

SCOPE OF ACCREDITATION

**Intertek Testing Services NA Inc
ITS CORTLAND LABORATORY
3933 U.S. Route 11, P.O. Box 2040
Cortland, NY
13045-0950**

Accredited Laboratory No. 86
(Conforms with requirements of CAN-P-4E (ISO/IEC 17025:2005))

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CLIENTS SERVED: All interested parties, some tests are available off-site as per
CAN-P 1632

FIELDS OF TESTING: Biological, Electrical/Electronic, Mechanical/Physical, Thermal
& Fire Resistance

ISSUED ON: 2015-03-17

VALID TO: 2015-12-10

Other location : 75 Clinton Avenue, Cortland NY

The following is a Scope of Accreditation for which this testing laboratory has been accredited to ISO/IEC 17025:2005. Note that the parent organization is also accredited as a certification body. The parent organization's Scope of Accreditation for certification activities may be broader than the listing of standards and test methods that appear below. Refer to the parent organization's Scope of Accreditation granted by the SCC for certification activities found at:

<http://www.scc.ca/en/accreditation/product-process-and-service-certification/directory-of-accredited-clients>

Where standards, such as product standards, are listed below, the laboratory is considered accredited only for the testing elements in those standards.

ELECTRICAL PRODUCTS AND ELECTRONIC PRODUCTS

(Except for: CAN/CSA C22.2 No. 0.17 Evaluation of Properties of Polymeric Materials)

Communications Equipment and Systems:

Wiring and Related Products

CSA C22.2 No. 214.94 Communications Cable

CSA C22.2 No. 232 Optical Fiber Cables

Components and Assemblies:

CSA C22.2 No. 140.3 Refrigerant-Containing Components for Use in Electrical Equipment

Switches and Controls

CSA C22.2 No. 139 Electrically Operated Valves
Except for: clause 7.14 Fatigue test

CSA C22.2 No. 14 Industrial Control Equipment
Except for: CAN/CSA C22.2 No. 0.17 Evaluation of Properties of Polymeric Materials
Clause 6.4 - Overload Relay Calibration
Clause 6.5 - Overload
Clause 6.10 - Short Circuit Calibration of Test Circuits
Clause 6.11 - Short Circuit Overload Relays and Equipment Incorporating Overload Relays
Clause 6.12 - Controllers Intended for Use on Circuits Capable of Delivering High Fault Currents
Clause 6.13 - Group Fusing
Clause 6.14 - Instantaneous Trip Circuit Breakers
Clause 6.15.2 - Flammability of Enclosures

CSA C22.2 No. 142 Process Control Equipment

CSA C22.2 No. 177 Clock Operated Switches

CSA C22.2 No. 199 Combustion Safety Controls and Solid State Igniters for Gas and Oil Burning Equipment

CSA C22.2 No. 3 Electrical Features of Fuel Burning Equipment
Except for: Clause 4.8.1 - Switches and Automatic Control Devices
Clause 8.4 - Temperature Controls

CSA C22.2 No. 42 General Use Receptacles, Attachment Plugs, and Similar Wiring Devices.
Except for: CAN/CSA C22.2 No. 0.17 Evaluation of Properties of Polymeric Materials

Transformers

CSA C22.2 No. 107.1 Commercial and Industrial Power Supplies
Except for: CAN/CSA C22.2 No. 0.17 Evaluation of Properties of Polymeric Materials

CSA C22.2 No. 13 Transformers for Luminous Tube Signs, Oil or Gas Burner Ignition Equipment Cold Cathode Interior Lighting

CSA C22.2 No. 173 Transformers for Toy and Hobby Use

CSA C22.2 No. 223 Power Supplies with Extra-Low-Voltage Class 2 Outputs

CSA C22.2 No. 47 Air Cooled Transformers (Dry Type)

CSA C22.2 No. 66-1	Low Voltage Transformers - Part 1: General Requirements Except for: CAN/CSA C22.2 No. 0.17 Evaluation of Properties of Polymeric Materials
CSA C22.2 No. 66-2	Low Voltage Transformers- Part 2: General Purpose Transformers Except for: CAN/CSA C22.2 No. 0.17 Evaluation of Properties of Polymeric Materials
CSA C22.2 No. 66-3	Low Voltage Transformers- Part 2: Class 2 and Class 3 Transformers Except for: CAN/CSA C22.2 No. 0.17 Evaluation of Properties of Polymeric Materials
CSA C802	Maximum Losses for Distribution, Power, and Dry-Type Transformers

Wiring and Related Products

CSA C22.2 No. 0.3	Test Methods for Electrical Wires and Cables Except for: Clause 4.36.3 - Circuit Integrity
CSA C22.2 No. 131	Type TECK 90 Cable
CSA C22.2 No. 208	Fire Alarm and Signal Cable
CSA C22.2 No. 21	Cord Sets & Power-Supply Cords Except for: Clauses 6.11 Mechanical Drop - Hospital Grade Attachment plug and Cord Connector 6.13 Cycling Heat 6.14 Endurance (Cord Reel) 6.15 Heating (Cord Reel) 6.16 Normal Heating (Cord Reel) 6.19 Endurance (Extension Cord Set Storage Winder) 6.24 Overload 6.25 Abrupt Pull (Cords Employing a Grounding Conductor) 5.26 Improper Insertion
CSA C22.2 No. 38	Thermoset Insulated Wires and Cables
CSA C22.2 No. 49	Flexible Cords and Cables
CSA C22.2 No. 51	Armored Cables
CSA C22.2 No. 75	Thermoplastic Insulated Wires & Cables

Electrical Appliances:

CSA E335-1	Safety of Household and Similar Electrical Appliances-Part 1 General Requirements Except for: Clause 24-Components
CSA E60335-1	Household and similar electrical appliances-Safety- Part 1: General requirements Except for: Clause 24-Components
CSA E60335-2-10	

	Household and similar electrical appliances-Safety- Part 2-10: Particular requirements for floor treatment machines and wet scrubbing machines
CSA E60335-2-13	Household and similar electrical appliances-Safety- Part 2-13: Particular requirements for deep fat fryers, frying pans and similar appliances
CSA E60335-2-29	Household and similar electrical appliances-Safety- Part 2-29: Particular requirements for battery chargers
CSA E60335-2-3	Household and similar electrical appliances-Safety- Part 2-3: Particular requirements for electric irons
CSA E60335-2-41	Safety of Household and Similar Electrical Appliances-Part 2: Particular Requirements for Pumps for Liquids Having a Temperature Not Exceeding 35 Degrees C- General Instructions No 1
CSA E60335-2-54	Safety of Household and Similar Electrical Appliances Part 2: Particular Requirements for Surface-Cleaning Appliances Employing Liquids-General Instructions No 1
CSA E60335-2-69	Household and similar electrical appliances-Safety- Part 2-2: Particular requirements for vacuum cleaners and water-suction cleaning appliances
CSA E60335-2-8	Household and similar electrical appliances Safety Part 2-8: Particular requirements for shavers, hair clippers and similar appliances

Cooking and Liquid Heating

(See also Energy Equipment section for EPA ENERGY STAR Program Requirements for Water Heaters)

CSA C191	Performance of Electric Storage Tank Water Heaters Except for: Clause 3.10 - Cathodic Protection
CSA C22.2 No. 109	Commercial Cooking Appliances
CSA C22.2 No. 110	Construction and Test of Electric Storage-Tank Water Heaters
CSA C22.2 No. 1335.2.9	Portable Electric Motor Operated and Heating Appliances: - Part. Req. for Portable Electric Cooking Appliances
CSA C22.2 No. 61	Household Cooking Ranges Except for: CAN/CSA C22.2 No. 0.17 Evaluation of Properties of Polymeric Materials
CSA C22.2 No. 64	Household Cooking and Liquid-Heating Appliances
CSA C358	Energy Consumption Test Methods for Household Electric Ranges
CSA E335-2-15	Safety of Household and Similar Electrical Appliances Part 2 Req. for Appliances for Heating Liquids
CSA E335-2-21	Safety of Household and Similar Electric Appliances Part 2 Part. Req. for Storage Water Heaters
CSA E60335-2-15	Household and Similar Electrical Appliances - Safety - Part 2-15: Particular requirements for appliances for heating liquids
CSA E60335-2-21	

CSA E60335-2-9	Safety of Household and Similar Electrical Appliances - Part 2: Particular Requirements for Storage Water Heaters Household and similar electrical appliances - Safety - Part 2-9: Particular requirements for grills, toasters and similar portable cooking appliances
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Heating, Refrigerating and Air Conditioning

10 CFR 430, Subpart B, Appendix O	Uniform Test Method for Measuring the Energy Consumption of Vented Home Heating Equipment
AHRI 1010	Drinking Fountains & Self-Contained, Mechanically-Refrigerated Drinking-Water Coolers
AHRI 1060	Rating Air-To-Air Energy Recovery Ventilation Equipment
AHRI 1060	Standard for Performance Rating of Heat Pump Pool Heaters
AHRI 1110*	Mechanical Transport Refrigeration Units
AHRI 270	Sound Rating of Outdoor Unitary Equipment
AHRI 310/380	Packaged Terminal Air Conditioners
AHRI 320	Water-Source Heat Pumps
AHRI 325	Ground Water Source Heat Pumps
AHRI 330	Ground Source Closed-Loop Heat Pumps
AHRI 365	Commercial and Industrial Unitary Air-Conditioning Condensing Units
AHRI 390	Single Package Vertical Air - Conditioners and Heat Pumps
AHRI 400*	Standard for Liquid-to-Liquid Heat Exchangers
AHRI 410	Forced-Circulation Air-Cooling and Air-Heating Coils
AHRI 430	Central-Station Air-Handling Units
AHRI 440	Room Fan-Coil
AHRI 550/590*	Centrifugal & Rotary Screw Water-Chilling Packages
AHRI 820	Ice Storage Bins
AHRI 840-1998	Unit Ventilators
AHRI 880	Air Terminals
AHRI 910	Performance Rating of Indoor Dehumidifiers
ANSI/AHRI 1160-2008	Performance Rating of Heat Pump Pool Heaters
ANSI/AHRI 1200-2008	Performance Rating of Commercial Refrigerated Display Merchandisers and Display Cabinets
ASHRAE 84	Method of Testing Air-To-Air Heat Exchangers
CSA C22.2 No. 104	Humidifiers Except for: CAN/CSA C22.2 No. 0.17 Evaluation of Properties of Polymeric Materials
CSA C22.2 No. 113	Fans and Ventilators Except for: CAN/CSA C22.2 No. 0.17 Evaluation of Properties of Polymeric Materials
CSA C22.2 No. 117	Room Air Conditioners
CSA C22.2 No. 120	Refrigeration Equipment
CSA C22.2 No. 155	Electric Duct Heaters
CSA C22.2 No. 236	

	Heating and Cooling Equipment Except for: CAN/CSA C22.2 No. 0.17 Evaluation of Properties of Polymeric Materials
CSA C22.2 No. 46	Electric Air Heaters
CSA C22.2 No. 63	Household Refrigerators and Freezers Except for: CAN/CSA C22.2 No. 0.17 Evaluation of Properties of Polymeric Materials
CSA C22.2 No. 72	Heater Elements
CSA C22.2 No. 88	Construction and Test of Industrial Heating Equipment
CSA C22.2 No. 92	Dehumidifiers
CSA C273.3	Performance Standard for Split-System Central Air Conditioners and Heat Pumps
CSA C300	Capacity Measurement and Energy Consumption Test Methods for Refrigerators, Combination Refrigerator-Freezers, Freezers
CSA C368.1	Performance Standard for Room Air Conditioners
CSA C370	Cooling Performance of Portable Air Conditioners
CSA C446	Performance of Ground Source Heat Pumps
CSA C655	Performance Standard for Internal Water Loop Heat Pumps
CSA C656	Performance Standard for Single Package Central Air-Conditioners and Heat Pumps
CSA C742	Performance of Automatic Ice-Makers and Ice Storage Bins
CSA C743	Performance Standard for Rating Packaged Water Chillers
CSA C744	Standard for Packaged Terminal Air Conditioners and Heat Pumps
CSA C746	Performance Standard for Rating Large Air Conditioners and Heat Pumps
CSA E335-2-65	Household and similar Electrical Appliances Part 2 Part. Req. for Air Cleaning Appliances
EN 14511-1	Air conditioners, liquid chilling packages and heat pumps with electrically driven compressors for space heating and cooling - Part 1: Terms and definitions
EN 14511-2	Air conditioners, liquid chilling packages and heat pumps with electrically driven compressors for space heating and cooling - Part 2: Test conditions
EN 14511-3	Air conditioners, liquid chilling packages and heat pumps with electrically driven compressors for space heating and cooling - Part 3: Test methods
EN 14511-4	Air conditioners, liquid chilling packages and heat pumps with electrically driven compressors for space heating and cooling - Part 4: Requirements
IEC 60335-2-65	Household and similar electrical appliances - Safety - Part 2-65: Particular requirements for air-cleaning appliances

(EPA ENERGY STAR Program Requirements Product Specification for Air Source Heat Pump (ASHP) and Central Air Conditioner Equipment Version 4.1)

AHRI 210/240-94

ANSI/AHRI 210/240 Unitary Air-Conditioning and Air-Source Heat Pump
Equipment
Performance Rating of Unitary Air-Conditioning &
Air-Source Heat Pump Equipment

(EPA ENERGY STAR Program Requirements Product Specification for Commercial Ice Machines Version 1.1)

AHRI 810 Performance Rating of Automatic Commercial Ice-Makers

(EPA ENERGY STAR Program Requirements Product Specification for Dehumidifiers Eligibility Criteria Version 2.1)

ANSI/AHAM DH-1 Dehumidifiers
Only for: Sections 4, 5 and 7 (using a watt-hour meter)
CSA C749 Performance of Dehumidifiers

(EPA ENERGY STAR Program Requirements Product Specification for Geothermal Heat Pumps Version 3.1)

AHRI 870 Standard for Performance Rating of Direct GeoExchange
Heat Pumps
ISO 13256-1 Water-Source Heat Pumps - Testing and Rating for
Performance
Part 1: Water-to-air and brine-to-air heat pumps
ISO 13256-2 Water-Source Heat Pumps - Testing and Rating for
Performance
Part 2: Water-to-water and brine-to-water heat pumps

(EPA ENERGY STAR Program Requirements Product Specification for Light Commercial HVAC Version 2.1)

ANSI/AHRI 210/240 Performance Rating of Unitary Air-Conditioning &
Air-Source Heat Pump Equipment
ANSI/AHRI 340/360 Performance Rating of Commercial and Industrial Unitary
Air-Conditioning and Heat Pump Equipment

(EPA ENERGY STAR Program Requirements Product Specification for Residential Refrigerators and Freezers Version 4.1)

10 CFR 430, Subpart B,
Appendix A Uniform Test Method for Measuring the Energy
Consumption of Electric Refrigerators and Electric
Refrigerator-Freezers
10 CFR 430, Subpart B,
Appendix A1 Uniform Test Method for Measuring the Energy
Consumption of Electrical Refrigerators and Electrical
Refrigerators/Freezers
10 CFR 430, Subpart B,
Appendix B Uniform Test Method for Measuring the Energy
Consumption of Freezers

10 CFR 430, Subpart B,
Appendix B1

Uniform Test Method for Measuring the Energy
Consumption of Freezers

**(EPA ENERGY STAR Program Requirements Product Specification for Room Air
Conditioners DRAFT Version 2.1)**

10 CFR 430, Subpart B,
Appendix F

Uniform Test Method for Measuring the Energy
Consumption of Room Air Conditioners

Lighting and Fixtures

CSA C22.2 No. 12	Portable Luminaires
CSA C22.2 No. 141-02	Unit Equipment for Emergency Lighting
CSA C22.2 No. 250	Luminaires
CSA C22.2 No. 43	Lampholders
CSA C22.2 No. 74	Lampholders and Control Equipment for Use with Electric Discharge Lamps
CSA C22.2 No. 9	Electric Lighting Fixtures
CSA C22.2 No. 89	Swimming-Pool Luminaires, Submersible Luminaries and Accessories
CSA C653	Performance Standard for Roadway Lighting Luminaires
CSA C654	Fluorescent Lamp Ballasts Efficacy Measurements
CSA C861	Performance of Compact Fluorescent Lamps and Ballasted Adapters
CSA C862	Performance of Incandescent PAR Lamps
ULC/ORD-C924	Photoluminescent and Self-luminous Exit Signs

Miscellaneous Electrical Appliances (Specify)

CSA C22.2 No. 1	Audio, Video and Similar Electronic Equipment
CSA C22.2 No. 10	Electric Floor Surfacing and Cleaning Machines
CSA C22.2 No. 103	Electric Fence Controllers General Instruction 1-2
CSA C22.2 No. 107.2	Battery Chargers
CSA C22.2 No. 108	Liquid Pumps
CSA C22.2 No. 118	Construction and Test of Picture Machines and Appliances
CSA C22.2 No. 122	Hand-Held Electrically Heated Tools
CSA C22.2 No. 128	Vending Machines
CSA C22.2 No. 130	Requirements for Electrical Resistance Cables and Heating Device Sets
CSA C22.2 No. 164	Electric Sauna Heating Equipment
CSA C22.2 No. 187	Electrostatic Air Cleaners
CSA C22.2 No. 189	High Voltage Insect Killers
CSA C22.2 No. 205	Signal Equipment
CSA C22.2 No. 207	Portable and Stationary Electric Signs and Displays
CSA C22.2 No. 218.1	Spas, Hot Tubs, and Associated Equipment
CSA C22.2 No. 218.2	Hydromassage Bathtub Appliances

CSA C22.2 No. 221	Electric Heated Hobby a& Education Type Kilns
CSA C22.2 No. 36	Hairdressing Equipment Only for: hand held hair dryers
CSA C22.2 No. 81	Electric Irons
CSA C22.2 No. 99	Construction and Test of Domestic Electric Ironing Machines
CSA E491	Safety Requirements for Electronic Flash Apparatus for Photographic Purposes
CSA E60335-2-16	Safety of Household and Similar Elec. Appliances Part 2 for Food Waste Disposers
CSA E60335-2-27	Safety of Household and Similar Electrical Appliances Part 2 Part. Req. for Ultra Violet and Infra Red Radiation Skin Treatment Appliances
CSA E60335-2-45	Safety of Household and Similar Elec. Appliances Part 2 for Portable Electric Heating Tools
CSA E60335-2-55	Household and similar electrical appliances Safety Part 2-55: Particular requirements for electrical appliances for use with aquariums and garden ponds
CSA-E60335-2-67	Safety of household and similar electrical appliances Part 2: Particular for floor treatment and floor cleaning machines, for industrial and commercial use

Motor Operated Electrical Appliances

CSA C22.2 No. 112	Clothes Drying Machines
CSA C22.2 No. 1335.1	Portable Electrical Motor-Operated and Heating Appliances Except for: Clause 24 - Components
CSA C22.2 No. 1335.2.14	Portable Electric Motor Operated Heating Appliances Part. Req. Kitchen Appliances
CSA C22.2 No. 195	Motor Operated Food Processing Appliances
CSA C22.2 No. 243	Vacuum Cleaners and Blower Cleaners Except for: Clause 7 - Current-Carrying Hoses
CSA C22.2 No. 247	Operators and Systems of Doors, Gates, Draperies, and Louvres
CSA C22.2 No. 68	Motor Operated Appliances (Household and Commercial)
CSA C22.2 No. 71.1	Portable Electric Tools
CSA C22.2 No. 71.2	Electric Bench Tools
CSA C22.2 No. 73	Construction and Test of Electrically Equipped Machine Tools
CSA C22.2 No. 745	Portable Electric Tools
CSA C361	Test Method for Measuring Energy Consumption and Drum Volume of Electrically Heated Household Tumble-Type Clothes Dryers

Washing Equipment

CSA C22.2 No. 167	Household Dishwashers
CSA C22.2 No. 168	Commercial Dishwashing Machines

CSA C22.2 No. 169	Electric Clothes Washing Machines and Extractors
CSA C22.2 No. 53	Electric Washing Machines
CSA C360	Test Method for Measuring Energy Consumption and Capacity of Automatic Household Clothes Washers
CSA C373	Dishwashers

(EPA ENERGY STAR Program Requirements Product Specification for Clothes Washers Version 5.1)

10 CFR 430, Subpart B, Appendix J1	Uniform Test Method for Measuring the Energy Consumption of Automatic and Semi-Automatic Clothes Washers
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(EPA ENERGY STAR Program Requirements Product Specification for Residential Dishwashers Version 4.1)

10 CFR 430, Subpart B, Appendix C	Uniform Test Method for Measuring the Energy Consumption of Dishwashers
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Equipment, Miscellaneous

Enclosures

CSA C22.2 No. 18	Outlet Boxes, Conduit Boxes, and Fittings
CSA C22.2 No. 60529	Degrees of Protection Provided by Enclosures (IP Code)
CSA C22.2 No. 85	Rigid PVC Boxes and Fittings
CSA C22.2 No. 94	Special Purpose Enclosures

Grounding

CSA C22.2 No. 0.4	Bonding & Grounding of Electrical Equipment
CSA C22.2 No. 41	Grounding & Bounding Equipment

Hazardous Location Equipment

CSA 60079-0	Electrical apparatus for explosive gas atmospheres- Part 0: General requirements
CSA 60079-1	Electrical apparatus for explosive gas atmospheres- Part 1: Flameproof enclosures "d" - first edition
CSA C22.2 No. 137	Electric Luminaires for Use in Hazardous Locations
CSA C22.2 No. 138	Heat Tracing Cable and Cable Sets for Use in Hazardous Locations
CSA C22.2 No. 145	Motors and Generators for Use in Hazardous Locations
CSA C22.2 No. 157	Intrinsically Safe and Non-Incendive Equipment for Use in Hazardous Locations

CSA C22.2 No. 213	Non-Incendive Electrical Equipment for Use in Class I, Division 2 Hazardous Locations
CSA C22.2 No. 22	Electrical Equipment for Flammable and Combustible Fuel Dispensers
CSA C22.2 No. 25	Enclosures for Use in Class II Groups E, F and G Hazardous Locations
CSA C22.2 No. 30	Explosion-Proof Enclosures for Use in Class I Hazardous Locations
CSA E60079-0	Electrical Apparatus for Explosive Gas Atmospheres Part 0 Gen Req.
CSA E60079-1	Electrical Apparatus for Explosive Gas Atmospheres Part 1, Flameproof Enclosures "d"
CSA E60079-11	Electrical Apparatus for Explosive Gas Atmospheres Part II Intrinsic Safety "I" Gen. Instruction NO. 1
CSA E60079-15	Electrical Apparatus for Explosive Gas Atmospheres, Part 15: Electrical Apparatus with Type of Protection "n" Except for: Clause 16 - Luminaires
CSA E60079-2	Electrical Apparatus for Explosive Atmospheres Part 2: Pressurized Enclosures "p"
CSA E60079-5	Electrical Apparatus for Explosive Gas Atmospheres Part 5: Powder Filling "q"
CSA E60079-6	Electrical Apparatus for Explosive Gas Atmospheres Part 6: Oil Immersion "o"
CSA E60079-7	Electrical apparatus for explosive gas atmospheres- Part 7: Increased safety "e" - Second Edition
CSA E61241-1-1	Electrical Apparatus for Use in the Presence of Combustible Dust Part 1-1: Electrical Apparatus Protected by Enclosures and Surface Temperature Limitation-Specification for Apparatus
CSA E79-18	Electrical Apparatus for Explosive Gas Atmospheres, Part 18: Encapsulation "m"
CSA E79-7	Electrical Apparatus for Explosive Gas Atmospheres-Part 7: Increased Safety "e"
IEC 60079-13	Explosive atmospheres -Part 13: Equipment protection by pressurized room 'p'
IEC 60079-25	Explosive atmospheres - Part 25: Intrinsically safe systems
IEC 60079-26	Explosive atmospheres - Part 26: Equipment with equipment protection level (EPL) Ga
IEC 60079-27	Explosive atmospheres - Part 27: Fieldbus intrinsically safe concept (FISCO)
IEC 60079-28	Explosive atmospheres - Part 28: Protection of equipment and transmission systems using optical radiation
IEC 60079-30-1	Explosive atmospheres - Part 30-1: Electrical resistance trace heating - General and testing requirements
IEC 60079-31	Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"
IEC 61241-0	Electrical apparatus for use in the presence of combustible dust - Part 0: General requirements

IEC 61241-1	Electrical apparatus for use in the presence of combustible dust - Part 1: Protection by enclosures 'tD'
IEC 61241-11	Electrical apparatus for use in the presence of combustible dust - Part 11: Protection by intrinsic safety 'iD'
IEC 61241-1-1	Electrical apparatus for use in the presence of combustible dust - Part 1: Electrical apparatus protected by enclosures and surface temperature limitation - Specification for apparatus
IEC 61241-18	Electrical apparatus for use in the presence of combustible dust - Part 18: Protection by encapsulation 'mD'
IEC 61241-4	Electrical apparatus for use in the presence of combustible dust - Part 4: Type of protection 'pD'
IEC 62086-1	Electrical apparatus for explosive gas atmospheres - Electrical resistance trace heating - Part 1: General and testing requirements

Information Processing and Business Equipment:

CSA C22.2 No. 220	Information Processing and Business Equipment
CSA C22.2 No.60950-1	Safety of Information Technology Equipment, Including Electrical Business Equipment Except for: Clause 4.3.12 - Construction Details Clause 6 - Connection to Telecommunication Networks Annex A3 Flaming Oil Test Annex AA Mandrel test

Motors, Generators, and Machines:

CSA C22.2 No. 77	Motors with Inherent Overheating Protection
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Scientific Instruments: (For biological, chemical electrical, mechanical optical and physical examination)

Laboratory Equipment

CSA C22.2 No. 1010.2.020	Safety Requirements for Electrical Equipment for Measurement, Control and Laboratory Use
CSA C22.2 No. 151	Laboratory Equipment
CSA C22.2 No. 231	CSA Safety Requirements for Electrical and Electronic Measuring and Test Equipment
CSA C22.2 No. 61010-1*	Safety Requirements for Electrical Equipment for Measurement, Control, and Laboratory Use, Part 1: General Requirements Except for: Clause 12.2.2 - Accelerated electrons Clause 12.6 - Laser sources Clause 14 - Components

ENVIRONMENTAL AND OCCUPATIONAL HEALTH AND SAFETY

Occupational Health and Safety:

Clothing

(Protective Clothing)

ASTM F1670	Standard Test Method for Resistance of Materials Used in Protective Clothing to Penetration by Synthetic Blood
ASTM F1671	Standard Test Method for Resistance of Materials Used in Protective Clothing to Penetration by Blood-Borne Pathogens Using Phi-X174 Bacteriophage Penetration as a Test System
ASTM F1790	Standard Test Method for Measuring Cut Resistance of Materials Used in Protective Clothing
ASTM F739	Standard Test Method for Permeation of Liquids and Gases through Protective Clothing Materials under Conditions of Continuous Contact
ASTM F903	Standard Test Method for Resistance of Materials Used in Protective Clothing to Penetration by Liquids.
NIJ 0116.00	CBRN Protective Ensemble Standard for Law Enforcement Except for: Section 6.36 (Glove Hand Function Test), 6.19 (Tactical Scenario Test), Section 6.22 (liquid chemical warfare agents) 6.27 (Tearing strength), 6.34 (Total Heat Lost), 6.42 (Slip resistance Test)
NIJ 99-114	Test Protocol For Comparative Evaluation Of Protective Gloves For Law Enforcement And Corrections Applications

Personal Protection

ANSI Z358.1 (ISEA Z358.1)	Emergency Eyewash and Shower Equipment
ANSI Z89.1	Industrial Protection (Headgear)
ANSI/ASSE Z359.1	Safety Requirements for Personal Fall Arrest Systems, Subsequent and Components
ANSI/ASSE Z359.12	Connecting Components for Personal Fall Arrest Systems
ANSI/ASSE Z359.13	Personal Energy Absorbers and Energy Absorbing Lanyards
ANSI/ASSE Z359.14	Safety Requirements for Self-Retracting Devices for Personal Fall Arrest and Rescue Systems Except for: 5b and 5c
ANSI/ASSE Z359.4	Safety Requirements for Assisted-Rescue and Self-Rescue Systems, Subsystems and Components

	Only for: Section 4.3.6.1, Static Strength Test, hoist line Section 4.3.6.2, Static Strength Test, hoist Section 4.3.6.3, Function Test, Force to raise/lower Section 4.3.6.4, Function Test, Slippage Section 4.3.6.5, Function Test, Brake Section 4.3.6.9, Function Test, Secondary Brake
ANSI/ASSE Z87.1 (ISEA Z87.1)	Occupational and Educational Personal Eye and Face Protection Devices
ASTM F1045	Performance Specification for Ice Hockey Helmets
ASTM F1163	Headgear Used in Horse Sports and Horseback Riding
ASTM F1446	Standard Test Methods for Equipment and Procedures Used in Evaluating the Performance Characteristics of Headgear
ASTM F1447	Standard Specification for Helmets Used in Recreational Bicycling or Roller Skating
ASTM F1492	Standard Specification for Protective Headgear Used in Skateboarding and Freestyle Roller Skating
ASTM F1587	Standard Specification for Head and Face Protective Equipment for Ice Hockey Goaltenders
ASTM F513	Safety Specifications for Eye and Face Protective Equipment for Hockey Players
ASTM F887-12	Arc-Resistant Fall Protection Products Only for: section 23.7 for harnesses and shock absorbing lanyards
CPSC 16 CFR Part 1203	Safety Standard for Bicycle Helmets Final Rule
CSA Z259.10	Full body harnesses
CSA Z259.11	Energy absorbers and lanyards
CSA Z259.12	Connecting Components for Personal Fall Arrest Systems (PFAS)
CSA Z259.2.1	Fall Arresters, Vertical Lifelines, and Rails
CSA Z259.2.2	Self-Retracting Devices for Personal Fall-Arrest Systems
CSA Z262.2	Face Protectors and Visors for Ice Hockey Only for: Visor Testing
CSA Z94.1	Industrial Protective Headwear
CSA Z94.3	Industrial Eye and Face Protectors
EN 13061	Shinguards for Association Football Players
ISO10256	Head and Face Protection for Use in Ice Hockey
ND002	Standard Performance Specification for Newly Manufactured Football Helmets.
ND022	Standard Performance Specification for Newly Manufactured Baseball/Softball Batter's Helmets.
ND024	Standard Performance Specification for Newly Manufactured Baseball/Softball Catcher's Helmets with Faceguards.
ND072	Standard Performance Specifications for Newly Manufactured Baseball/Softball Batter's Helmet Mounted Faceguard.
NIJ 0104.2	Police Riot Head Protection (Helmets, Faceshields)

(NFPA Methods

Except for: *Total Heat Loss, Wet Flex, Adhesion after Wet Flex and Flex at Low Temperatures*)

NFPA 1851	Standard On Selection, Care, And Maintenance Of Protective Ensembles For Structural Fire Fighting And Proximity Fire Fighting Only for: Section 11
NFPA 1951	Standard on Protective Ensemble for USAR Operations Except for: Warfare Agents Permeation, ASTM F1868, ASTM F489
NFPA 1971	Protective Ensemble for Structural Fire Fighting (Footwear, Gloves, Clothing, Helmets)
NFPA 1975	Station/Work Uniforms for Fire Fighters
NFPA 1977	Protective Clothing and Equipment for Wildland Fire Fighting (Helmets, Clothing, Footwear)
NFPA 1981	Open-Circuit Self Contained Breathing Apparatus for the Fire Service (SCBA)
NFPA 1982	Personal Alert Safety Systems (PASS) for Fire Fighters
NFPA 1983	Fire Service Life Safety Rope and System Components
NFPA 1991	Vapor-Protective Suits for Hazardous Chemical Emergencies Except for: Slip test, Warfare agent permeation
NFPA 1992	Liquid Splash Protective Suits for Hazardous Chemical Emergencies Except for: Slip test, Warfare agent permeation
NFPA 1994	Standard of Protective Ensemble for Chemical/Biological Terrorism Incidents Except for: Slip test, Warfare agent permeation
NFPA 1999	Protective Clothing for Emergency Medical Operations Except for: Slip test, Warfare agent permeation
NFPA 2112	Standard On Flame-Resistant Garments For Protection Of Industrial Personnel Against Flash Fire Except for: Section 8.5

(Thermal Imagers)

NFPA 1801	Standard On Thermal Imagers For The Fire Service Except for: EMC
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NON METALLIC MINERALS AND PRODUCTS

Energy Equipment: (Appliances)

BTS-2000*

	Method To Determine Efficiency Of Commercial Space Heating Boilers
CGA P.2*	Testing Method for Measuring Annual Fuel Utilization Efficiencies of Residential Furnaces and Boilers
IBR 009	Testing and Rating Standard for Finned Tube (Commercial) Radiation

(ENERGY STAR Program Requirements Product Specification for Commercial Water Heaters Version 1.0)

10 CFR 431, Sub Part G*	Commercial Water Heaters, Hot Water Supply Boilers and Unfired Hot Water Storage Tanks
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(EPA ENERGY STAR Program Requirements Product Specification for Boilers Version 2.1 and for Furnaces Partner Commitments Version 2.0)

10 CFR 430, Subpart B, Appendix N*	Uniform Test Method for Measuring the Energy Consumption of Furnaces and Boilers
ANSI/ASHRAE 124	Methods of Testing for Rating Combination Space-Heating and Water-Heating Appliances

(EPA ENERGY STAR Program Requirements Product Specification for Residential Water Heaters Version 1.1)

10 CFR 430, Subpart B, Appendix E	Uniform Test Method for Measuring the Energy Consumption of Water Heaters
ANSI/ASHRAE 118.2	Methods of Testing for Rating Combination Space-Heating and Water-Heating Appliances Only for: Section 11.2

Natural Gas Fired Appliances

ANSI Z21.10.3*	Gas Water Heaters - Volume III, Storage Water Heaters With Input Ratings Above 75,000 Btu per Hour, Circulating and Instantaneous
CGA 1.1	Domestic Gas Ranges
CGA 1.6	Outdoor Gas Grills
CGA 2.1	Gas Fired Vented Room Heaters
CGA 2.16	Gas-Fired Infrared Heaters
CGA 2.19	Gas Fired Gravity and Fan Type Direct Vent Wall Furnaces
CGA 2.21	Gas Fired Appliances for Outdoor Installation
CGA 2.22	Vented Decorative Gas Appliances
CGA 2.28	Gas-Fired Appliances Equipped with Electrically Operated Automatic Vent Damper Devices Provided as Integral Components
CGA 2.3	Standard for Gas-Fired Central Furnaces
CGA 2.5	Gas Fired Gravity and Fan Type Vented Wall Furnaces

CGA 3.1	Industrial and Commercial Gas-Fired Package Boilers
CGA 3.2	Industrial and Commercial Gas-Fired Package Furnaces
CGA 3.3	Industrial and Commercial Gas-Designed Atmospherically-Fired Vertical Flue Boilers and Hot Water Supply Heaters
CGA 4.3	Circulating Tank, Instantaneous and Large Automatic Storage Type Gas Water Heaters
CGA 7.1	Domestic Gas Clothes Dryers
CGA 7.2	Commercial Gas Clothes Dryers
CGA 7.3	Commercial Gas-Fired Ironers
CGA P.3	Testing Method for Measuring Energy Consumption and Determining Efficiencies of Gas-Fired Water Heaters
CSA 1.8	Food Service Equipment
CSA 2.6/ANSI Z83.8	Gas Unit Heaters and Gas-Fired Dust Furnaces
CSA 3.7/ANSI Z83.4	Non-Recirculating Direct Gas Fired Industrial Air Heaters
CSA 4.3*	Gas Water Heaters - Volume III, Storage Water Heaters With Input Ratings Above 75,000 Btu per Hour, Circulating and Instantaneous
CSA 4.9*	Gas Fired Steam Hot Water Boilers

Oil Fired Appliances

CSA B140.0	General Requirements for Oil Burning Equipment
CSA B140.10	Oil Fired Warm Air Heating Appliances for Mobile Housing and Recreational Vehicles
CSA B140.3	Oil Burning Stoves and Water Heaters
CSA B140.4	Oil-Fired Warm Air Furnaces
CSA B140.7.1	Oil-Fired Steam & Hot-Water Boilers for Residential Use
CSA B211*	Oil-Fired Water Heaters
CSA B212*	Oil-Fired Furnaces and Boilers

Glass and Glass Products:

ANSI Z26.1	Safety Glazing Materials for Glazing Motor Vehicles Operating on Land Highways - Safety Code
CGSB 12.1	Tempered or Laminated Safety Glass

Notes:

CAN-P-4E (ISO/IEC 17025): General Requirements for the Competence of Testing and Calibration Laboratories (ISO/IEC 17025-2005)

* CAN-P-1632 Requirements for the Accreditation of Testing and Calibrations Laboratories Performing On-Site Testing and Calibrations

Standards Council of Canada Accredited Laboratory No. 86

Chantal Guay, ing., P. Eng.
Vice President, Accreditation
Services

Date: 2015-03-17

Number of Scope Listings: 316
SCC 1003-15/136
Partner File #0
Partner: None