SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

ELEMENT MATERIALS TECHNOLOGY – JUPITER
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MECHANICAL

Valid To: February 28, 2027 Certificate Number: 7039.01

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory 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)[2,3]	MIL-STD-810, Method 512; SAE AS 2078, Section 4.6
Explosive Atmosphere[2,3]	MIL-STD-810, Method 511; RTCA/DO-160, Section 9
Fire Resistance/Fire Proofness[2,3]	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/Performance[2] *Liquid: (Up to 1,000) GPM,* *(Up to 8,000) psi,* *-100° to 800°F*	ARP492 Continuous Flow; MIL-E-5007, Section 4.6.2.2.5 High Temp Endurance, Section 4.6.2.2.6 Room Temp, Endurance/Contamination, Section 4.6.2.2.7 Low Temp Endurance, Section 4.6.2.2.8 Fuel Pump Cavitation, Section 4.6.2.2.9 Low Lubricity Fuel Test

Test Description:	**Test Method(s)[1]:**
Continuous Flow/Endurance/Performance[2] *Gas: (1 to 1,000) PPM,* *(Up to 500) psi, (-320 to 2,000) ºF,* *Thermal Cycling: (0-1.4 million BTUs/m)*	ER8559 PW800 Fuel System Transient Ice Test Plan; GEnx MFO QTS
Hydrostatic/Pneumatic Proof, Burst and Pressure Decay[2] *(60,000 psi max Hydrostatic)* *(30,000 psi max Pneumatic Static)*	SAE AS 2078, Sections 4.7 Proof Pressure, Section 4.8 Burst Pressure
Fuel Icing[2]	SAE ARP 1401
Impulse[2]	SAE ARP 603; SAE ARP 1383; SAE AS 2078 Section 4.9
Acceleration[2,3]	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
Vibration[2,3] Up to 44,000 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
Shock[2,3] 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
SRS[2,3] 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 test method, per Annex A, Part C of A2LA *R101 - General Requirements: Accreditation of Conformity Assessment Bodies.*

[2] Including customer-supplied specifications directly related to the test technologies and parameters listed above.

[3] 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 10th day of February 2025.

Mr. Trace McInturff, Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 7039.01
Valid to February 28, 2027

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