



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

NATIONAL TECHNICAL SYSTEMS (NTS)<sup>1</sup>  
Plano Division  
1701 E Plano Pkwy Suite 150  
Plano, Texas 75074  
Chelsie Morrow Phone: 972 209 2566 Extension 165  
[Chelsie.Morrow@ntscorp.com](mailto:Chelsie.Morrow@ntscorp.com)  
Eric Loucks Phone: 870 574 0031

MECHANICAL

Valid to: December 31, 2019

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 Sea Water Acidified Salt Spray	ASTM G85
Vibration <sup>2</sup>	Electro Dynamic Sine, Random, Mixed Mode Random/Sine: Vibration Frequency: (5 to 2000) Hz	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;
	Shocks: up to 75G's; 11 ms duration ½ Sine, Saw Tooth	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 <sup>2</sup> (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 <sup>2</sup>	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 <sup>2</sup>	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 <sup>2</sup>	(30 to 100) dBa	GR-63-CORE; GR-487-CORE; MIL-STD 740 1; MIL-STD 740 B ( <i>Cancelled/Superseded April 1, 2012 by MIL-STD-740-1 and MIL-STD-740-2 limited to airborne noise</i> )
Temperature <sup>2</sup>	(-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
Temperature and Humidity <sup>2</sup>	@50°C 5% RH  @30°C 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 <sup>2</sup>	Up to 70,000 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 <sup>2</sup>	Up to 20,000 ft. (-22 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) <sup>2</sup>	(7,000 to 55,000) 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 <sup>2</sup>	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 <sup>2</sup>	(-65 to +125) °C	GR-13-CORE; GR-63-CORE; GR-487-CORE; GR-937-CORE
Blowing Sand		MIL-STD 810 C-G; RTCA/DO-160 C-G

<u>Test Technology</u>	<u>Test Capabilities</u>	<u>Test Method(s)</u>
Dust/Weather Tightness		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 <sup>2</sup>	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

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

NATIONAL TECHNICAL SYSTEMS  
 Plano Division  
 1717 Capital Drive  
 Plano, TX 75074  
 Chelsie Morrow Phone: 972 509 2566 Extension 165  
[Chelsie.Morrow@ntscorp.com](mailto:Chelsie.Morrow@ntscorp.com)  
 Eric Loucks Phone: 870 574 0031

<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

<sup>2</sup> 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 April 2017).



Presented this 22<sup>nd</sup> day of February 2018.

A handwritten signature in black ink, written over a horizontal line.

President and CEO  
For the Accreditation Council  
Certificate Number 0214.24  
Valid to December 31, 2019

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