

# **INFO UPDATE**

**Volume 2    March/April 2001**

**Issue date: March 27, 2001**

**Deadline for comments: April 26, 2001**

## Board elections coming soon

Every two years the voting members of CSA International elect a board of directors. 2001 is an election year, and so we will be mailing an information circular and nomination forms to all voting members in early April. **Watch for this important information.**

Your vote is a valuable contribution to the governance and direction of CSA. To be eligible to vote, you must be a designated representative of a Sustaining Member, or an individual serving as a voting member on a committee.

## CSA Glossary revised

An updated version of our popular glossary (CSA-SDP-4.2-2001) is now available. It contains over 1000 commonly used initials, terms and acronyms related to the field of standardization, including abbreviations for organizations, agencies, committees and documents often referenced by CSA staff and volunteers. This publication is an essential tool for anyone trying to navigate through the alphabet soup of the standards world.

Note: Because most of the abbreviations and acronyms listed in this glossary do not have a French equivalent, this publication is available only in English.

For a complimentary copy of this publication, please contact Member Services:

E-mail: [member@csa-international.org](mailto:member@csa-international.org)

Telephone: 416-747-4099

Fax: 416-747-2473

## For more information ...

For more information about the activities of CSA's Consumer and Member Services, please contact:

### Jeanne Bank

Manager, Consumer and Member Services

178 Rexdale Blvd., Toronto, ON M9W 1R3

Telephone: 416-747-2624

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E-mail: [jeanne.bank@csa-international.org](mailto:jeanne.bank@csa-international.org)  
or [Consumer\\_Services@csa-international.org](mailto:Consumer_Services@csa-international.org)

## Les élections au Conseil d'administration : c'est pour bientôt

Tous les deux ans, les membres votants de CSA International élisent un nouveau conseil d'administration. Des élections auront lieu en 2001 et c'est pourquoi tous les membres votants recevront, au début du mois d'avril, une circulaire d'information ainsi que des formulaires de mise en candidature. **Surveillez l'arrivée de ces importants documents.**

Votre vote exerce une influence décisive sur la gestion et l'orientation de CSA International. Pour avoir le droit de vote, vous devez être le représentant désigné d'un membre de soutien ou être membre votant d'un comité.

## Le nouveau glossaire CSA

Vous pouvez maintenant vous procurer une version mise à jour du populaire glossaire CSA (CSA-SDP-4.2-2001). Ce document regroupe plus de 1 000 sigles, termes et acronymes fréquemment utilisés dans le domaine de la normalisation, y compris les abréviations des noms d'organismes, de comités et de documents les plus souvent cités en référence par les employés et les membres volontaires de CSA International. Cette publication constitue un outil essentiel pour tous ceux qui souhaitent bien maîtriser la terminologie du secteur de la normalisation.

Note : Le glossaire n'est offert qu'en anglais car la plupart des abréviations et des acronymes qui y sont inclus n'ont pas d'équivalents français.

Pour obtenir un exemplaire gratuit de cette publication, communiquez avec les Services aux membres.

Courriel : [member@csa-international.org](mailto:member@csa-international.org)

Téléphone : 416-747-4099

Télécopieur : 416-747-2473

## Pour plus de renseignements ...

Pour plus de renseignements au sujet des activités des Services aux membres et aux consommateurs de CSA International, communiquez avec :

### Jeanne Bank

Chef, Services aux membres et aux consommateurs

178, boul. Rexdale, Toronto (Ontario) M9W 1R3

Téléphone : 416-747-2624

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Courriel : [jeanne.bank@csa-international.org](mailto:jeanne.bank@csa-international.org)

ou [Consumer\\_Services@csa-international.org](mailto:Consumer_Services@csa-international.org)



# Gas Equipment

## New Standards & Editions

ANSI Z21.18-2000/CSA 6.3-2000, 2nd edition  
*Gas Appliance Pressure Regulators* . . . . . \$235

This standard details test and examination criteria for

gas appliance pressure regulators for use with natural, manufactured and mixed gases, liquefied petroleum gases and LP gas-air mixtures. Such devices, either individually or in combination with other controls, are intended to control selected outlet gas pressures to individual gas appliances.

**NOW AVAILABLE!**

## Second edition of *Gas Technician 3* training series!

Get the new edition of the Gas Technician 3 (GT3) training series – the first part of the Gas Technician Series for installing and servicing natural gas and propane appliances and equipment. The GT3 series sets the foundation for the more advanced GT2 and GT1 series.

The series is designed to prepare trainees to pass their accreditation exams on the first attempt. Resources for students and instructors include examples, charts, forms, tables, checklists, sample worksheets, assignments, and illustrations.

The new GT3 second edition incorporates many updates, including the following:

- References have been expanded to make the material relevant for all Canadian jurisdictions.
- Text and illustrations have been added or clarified in response to feedback from instructors and students.
- References have been updated to the 2000 editions of the B149 codes.
- Many questions have been added to the student assignments, designed to focus the students on the key learning objectives.
- Answer keys have been moved from the student materials to the instructor materials, giving the instructor greater flexibility.
- Materials have been updated to address new technology.

The student training materials for all nine modules in the GT3 series are available individually, or in the cost-saving package described below. The instructor package is available only as a complete set.

### Gas Tech 3 student modules:

- |  |      |
|--|------|
| 1 Safety . . . . .   | \$35 |
| 2 Fasteners, Tools, and Testing Instruments . .                          | \$35 |
| 3 Properties, Characteristics, and Safe Handling of Fuel Gases . . . . . | \$35 |
| 4 Utilization Codes, Acts, & Regulations . . . .                         | \$35 |
| 5 Introduction to Electricity . . . . .                                  | \$35 |
| 6 Technical Manuals, Specifications, Drawings, and Graphs . . . . .      | \$35 |
| 7 Customer Relations . . . . .   | \$35 |
| 8 Introduction to Piping & Tubing Systems . .                            | \$35 |
| 9 Introduction to Gas Appliances . . . . .                               | \$35 |

*Complete CSA Gas Technician 3 – Student Package*, containing modules 1 to 9 . . . . . \$190

*Complete CSA Gas Technician 3 – Instructor Package*, containing instructor's manual and other instruction materials, illustrations and overheads for modules 1 to 9 . . . . . \$45

**For more information, call 1-800-463-6727.  
[In Toronto, call 416-747-4044.]**



## New Standards (cont'd)

ANSI Z21.21-2000/CSA 6.5-2000, 2nd edition  
*Automatic Valves for Gas Appliances* . . . . . \$235

This standard applies to individual automatic valves and automatic valves used as part of an automatic gas ignition system. This standard also applies to commercial/industrial safety shutoff valves.

It covers automatic valves having maximum operating gas pressure ratings of 1/2, 2, or 5 psi (3.5, 13.8, or 34.5 kPa), or higher than 5 psi in 5 psi increments up to and including a maximum operating pressure of 60 psi (413 kPa). Z21.21 does not apply to self-contained water heater, cooking appliance or room heater thermostats or self-contained automatic gas shutoff valves for hot water supply systems.

ANSI Z21.80b-2000/CGA 6.22b-2000  
*Addenda 2 to "Line Pressure Regulators"* . . . . . \$40

This document provides revisions to ANSI Z21.80-1997/CGA 6.22-M97 and ANSI Z21.80a-2000/CGA 6.22a-2000.

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## Proposed New Projects

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For more information about the proposed development of the following new edition, contact Shelley Van Sickle at 416-747-2281 or [shelley.vansickle@csa-international.org](mailto:shelley.vansickle@csa-international.org):

- **CSA 12.2, 4th edition**  
*Fuel System Components for Natural Gas Powered Vehicles*

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## Drafts

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The Gas Equipment draft material sent for review consists only of pages being revised from the previous draft or edition; that is, the review material usually does not include a copy of the entire standard.

**Please note:** Public comments about draft materials listed in this issue are due by April 26, 2001.

To receive copies of the following proposed revisions, or to offer comments, contact Susan Taylor at 416-747-4001, or fax 416-747-2473, or e-mail [susan.taylor@csa-international.org](mailto:susan.taylor@csa-international.org):

- **CSA 6.18, proposed new edition**  
*Service Regulators for Natural Gas*

- **CSA 12.6, proposed amendment**  
*Vehicle Refuelling Appliances*
- **CSA B108, proposed amendment**  
*Natural Gas Fuelling Stations Installation Code*
- **ANSI Z21.63/CSA 11.3, proposed Addenda b**  
*Portable Type Gas Camp Heaters*
- **ANSI Z21.72/CSA 11.2, proposed Addenda b**  
*Portable Type Gas Camp Stoves*
- **ANSI Z21.73/CSA 11.1, proposed Addenda b**  
*Portable Type Gas Camp Lights*
- **ANSI Z83.19/CSA 2.35, proposed Addenda a**  
*Gas-Fired High-Intensity Infrared Heaters*
- **ANSI Z83.20/CSA 2.34, proposed Addenda a**  
*Gas-Fired Low-Intensity Infrared Heaters*

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## Reaffirmed Standards

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- CGA 1.3-1974 (R2001)**  
*Domestic Hot Plates and Laundry Stoves*
- CAN1-1.16-M79 (R2001)**  
*Propane Fired Cooking Appliances for Recreational Vehicles*
- CAN1-2.23-M82 (R2001)**  
*Gas-Fired Portable Infrared Heaters*
- CAN1-6.2-M81 (R2001)**  
*Draft Hoods*
- CAN1-6.4-M79 (R2001)**  
*Automatic Gas Ignition Systems and Components*
- CAN1-6.6-M78 (R2001)**  
*Gas Appliance Thermostats*
- CAN/CGA-8.1-M86 (R2001)**  
*Elastomeric Composite Hose and Hose Couplings for Conducting Propane and Natural Gas*
- CAN1-8.3-77 (R2001)**  
*Thermoplastic Hose and Hose Couplings for Conducting Propane and Natural Gas*
- CAN1-11.4-M79 (R2001)**  
*Portable-Type Gas Camp Refrigerators*

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## Withdrawn Standards

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- CAN1-3.12-78 (R1996)**  
*Direct Gas Fired Door Air Heaters*



## New Standards & Editions

**CAN/CSA-ISO 10993-1-01, 2nd edition**  
*Biological Evaluation of Medical Devices—Part 1: Evaluation and Testing* (Adopted ISO 10993-1:1997, second edition) . . . . . \$50

This standard describes the following:

- a) the general principles governing the biological evaluation of medical devices
- b) the categorization of devices based on the nature and duration of their contact with the body
- c) the selection of appropriate tests.

**CAN/CSA-ISO 10993-5-01, 2nd edition**  
*Biological Evaluation of Medical Devices—Part 5: Tests for In Vitro Cytotoxicity* (Adopted ISO 10993-5:1999, second edition) . . . . . \$40

This standard describes test methods for assessing the in vitro cytotoxicity of medical devices. These methods specify the incubation of cultured cells (either directly or through diffusion) with extracts of a device and/or in contact with a device. The methods are designed to determine the biological response of mammalian cells in vitro using appropriate biological parameters.

**CAN/CSA-M3776-00, 1st edition**  
*Tractors for Agriculture—Seat Belt Anchorages* (Adopted ISO 3776:1989, second edition) . . . . . \$30

This standard specifies requirements for: the location of the anchorages for pelvic restraint belts for operators of agricultural tractors fitted with a cab or frame; the force that the anchorages must be able to withstand; and the tests the anchorages must be subjected to.

**CAN/CSA-Z8835-2-01, 1st edition**  
*Inhalational Anaesthesia Systems—Part 2: Anaesthetic Breathing Systems for Adults* (Adopted ISO 8835-2:1999, second edition) . . . . . \$80

This standard specifies requirements for inhalational anaesthetic breathing systems for adults, which are supplied either assembled by the manufacturer or for assembly by the user. It also covers circle absorber assemblies, exhaust valves, and inspiratory and expiratory valves. In some designs, it also covers the parts of an anaesthetic breathing system that are incorporated in an anaesthetic workstation, including the expiratory gas pathway of an anaesthetic ventilator and any parts of a non-operator-detachable anaesthetic-gas scavenging system (AGSS).

**CAN/CSA-Z8836-01, 2nd edition**  
*Suction Catheters for Use in the Respiratory Tract* (Adopted ISO 8836:1997, second edition) . . . . . \$65

This standard specifies requirements for plastic suction catheters for use in suction of the respiratory tract.

It does not cover specialized suction catheters (such as those with more than one lumen). It does cover angled-tip suction catheters (such as Coudé catheters), which are not considered specialized.

The following six standards were developed by the International Electrotechnical Commission (IEC), and have been adopted by CSA International.

**CAN/CSA-C22.2 No. 601.2.3A-01**  
*Amendment 1:2001 to CAN/CSA-C22.2 No. 601.2.3-92, “Medical Electrical Equipment—Part 2: Particular Requirements for the Safety of Short-Wave Therapy Equipment”* (Adopted Amendment 1:1998 to IEC 601-2-3 (1991), without modification) . . . . . \$130

**CAN/CSA-C22.2 No. 601.2.17A-01 (bilingual)**  
*Amendment 1:2001 to CAN/CSA-C22.2 No. 601.2.17-94, “Medical Electrical Equipment—Part 2: Particular Requirements for the Safety of Remote-Controlled Automatically-Driven Gamma-Ray Afterloading Equipment”* (Adopted Amendment 1:1996 to IEC 601-2-17 (1989), without modification) . . . . . \$85

**CAN/CSA-C22.2 No. 601.2.19A-01 (bilingual)**  
*Amendment 1:2001 to CAN/CSA-C22.2 No. 601.2.19-92, “Medical Electrical Equipment—Part 2: Particular Requirements for the Safety of Baby Incubators”* (Adopted Amendment 1:1996 to IEC 601-2-19 (1990), without modification) . . . . . \$85

**CAN/CSA-C22.2 No. 601.2.20A-01 (bilingual)**  
*Amendment 1:2001 to CAN/CSA-C22.2 No. 601.2.20-92, “Medical Electrical Equipment—Part 2: Particular Requirements for the Safety of Transport Incubators”* (Adopted Amendment 1:1996 to IEC 601-2-20 (1990), without modification) . . . . . \$95

**CAN/CSA-C22.2 No. 601.2.21A-01 (bilingual)**  
*Amendment 1:2001 to CAN/CSA-C22.2 No. 601.2.21-98, “Medical Electrical Equipment—Part 2: Particular Requirements for the Safety of Infant Radiant Warmers”* (Adopted Amendment 1:1996 to IEC 601-2-21 (1994), without modification) . . . . . \$85



**CAN/CSA-C22.2 No. 601.2.31A-01**  
*Amendment 1:2001 to CAN/CSA-C22.2 No. 601.2.31-98, "Medical Electrical Equipment—Part 2: Particular Requirements for the Safety of External Cardiac Pacemakers With Internal Power Source"* (Adopted Amendment 1:1998 to IEC 601-2-31 (1994), without modification) . . . . . \$95

Les quatre normes qui suivent ont été élaborées par la Commission Électrotechnique Internationale (CEI) et adoptées par CSA International.

## Nouvelles parutions en français

**CAN/CSA-ISO 10993-1-01, 2<sup>e</sup> édition**  
*Évaluation biologique des dispositifs médicaux—Partie 1 : Évaluation et essais* (norme ISO 10993-1:1997 adoptée, deuxième édition) . . . . . 50 \$

Cette norme décrit :

- a) les principes généraux sur lesquels repose l'évaluation biologique des dispositifs médicaux ;
- b) la classification de dispositifs, basée sur la nature et la durée de leur contact avec le corps humain ;
- c) le choix des essais appropriés.

**CAN/CSA-ISO 10993-5-01, 2<sup>e</sup> édition**  
*Évaluation biologique des dispositifs médicaux—Partie 5 : Essais concernant la cytotoxicité in vitro* (norme ISO 10993-5:1999 adoptée, deuxième édition) . . . . . 40 \$

Cette norme décrit des méthodes d'essai pour mesurer la cytotoxicité in vitro des dispositifs médicaux.

Ces méthodes spécifient l'incubation de cellules en culture soit directement, soit par diffusion a) avec des extraits du dispositif, et/ou b) en contact direct avec le dispositif. Ces méthodes sont destinées à déterminer la réponse biologique de cellules de mammifères in vitro, à l'aide de paramètres biologiques appropriés.

**M421-00, 3<sup>e</sup> édition**  
*Utilisation de l'électricité dans les mines* . . . . . 75 \$

Cette norme établit les exigences minimales relatives aux travaux d'électricité et à l'appareillage électrique fonctionnant, ou destiné à fonctionner, dans les mines et les carrières.

**CAN/CSA-M3776-00, 1<sup>re</sup> édition**  
*Tracteurs agricoles—Ancrages pour ceintures de sécurité* (norme ISO 3776:1989 adoptée) . . . . . 30 \$

Cette norme fixe les spécifications de l'emplacement des ancrages de ceintures pelviennes pour conducteurs de tracteurs agricoles équipés d'un bâti de protection, la force à laquelle ils doivent être capables de résister et les essais auxquels ils doivent être soumis.

**CAN/CSA-C22.2 n° 601.2.17A-01 (bilingue)**  
*Amendement 1:2001 de CAN/CSA-C22.2 n° 601.2.17-94, Appareils électromédicaux—Partie 2 : Règles particulières de sécurité des appareils projecteurs de sources radioactives automatiques télécommandés utilisés en radiothérapie par rayonnement gamma* (norme CEI 601-2-17 (1989) adoptée, Amendement 1:1996, sans modification) . . . . . 85 \$

**CAN/CSA-C22.2 n° 601.2.19A-01 (bilingue)**  
*Amendement 1:2001 de CAN/CSA-C22.2 n° 601.2.19-92, Appareils électromédicaux—Partie 2 : Règles particulières de sécurité des incubateurs pour bébés* (norme CEI 601-2-19 (1990) adoptée, Amendement 1:1996, sans modification) . . . . . 85 \$

**CAN/CSA-C22.2 n° 601.2.20A-01 (bilingue)**  
*Amendement 1:2001 de CAN/CSA-C22.2 n° 601.2.20-92, Appareils électromédicaux—Partie 2 : Règles particulières de sécurité des incubateurs de transport* (norme CEI 601-2-20 (1990) adoptée, Amendement 1:1996, sans modification) . . . . . 95 \$

**CAN/CSA-C22.2 n° 601.2.21A-01 (bilingue)**  
*Amendement 1:2001 de CAN/CSA-C22.2 n° 601.2.21-98, Appareils électromédicaux—Partie 2 : Règles particulières de sécurité pour les incubateurs radiants pour nouveau-nés* (norme CEI 601-2-21 (1994) adoptée, Amendement 1:1996, sans modification) . . . . . 85 \$

## Drafts

**Please note:** Public comments about draft standards and proposed amendments listed in this issue are due by April 26, 2001.

To receive copies of the following draft standard, or to offer comments, contact Nancy Bestic at 416-747-2710 or [nancy.bestic@csa-international.org](mailto:nancy.bestic@csa-international.org):

- **Z317.11, 2nd edition**  
*Area Measurement for Health Care Facilities*

To receive copies of the following draft standard, or to offer comments, contact Andre Wisaksana at 416-747-4242 or [andre.wisaksana@csa-international.org](mailto:andre.wisaksana@csa-international.org):

- **Z317.1-99, proposed amendment**  
*Special Requirements for Plumbing*  
 Proposed amendment to Clause 1.3.



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## Proposed New Projects

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For more information about the proposed development of the following new publication, contact Ian Brodie at 416-747-2670 or [ian.brodie@csa-international.org](mailto:ian.brodie@csa-international.org):

- **PLUS 1159, 1st edition**  
*Customer Service Guide for Persons with Disabilities*

For more information about the proposed development of the following new standard, contact Jeffrey Kraegel at 416-747-2249 or [jeffrey.kraegel@csa-international.org](mailto:jeffrey.kraegel@csa-international.org):

- **Z305.8, 1st edition**  
*Medical Supply Units*

For more information about the proposed development of the following new handbook, contact Steve Paniri at 416-747-4118 or [steve.paniri@csa-international.org](mailto:steve.paniri@csa-international.org):

- **B44 Handbook, 1st edition**  
*Safety Code for Elevators Handbook*

For more information about the proposed development of the following new editions, contact Dave Shanahan at 416-747-2586 or [dave.shanahan@csa-international.org](mailto:dave.shanahan@csa-international.org):

- **Z275.1, 4th edition**  
*Hyperbaric Facilities*
- **Z275.2, 4th edition**  
*Occupational Safety Code for Diving Operations*
- **Z275.4, 2nd edition**  
*Competency Standard for Diving Operations*

For more information about the proposed development of the following new edition, contact Andre Wisaksana at 416-747-4242 or [andre.wisaksana@csa-international.org](mailto:andre.wisaksana@csa-international.org):

- **Z318, 2nd edition**  
*Commissioning of Health Care Facilities*

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## Reaffirmed Standards

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CAN/CSA-B651-95 (R2001)  
*Barrier-Free Design*

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## Certification Notices

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Please note: ► Notices marked with an arrowhead are new in this issue.

Effective Date	Subject	Title
July 30, 2001	Publication of CSA International's Z94.3-99 (5th edition), <i>Industrial Eye and Face Protectors</i> .	Occupational Health and Safety Products No. 37
January 1, 2003	Publication of standards on <i>Medical Electrical Equipment</i> : CAN/CSA-C22.2 No. 601.1.3-98, No. 601.1.1S1-94, and No. 601.2.21, .23, .27, .31, .32, .33, and .34. (Products may be evaluated to these standards now.)	Health Care Equipment No. 11



# Electrical/Electronics

## New Standards & Editions

The standards in this section were developed by the International Electrotechnical Commission (IEC), and have been adopted by CSA International.

- CAN/CSA-E730-2-3A-01 (bilingual standard)**  
*Amendment 1:2001 to CAN/CSA-E730-2-3-94, "Automatic Electrical Controls for Household and Similar Use—Part 2: Particular Requirements for Thermal Protectors for Ballasts for Tubular Fluorescent Lamps"* (Adopted CEI/IEC 730-2-3 (1990), Amendment 1:1995, without modifications) . . . . . \$45
- CAN/CSA-E730-2-4A-01 (bilingual standard)**  
*Amendment 1:2001 to CAN/CSA-E730-2-4-94, "Automatic Electrical Controls for Household and Similar Use—Part 2: Particular Requirements for Thermal Motor Protectors for Motor-Compressors of Hermetic and Semi-Hermetic Type"* (Adopted Amendment 1:1994 to CEI/IEC 730-2-4 (1990), without modifications) \$65
- CAN/CSA-E730-2-7A-01 (bilingual standard)**  
*Amendment 1:2001 to CAN/CSA-E730-2-7-94, "Automatic Electrical Controls for Household and Similar Use—Part 2: Particular Requirements for Timers and Time Switches"* (Adopted Amendment 1:1994 to CEI/IEC 730-2-7 (1990), without modifications) \$80
- CAN/CSA-E730-2-10A-01 (bilingual standard)**  
*Amendment 1:2001 to CAN/CSA-E730-2-10-94, "Automatic Electrical Controls for Household and Similar Use—Part 2: Particular Requirements for Electrically Operated Motor Starting Relays"* (Adopted Amendment 1:1994 to CEI/IEC 730-2-10 (1991), without modifications) . . . . . \$35
- CAN/CSA-E730-2-12A-01 (bilingual standard)**  
*Amendment 1:2001 to CAN/CSA-E730-2-12-94, "Automatic Electrical Controls for Household and Similar Use—Part 2: Particular Requirements for Electrically Operated Door Locks"* (Adopted Amendment 1:1995 to CEI/IEC 730-2-12 (1993), without modifications) \$45

## Nouvelles parutions en français

Les nouvelles normes qui suivent ont été élaborées par la Commission Électrotechnique Internationale (CEI) et adoptées par CSA International.

- CAN/CSA-E730-2-3A-01 (norme bilingue)**  
*Amendement 1:2001 de CAN/CSA-E730-2-3-94, Dispositifs de commande électrique automatiques à usage domestique et analogue—Partie 2 : Règles particulières pour les protecteurs thermiques des ballasts pour lampes tubulaires à fluorescence* (norme CEI/IEC 730-2-3 (1990) adoptée, Amendement 1:1995, sans modification) . . . . . 45 \$
- CAN/CSA-E730-2-4A-01 (norme bilingue)**  
*Amendement 1:2001 de CAN/CSA-E730-2-4-94, Dispositifs de commande électrique automatiques à usage domestique et analogue—Partie 2 : Règles particulières pour les protecteurs thermiques de moteurs pour motocompresseurs de type hermétique et semi-hermétique* (norme CEI/IEC 730-2-4 (1990) adoptée, Amendement 1:1994, sans modification) . . . . . 65 \$
- CAN/CSA-E730-2-7A-01 (norme bilingue)**  
*Amendement 1:2001 de CAN/CSA-E730-2-7-94, Dispositifs de commande électrique automatiques à usage domestique et analogue—Partie 2 : Règles particulières pour les minuteries et les minuteries cycliques* (norme CEI/IEC 730-2-7 (1990) adoptée, Amendement 1:1994, sans modification) . . . . . 80 \$
- CAN/CSA-E730-2-10A-01 (norme bilingue)**  
*Amendement 1:2001 de CAN/CSA-E730-2-10-94, Dispositifs de commande électrique automatiques à usage domestique et analogue—Partie 2 : Règles particulières pour les relais électriques de démarrage de moteur* (norme CEI/IEC 730-2-10 (1991) adoptée, Amendement 1:1994, sans modification) . . . . . 35 \$
- CAN/CSA-E730-2-12A-01 (norme bilingue)**  
*Amendement 1:2001 de CAN/CSA-E730-2-12-94, Dispositifs de commande électrique automatiques à usage domestique et analogue—Partie 2 : Règles particulières pour les serrures électriques de portes* (norme CEI/IEC 730-2-12 (1993) adoptée, Amendement 1:1995, sans modification) . . . . . 45 \$





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## Amendments

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### C22.2 No. 130.2-93

*Heat Cable Systems for Use in Other Than Industrial Establishments*

Revision of Table 2.

### CAN/CSA-C22.2 No. 60950-00

*Safety of Information Technology Equipment*

Revision of Subcommittee on C22.2 No. 950.

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## Proposed New Projects

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For more information about the proposed development of the following new edition, contact Michael Wilson at 416-747-2532 or michael.wilson@csa-international.org:

- **C22.2 No. 0.15, 3rd edition**  
*Adhesive Labels*

For more information about the proposed development of the following new edition, contact Denis Vaz at 416-747-2519 or denis.vaz@csa-international.org:

- **C22.2 No. 129, 3rd edition**  
*Neutral Support Cables*

For more information about the proposed development of the following new edition, contact Michael Henville at 416-747-2227 or michael.henville@csa-international.org:

- **C22.2 No. 145, 3rd edition**  
*Electric Motors and Generators for Use in Hazardous (Classified) Locations*

For more information about the proposed development of the following new editions, contact Rick Gilmour at 416-747-4112 or rick.gilmour@csa-international.org:

- **C22.2 No. 178, 2nd edition**  
*Automatic Transfer Switches*
- **C22.2 No. 235, 2nd edition**  
*Supplementary Protectors*

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## Drafts

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**Please note:** Public comments about draft standards and proposed amendments listed in this issue are due by April 26, 2001.

To receive copies of the following draft standards or proposed amendments, or to offer comments, contact Annie Pereira at 416-747-4094 or annie.pereira@csa-international.org:

- **C22.2 No. 42.1-00, proposed amendment**  
*Cover Plates for Flush-Mounted Wiring Devices*  
Proposed revision of various clauses.
- **C22.2 No. 63-93 (R1999), proposed amendment**  
*Household Refrigerators and Freezers*  
Proposed addition of Supplement A.
- **C22.2 No. 107.1, 3rd edition**  
*General Use Power Supplies*
- **C22.2 No. 203.1-94, proposed amendment**  
*Manufactured Wiring Systems*  
Proposed addition of Clauses 6.2.2, 6.2.3, and 6.2.4.

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## Reaffirmed Standards

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**C22.2 No. 14-95 (R2001)**  
*Industrial Control Equipment*

**CAN/CSA-C22.2 No. 85-M89 (R2001)**  
*Rigid PVC Boxes and Fittings*

**C22.2 No. 123-96 (R2001)**  
*Aluminum Sheathed Cables*

**CAN/CSA-C22.2 No. 182.4-M90 (R2001)**  
*Plug, Receptacles, and Connectors for Communication Systems*

**CAN/CSA-C22.2 No. 210.2-M90 (R2001)**  
*Appliance Wiring Material Products*



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## Informs Notices (Bulletins from CSA Certification and Testing)

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Date	Subject	Title
December 1, 2000	Publication of CSA standard CAN/CSA-C22.2 No. 60950-00, 3rd edition, <i>Safety of Information Technology Equipment</i> . (Supersedes Informs "Information Technology and Electrical Business Equipment No. 8.")	Information Technology and Electrical Business Equipment No. 9

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## Certification Notices

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**Please note:**      ► Notices marked with an arrowhead are new in this issue.

Effective Date	Subject	Title
July 31, 2001	Publication of Technical Information Letter (TIL) No. A-26, covering interim certification requirements for surface raceway systems rated 300 V and greater.	Wiring Devices No. 19
August 31, 2001	Publication of TIL No. N-31, covering interim certification requirements for cord flexing test in portable appliances. (Supersedes Certification Notice "Vacuum Cleaners and Blower Cleaners No. 7.")	Vacuum Cleaners and Blower Cleaners No. 7A
November 30, 2001	Publication of TIL No. B-58B, covering interim certification requirements for landscape lighting systems. (Supersedes "Lighting Products No. 18A.")	Lighting Products No. 34
June 1, 2002	Publication of CAN/CSA-C22.2 No. 745-1 and -2 ( <i>Portable Electric Tools</i> ), and CAN/CSA-C22.2 No. 745-3 and -4 ( <i>Portable Battery-Operated Tools</i> ).	Electrical Tools No. 6



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## New Standards & Editions

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CAN/CSA-ISO/TR 14025-01, 1st edition  
*Environmental Labels and Declarations—Type III  
Environmental Declarations* (Adopted Technical  
Report ISO/TR 14025:2000, first edition) . . . . . \$85

This Technical Report identifies and describes elements and issues concerning Type III environmental declarations and corresponding programs, including technical considerations, declaration format and communication, and administrative considerations for developing and/or issuing a Type III environmental declaration.

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## Nouvelles parutions en français

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CAN/CSA-ISO/TR 14025-01, 1<sup>re</sup> édition  
*Marquage de déclarations environnementales—  
Déclarations environnementales de type III*  
(rapport technique ISO/TR 14025:2000  
adoptée, première édition) . . . . . 85 \$

Le présent rapport technique identifie et décrit les éléments et problèmes concernant les déclarations environnementales de type III et les programmes correspondants, y compris les considérations d'ordre technique, le format et la communication des déclarations, et les aspects administratifs associés au développement et/ou à la publication d'une déclaration environnementale de type III.

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## Proposed New Projects

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For more information about the proposed development of the following new publication, contact Katie Altoft at 416-747-4080 or [katie.altoft@csa-international.org](mailto:katie.altoft@csa-international.org):

- **PLUS 1163**  
*Chain of Custody for Forest Products Originating from a Defined Forest Area Registered to CAN/CSA-Z809*

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## Proposed Reaffirmation of Standards

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For more information about the following proposed reaffirmations, contact David Zimmerman at 416-747-2479 or [david.zimmerman@csa-international.org](mailto:david.zimmerman@csa-international.org):

- **CAN/CSA-ISO 14001-96**  
*Environmental Management Systems—Specifications with Guidance for Use*
- **CAN/CSA-ISO 14004-96**  
*Environmental Management Systems—General Guidelines on Principles, Systems, and Supporting Techniques*

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## Withdrawn Standards

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CAN/CSA-Z753-95  
*Requirements for the Competence of Environmental Laboratories*

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## Proposed Withdrawal of Standards

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For more information about the proposed withdrawal of the following standard, contact David Zimmerman at 416-747-2479 or [david.zimmerman@csa-international.org](mailto:david.zimmerman@csa-international.org):

- **Z760-94**  
*Life Cycle Assessment*

## **INFO UPDATE**

**The current issue contains no updates  
in this subject area**



# Construction Products and Materials

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## New Standards & Editions

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### G4-00, 2nd edition

*Steel Wire Rope for General Purpose and for Mine Hoisting and Mine Haulage* . . . . . \$75

This standard covers mine hoisting, mine haulage, and ski-lift ropes, and ropes for general applications. It includes requirements for raw materials and features for round strand and flattened strand rope, locked coil rope, plastic impregnated and jacketed rope, and compacted strand rope in bright and galvanized finish. It also includes requirements for in-service destructive testing of steel wire ropes.

### CAN/CSA-S6-00, 9th edition

*Canadian Highway Bridge Design Code* . . . . . \$150

This code applies to the design, evaluation, and structural rehabilitation design of fixed and movable highway bridges in Canada. Provisions are also included for the design of pedestrian bridges, retaining walls, barriers, and highway accessory supports of a structural nature, such as lighting poles and sign support structures.

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## Nouvelles parutions en français

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### A23.1-00/A23.2-00, 9<sup>e</sup> édition

*Béton : Constituants et exécution des travaux/ Essais concernant le béton* . . . . . 100 \$

La norme **A23.1-00** décrit les exigences relatives aux constituants et à l'exécution des travaux concernant le béton coulé sur place et le béton préfabriqué sur place.

La norme **A23.2-00** traite des principales méthodes d'essai du béton durci et du béton frais, ainsi que des constituants, spécifiées dans A23.1 et A23.4.

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## Amendments

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### B1800-99

*Plastic Nonpressure Pipe Compendium*

Revisions of the following Clauses:

- B1800-99: Contents
- B181.1-99: Clauses 3.1.1, 4.3.3.3, 4.11.1, 5.10.4, 6.3, and Table 7
- B181.2-99: Clauses 2.1, 4.3.3.3, 4.10.1, 4.15.5, 6.3, and Tables 3, 6, and 8
- B182.1-99: Clauses 2.1 and 4.6

## Amendments (cont'd)

- B182.2-99: Clauses 2.1, 7.1, 10.5, 10.5.1, 10.5.2
- B182.4-99: Clauses 2.1, 3.1, 5.6.1, 7.5, and Tables 1–3 and 8
- B182.6-99: Clauses 1.1, 2.1, 5.1.2, 5.3.1, 5.4.1, 5.5, 6.1.1.2, 6.1.2, 6.1.3, 6.2, 6.2.1–6.2.5, 7.4, 8.5.4, 8.7, 9.2(b), and Tables 1, 4, and B1.

Addition of the following Clauses:

- B181.1-99: Clause 4.11.1.0 and Appendix C
- B181.2-99: Clause 4.10.1.0 and Appendix C
- B182.6-99: Clauses 4.1.4, 4.1.5, 6.3–6.5, 8.7.1, 8.7.2, and Table 3a.

Deletion of the following Clauses:

- B181.2-99: Clause 5.16
- B182.1-99: Clause 5.8
- B182.2-99: Clauses 10.5.1.1–10.5.1.4, 10.5.2.1, and 10.5.2.2
- B182.4-99: Clause 8.8.

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## Withdrawn Standards

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### CAN3-A172-M79

*High Pressure Paper Base, Decorative Laminates*

CSA has withdrawn its endorsement of the following ANSI standards:

- ANSI B18.2.3.9M-1982  
*Metric Heavy Hex Flange Screws*
- ANSI B18.5.2.2M-1982  
*Metric Round Square Neck Bolts*
- ANSI B18.16.3M-1982  
*Dimensional Requirements for Prevailing-Torque Type Steel Metric Hex Nuts and Hex Flange Nuts*

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## Reaffirmed Standards

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### CAN/CSA-A123.16-M88 (R2001)

*Asphalt-Coated Glass-Base Sheet*

### CAN/CSA-A324-M88 (R2001)

*Clay Flue Liners*

### CAN/CSA-A369.1-M90 (R2001)

*Method of Test for Compressive Strength of Masonry Prisms*

### O56-1962 (R2001)

*Round Timber Piles (Imperial Version)*



## Reaffirmed Standards (cont'd)

- CAN3-O56-M79 (R2001)**  
*Round Wood Piles (Metric Version)*
- O112 Series-M1977 (R2001)**  
*Wood Adhesives*
- O115-M1982 (R2001)**  
*Hardwood and Decorative Plywood*
- O437 Series-93 (R2001)**  
*Standards on OSB and Waferboard*
- O452 Series-94 (R2001)**  
*Design Rated OSB*
- S136-94 (R2001)**  
*Cold Formed Steel Structural Members*
- S136.1-95 (R2001)**  
*Commentary on CSA Standard S136-94*
- S408-1981 (R2001)**  
*Guidelines for the Development of Limit States Design*
- CAN/CSA-S471-92 (R2001)**  
*General Requirements, Design Requirements, Design Criteria, the Environment, and Loads*
- CAN/CSA-S472-92 (R2001)**  
*Foundations*
- CAN/CSA-S473-92 (R2001)**  
*Steel Structures*
- S474-94 (R2001)**  
*Concrete Structures*
- S475-93 (R2001)**  
*Sea Operations*
- S478-95 (R2001)**  
*Guideline on Durability of Buildings*

- W375 SEC. 1-1984 (C2001)**  
*Terminologie française du soudage, Section 1 :  
Discontinuités et défauts de soudage*
- W375 SEC. 2-1986 (C2001)**  
*Terminologie française du soudage, Section 2 :  
Procédés de soudage et techniques connexes*
- W375 SEC. 3-1990 (C2001)**  
*Terminologie française du soudage, Section 3 :  
Assemblages, préparations et soudures*
- CAN/CSA-Z240 MH Series-92 (R2001)**  
*Mobile Homes*
- Z240.10.1-94 (R2001)**  
*Site Preparation, Foundation, and Anchorage of  
Mobile Homes*

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## Proposed Reaffirmation of Standards

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For more information about the following proposed reaffirmation, contact Larry Gill at 416-747-2544 or [larry.gill@csa-international.org](mailto:larry.gill@csa-international.org):

- **CAN/CSA-O132.2 Series-90**  
*Wood Flush Doors*

For more information about the following proposed reaffirmations, contact Sally Richardson at 416-747-2746 or [sally.richardson@csa-international.org](mailto:sally.richardson@csa-international.org):

- **CAN/CSA-A247-M86 (R1996)**  
*Insulating Fibreboard*
- **CAN3-A450.1-M86 (R1996)**  
*Ceramic Wall Tile Adhesive (Organic)*
- **CAN3-A451.1-M86 (R1996)**  
*Polystyrene Insulation Adhesives*



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## Certification Notices

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Please note: ▶ Notices marked with an arrowhead are new in this issue.

Effective Date	Subject	Title
▶ Immediately	Publication of 4th edition of CSA standard A277-01, <i>Procedure for Certification of Factory-Built Houses</i> , and of the amendments to CSA standard CAN/CSA-Z240 MH Series-92, <i>Mobile Homes</i> . (Note: <i>Mobile Homes</i> No. 29 supersedes Certification Notice <i>Mobile Homes</i> No. 28. <i>Building Products</i> No. 12 supersedes <i>Building Products</i> No. 9.)	Mobile Homes No. 29 and Building Products No. 12
March 28, 2001 (Dec. 1, 2000 for new customers)	Publication of CSA standard A23.4-00/A251-00, <i>Precast Concrete—Materials and Construction/ Qualification Code for Architectural and Structural Precast Concrete Products</i> .	Concrete Products No. 3
March 31, 2001 (October 20, 2000 for new customers)	Publication of CSA standard B66-00, <i>Prefabricated Septic Tanks and Sewage Holding Tanks</i> . (Supersedes Certification Notice “Plumbing Products No. 77.”)	Plumbing Products No. 137
▶ July 31, 2001	Extension of the effective date for compliance with the water quality requirements in CSA standard B125, <i>Plumbing Fittings</i> .	Plumbing Products No. 135A
July 31, 2001	Publication of CSA standard B127.1-99, <i>Asbestos Cement Drain, Waste, and Vent Pipe and Pipe Fittings</i> . (Supersedes Certification Notice “Plumbing Products No. 20A,” and Informs “Plumbing Products No. 1.”)	Plumbing Products No. 136



## New Standards & Editions

### B365-01, 6th edition

*Installation Code for Solid-Fuel-Burning Appliances and Equipment* . . . . . \$95

This standard provides requirements for installing, altering, and maintaining solid-fuel-burning appliances and equipment intended to supply heat to air or water or to be used for cooking. Recommendations for the storage of solid fuel and of ash are also included.

For the purpose of this standard:

- Solid-fuel-burning appliances include furnaces, boilers, stoves, ranges, space heaters, factory-built fireplaces, and service water heaters.
- The term “solid fuel” includes coal and biomass fuels such as cordwood, wood chips, sawdust, peat logs, wood and other biomass pellets, and kernel corn.

This standard does not apply to the installation of incinerators, site-built fireplaces, or process equipment.

### C191-00, 3rd edition

*Performance of Electric Storage Tank Water Heaters for Household Service* . . . . . \$75

This standard applies to stationary storage tank water heaters having a capacity of 175 or 270 L and intended for use on pressure systems in residential premises and similar locations.

The standby loss calculation may be applied to stationary storage tank water heaters having a capacity of 50 to 454 L.

This standard specifies delivery and standby performance for electric water heaters, rated tank capacities, heater element ratings, and markings.

### C652-00, 2nd edition

*Installation of Electric Storage Tank and Heat Pump Water Heaters for Residential Use* . . . . . \$40

This standard specifies requirements for installing electric storage tank and heat pump water heaters intended for residential use.

This standard applies to electric storage tank water heaters with:

- volumes of 50–454 L (13–120 US gal); and
- electrical heaters with power inputs up to 12 kW.

It also applies to heat pump water heaters that have:

- a maximum current rating of 24 A;
- a single maximum voltage of 250 V; and
- ancillary equipment necessary for the device to function.

## Proposed Reaffirmation of Standards

For more information about the proposed reaffirmation of the following standard, contact Ted Shin at 416-747-2642 or [ted.shin@csa-international.org](mailto:ted.shin@csa-international.org):

- N292.2-96  
*Dry Storage of Irradiated Fuel*

## Proposed New Projects

For more information about the proposed development of the following new editions, contact Sam Loggia at 416-747-2575 or [sam.loggia@csa-international.org](mailto:sam.loggia@csa-international.org):

- C358, 4th edition  
*Energy Consumption Test Methods for Household Electric Ranges*
- C361, 4th edition  
*Test Method for Measuring Energy Consumption and Drum Volume of Electrically Heated Household Tumble-Type Clothes Dryers*
- C744, 2nd edition  
*Standard for Packaged Terminal Air Conditioners and Heat Pumps*
- F326, 2nd edition  
*Residential Mechanical Ventilation Systems*

## Drafts

**Please note:** Public comments about the draft standards and proposed amendments listed in this issue are due by April 26, 2001.

To receive copies of the following draft, or to offer comments, contact Lidwina Kumar at 416-747-4188 or [lidwina.kumar@csa-international.org](mailto:lidwina.kumar@csa-international.org):

- C820, 1st edition  
*Performance of Small Fluid Pumps*

To receive copies of the following draft standards, or to offer comments, contact Laura Pelan at 416-747-2590 or [laura.pelan@csa-international.org](mailto:laura.pelan@csa-international.org):

- N290.13, 1st edition  
*Requirements for Environmental Qualification of Equipment for CANDU Nuclear Power Plants* (formerly “Environmental Requirements for the Design of CANDU Nuclear Power Plants”)



## Drafts (cont'd)

- Z245.1, 7th edition  
*Steel Line Pipe*
- Z245.6, 3rd edition  
*Coiled Aluminum Line Pipe and Accessories*
- Z245.20/.21, 4th edition  
*External Fusion Bond Epoxy Coating for Steel Pipe/External Polyethylene Coating for Pipe*
- Z341, 3rd edition  
*Storage of Hydrocarbons in Underground Formations*

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## Proposed Adoption of Standards

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For more information about the proposed adoption of the following IEC standard, contact Sam Loggia at 416-747-2575 or sam.loggia@csa-international.org:

- IEC 61215 (1993)  
*Crystalline Silicon Terrestrial Photovoltaic (PV) Modules—Design Qualification and Type Approval*  
Note: This standard will be published as CAN/CSA-C61215, and is intended to supersede CAN/CSA-F380-M87 (R1999), *Photovoltaic Modules*.

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## Formal Interpretations

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The following interpretations have been approved by the Oil and Gas Pipeline Systems Technical Committee.

### 1. Z662-99, Clause 4.14

**Question 1:** Does the following meet the definition of a pressure-control system as required by clause 4.14.1?

During the "flowback" operation of a wellhead, after steaming and soaking the wellbore, the reservoir has sufficient pressure to flowback to surface without artificial lift. The pressure is allowed to flow through satellite facilities (designed to ASME B31.3), and into a production pipeline (designed to CSA Z662). A manual choke valve located at the wellhead controls pressure. Pressure transmitters communicating to the Operations control room continuously monitor the performance of the choke valve. Well casing pressure transmitters are automatically monitored by the pad control system, and a rising casing pressure alarms through the Operations control room/field DCS system which initiates a field Operator response. The Operator will return to the satellite facility and manually adjust the choke valve to achieve the desired pressure.

Please note that because of the large pipeline system volume, and the multiphase characteristics of the production fluid, there is a significant length of time required to "pressure-up the pipeline" to 110% MOP.

This length of time has been calculated to be at least 2 hours. The time required for operator response is less than one hour since the facilities are not remote from central control centres.

**Answer:** Yes.

**Question 2:** Does the following meet the overpressure requirements of clause 4.14.2?

Under normal operation of the pipeline system, for both flow back and pumping production phases, the pipelines are protected by an ESD valve (PV-410) at each satellite (i.e., the pressure source) and at its downstream end by a PSV at the central plant. The only time this is not the case would be in the rare instance of a plant emergency when the central plant ESD valve could close, isolating the PSV from the pipeline system. In the event that the central plant ESD valve closes, the central plant operator is able to shut down the wellheads (the source of pressure), close the satellite ESD valves (PV-410's) if not already closed, and also confirm their closing.

**Answer:** Yes.

**Question 3:** Does the following meet the general design requirements of clause 4.14.2 - item (a)?

For the rare instances, when the central plant PSV is temporarily isolated from the pipeline system, as described above, the following system controls are in place:

During production operations, when down-hole pumps are used, the pipeline is protected by two pressure-limiting systems. A high-pressure switch communicating with the pump motor will shut down the down-hole pump. The second system is the satellite ESD valve (PV-410), which will close in response to three transmitters located along the production piping: PT410, PSH410 and PT420. The open/closed status of the ESD valve (PV-410) can be monitored by the Operations control room.

During flow-back production operations, when the down-hole pumps are not in operation, and the wells are producing from formation pressure, the pressure allowed from the wellheads is controlled by the manual choke valve continuously monitored by the Operations control room. The field Operator responds to the monitoring of pressure by manually re-adjusting the choke valve. In this operation mode PV-410 is **also fully operational** as a pressure limiting system.

During emergency flow-back conditions, the field operator, who in this operating mode is continuously on-site, locally blocks PV-410 open. If the pressure rises above allowable, the operator will locally operate PV-410 and/or the manual choke valve, and shut-in flowing pressure using wellhead isolation valves if required.

**Answer:** Yes.

## 2. Z662-99, Table 4.3

**Question:** For the existing above ground pipeline a new design temperature of 237°C is proposed. Pipe material is CSA Grade 359 Cat. 1. Table 4.3: Temperature Factor for Steel does not give values of T for temperature greater than 230°C. We have performed a straight extrapolation of Table 4.3 to arrive at a temperature factor of 0.86. Is this acceptable?

**Answer:** No. The pipeline design described in the request for interpretation is outside the scope of CSA standard Z662.

## 3. Z662-99, Clause 7.2.4.2.2.2

**Question 1:** Does this mean that all basic electrodes may only be removed from a rod oven for 1 hour?

**Answer:** Yes.

**Question 2:** And, then they must return to the rod oven?

**Answer:** No. The re-drying requirement, prior to use, shall be in accordance with the applicable manufacturer's recommendation.

## 4. Z662-99, Clause 4.8.3

**Question:** Could you please provide an interpretation of CSA Z662-99, *Oil & Gas Pipeline Systems*, as it applies to parallel railways? Specifically does clause 4.8.3, Crossing of Roads and Railways, apply to a natural gas pipeline which parallels (but does not cross) a railway within 7 metres of the outside track?

**Answer:** No. Clause 4.8.3 does not apply to pipe that parallels (but does not cross) a road or railway; however, it should be noted that Table 4.1 contains requirements for pipe that is in parallel alignment within 7 metres of a road or railway.