

Canadä

Incorporation by Reference of Standards in Regulations

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Standards **experts**. Accreditation **solutions**.



SCC mandate and role

- Federal Crown Corporation established in 1970
- Reports to Parliament through the Minister of Industry

Mandate to:

- Advise federal and provincial governments on standardization issues
- Support standardization priorities of industry and governments
- Coordinate standardization activities in Canada
- Represent Canada in international and regional forums





- Accredit Standards Development Organizations
 & Conformity Assessment Bodies
- Approve National Standards of Canada



SCC's Accreditation Role

- SCC accredits:
 - Standards development organizations (SDOs)
 - Conformity assessment bodies (CABs)



- People, expertise, resources and equipment to carry out specific tasks
- SCC accreditation programs are increasingly referenced in regulations to manage compliance





SCC Accredited Standards Development Organizations (SDOs)



















How standards are developed



Multi-stakeholder/Country Participation

 Regulators, Industry, Civil Society, Consultants, Academics etc.

Consensus-based Decision-making

- Deliberate, rules-based process.
- "Substantial agreement ...implies much more than a simple majority, but not necessarily unanimity."
- Double-level (stakeholders, countries) at ISO.

Transparent and Inclusive

Public, member body review of drafts

Current

 Standards have to be reaffirmed, revised or withdrawn every 5 years



Standards **experts**. Accreditation **solutions**.



Conformity Assessment Bodies

SCC accredits 440+ clients in Canada and abroad

















































International standards and accreditation programmes

- Reflect global supply chains
- Facilitate access to new markets
- Can reduce barriers to trade and support alignment between regional partners
- Help governments achieve Good Regulatory Practice (GRP)
- Reduce time and costs to develop and implement rules
- Standards include views of interested parties (e.g. regulators, industry, consumers, academics etc.)



Overview of key standardization trends in 2014

	2010	2011	2012	2013	2014	Trend
Number of Canadian standards	3,780	3,482	2,973	2,940	2,901	\downarrow
Number of standards maintained by key international standardization organizations (ISO, IEC, ITU)	26,943	27,958	28,869	30,358	30,334	1
Percentage of unique domestic National Standards of Canada approved by SCC	N/A	39%	33%	31%		
Number of active ISO, IEC, ITU technical committees	988	984	993	989		
Number of Canadian volunteer members participating in international standards development committees	2,648	2,758	2,619	2,628	2,849	1
Number of federal government representatives participating to ISO/IEC/ITU international standardization activities	378	401	371	349		



Trends in standardization

- Growth in standardization activities regionally and internationally with significant number of new work items being approved
- Shrinking number of Canadian standards
- "Hollowing out" of technical expertise required to keep Canadian standards up to date
- High proportion of outdated references in federal and provincial/territorial regulations (regulations not keeping up with latest edition of standards)
- Significant interest/efforts to align standards between jurisdictions

Implications for Canada

- Standardization is recognized worldwide as a key driver of economic growth, a valuable tool for public policy and a credible framework for rule-making
- Standards development in Canada alone is not enough to meet the demands of the rapid introduction of new and diversified technologies
- Canada must maximize the limited resources it is investing in standardization to ensure market influence in areas of strategic importance to its economy

Setting Standardization Priorities

- SCC is engaging governments and industry in a sustained dialogue on Canada's standardization priorities and goals to:
 - move from the current ad-hoc, bottom up approach to a more balanced one that also establishes high level strategic priorities
 - optimize resources invested in standardization nationally, regionally and internationally
 - streamline governance mechanisms
 - agree on meaningful metrics and performance outputs

Supporting federal/provincial-territorial (FPT) government priorities

- Federal departments/agencies:
 - ADM Committee on Standardization
 - Annual standardization priorities and goals
 - Update critical standards in federal regulations
 - Find alternative standards to fill existing gaps
 - Focus on Red Tape Reduction Commission and Regulatory Cooperation Council commitments
 - Improve resiliency of infrastructure in the North
- Provincial-territorial (PT) governments:
 - Support Provincial Territorial Advisory Committee (PTAC) and other bodies
 - Facilitate PT dialogue on standardization priorities
 - Streamline FPT standards governance
 - Work on common standards to support upcoming regulations

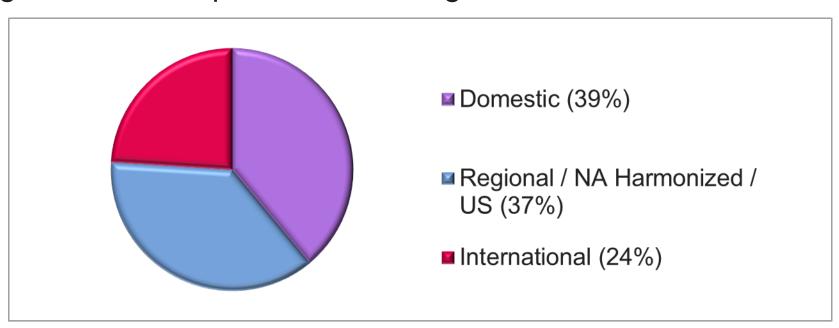
6,000+ references to standards in FPT regulations

Consolidated Regulations of Manitoba — Manitob	Reg 51/2013 , (Organic Agricultural Standards Regulations, PEI Reg EC856/72 , (Highway Traffic Act) s of Prince Edward Island — Prince Edward Island
[] ORGANIC AGRICULTURAL PRODUCTS 07 présent règlement, toute CAN/CGSB 32.310 or Canadian General « norme CAN/CGSB 32.310 ; CAN/CGSB 32.310 intitulée Systèmes de Organ Homes", 1	ille Homes", (iv) CSA Standard Z240.5-1971 entitled "Oil Requirements for Mobile Housing and hal Vehicles", (v) CSA Preliminary Standard Z240.6.1 entitled "Electrical Requirements for Mobile [] 2 Cap. H-5 Highway Traffic Act Updated 2009 Vehicle Standards Regulations (vi) CSA Preliminary
Welded Carbon Steel Water-Well Pipe, for Type IV ASTM standard ASTM F480, Standard Specification Standard Dimension Ratios (SDR), SCH 40 and SCH of 102 mm must have a wall thickness of at least (Storage and Handling of	Water-Well Casing Pipe, Grade [] 17, or Schedule 80 of in for Thermoplastic Well Casing Pipe and Couplings Made in 480. [] (f) a thermoplastic well liner with an inside diameter Plumbing Code, 1998 GOQ 2, 1756, [Repealed or spent], (Piping Installations) Replaced by: Construction Code Regulations of Quebec — Quebec
(Environmental Protection Regulations of Newfoundland and ISO 8402:19 time. [] (6) Shop fabricated abovwith the U.L.C. CAN4-S630, latest edition, and shall bear a horizontal storage tanks shall be constructed and shop teste edition, and shall bear a U.L.C. label. [] (b) if potentially flammable or combustible liquids, be refurbished by the ma	[] BNQ NQ 3623-075 (1986) Raccords en fonte grise pour canalisations sous pression 2.6.4.3) BNQ NQ 3623-085 (1993) Tuyaux en fonte ductile pour canalisations sous pression 2.6.4.1) BNQ BNQ [] BNQ BNQ 3751-150 (1982) Adhésifs à solvant pour tuyaux et raccords en plastique acrylonitrile - butadiène-styrène (ABS) 2.5.10.1) 2.5.12.1) BNQ BNQ 3751-155 (1982) Adhésifs à solvant pour tuyaux [] [I-12.1r1.1#01, see 1998 G.O. 2, 3682] BNQ BNQ 2613-090 (1983) Tuyaux et raccords en fonte pour canalisations sous pression - Revêtement interne au mortier de ciment - []

CAN4-S601 [...]

Status of standards in federal regulations (May 2014)

SCC is monitoring **1,000+** references to standards in **102** Canadian federal regulations maintained by **15** federal government departments and agencies:





Why monitoring standards benefits regulators





SCC's Monitoring Standards in Regulations (MSR) Database

- web-based tool custom designed by Lexum
- automates part of SCC's monitoring of standards in Canadian federal and P/T regulations
- access managed exclusively by SCC





SCC's MSR Database (cont.)



*NOTE: CanLII (Canadian Legal Information Institute) offers public access to laws and regulations from all Canadian jurisdictions.



Duplicative Certifications: Example of a Water Heater

For Canada:

A water heater and its components must comply with elements of the following standards:

CSA B140

CSAB51

CSA B125/ASME A112.8 (HARMONIZED)

CSAB139

CSAB149

CSAB64

CSA B4.1/ ANSI Z21.10 (HARMONIZED)

CSA B4.4-M99/ Z21.22 (HARMONIZED)

CSAB 140

CSA C.22.2

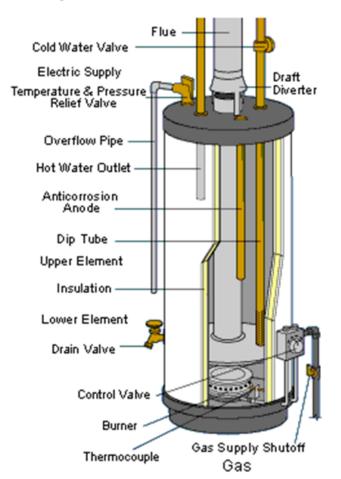
CSA C309-M90

ANSI Z535.4

ASME 1016 & 1017

ASTM A123M-00

ULC S636





Challenges for Federal and P/T Regulators

- Establish baseline data about standards in regulations and incorporation by reference approaches
- Manage outdated references/standards
- Compare standards, codes and certification requirements between jurisdictions
 - Pre-requisite for alignment/harmonization efforts
- Identify areas where standards alignment can be achieved
- Set standardization priorities for new standards and conformity assessment solutions to support
 - Current and emerging regulatory needs
 - Economic development strategies



Questions/comments?