



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

NATIONAL TECHNICAL SYSTEMS (NTS)
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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.

Test Type

Test Method

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

Test Type**Test Method**

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 machineMIL-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 ARP138B



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 16th day of October 2017.

A handwritten signature in black ink, appearing to read 'L. Sen', 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.