



THE AMERICAN ASSOCIATION FOR
LABORATORY ACCREDITATION

ACCREDITED LABORATORY

A2LA has accredited

INGENIUM TESTING, LLC
Rockford, IL

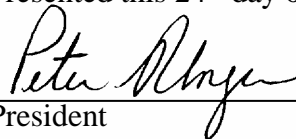
for technical competence in the field of

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 18 June 2005*).



Presented this 24th day of January 2008.



President

For the Accreditation Council

Certificate Number 2674.01

Valid to February 28, 2010

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

SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

INGENIUM TESTING, LLC
3761 South Central Avenue
Rockford, IL 61102
James Blaha 815 315 9250 x117

ELECTRICAL

Valid To: February 28, 2010

Certificate Number: 2674.01

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

<u>Test</u>	<u>Test Method</u>
<i>Emissions</i>	
Radiated Emissions	47 CFR FCC Part 15.109, 209, 225, 231, 247, 249 using ANSI C63.4; 47 CFR FCC Part 18 using ANSI C63.4; FCC/OST MP-5; EN 55011; CISPR 11; AS/NZS CISPR 11; EN 55012; CISPR 12; AS/NZS CISPR 12; EN 55014-1; CISPR 14-1; AS/NZS CISPR 14-1; EN 55022; CISPR 22; AS/NZS CISPR 22; EN 61000-6-3; IEC 61000-6-3; EN 61000-6-4; IEC 61000-6-4; AS/NZS 4268+A1/A2; AS/NZS 4251-1; AS/NZS 4251-2; MIL-STD 461(E) and (F) (<i>Methods: RE101, RE102, RE103</i>); RTCA/DO160 Section 21
Conducted Emissions	47 CFR FCC Part 15.107, 207 using ANSI C63.4; 47 CFR FCC Part 18 using ANSI C63.4; FCC/OST MP-5; EN 55011; CISPR 11; AS/NZS CISPR 11; EN 55012; CISPR 12; AS/NZS CISPR 12; EN 55014-1; CISPR 14-1; AS/NZS CISPR 14-1; EN 55022; CISPR 22; AS/NZS CISPR 22; AS/NZS 4268 +A1/A2; AS/NZS 4251-1; AS/NZS 4251-2; AS/NZS 4250-1; AS/NZS 4250-2; MIL-STD 461(E) and (F) (<i>Methods: CE101, CE102, CE106</i>); RTCA/DO160 Section 21
Harmonics	EN 61000-3-2; IEC 61000-3-2; AS/NZS 61000-3-2
Flicker	EN 61000-3-3; IEC 61000-3-3; AS/NZS 61000-3-3
<i>Immunity</i>	
Electrostatic Discharge (ESD)	EN 61000-4-2; IEC 61000-4-2; AS/NZS 61000-4-2; RTCA/DO160 Section 25
Electrical Fast Transient/Burst	EN 61000-4-4; IEC 61000-4-4; AS/NZS 61000-4-4
Surge Immunity	EN 61000-4-5; IEC 61000-4-5; AS/NZS 61000-4-5
Radiated	EN 61000-4-3; IEC 61000-4-3; AS/NZS 61000-4-3; MIL-STD 461(E) and (F) (<i>Methods: RS101, RS103</i>); RTCA/DO160 Section 20

<u>Test</u>	<u>Test Method</u>
<i>Immunity (cont'd)</i>	
Conducted	EN 61000-4-6; IEC 61000-4-6; AS/NZS 61000-4-6; MIL-STD 461(E) and (F) (<i>Methods: CS101, CS103, CS104, CS105, CS106 (Rev F only), CS109, CS114 (10 kHz to 200 MHz), CS115, CS116</i>) ; RTCA/DO160 Section 20
Power Frequency Magnetic Field	EN 61000-4-8; IEC 61000-4-8; AS/NZS 61000-4-8; RTCA/DO160 Section 15
Pulsed Magnetic Field	EN 61000-4-9; IEC 61000-4-9
Voltage Dips/Interrupts and Variations	EN 61000-11; IEC 6100-11; AS/NZS 61000-4-11; RTCA/DO160 Section 17
Power Input	RTCA/DO160 Section 16
Audio Frequency Conducted Susceptibility Power Inputs	RTCA/DO160 Section 18
Induced Signal Susceptibility	RTCA/DO160 Section 19
Lightning Induced Transient	RTCA/DO160 Section 22
 <i>Generic and Product Family Standards</i>	 EN 61000-6-1; IEC 61000-6-1; AS/NZS 61000-6-1; EN 61000-6-2; IEC 61000-6-2; AS/NZS 61000-6-2; CISPR 14-2; EN 55014-2; AS/NZS CISPR 14-2; CISPR 24; EN 55024; AS/NZS CISPR 24; BS EN 60601-1-2; IEC 60601-1-2; BS EN 60947-1; IEC 60947-1; BS EN 60439-1; IEC 60439-1; BS EN 61326; IEC 61326; BS EN 50130-4; BS EN 50131-1; EN 61800-3, IEC 61800-3 (limited to 75A, 1000V); BS EN ISO 14892, ISO 14892 (using component methods except ISO-7637, ISO-11452-3)
 <i>Radio</i>	
European Union	ETSI EN 300220-1 V2.1.1; ETSI EN 300 220-2 V2.1.1; ETSI EN 300 220-3 V1.1.1; ETSI EN 300 328 V1.7.1; ETSI EN 300 328-1 V1.3.1; ETSI EN 300 328-2 V1.2.1; ETSI EN 300 330 V1.2.1; ETSI EN 300 330-1 V1.5.1; ETSI EN 300 330-2 V1.3.1; ETSI EN 300 440-1 V1.3.1; ETSI EN 300 440-2 V1.1.2; ETSI EN 301 489-1 V1.7.1; ETSI EN 301 489-3 V1.4.1; ETSI EN 301 489-17 V1.3.1;
Canada	RSS-119; RSS-210; RSS-243; ICES-001; ICES-002; ICES-003
 <i>Telecommunications</i>	 47 CFR FCC Parts 2, 90, 95.628