



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

NATIONAL TECHNICAL SYSTEMS (NTS)  
5325 Old Winter Garden Rd.  
Orlando, FL 32811-1520

Ross Blanco (Climatic/Dynamic Test Operations) Phone: 407 293 5844  
Ross.blanco@nts.com http://www.nts.com

Craig Thompson (Hydraulic Test Operations) Phone: 407 293 5844  
Craig.thompson@nts.com http://www.nts.com

MECHANICAL

Valid To: September 30, 2019

Certificate Number: 0214.46

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform testing for the following industries: aerospace; defense; telecommunications; electrical; electronics; automotive; information processing; scientific instruments and commercial.

<u>Test Type</u>	<u>Test Method</u>
Temperature/Altitude	MIL-STD-810E/F/G, Method 500, Procedures I and II; RTCA/DO-160E/F/G, Section 4.6.1
Rapid Decompression	MIL-STD-810E/F/G, Method 500, Procedure III; RTCA/DO-160E/F/G, Section 4.6.2
Explosive Decompression	MIL-STD-810E/F/G, Method 500, Procedure IV
Overpressure	RTCA/DO-160E/F/G, Section 4.6.3
High Temperature (Dry Heat)	MIL-STD-810E/F/G, Method 501; RTCA/DO-160E/F/G, Sections 4.5.3, 4.5.4, and 4.5.5
Low Temperature	MIL-STD-810E/F/G, Method 502; RTCA/DO-160E/F/G, Sections 4.5.1 and 4.5.2
Temperature (Thermal) Shock	MIL-STD-810E/F/G, Method 503; MIL-STD-202G/H, Method 107
Temperature Variation	RTCA/DO-160E/F/G, Section 5

<b><u>Test Type</u></b>	<b><u>Test Method</u></b>
Fluids Resistance	MIL-STD-810E/F/G, Method 504 Contamination; RTCA/DO-160E/F/G, Section 11 Susceptibility
Solar Radiation (Sunshine)	MIL-STD-810E/F/G, Method 505, Procedure I Heat Effects (w/o Reflectance Check)
Blowing Rain	MIL-STD-810E/F/G, Method 506, Procedure I
Drip	MIL-STD-810E/F/G, Method 506, Procedure III; RTCA/DO-160E/F/G, Section 10, Paragraph 10.3.2
Humidity (Damp Heat)	MIL-STD-810E/F/G, Method 507; RTCA/DO-160E/F/G, Section 6; MIL-STD-202G/H, Method 106
Salt Fog (Corrosion / Salt Mist)	MIL-STD-810E/F/G, Method 509; RTCA/DO-160E/F/G, Section 14; ASTM B117-16
Blowing Dust	MIL-STD-810E/F/G, Method 510, Procedure I; RTCA/DO-160E/F/G, Section 12.4 (Category D)
Blowing Sand	MIL-STD-810E/F/G, Method 510, Procedure II
Explosive Atmosphere	MIL-STD-810E/F/G, Method 511, Procedure I; RTCA/DO-160E/F/G, Section 9.6.2 (Category E) Non-Ignition; RTCA/DO-160E/F/G, Section 9.6.3 (Category H) Surface Temp
Immersion	MIL-STD-810E/F/G, Method 512
Acceleration	MIL-STD-810E/F/G, Method 513; RTCA/DO-160E/F/G, Section 7 (Sustained); MIL-STD-202G/H, Method 212
Sine and/or Random Vibration	MIL-STD-810E/F/G, Method 514; RTCA/DO-160E/F/G, Section 8
Loose Cargo Vibration	MIL-STD-810E/F/G, Method 514, Procedure II
Classical/SRS Mechanical Shock Free-fall: 12 foot drop machine	MIL-STD-810E/F/G, Method 516, Procedures I, II, III, and V; MIL-STD-202G/H, Method 213; RTCA/DO-160E/F/G, Section 7 (Impulse)



**Test Type**

**Test Method**

Packed/Unpacked Drop

MIL-STD-810E/F/G, Method 516, Procedures IV and VI

Temp/Humidity/Altitude

MIL-STD-810E/F/G, Method 520

Icing/Freezing Rain

MIL-STD-810E/F/G, Method 521;  
MIL-STD-810E/F/G, Method 524;  
RTCA/DO-160E/F/G, Section 24 (Category A);  
RTCA/DO-160E/F/G, Section 24 (Category B);  
RTCA/DO-160E/F/G, Section 24 (Category C)

Spray Proof (Rain and Spray)

RTCA/DO-160E/F/G, Section 10

Hydraulic Endurance

SAE ARP 4378B;  
SAE ARP4946 Issue 2000-10

Impulse (Hydraulic Cycling)

SAE ARP1383B/C





## *Accredited Laboratory*

A2LA has accredited

## **NATIONAL TECHNICAL SYSTEMS (NTS)**

*Orlando, FL*

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 16<sup>th</sup> day of October 2017.

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

President and CEO  
For the Accreditation Council  
Certificate Number 0214.46  
Valid to September 30, 2019

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