New Standards & Editions

C813.1-01, 1st edition
Performance Test Method for Uninterruptible Power Supplies $45

This standard specifies the test method to be used in measuring the electrical characteristics of the following types of uninterruptible power supply (UPS) systems:
- standby
- on-line
- line interactive.

The UPS systems to be evaluated may be used to operate any type of linear or nonlinear load.

The standard outlines the tests to be used in determining energy efficiency and harmonic performance. The efficiency and harmonic performance are determined directly from the input and output voltage and current measurements, thus providing a fast and accurate assessment of the characteristics of the equipment.

The standard also describes the method for measuring and reporting total harmonic distortion (THD).

The test method outlined is capable of accurately assessing both full-load and partial-load characteristics.

CAN/CSA-C13256-1-01, 1st edition
Water Source Heat Pumps–Testing and Rating for Performance–Part 1: Water-to-Air and Brine-to-Air Heat Pumps (Adopted ISO 13256-1:1998 with Canadian deviations, first edition, 1998-08-15) . $105

This standard establishes performance testing and rating criteria for factory-made residential, commercial and industrial, electrically-driven, mechanical-compression type, water-to-air and brine-to-air heat pumps. These requirements are based on the use of matched assemblies.

This standard does not apply to the testing and rating of individual assemblies for separate use, nor to the testing and rating of heat pumps covered in ISO 5151, ISO 13253 or ISO 13256-2.

CAN/CSA-C13256-2-01, 1st edition
Water Source Heat Pumps–Testing and Rating for Performance–Part 2: Water-to-Water and Brine-to-Water Heat Pumps (Adopted ISO 13256-2:1998 with Canadian deviations, first edition, 1998-08-15) . . $70

This standard establishes performance testing and rating criteria for factory-made residential, commercial and industrial, electrically-driven, mechanical-compression type, water-to-water and brine-to-water heat pumps. These requirements are based on the use of matched assemblies.

This standard does not apply to the testing and rating of individual assemblies for separate use or to units having two or more indoor sections connected to a single outdoor section. It does not apply to heat pumps covered in ISO 5151, ISO 13253 or ISO 13256-1.

Z245.11-01, 4th edition
Steel Fittings $70

This standard covers wrought steel buttwelding fittings, including extruded headers and factory-produced bends, primarily intended for use in oil or gas pipeline systems.

The standard covers fittings:
- in sizes from NPS 1/2 to NPS 60, inclusive
- from Grade 207 to Grade 550, inclusive
- in Category I or II:
  - Category I — fittings without requirements for proven notch-toughness properties
  - Category II — fittings with requirements for proven notch-toughness properties.

This standard does not cover assemblies. (An assembly is a grouping of fittings or flanges, or both, joined by one or more circumferential welds.)

Z245.12-01, 4th edition
Steel Flanges $75

This standard covers wrought steel flanges primarily intended for use in oil or gas pipeline systems.

The standard covers flanges:
- in sizes from NPS 1/2 to NPS 60, inclusive
- from Grade 248 to Grade 483, inclusive
- having cold working-pressure ratings designated by nominal pressure classes from PN 20 to PN 420, inclusive
- in Category I or II:
  - Category I — flanges without requirements for proven notch-toughness properties
  - Category II — flanges with requirements for proven notch-toughness properties.

This standard does not cover assemblies. (An assembly is a grouping of fittings or flanges, or both, joined by one or more circumferential welds.)

Z245.15-01, 4th edition
Steel Valves $90

This standard covers the following types of steel valves, mainly intended for use in oil or gas pipeline systems:

- gate valves
- plug valves
- ball valves
- check valves.

The standard covers valves:

- in sizes from NPS 2 to NPS 60, inclusive
- having cold working-pressure ratings designated by nominal pressure classes from PN 20 to PN 420, inclusive
- in Category I or II:
  - Category I — valves without requirements for proven notch-toughness properties
  - Category II — valves with requirements for proven notch-toughness properties.

This standard covers standard end requirements for flanged, buttwelding, and wafer-type valves. Other end configurations are considered non-standard and are subject to agreement between the buyer and the manufacturer.

Nouvelles parutions en français

C360-98, 4e édition
Rendement énergétique, consommation d'eau et capacité des machines à laver électrodomestiques . . 65 $

Cette norme porte sur les machines à laver électrodomestiques compactes et standard, à axe vertical et à axe horizontal.

CAN/CSA-C13256-1-01, 1re édition
Pompes à chaleur à eau–Essais et détermination des caractéristiques de performance–Partie 1 : Pompes à chaleur eau-air et eau glycolée-air (norme ISO 13256-1:1998 adoptée avec exigences propres au Canada, première édition, 1998-08-15) . . . . . 105 $

Cette norme définit les critères d'essai et de détermination des caractéristiques de performance des pompes à chaleur eau-air et eau glycolée-air, à usage résidentiel, commercial ou industriel, entrainées par moteur électrique, à compression mécanique et fabriquées en usine. Les exigences d'essai et de détermination des performances fixées par cette norme sont basées sur l'utilisation de montages adaptés.

Cette norme ne s'applique ni aux essais ni à la détermination des caractéristiques des montages individuels destinés à une utilisation séparée, ni aux essais ni à la détermination des caractéristiques des pompes à chaleur relevant de l'ISO 5151, de l'ISO 13253 ou de l'ISO 13256-2.

CAN/CSA-C13256-2-01, 1re édition
Pompes à chaleur à eau–Essais et détermination des caractéristiques de performance–Partie 2 : Pompes à chaleur eau-eau et eau glycolée-eau (norme ISO 13256-2:1998 adoptée avec exigences propres au Canada, première édition, 1998-08-15) . . . . . 70 $

Cette norme définit les critères d'essai et de détermination des caractéristiques de performance des pompes à chaleur eau-eau et eau glycolée-eau, à usage résidentiel, commercial ou industriel, entrainées par moteur électrique, à compression mécanique et fabriquées en usine. Les exigences d'essai et de détermination des performances fixées par cette norme sont basées sur l'utilisation de montages adaptés.

Cette norme ne s'applique ni aux essais ni à la détermination des caractéristiques des montages individuels destinés à une utilisation séparée, ni aux appareils ayant plusieurs sections intérieures raccordées à une seule section extérieure. Elle ne s'applique pas aux pompes à chaleur relevant de l'ISO 5151, de l'ISO 13253 ou de l'ISO 13256-1.

Amendments

CAN/CSA-Z341-98
Storage of Hydrocarbons in Underground Formations

Revision of Contents, Clauses 2.1, 3.1, 4.3, 9.2.2, 9.3.2, 9.3.7, 10.2.2.2, 10.3.2.2, and 10.3.2.5.

Addition of Clauses 10.2.1.8, 10.3.1.8, and Figure 4.1.

Z662-99
Oil and Gas Pipeline Systems

Revision of the Contents, Clauses 2.1, 3.1, Table 4.1, Table 5.3, Figure 5.1, Clauses 6.5.7, 7.2.1.4, 7.2.1.5, 7.2.1.7, Figure 7.3, Clause 7.2.5.2.2.3(e), Table 7.3, Clause 7.2.5.4.2.1.1, Figures 7.8 and 7.10, Clauses 7.2.5.4.2.1.2, 7.2.5.4.2.3.1, Figure 7.14, Clauses 7.2.6.1.3, 7.2.6.1.4, 7.2.6.4, 7.2.11.1.5, Table 7.9, Clauses 7.2.12.3.2, 7.2.12.5, 7.2.12.9.1.2, 7.2.12.9.4, 7.3.4.4, 8.2.5.1, 8.2.6.4, 9.2, 9.2.5, 9.2.9.1, 9.2.10.2.1, 9.2.10.2.4, 9.4, 9.5, 11.7.1, 11.7.4, 11.7.5, 13.1.3.1, 15.4.1, 15.4.1.1, 15.7.2.3, C8.12, F5.2, and Table K1.

Proposed New Projects

For more information about the proposed development of the following new editions, contact Sally Richardson at 416-747-2746 or sally.richardson@csa.ca:

- **C390, 4th edition**
  Energy Efficiency Test Methods for Three-Phase Induction Motors
- **C747, 2nd edition**
  Energy Efficiency for Single-and Three-Phase Small Motors

Drafts

Please note: Public comments about the draft standards and proposed amendments listed in this issue are due by September 7, 2001.

To receive copies of the following draft standards, or to offer comments, contact Laura Pelan at 416-747-2590 or laura.pelan@csa.ca:

- **C679, 1st edition**
  Installation and Maintenance of Farm Stand-by Electric Power
- **C743, 2nd edition**
  Performance Standard for Rating Packaged Water Chillers
- **N285.6 Series, 2nd edition**
  Material Standards for Reactor Components for CANDU Nuclear Power Plants

Reaffirmed Standards

CAN3-N290.1-80 (R2001)
Requirements for the Shutdown Systems of CANDU Nuclear Power Plants

CAN3-N290.4-M82 (R2001)
Requirements for the Reactor Regulating Systems of CANDU Nuclear Power Plants

CAN/CSA-N290.5-M90 (R2001)
Requirements for the Support Power Systems of CANDU Nuclear Power Plants

CAN3-N290.6-M82 (R2001)
Requirements for Monitoring and Display of CANDU Nuclear Power Plant Status in the Event of an Accident

N292.2-96 (R2001)
Dry Storage of Irradiated Fuel

Formal Interpretations

The following interpretations, regarding **N285.0, Clause 5.1.2**, have been formally approved by the Technical Committee on CANDU Nuclear Power Plant Systems and Components.

Question (a): Does the N285.0-95 standard require pressure retaining systems having a design pressure equal to or less than 103 kPa and containment systems with a design pressure equal to or less than 35 kPa, and their supports to be classified?

Answer: No.

Question (b): For systems having a design pressure at or below 103 kPa (15psi), is N/A in the classification column adequate in the SCL?

Answer: The standard has no position on this question.

Question (c): Does the System Classification List require the CNSC approval when systems having design pressure equal to or below 103 kPa (15psi) are added?

Answer: The standard has no position on this question.

Question (d): For systems having a design pressure at or below 103 kPa (15psi), (if CNSC approval, for the SCL is not required) do the standards deemed by the licensee to be suitable for the service conditions require the CNSC's approval?

Answer: The standard has no position on this question.

Status of CSA Standards Projects

TYPE: **ns** *new standard;* **ne** *new edition;* **spec** *special publication;* **p** *preliminary standard.*

STATUS: **1** *The project is under initial evaluation.*
2 *The technical content is being drafted.*
3 *The draft is undergoing an internal quality audit by CSA.*
4 *The publication is being processed for formal letter-ballot approval.*
5 *The approved publication will be for sale within 2–3 months.*
H *The publication is on hold.*
C *The publication has been cancelled. It will be removed from the next status report.*

SUBJECT	NUMBER	TYPE	STATUS
Performance, Energy Efficiency, and Renewables			
Performance Standard for Dusk-to-Dawn Luminaires	C239	ne	3
Energy Consumption Test Methods for Household Electric Ranges	C358	ne	2
Test Method for Measuring Energy Consumption and Drum Volume of Electrically Heated Household Tumble-Type Clothes Dryers	C361	ne	2
Energy Efficient Test Methods for Three-Phase Induction Motors	C390	ne	1
Design and Installation of Earth Energy Heat Pump Systems for Commercial, Industrial, Residential and Other Small Buildings (Note: This formerly appeared as C445.)	C448	ne	3
Performance Standard for Roadway Lighting Luminaires	C653	ne	2
Performance Standard For Rating Packaged Water Chillers	C743	ne	2
Energy Efficiency for Single- and Three-phase Small Motors	C747	ne	1
Maximum Losses for Power Transformers	C802.3	ns	4
Small Fluid Pumps	C820	ns	2
Performance of Internally Lighted Exit Signs	C860	ne	5
Performance of Incandescent Reflector Lamps	C862	ne	5
Performance of Ballast for Use With High Intensity Discharge Lamps	C863	ns	2
Crystalline Silicon Terrestrial Photovoltaic (PV) Modules Design Qualification and Type Approval	C61215	ns	4
Residential Mechanical Ventilation Systems	F326	ne	2
Fire Safety and Fuel Burning Equipment			
Installation Code for Oil Burning Equipment	B139	ne	2
General Requirements for Oil Burning Equipment	B140.0	ne	3
Oil Fired Furnaces	B140.4	ne	2
Oil Fired Steam and Hot Water Boilers for Residential Use	B140.7.1	ne	2
Oil Fired Steam and Hot Water Boilers for Commercial and Industrial Use	B140.7.2	ne	1
Oil Fired Warm Air Heating Appliances for Mobile Housing and Recreational Vehicles	B140.10	ne	1
Oil-Fired Service Water Heaters and Swimming Pool Heaters	B140.12	ne	3
Installation Code for Hydronic Heating Systems	B214	ne	5
Mechanical Flue-Gas Exhausters	B255	ne	2
Installation and Maintenance of Farm Stand-by Electric Power	C679	ns	3
Nuclear			
General Requirements for Pressure-Retaining Systems and Components in CANDU Nuclear Power Plants	N285.0	ne	4
Periodic Inspection of CANDU Nuclear Power Plant Components	N285.4	ne	2

SUBJECT	NUMBER	TYPE	STATUS
Material Standards for Reactor Components for CANDU Nuclear Power Plants (This series consists of N285.6.1–N285.6.11.)	N285.6 Series	ne	2
Technical Requirements for In-Service Evaluation of Zirconium Alloy Pressure Tubes in CANDU Reactors	N285.8	ns	3
Management System Requirements for Nuclear Power Plants	N286.0	ne	2
Environmental Requirements for the Design of CANDU Nuclear Power Plants	N290.13	ns	4
Fire Protection for CANDU Nuclear Power Plants	N293	ne	1
Oil & Gas Industry Systems			
Steel Line Pipe	Z245.1	ne	3
Coiled Aluminum Line Pipe and Accessories	Z245.6	ne	3
External Fusion Bond Epoxy Coating for Steel Pipe	Z245.20	ne	3
External Polyethylene Coating for Pipe	Z245.21	ne	3
Liquefied Natural Gas (LNG)–Production, Storage, and Handling	Z276	ne	4
Storage of Hydrocarbons in Underground Formations	Z341	ne	2
Oil and Gas Pipeline Systems	Z662	ne	2