



The American Association for Laboratory Accreditation

World Class Accreditation

Accredited Laboratory

A2LA has accredited

OTTO

Carpentersville, IL

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 9th day of November 2009.



A handwritten signature in black ink, appearing to read "Peter Abney".

President & CEO
For the Accreditation Council
Certificate Number 2312.01
Valid to April 30, 2011

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



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

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MECHANICAL

Valid To: April 30, 2011

Certificate Number: 2312.01

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

Environmental Simulation:

Test Method

MIL-STD-810

Method 500.X
Method 501.X
Method 502.X
Method 503.X
Method 505.X
Method 506.X
Method 507.X
Method 509.X
Method 512.X
Method 514.X
Method 516.X
Method 519.X

Test

Environmental Engineering Considerations and Laboratory Tests
Low Pressure (altitude)
High Temperature
Low Temperature
Temperature Shock
Solar Radiation (sunshine)
Rain
Humidity (cycling)
Salt Fog
Immersion
Vibration
Mechanical Shock
Gunfire Vibration

MIL-STD-202

Method 101.X
Method 103.X
Method 104.X
Method 105.X
Method 106.X
Method 107.X
Method 108.X
Method 201.X
Method 204.X
Method 206.X

Test Method Standard – Electronic and Electrical Parts

Salt Atmosphere
Humidity (steady state)
Immersion
Barometric Pressure (reduced)
Moisture Resistance (humidity cyclic)
Thermal Shock (air test condition only)
Life (at elevated ambient temperature)
Vibration
Vibration, High Frequency
Life (rotational)

Environmental Simulation Continued:

<u>Test Method</u>	<u>Test</u>
MIL-STD-202	Test Method Standard – Electronic and Electrical Parts (continued)
Method 213.X	Mechanical Shock (specified pulse)
Method 214.X	Random Vibration
Method 215.X	Resistance to Solvents
MIL-STD-883	Test Method Standard – Microcircuits
Method 1001.X	Barometric Pressure, Reduced (test condition A, B, C, D, E)
Method 1002.X	Immersion (test condition A, B, C)
Method 1004.X	Moisture Resistance (cyclic)
Method 1009.X	Salt Atmosphere (corrosion)
Method 1010.X	Temperature Cycling
Method 2005.X	Vibration, Fatigue
Method 2007.X	Vibration, Variable Frequency
Method 2026.X	Random Vibration

Note: X indicates an alphanumeric revision for this MIL specification

RTCA-DO-160D

Section 4	Temperature and Altitude
Section 5	Temperature Variation
Section 6	Humidity
Section 10	Waterproofness (drip and continuous stream proof tests)
Section 11	Fluids Susceptibility
Section 14	Salt Spray
Section 24	Icing (category C)

Note: Environmental and electrical parameters of device under test will be monitored per test and product specification requirements.