



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

NATIONAL TECHNICAL SYSTEMS (NTS) - LONGMONT

1601 Dry Creek Drive

Suite 2000

Longmont, CO 80503

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MECHANICAL

Valid To: February 28, 2018

Certificate Number: 0214.44

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following environmental simulation tests:

Test Technology:

Test Method(s)^{1,2}:

Vibration

Electrodynamic Shakers:
Sine/Random/Mixed-Mode
Sine-on-Random, Random-on-Random
(5 to 3000) Hz
1" Stroke
18,000 lbs force

MIL STD-810² (Methods 514, 519, and 526);
RTCA/DO-160² (Section 8);
MIL STD-202E, F, and G (Methods 201, 203,
204, and 214)

Siesmic Hydraulic Shaker:
(5 to 500) Hz
12" Stroke
12,000 lbs force

Shock

Vibration Shock – Electrodynamic Shakers:
(5 to 3,000) Hz
1" Stroke
18,000 lbs force
Up to 30 g's and 11 milliseconds

MIL STD-810² (Method 516);
RTCA/DO-160² (Section 7);
MIL STD-202E, F, and G (Method 213)

Mechanical (Drop) Shock
Drop Towers
½ Sine, Square Wave, Trapezoidal Pulse Shape
Up to 6000 g's
Down to 1 millisecond

MIL STD-810² (Method 516);
MIL STD-202E, F, and G (Method 213)

Acceleration

R=36", 100 g's

MIL-STD-810² (Method 513)

Test Technology:

Test Method(s)^{1,2:}

Temperature/Altitude

(-2,000 to 200,000) ft
(-60 to 160) °C

MIL STD-810² (Method 516);
RTCA/DO-160² (Section 7);
MIL STD-202E, F, and G (Method 213)

Rapid Decompression

MIL STD-810² (Method 500);
RTCA/DO-160² (Section 4)

High Temperature

To 160 °C

MIL STD-810² (Method 501)

Low Temperature

To -100 °C

MIL STD-810² (Method 502)

Temperature Shock

(-60 to 160) °C

MIL STD-810² (Method 503);
MIL STD-202² (Method 107)

Temperature Humidity

(5 to 95) %RH

MIL STD-810² (Method 507);
RTCA/DO-160² (Section 6);
MIL STD-202² (Method 103)

Temperature Cycling

(-60 to 160) °C

MIL STD-810² (Method 520);
RTCA/DO-160² (Section 5)

¹ When the date, revision or edition of a test method standard is not identified on the scope of accreditation, the laboratory is required to be using the current version within one year of the date of publication, per part C., Section 1 of A2LA R101 - *General Requirements- Accreditation of ISO-IEC 17025 Laboratories*. If a specifier/regulator imposes a different transition period, this will supersede the A2LA one-year implementation period.

² Accreditation includes all final published versions of this method.

On the following types of products: Aerospace, Military, Medical and IT Equipment





Accredited Laboratory

A2LA has accredited

NATIONAL TECHNICAL SYSTEMS (NTS) - LONGMONT

Longmont, CO

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 21st day of March 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 0214.44
Valid to February, 28, 2018

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