CSA Standards Development Process

Canadian Flaring and Venting Regulators Forum Regina, Saskatchewan
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Agenda

- 1. Introduction
- 2. Canadian Standards Association
- 3. What is a standard?
- 4. Committee matrix and role of committee members
- 5. Petroleum and natural gas program
- 6. Standards development process
- 7. Request for interpretation/Request for change
- 8. Questions



Who we are....

CSA Standards is a not-for-profit organization that develops rules and guidelines to help people and business in areas such as health, safety and the environment.





What we do...

Make standards come to life

to help certify consistent skill sets

To help implement a best practices

Customized (advisory) Services Personnel Certification

Standardsbased Solutions Standards & Codes to help set rules

to help understand standards

Training

Seminars
eLearning Courses
Customized Training

Application Tools

Handbooks Smart CD Mobile Publications to help *apply* standards



Helping People set rules

Our Standards and Codes

- Over 3,000 standards and codes
- In 54 different technology areas
- Over 40% referenced in legislation



Bringing People Together

- 220 staff working with business, industry, consumers and government
- Over 7,500 active expert members,
- Consensus process





Helping People Apply Our

Standards

Reference Publications

- Handbooks
- Guidelines

Convenient Formats

- PDF
- Smart CD's embedded formulas
- Mobile publications downloaded to a handheld device (ie. BlackBerry®)

ASSOCIATION



Application Tools

Handbooks
Smart CD
Mobile Publications

Helping People Understand Our

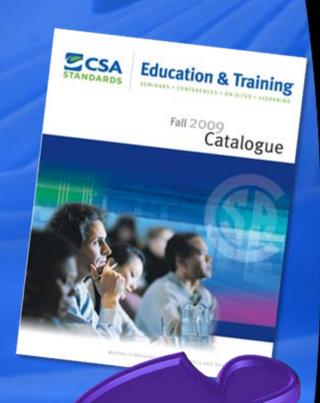
Standards Education and Training Programs

More than 550 sessions & 7,000 students each year

Course Delivery

- Seminars (public courses)
- Customized in-house training
- eLearning courses
- Forums
- Blended learning combination of seminars & eLearning





Training

Seminars
eLearning Courses
Customized Training

Helping People *Implement* Best Practices Customized (Advisory) Services

- Utilize our core competencies developer
- Create custom solutions:
 - ✓ in-house documents, guidelines
 - research and analysis
 - Stakeholder engagement
 - ✓ Project implementation







And Helping Certify Consistent Skill Sets

Personnel Certification

Ensures people performing specific jobs do it in a competent and consistent way.

Program Benefits

To the individual...

- peer and industry recognition
- competitive advantage

To the company....

- confirmation of competence
- easier interviewing process
- safer work habits









CSA Standards-based Solutions

Helping People and Business



Any one or a combination of these products & services is a solution to meet market needs



Helping Set GHG Management

Rules

- World Secretariat support for ISO 14064
- Foundation for Climate Change products & services



International
Organization for
Standardization





Home > Climate Change

Helping to Meet the Climate Change Challenge

At CSA Standards, our goal is simple: To provide you with solutions that makes your environmental management easier.

We offer the unique, multi-functional perspective and resources needed to develop products and services to drive development, commercialization and verification of practical and effective climate change solutions.

CSA Standards is a respected worldwide leader in standards development and has been instrumental in developing international environmental and carbon management standards. On behalf of the Standards Council of Canada (SCC), CSA Standards holds the Secretariat for the committee that developed the ISO 14000 environmental management and ISO 14064 climate change standards. CSA Standards also manages the Canadian Advisory Committees that provide input to other international environmental standards activities.

Click here to find out more

CSA Standards offers a suite of GHG Management products, services and tools to help your organization make the journey to carbon neutrality.

CSA Standards GHG Management Services:

Advisory Services

Your Guide On The Road To Reducing Your Environmental Footprint

When it comes to reducing your environmental or carbon footprint, few organizations in North America have as much experience and expertise as CSA Standards.

Learn more



Standards

Buy Online

....

Coop Ma Informac

Training

Learning

Onsite Trainin

Course Catalogue

Buy Related Trainin

Personnel Certification

Climate Change

visit: www.csa.ca/climatechange







Oil & Gas Pipeline Industry Systems

One of the largest and safest

pipeline systems in the world





800,000 km

of pipelines in Canada to domestic and foreign markets



95%

of Canada's oil and natural gas moves through these pipelines





Hundreds of Standards

set requirements for
safe transportation and storage
of hydrocarbons from the Wellhead
to the burner tip



Standards development organizations National Standards System

Standards Council of Canada SCC

BNQ ULC CSA CGSB

What is a standard?

- Stipulates requirements for use, safety and/or performance of products, processes and services
- May outline industry guidelines and best practices



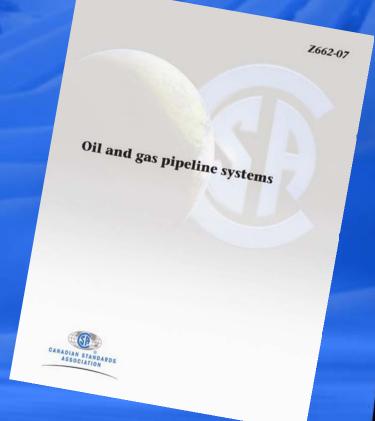
Strategic objectives . . .

- To develop consensus standards by maintaining effective and appropriate Canadian representation
- To provide a well organized, highly respected and affordable system
- To support the development of a strong Canadian industrial base
- To foster consumer confidence
- To foster free trade



Why do standards matter to you?

- Influence standard content
- Permits industry consensus
- Compliments regulations a voice in your regulatory process
- Cost savings benefit increased business efficiency
- Common technology base
- Drives industry best practices
- Enhances safety



CSA: A global leader in standards development

- Leadership role in the development of standards for petroleum and natural gas pipelines systems – onshore and offshore
- CSA has been making a difference in the petroleum and natural gas industry for over 50 years
- CSA standards address safety and efficiency from the wellhead to the customer's burner tip



Standards: Part Science, Part Art

- CSA standards are developed by stakeholders from all sectors of society – business, industry, labor, government, environmental and consumer groups
- CSA standards are documents established by consensus
- Under the guidance of a CSA project manager, they share a common interest in a particular subject area and work cooperatively
 cont'd...

Standards: Part Science, Part Art

- All participants are given equal access to the process so that the resulting outputs are of a high quality
- Minority interest groups have a voice



Committee players . . .

- Committee Chair
- Project Manager/Committee
 Secretary
- Voting Members
- Associate Members



Expectations . . .

- Committee members are expected to be committed & prepared, participate & accept assignments, and complete ballots
- Members are responsible for the development of standards
- Facilitation of the process is the responsibility of CSA staff
- Management of the process is a joint responsibility

Participation ...

- Any individual who has technical expertise or interest, and is able to actively participate in committee activities shall be eligible for appointment
- Not restricted to Canadians
- Relevant stakeholder groups will be represented in the matrix
- Committee size is determined so that all necessary interests are represented in a balanced fashion, yet effective functioning is possible



The matrix . . .

- The intent is to ensure all points of view are represented in reasonable proportion, and that the proportion is maintained
- The number of voting members in any one category shall not be more than the sum of the numbers of voting members in the two smallest categories at any time



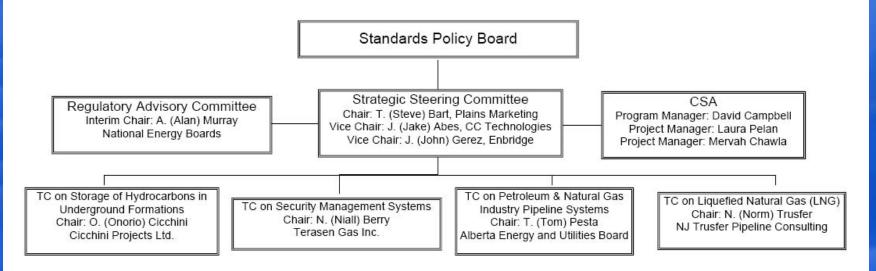
Technical Committee on Petroleum & natural gas industry pipeline systems and materials. .

Code	Min	Max	Actual	Description
GI	5	7	7	General Interest
GR	6	9	9	Government / Regulatory Authority
PI	5	7	7	Producer Interest
SF	7	9	8	Supplier/Fabricator/Contractor
UD	5	7	7	User Distribution
UT	6	9	8	User Transmission





Organization Chart: Petroleum & Natural Gas Industry Systems Program



Standards in the Program....

- Z245.11 Fittings
- Z245.12 Flanges
- Z245.15 Valves
- Z245.6 Aluminum Pipe
- Z245.20/21/22 Coatings
- Z245.1-07 (AM) Steel Pipe
- Z245.15-09 (AM) Steel Valves
- Z245.1 Steel Pipe
- Z662/Z662.1 Pipeline Systems
- Z341-Series U/G storage
- Z276 LNG
- Z246.1 Security Systems



Published

Published

Reaffirm/Summer 2010

Summer 2010

Published (February 2010)

Published (February 2010)

Reaffirm/Fall 2010

Summer 2011

Published (March 2010)

Fall 2011

Published



Standards in the Program....

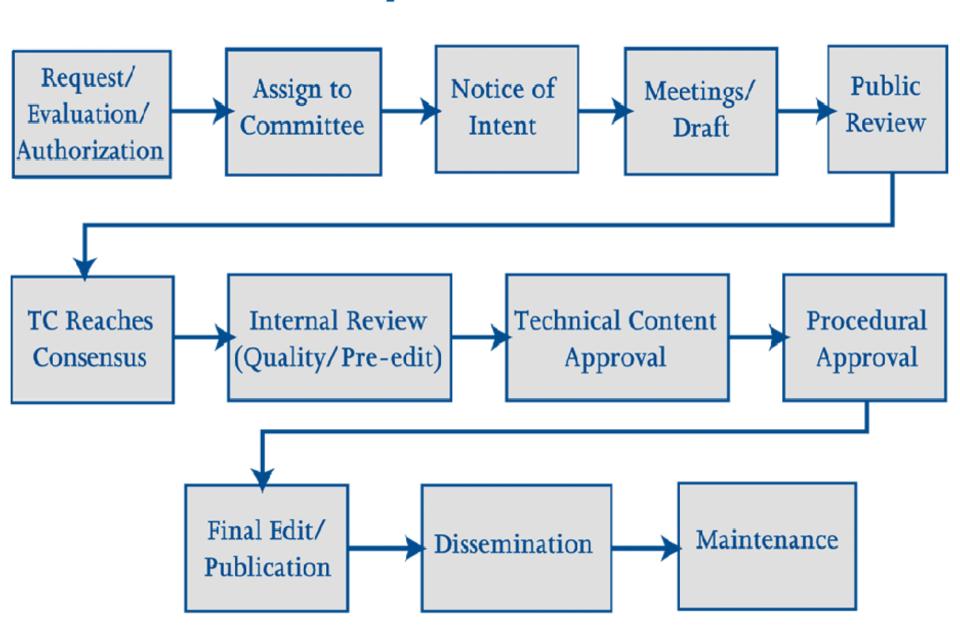
- B137.4-05 Polyethylene Piping Systems for Gas Services
- B137.12-05 Polyamide Piping Systems for Gas Services
- Plus 663 Land Use Planning for Pipelines: A Guideline for Local Authorities, Developers, and Pipeline Operators

Other standards...

- Offshore structures
- Gas Codes
- Welding
- Pressure Vessels
- Canadian Electrical Codes
- Energy Efficiency
- Occupational Health & Safety
- Quality and Business Management
- Environmental Management



Development Process



Standards Dov



CSA Policy governing standardization

Code of good practice for standardization

Joverning standardization

- Pt. 1 Participants/Organizational structure
- Pt. 2 Development process
- Pt. 3 Drafting and presentation

Inter ____ating Procedures and Q.A. Manual



Our members are volunteers. . .

- Committee members are volunteers
 - Besides their employment and family lives; they provide their services in making a safer world to live in
- Liability issue
 - CSA does not expect any member or a project manager to provide either technical answers or clarifications on any standard
 - Follow the proper guidelines for requesting a request for interpretation (RFI) or a proposal for change (RFC) that are in the standards
- CSA provides training
 - For details, visit CSA website (www.csa.ca) and look for CSA Learning Centre

Request for interpretation (RFI)

- All enquiries regarding a standard including request for interpretations (RFI) should be addressed to an appropriate CSA Project Manager
- RFI should
 - Define the problem making reference to the specific clause in the CURRENT edition of a standard/code, and, where appropriate, include an illustration sketch;
 - Provide an explanation of circumstances surrounding the actual field condition; and,
 - Question must be phrased where possible to permit a specific "yes" or "no" answer
- RFI will not be accepted if the matter is known to be before the courts or an administrative tribunal
- Committee interpretations are processed as per CSA's guidelines
 - TC ballots RFI response; thus, it may take longer than 6 months for a formal reply
- PRFIs are published in CSA periodical "Info Update" (available on CSA website at (www.csa.ca). You may also sign up for "keep me informed" on CSA website for periodical updates.

ASSOCIATION

Request for change (RFC)

- A proposal for a change in a CURRENT edition of a standard should be addressed to the appropriate CSA Project Manager
- RFC should
 - Define the change making reference to the specific clause in a CURRENT edition of a standard/code, and, where appropriate, include an illustration sketch;
 - Provide change proposal
 - Provide a rationale for the change
- TC/TSC reviews the proposal
- If the change is a safety issue, it will be published as an amendment; otherwise, it will be included in the next edition

Helping you shape your future, your investments,

your strategy, and your relations with stakeholders



Making standards work for people

and business



Thank you!

Questions?

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