

# **Standards in the Gas Industry**

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**CSA  
Group**

- Types of Standards
- Standards Process
- Communication Tools
  - Notice/Informs
  - CSA Communities
- What's Next in Gas Standards
- Recent Standards Activity

- National Standards - Accredited
  - Bi-National (harmonized)
  - Multi-National
- ORDs – Other Recognized Documents
  - Non-Accredited
  - Non-Consensus
  - Needs IGAC Approval in Canada
  - Five Year Re-Evaluation

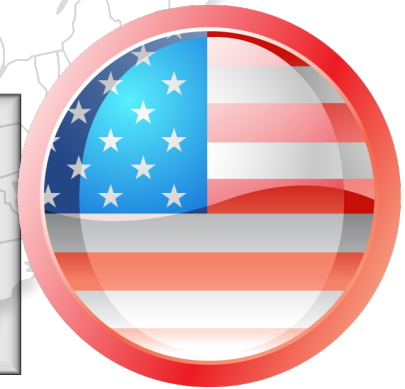
## Accredited standards:

- Are developed by balanced committees, employing principles of consensus
- Have gone through a public review and an internal review prior to publication
- Are maintained and reviewed at appropriate intervals
- Reflect the needs of affected stakeholders
- May be published in both English and French languages
- May be referenced by regulatory authorities in legislative instruments
- May become mandatory standards or codes



**Accredited by the  
Standards Council of Canada  
(SCC) In Canada**

**Accredited by the American  
National Standards Institute  
(ANSI) in the US**

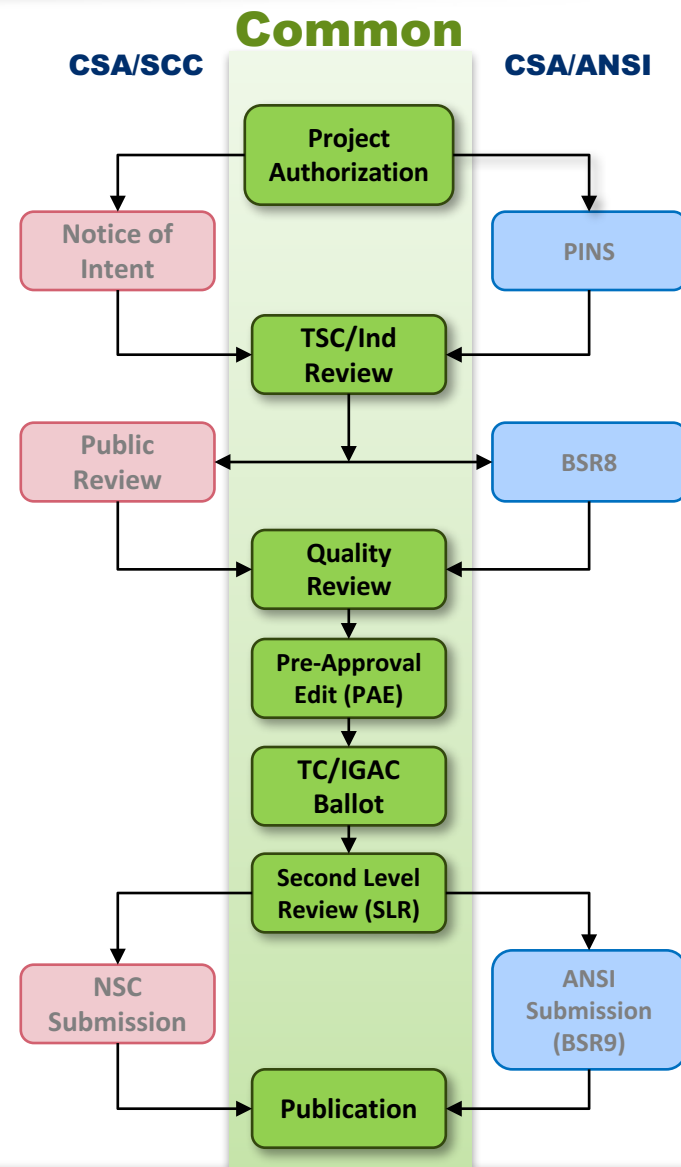


## ORDs - Non-Accredited Standards:

- Written to cover following situations:
  - Product covered by existing standard – New Feature(s) - A revision to the standard is needed
  - New Technology – No existing Standard – not for use in Canada
  - Not a New Technology – A collaboration of existing Standards
  - Revision required due to field failures
  - Code compatibility with a published Standard
  - Early use of an approved new Standard or a Standard revision
  - New Hazard

# Accredited Standards Process

- TSC – Technical Subcommittee
- Industry Review – Specific to gas industry. 30 – 60 days
- Public Review – 60 days
- Quality Review – Internal
- TC – Technical Committee – 30 days
- IGAC – Unique to Gas Products in Canada
- Second Level Review - Internal
- ANSI/NSC Review is Process only



- Notices
  - Communicate substantial changes to manufacturers
  - Require manufacturers to take action to update listings
  - Assigns an effective date by which designs must comply
  - Identifies application due date requesting manufacturers to apply to ensure that compliance will be completed by effective date
- Informs
  - Communicate non-substantial changes to manufacturers
  - Manufacturers do not need to take action to update listings



# CERTIFICATION Notice

An Urgent Bulletin from CSA Group

Gas Products No. 404	Effective Date: January 1, 2019
Date: January 4, 2017	Apply Before January 1, 2018

**Announcing: Publication of ANSI Z21.11.2-2016, Gas-Fired Room Heaters  
Volume II, Unvented Room Heaters**

**Class No: 2922 82, ROOM HEATERS (GAS) - Unvented-Certified to US Standards  
2922 86, ROOM HEATERS (GAS) - Unvented-Universal -Certified to U.S. Standards**

To purchase the Standard, visit us at [www.shop.csa.ca](http://www.shop.csa.ca)

## CERTIFICATION

# Informs

An Urgent Bulletin from CSA Group

<b>Ref No: I17-046</b>	
<b>Gas Products No. 413 (Supersedes Informs Gas Products No. 357, Ref No. 15-066)</b>	<b>Existing Certification not affected</b>
<b>Date: May 17, 2017</b>	<b>Apply any time to have your products evaluated</b>
<b>Announcing: Publication of ANSI Z83.18-2017; Recirculating Direct Gas-Fired Heating And Forced Ventilation Appliances For Commercial And Industrial Applications</b>	
<b>Class No: 2902 88, COMMERCIAL HEATERS (GAS) - Industrial Air-Certified to US Standards</b>	
<b>To purchase the Standard, visit us at <a href="http://www.shop.csa.ca">www.shop.csa.ca</a></b>	

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## Wi-Fi Enabled Appliances

- ANSI Z21.5.1 • CSA 7.1 - Gas Clothes Dryers. Coverage has been added. Full control is permitted including remote start and shutdown.
- ANSI Z21.58 • CSA 1.6 - Outdoor Cooking. Open top broiler only. Remote shutdown, temperature control and monitoring are permitted. Remote ignition and or re-ignition are prohibited.
- ANSI Z21.1 • CSA 1.1 - Residential Cooking Appliances - ovens only, no top section. Full remote operation of the oven is permitted. No open door broiling.
- ANSI Z83.11 • CSA 1.8 – Gas Food Service - Interest has been expressed by fast food chains to be able to monitor the status of the commercial cooking appliances. Remote control is not being discussed. Very early stages of standards development.

- **Decorative Products**

- **Glass barrier and glass temperatures** - Glass temperature limits have been added to gas burning appliances with decorative glass fronts. All exposed glass surface must not reach a temperature greater than 172 degrees F.
- **Delayed ignition / explosion prevention** - A new delayed ignition test has been added to the standards which cover these appliances.
- **High efficiency gas fire place heaters** - Coverage has been finalized and added to address appliances that form condensation.

- **Residential gas range controls**

- In response to concerns raised by the CPSC regarding the malfunctioning of residential gas and electric cooking appliances, extensive coverage has been developed and added to the residential gas cooking appliance standard ANSI • Z21.1 / CSA 1.1 and will appear in the next published edition. Incidents involved appliances that would turn themselves on, could not be turned off or would not respond to temperature set points resulting in a runaway condition.
- Major revisions intended to correct the situation include functional safety evaluations of controls, nichrome wire testing, and resistance to wetting of controls test.

## Gas Products No. 340A

- ANSI Z21.20-2014•CAN/CSA-C22.2 NO. 60730-2-5-14 (UL 60730-2-5) “Automatic Electrical Controls For Household And Similar Use-Part-2.5: Particular Requirements For Automatic Electrical Burner Control Systems”
  - Revised Effective Date – October 2020
  - Legacy Models
  - Implementation in Appliance Standards

## Gas Products No. 405

- ANSI Z83.20-2016 • CSA 2.34-2016; Gas-fired Tubular and Low-intensity Infrared Heaters
  - Effective date – December 31, 2017
  - Incorporates Vent System Categorization into Standard
  - Product retesting is required



## Gas Product No. 395

- ANSI Z21.5.1-2016 • CSA 7.1-2016, Gas Clothes Dryers, Volume I, Type 1 Clothes Dryers - Sixth Edition
  - Effective Date – June 1, 2018
  - Add a new test to detect flames entering the dryer chamber. During conduct of this test the inside of the dryer is painted black in color to facilitate observation of any flames entering the dryer chamber.
  - Add Annex B, “Provisions for the safety of Smart enabled gas clothes dryers” for gas clothes dryers intended to receive and respond to communication signals or data relating to power billing rate or demand response or communication signals from a remote user interface, such as a smart phone or computer.

## Gas Products No. 401

- ANSI Z21.47-2016 • CSA 2.3-2016, Gas-Fired Central Furnaces
  - Effective Date – May 1, 2018
  - Clarify the increased rate combustion test condition - not permissible to increase the induced or forced draft fan in order to obtain the increased firing rate. Currently certified products will not require retesting as this test method has always been employed by CSA.
  - Introduce a new blocked air inlet test required for appliances which use premix burners.

