



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

ELEMENT MATERIALS TECHNOLOGY – JUPITER

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MECHANICAL

Valid To: February 28, 2023

Certificate Number: 1719.05

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 two satellite laboratory locations listed below, to perform the following tests on the following types of products and materials: Aerospace components, Military equipment, Nuclear equipment, Commercial and Automotive components.

For the following types of industries: Aerospace, Defense, Nuclear, Telecommunications, Electrical, Electronics, Automotive, Information Processing and Scientific Instruments.

Test Description:

Test Method(s)¹:

Leakage (Immersion)

MIL-STD-810, Method 512

Explosive Atmosphere

MIL-STD-810, Method 511;
RTCA/DO-160, Section 9

Fire Resistance/Fire Proofness

SAE AS 4273;
ISO 2685;
SAE AS 1055;
SAE AIR 1377A;
DOT/FAA AC 20-135;
RTCA/DO-160, Section 26;
Rolls-Royce Spec. MTR00072;
Rolls-Royce Spec. FVR08366;
Rolls-Royce Spec. JES 314-1

Continuous Flow/Endurance/Performance²

*Liquid: (1 to 20,000) GPM,
(1 to 12,000) psi, 200 °F*

Triumph Thermal Systems ETS 2507;
Honeywell 41-22911,
Honeywell 12-77690;
UTAS HSER32341;
Rolls-Royce DNS190243

*Gas: (1 to 1,000) PPM,
(18 to 500) psi, (-320 to 2,000) °F,
Thermal Cycling: (0-1.4 million BTUs/m)*

ER8559 PW800 Fuel System Transient Ice Test
Plan
GENx MFO QTS

Test Description:

Test Method(s)¹:

Hydrostatic Pressure/Burst/Pressure²
(70,000 psi max)

Breeze Eastern ECO 28183;
Amerex DTP ES-2010-1052;
MIL-DTL-7905H;
Goodrich ED/3424/55QS;
Goodrich ED/3564/09QS;
Honeywell SOW_WPI_PCE

Pneumatic Static Pressure/Burst/Pressure/ Pressure
Decay²
(30,000 psi max)

Hamilton Sundstrand HSER 30110;
UTAS ED/3578/07/DF;
UTAS ED/3579/07/DP;
Honeywell 08-75701;
Honeywell 12-77690

Fuel Icing

SAE ARP 1401

Impulse

SAE ARP 603;
SAE ARP 1383

ACOUSTICS & VIBRATION

Test Description:

Test Method(s)¹:

Acceleration

MIL-STD-202, Method 212, (*Test Conditions A and C only*);
MIL-STD-810, Method 513;
MIL-E-5272, Rev. C, 22 Jan 71, Para. 4.16

Vibration²
32,000 lbf

RTCA/DO-160, Section 8;
MIL-STD-202, Methods 201, 204, and 214;
MIL-STD-810, Methods 514 and 516;
MIL-E 5272, Rev. C, 22 Jan 71, Para. 4.7;
IEC 68-2-6, IEC 68-2-34

Shock²
Up to 40,000 g

RTCA/DO-160, Section 7;
MIL-STD-202, Methods 202, 205, and 213 (higher levels need drop tower);
MIL-STD-810, Methods 514, 516, Procedures I, II, III, and V;
IEC 68-2-27

SRS²
Up to 250 g
(5 to 2500) Hz

MIL-STD-810, Method 516

¹ When the date, edition, version, etc. is not identified in the scope of accreditation, laboratories may use the version that immediately precedes the current version for a period of one year from the date of publication of the standard measurement method, per part C., Section 1 of A2LA *R101 - General Requirements- Accreditation of ISO-IEC 17025 Laboratories*.

² Using customer-specified test methods utilizing any combinations of test equipment parameters listed above.

Note: this lab is capable of performing current and older versions of MIL-STD-810 (versions B through H) and RTCA/DO-160 (versions B through G) for the methods listed above. The methods listed above on this Scope are accredited.





Accredited Laboratory

A2LA has accredited

ELEMENT MATERIALS TECHNOLOGY - JUPITER

Jupiter, FL

for technical competence in the field of

Mechanical Testing

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 *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 5th day of February 2021.

A blue ink signature of the Vice President of Accreditation Services.

Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 1719.05
Valid to February 28, 2023

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