



Date: 2019-10-31  
File / dossier : 6.02.04  
Edocs pdf : 6032749

**Presentation from  
CSA Group**

**Présentation du  
Groupe CSA**

**CSA Standards  
Nuclear Program**

---

**Normes CSA  
Programme nucléaire**

---

Commission Meeting

Réunion de la Commission

**November 6, 2019**

**Le 6 novembre 2019**

*This page was intentionally  
left blank*

*Cette page a été intentionnellement  
laissée en blanc*



NOVEMBER 6, 2019

# CSA Standards Nuclear Program

Presentation for the Canadian Nuclear Safety Commission

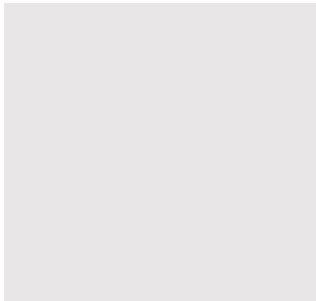
# Agenda

- Introduction to CSA Group
- CSA Standards Development Process
- Overview of CSA Nuclear Standards Program

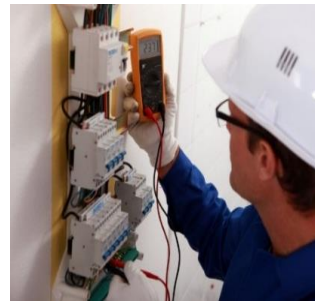


# Introduction to CSA Standards

**Construction  
and  
Infrastructure**



**Electrical  
and Gas**

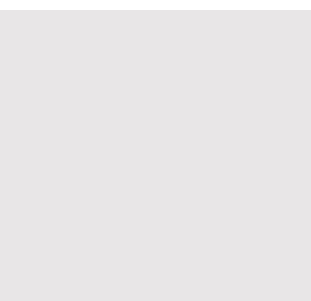
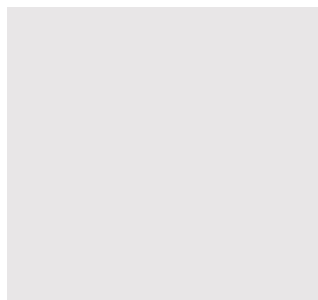


**Healthcare**

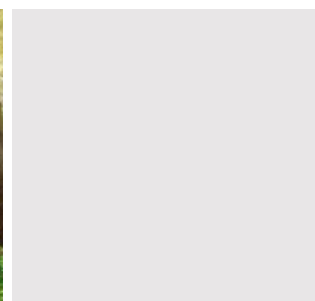


**Dedicated to safety, social  
good, and sustainability**

**Public and  
Workplace  
Safety**



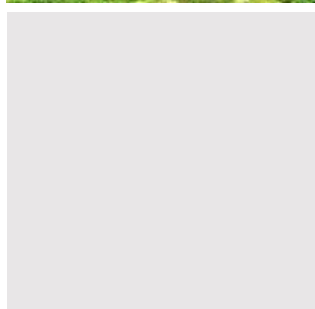
**Environment**



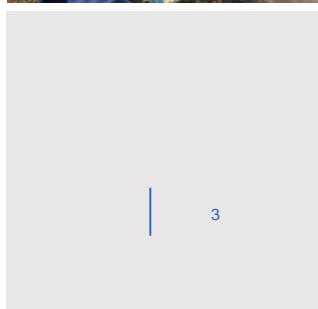
**Petroleum  
and  
Natural Gas**



**Power  
Generation  
and Delivery**



**Business  
Excellence**



# Introduction to CSA Standards

## STANDARDS DEVELOPMENT PROCESS

### Accredited process



Standards Council of Canada  
Conseil canadien des normes

### Volunteer members



### Consensus-based



### Regulatory use



# CSA Nuclear Program

## OVERVIEW

### CSA Standards Development



# CSA Nuclear Program

## PROGRAM AREAS

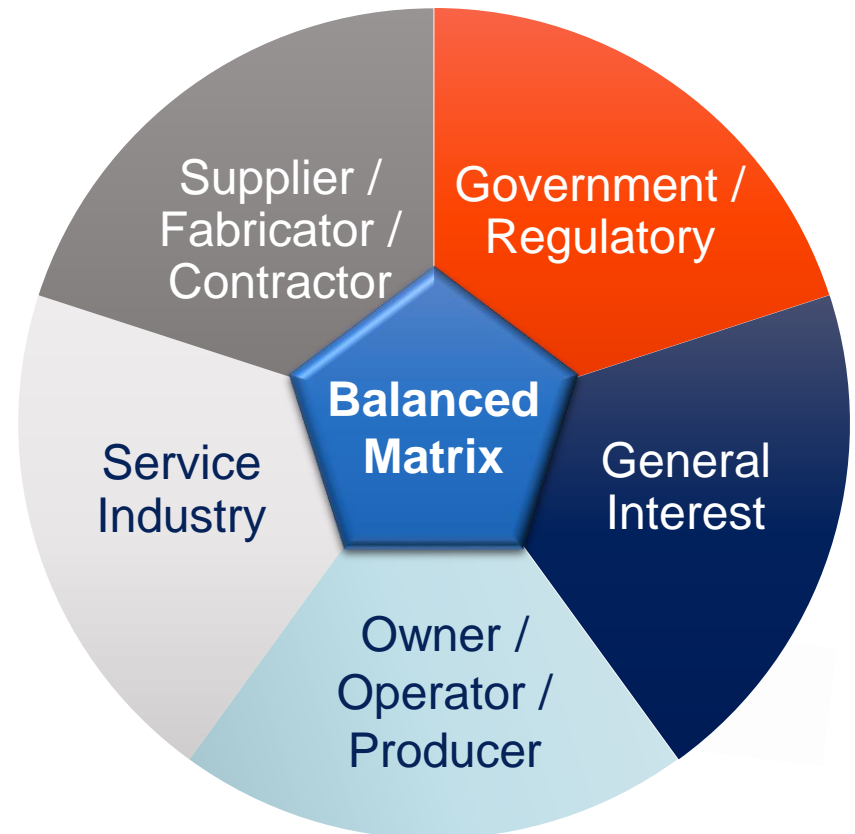




# CSA Nuclear Program

## MEMBERSHIP

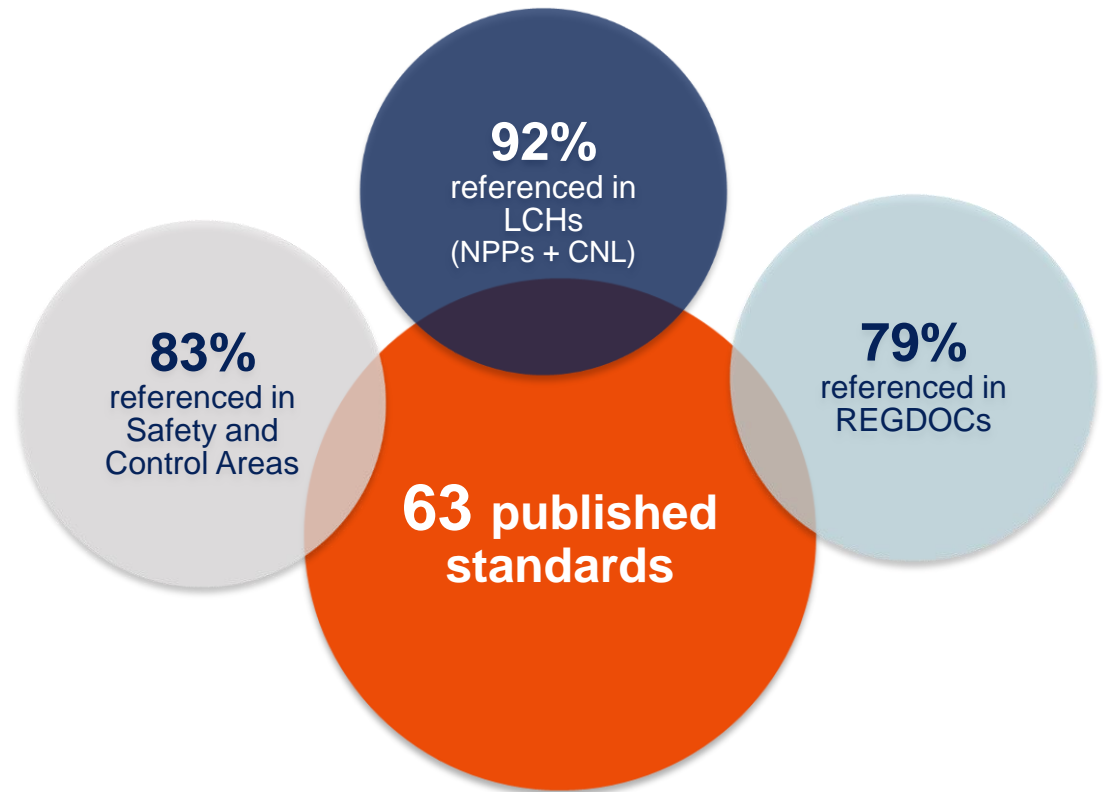
- Committees are established through a multi-stakeholder, balanced matrix approach
- CSA provides a forum for effective participation and collaboration
- Committees leverage the combined expertise and knowledge of their members



# CSA Nuclear Program

## REGULATORY REFERENCE

- Standards are voluntary documents
- CSA nuclear standards support the CNSC's regulatory framework
- Standards are kept up to date through 5-year systematic reviews



# CSA Nuclear Program

OPEN AND TRANSPARENT PROCESS

## Project Initiation

Public Notice of Intent



## Content Development

Open Membership Process



## Public Review

Comment on Draft Standards in English and French



## Technical Approval

Ballot by Balanced Matrix



## Publication

View Published Standards



## Maintenance

Submit Proposals for Change  
Request Interpretation



# CSA Nuclear Program

RESPONSIVE AND AGILE



## Timely process

- Process improvements to reduce development time
- Currently 12 to 24 months

*Since 2007*



## Fukushima response

- 5 new standards developed
- 7 existing standards updated

*2011 onward*



## Standards view access

- Free online access to full suite of nuclear standards

*Since 2013*



## Program planning

- Process to align and prioritize standards needs

*Since 2014*



## Expanded public review

- Draft documents available in both official languages

*Since 2018*



## Updated public information

- CSA website with detailed instructions on view access and public review

*Summer 2019*

# CSA Communities

## OVERVIEW

- Open, collaborative online environment to connect members, stakeholders, and users of standards
- Accessed with a free user account
- Nuclear Community:
  - Milestones for all active projects
  - Public review access link
  - View access of published standards
  - Requests for interpretation and proposals for change
  - Approved interpretations of standards



<https://community.csagroup.org/community/nuclear>

# Demonstration: CSA Communities

The screenshot shows the homepage of the CSA Communities website. At the top, there is a navigation bar with the CSA Group logo and menu items: About, Standards, Get Involved, and Members Only. Below the navigation bar, a large heading reads "Welcome to CSA Communities". Underneath this heading is a paragraph explaining the community's purpose: "CSA Communities connect our members, stakeholders and users of standards in an open, collaborative online environment. The community is your dedicated resource to discover new ideas and discussions, connect with other users who share your passion for standards development and collaborate in the development of new projects and standards."

Below the introductory text are four main action buttons:

- Get Started** (blue button): "New to the community? Start here."
- Get Involved** (dark blue button): "Explore open calls for participation and learn more about committee membership."
- View Standards** (red button): "Browse CSA standards referenced in regulations and see what applies in your jurisdiction."
- Members Only** (dark grey button): "Access your committee workspaces."

Below these buttons is a search bar with the text "SEARCH THE COMMUNITY OR ASK A QUESTION" and a placeholder "Type your question". A button labeled "Ask it" is positioned below the search bar.

The page is divided into two columns:

- LATEST DISCUSSIONS**: A list of four discussion topics with their authors and timestamps:
  - Could anyone tell me what the maximum temperature and wind speed a work platform suspended from a crane can work in? by Rocky Stavast (3 hours ago in OHS)
  - Puis-je consulter la norme CSA B335-15 by René Lambert (5 hours ago in OHS)
  - Hazardous Area Classification of residential buildings due to natural gas piping & furnace by Sajju Sam (20 hours ago in Electrical)
  - How it works public participation in CSA norm? by Isabel Canovas (1 day ago in Communities)
- FEATURED EVENT**: A promotional banner for "CSA Group 2019 US Committee Week" in Cleveland, Ohio, from October 28-31, 2019. The banner includes the CSA Group logo and the tagline "Celebrating a century of higher standards."

At the bottom of the page, there is a "FEATURED PLACES" section which is currently empty. A video player interface is visible at the very bottom of the screenshot, showing a play button, a progress bar, and a volume icon.

# Demonstration: View Access Standards

community.csagroup.org/community/nuclear/nuclear-standards-view-access

CSA GROUP About Standards Get Involved Members Only

**Nuclear STANDARDS** View Access **Nuclear Standards - View Access** in Nuclear Follow

Overview Content People Subspaces Actions About Share

Here you can view CSA Group's Nuclear Standards which are referenced in Licences and Licence Conditions Handbooks in Canada.

SEARCH NUCLEAR STANDARDS

Search

Search

BROWSE BY CATEGORY

|   |    |   |   |
|---|----|---|---|
| Decommissioning   | 2  | 0 | 0 |
| Emergency Management                                      | 4  | 0 | 0 |
| Environmental Management                                  | 24 | 0 | 0 |
| Fire Protection   | 10 | 0 | 0 |
| Management Systems  | 23 | 0 | 0 |
| Periodic & In-Service Inspections                         | 25 | 0 | 0 |
| Pressure-Retaining Systems & Components                   | 14 | 0 | 0 |
| Radioactive Waste Management                              | 18 | 0 | 0 |
| Reactor Control Systems, Safety Systems & Instrumentation | 51 | 0 | 0 |
| Reactor Safety and Risk Management                        | 13 | 0 | 0 |
| Safety-Related Structures                                 | 7  | 0 | 0 |
| Seismic Design  | 25 | 0 | 0 |
| Structural Requirements                                   | 30 | 0 | 0 |

REQUEST INTERPRETATION OR PROPOSE A CHANGE

Request Interpretation of a CSA Group Nuclear Standard

Propose a Change to a CSA Group Nuclear Standard

TOP VIEWED STANDARDS

- N286.7-16, Quality assurance of analytical, scientific, and design computer programs[1]
- N290.16-16, Requirements for beyond design basis accidents
- N299.1-16, Quality assurance program requirements for the supply of items and services for nuclear power plants, Category 1
- N286-12 (R2017), Management system requirements for nuclear facilities

LEARN MORE ABOUT THE VALUE OF CSA'S NUCLEAR PROGRAM

Learn about the CSA Group standards development process

CONTACT

CSA Group Standard Development

00:35.67

## Summary

- CSA is a leading standards development organization and is dedicated to a better, safer, more sustainable world
- Our nuclear program provides
  - A standards development process that is open and transparent
  - A collaborative forum that brings together experts to develop standards
  - Voluntary standards that support the national regulatory framework
- We welcome feedback to help us continuously improve our processes and practices, and respond to the needs of the sector





Questions?