

SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

NATIONAL TECHNICAL SYSTEMS (NTS)

1155 West 23rd Street, Suite 11-A

Tempe, AZ 85282

Stephan Samples Phone: 480 966 5517

Email: Stephan.samples@nts.com

ELECTRICAL

Valid To: March 31, 2018

Certificate Number: 0214.11

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following automotive, telecommunications, and aerospace testing:

Tests:**Test Specifications/ Methods¹:**

Electrostatic Discharge ²
(Up to 25kV)

MIL-STD-1576 Base (Method 2205);
RTCA/DO-160 D, E, F, G (Section 25);
SAE J1113 Base;
SAE/USCAR Initiator Requirements
(Para. 3.2.1.8.1 & 3.2.1.8.2), June 2005

Dielectric Withstand Voltage ²
(Up to 50kV AC, 60kV DC)

MIL-STD-202 E, F, G (Method 301);
MIL-STD-1344A (through Notice 6), (Method 3001);
MIL-DTL-38999 J, K, L (Amendment 1), (Method 4.5.10);
MIL-PRF-49142 Base A, B (Amendment 1), (Method 4.6.11)

Resistance

MIL-STD-202 E, F, G (Method 303);
MIL-STD-1576 Base (Method 2201);
MIL-HDBK-1512 Base (Method 201);
MIL-DTL-38999 J, K, L (Amendment 1), (Method 4.5.13);
SAE/USCAR Initiator Requirements
(Para. 4.7.2.1 – 4.7.2.3), June 2005

Insulation Resistance

MIL-STD-202 E, F, G (Method 302);
MIL-STD-1344A (through Notice 6), (Method 3003);
MIL-STD-1576 Base (Method 2117);
MIL-DTL-38999 J, K, L (Amendment 1), (Method 4.5.9)

Current

SAE/USCAR Initiator Requirements
(Para. 4.7.3.11 & 4.7.3.12), June 2005

Tests:

Immunity to Electromagnetic
Disturbances

Magnetic Effects

Aerospace

RF Emissions

Test Specifications/ Methods¹:

MIL-STD-462/461 A, B, C (CS01);
MIL-STD-462/461 A, B, C (CS02);
MIL-STD-462/461 A, B, C (CS10);
MIL-STD-462/461 A, B, C (CS11);
MIL-STD-462/461 A, B, C (RS01);
MIL-STD-462/461 A, B, C (RS03);
MIL-STD-462/461D (CS101);
MIL-STD-462/461D (CS114);
MIL-STD-462/461D (CS115);
MIL-STD-462/461D (CS116);
MIL-STD-462/461D (RS101);
MIL-STD-462/461D (RS103);
MIL-STD-461 E, F (CS101);
MIL-STD-461 E, F (CS114);
MIL-STD-461 E, F (CS115);
MIL-STD-461 E, F (CS116);
MIL-STD-461 E, F (RS101);
MIL-STD-461 E, F (RS103);
28400NDS04, 3 (03 Mar. 2003);
28400NDS05, 7 (25 Jun. 2002)

RTCA/DO-160 B, C, D, E, F, G (Section 15)

RTCA/DO-160 B, C, D, E, F, G (Section 16);
RTCA/DO-160 B, C, D, E, F, G (Section 17);
RTCA/DO-160 B, C, D, E, F, G (Section 18);
RTCA/DO-160 B, C, D, E, F, G (Section 19);
RTCA/DO-160 B, C, D, E, F, G (Section 20);
RTCA/DO-160 B, C, D, E, F, G (Section 21);
RTCA/DO-160 B, C, D, E, F, G (Section 22)

MIL-STD-462/461 A, B, C (CE01);
MIL-STD-462/461 A, B, C (CE02);
MIL-STD-462/461 A, B, C (CE10);
MIL-STD-462/461 A, B, C (CE11);
MIL-STD-462/461 A, B, C (RE01);
MIL-STD-462/461 A, B, C (RE03);
MIL-STD-462/461D (CE101);
MIL-STD-462/461D (CE114);
MIL-STD-462/461D (CE115);
MIL-STD-462/461D (CE116);
MIL-STD-462/461D (RE101);
MIL-STD-462/461D (RE103);
MIL-STD-461 E, F (CE101);
MIL-STD-461 E, F (CE102);
MIL-STD-461 E, F (CE106);
MIL-STD-461 E, F (RE101);
MIL-STD-461 E, F (RE102);
MIL-STD-461 E, F (RE103)

Tests:**Test Specifications/ Methods¹:**

Aircraft Electric Power Characteristics	MIL-STD-704 A, B, C, D, E, F; MIL-HDBK-704-1 through -8
Transient Pulse	SAE/USCAR-28 (Section 4.7.3.13), (June 2005)
EMI-Large Signal Analysis	SAE/USCAR-28 (Section 3.2.1.9), Appendix G (June 2005)

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*.

² Also using customer specific test methods utilizing any combination of test equipment parameters listed above.



Accredited Laboratory

A2LA has accredited

NATIONAL TECHNICAL SYSTEMS (NTS)

Tempe, AZ

for technical competence in the field of

Electrical 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 31st day of May 2016.

A handwritten signature in blue ink, appearing to read 'J. C. Bunt'.

Senior Director of Quality and Communications
For the Accreditation Council
Certificate Number 0214.11
Valid to March 31, 2018

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