) dBa	GR-63-CORE; GR-487-CORE; MIL-STD 740 1; MIL-STD 740 B (<i>Canceled/Superseded April 1, 2012 by MIL-STD-740-1 and MIL-STD-740-2 limited to airborne noise</i>)
Temperature ²	(-72 to +125) °C	AT&T-TP76200; GR-13-CORE; GR-49-CORE; GR-63-CORE; GR-487-CORE; GR-937-CORE; GR-3115-CORE; GR-3125-CORE; GR-3028-CORE (Section 5.2, O5-4); MIL-PRF 28800 F; MIL-STD 202 F; MIL-STD 202 G; MIL-STD 810 C-G; RTCA/DO-160 C-G
Humidity ²	(5 to 95) %RH	GR-13-CORE; GR-49-CORE; GR-63-CORE; GR-937-CORE; GR-3028-CORE; GR-3115-CORE; GR-3125-CORE; MIL-PRF 28800F; MIL-STD 202 F, G; MIL-STD 810 C-G; RTCA/DO160 C-G



<u>Test Technology</u>	<u>Test Capabilities</u>	<u>Test Method(s)</u>
Temperature/Altitude ²	Up to 80,000 ft. (-55 to +85) °C	GR-49-CORE; GR-63-CORE; GR-937-CORE; GR-3115- CORE; GR-3125-CORE; GR-3028-CORE; MIL-PRF 28800 F; MIL-STD 202 F; MIL-STD 202 G; MIL-STD 810 C-G; RTCA/DO160 C-G
Explosive Atmosphere ²	Up to 80,000 ft. (-55 to +85) °C	MIL-PRF 28800 F; MIL-STD 202 F; MIL-STD 202 G; MIL-STD 810 C-G; RTCA/DO-160 C-G
Decompression (rapid and explosive) ²	Up to 50,000 ft.	MIL-STD 202 F; MIL-STD 202 G; MIL-STD 810 C-G; RTCA/DO-160 C-F
Dust Intrusion		IEC/EN 60529; MIL-PRF 28800F; MIL-STD 202; MIL-STD 810 C-G; NEMA 250; RTCA/DO-160 C-G
Needle Flame		IEC 695-2-2; GR 63-CORE; UL-94; ATIS 0600307.2007
Fluid Susceptibility/Chemical Resistance		GR-49-CORE; GR-487-CORE; GR-937-CORE; RTCA/DO-160 C-E; MIL-STD 810 C-G
Wind Resistance		GR-49-CORE; GR-487-CORE; GR-950-CORE
Wall/Pole Mounted Equipment		GR-950; GR-487
Lifting Details ²	Up to 15,000 lbs.	GR-487-CORE
Security		GR-487-CORE
Alarms		GR-487-CORE
Solar Load Testing		GR-487-CORE (Heating Effects using Heat Strips only); MIL-STD 810 C-G (Procedure 1)
Thermal Shock ²	(-65 to +125) °C	GR-13-CORE; GR-63-CORE; GR-487-CORE; GR-937-CORE

<u>Test Technology</u>	<u>Test Capabilities</u>	<u>Test Method(s)</u>
Blowing Sand Dust/Weather Tightness		MIL-STD 810 C-G; RTCA/DO-160 C-G GR-13-CORE; GR-49-CORE; GR-487-CORE; GR-950-CORE; NEMA 250; IEC/EN 60529; MIL-STD 810 C-G
Lawn Sprinkler		GR-487-CORE; GR-950-CORE
Rain Intrusion		GR-487-CORE; GR-950-CORE
Wind and Rain ²	100 mph at 6 in./hr	MIL-STD 202 F; MIL-STD 202 G; MIL-STD 810 C-G; MIL-PRF 28800 F; RTCA/DO-160 C-G; GR-13-CORE; GR-49-CORE; GR-487-CORE; GR-937-CORE; GR-3115-CORE; GR 3125-CORE; NEMA 250; IEC/EN 60529; GR-950-CORE
Dripping Rain		MIL-STD-810; RTCA-DO-160

¹ This accreditation covers testing performed at the main laboratory listed above, and at the satellite laboratory indicated below:

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Plano, TX 75074
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<u>Test Technology</u>	<u>Test Capabilities</u>	<u>Test Method(s)</u>
Brush Fire		GR-13-CORE; GR-487-CORE
Fire Resistance		GR-63-CORE

² Also using customer specific test methods utilizing any combination of test equipment parameters listed above.





Accredited Laboratory

A2LA has accredited

NATIONAL TECHNICAL SYSTEMS (NTS)

Plano, TX

for technical competence in the field of

Mechanical Testing

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005 *General requirements for the competence of testing and calibration laboratories*. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communiqué dated 8 January 2009).



Presented this 15th day of January 2016.

A handwritten signature in black ink, appearing to be 'L. J. ...', written over a horizontal line.

President and CEO
For the Accreditation Council
Certificate Number 0214.24
Valid to February 28, 2018
Revised January 30, 2018

For the tests to which this accreditation applies, please refer to the laboratory's Mechanical Scope of Accreditation.