



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

ELEMENT MATERIALS TECHNOLOGY MINNEAPOLIS LLC  
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ELECTRICAL

Valid to: August 31, 2025

Certificate Number: 1719.02

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory for the following tests on the following products and materials: aircraft components, automotive components, gaskets, seals and packings, packaging and containers, pipes, hoses, valves and fittings, rubber and rubber products, tools, windows and doors, wiring harnesses, subassemblies, telecommunication cabinets and components in the Telecommunications, Aircraft, Aerospace, Automotive, Medical, Defense, Electronics and Agriculture industries.

**Test Technology/Description:**

**Test Method(s)/Standard(s)<sup>1</sup>:**

Conducted Emissions,  
Audio Frequency

MIL-STD-461, Method CE101;  
BOEING D6-16050-4, Sections 8.3.1 and 8.3.2;  
BOEING D6-16050-5, Section 8.1.1;  
BOEING D6-16050-6, Section 8.3

Conducted Emissions,  
Radio Frequency

MIL-STD-461, Method CE102;  
MIL-STD-461, Method CE106;  
RTCA/DO-160, Section 21;  
AIRBUS ABD0100.1.2, Section 3.4.5;  
BOEING D6-16050-4, Section 8.4;  
BOEING D6-16050-5, Section 8.2;  
BOEING D6-16050-6, Section 8.4

Conducted Susceptibility, Audio  
Frequency

MIL-STD-461, Method CS101;  
RTCA/DO-160, Sections 18 and 19;  
AIRBUS ABD0100.1.8, Section 2.4;  
AIRBUS ABD0100.1.2, Section 3.4;  
BOEING D6-16050-4, Section 7.2;  
BOEING D6-16050-5, Section 7.2;  
BOEING D6-16050-6, Section 7.2;  
GR-1089-CORE

Conducted Susceptibility,  
Radio Frequency

MIL-STD-461, Method CS103;  
MIL-STD-461, Method CS104;  
MIL-STD-461, Method CS105;  
MIL-STD-461, Method CS114;  
RTCA/DO-160, Section 20;  
AIRBUS ABD0100.1.2, Section 3.3.2;

**Test Technology/Description:**

**Test Method(s)/Standard(s)¹:**

Conducted Susceptibility,  
Radio Frequency (*cont.*)

BOEING D6-16050-4, Section 7.3;  
BOEING D6-16050-5, Section 7.3;  
BOEING D6-16050-6, Section 7.3

Conducted Susceptibility,  
Transient

MIL-STD-461, Method CS106;  
MIL-STD-461, Method CS115;  
MIL-STD-461, Method CS116;  
MIL-STD-461, Method CS117;  
RTCA/DO-160, Sections 17 and 22;  
AIRBUS ABD0100.1.2, Sections 3.2.2 and 3.4;  
BOEING D6-16050-4, Sections 7.4 and 7.5;  
BOEING D6-16050-5, Sections 7.4 and 7.5;  
BOEING D6-16050-6, Sections 7.4 and 7.5;  
GR-1089-CORE

Radiated Susceptibility,  
Audio Frequency,  
Including DC

MIL-STD-461, Method RS101 (30 Hz to 100 kHz);  
RTCA/DO-160, Section 19;  
AIRBUS ABD0100.1.2, Section 3.4;  
BOEING D6-16050-4, Section 7.2;  
BOEING D6-16050-5, Section 7.2;  
BOEING D6-16050-6, Section 7.2;  
MIL-STD-1399

Radiated Emissions,  
Magnetic Field

MIL-STD-461, Method RE101 (30 Hz to 100 kHz);  
RTCA/DO-160, Section 15;  
AIRBUS ABD0100.1.2, Section 3.4.1

Radiated Emissions,  
Electric Field

MIL-STD-461, Method RE102 (10 kHz to 40 GHz);  
MIL-STD-461, Method RE103 (10 kHz to 40 GHz);  
RTCA/DO-160, Section 21;  
AIRBUS ABD0100.1.2, Section 3.4.5;  
BOEING D6-16050-4, Section 8.4;  
BOEING D6-16050-5, Section 8.2;  
BOEING D6-16050-6, Section 8.4

Radiated Susceptibility,  
Radio Frequency

MIL-STD-461, Method RS103 (10 kHz to 40 GHz, 200 V/m);  
RTCA/DO-160, Section 20;  
AIRBUS ABD0100.1.2, Section 3.3;  
BOEING D6-16050-4, Section 7.3;  
BOEING D6-16050-5, Section 7.3;  
BOEING D6-16050-6, Section 7.3;  
ISO 11452-2:2019

**Test Technology/Description:**

**Test Method(s)/Standard(s)¹:**

Power Quality Test

RTCA/DO-160, Section 16;  
MIL-STD-704;  
MIL-STD-1275;  
MIL-STD-1399;  
AIRBUS ABD0100.1.8, Section 2.4;  
BOEING D6-16050-4, Section 7.5.3;  
BOEING D6-16050-6, Section 7.5.3;  
BOEING 787B3-0147;  
GR-1089-CORE:  
- DC Potential Difference  
- Corrosion  
- Bonding and Grounding  
- DC Power Port

Electrostatic Discharge

MIL-STD-461, Method CS118;  
RTCA/DO-160, Section 25 (ESD);  
AIRBUS ABD0100.1.2, Section 3.5 (ESD) Susceptibility;  
BOEING D6-16050-4, Section 7.1 (ESD) Susceptibility;  
BOEING D6-16050-5, Section 7.1 (ESD);  
BOEING D6-16050-6, Section 7.1;  
GR-1089-CORE

**Telecommunications Tests:**

AC Fault

GR-771-CORE;  
GR-902-CORE;  
GR-950-CORE;  
GR-3121-CORE;  
GR-3123-CORE;  
GR-3125-CORE

Backscatter, Attenuation

GR-13-CORE;  
GR-326-CORE;  
GR-771-CORE;  
GR-950-CORE;  
GR-3120-CORE;  
GR-3121-CORE;  
GR-3123-CORE;  
GR-3125-CORE

RF Performance Tests

ANSI/SCTE 03;  
ANSI/SCTE 04;  
ANSI/SCTE 05;  
ANSI/SCTE 47;  
ANSI/SCTE 49;  
ANSI/SCTE 66;  
ANSI/SCTE 101;  
ANSI/SCTE 125;  
ANSI/SCTE 144

GTEM Shielding

ANSI/SCTE 48-1;  
ANSI /SCTE 48-3

**Telecommunications Tests:**

CATV Resistance Tests

ANSI/SCTE 44;  
ANSI/SCTE 63;  
ANSI/SCTE 70;  
ANSI/SCTE 103;  
ANSI/SCTE 108;  
ANSI/SCTE 152

Industries served: Telecommunications, Aircraft, Aerospace, Defense, and Electronics

**NOTES:**

This laboratory is accredited to perform the current revision level, and old revision levels of the standard methods as indicated below:

MIL-STD-461 (E through G), MIL-STD-704 (A through F), MIL-STD-1275 (A through E), MIL-STD-1399 Section 300 (A through B)

RTCA/DO-160 (A through G)

AIRBUS ABD0100.1.2 (A through G), AIRBUS ABD0100.1.8 (A through E),

AIRBUS ABD0100.1.8.1 (A through C)

BOEING D6-16050-4 (A through F), BOEING D6-16050-5 (A through C), BOEING D6-16050-5 (A through C)

<sup>1</sup>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*.



## Accredited Laboratory

A2LA has accredited

# ELEMENT MATERIALS TECHNOLOGY MINNEAPOLIS LLC

*Minneapolis, MN*

for technical competence in the field of

## Electrical 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 28<sup>th</sup> day of July 2023.

A blue ink signature of Mr. Trace McInturff.

Mr. Trace McInturff, Vice President, Accreditation Services  
For the Accreditation Council  
Certificate Number 1719.02  
Valid to August 31, 2025

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