



**MINUTES OF THE  
SECOND GAS SUB-COUNCIL MEETING OF 2024**

**DATE:** May 23, 2024

**TIME:** 10:20 a.m. to 11:45 a.m.

**LOCATION:** Videoconference

**PRESENT:** **Sub-Council Members**

Mark Guderjan, Chair  
Chris McInroy  
Jason Helfrich  
Roy Herrington, Vice-Chair  
Darcy Toner  
Larry Miller  
Muhammad Ishaq  
Aaron Blake  
Leigh Adams  
Dale Walls  
Cory Huppe  
Curtis Bellows

**Safety Codes Council**

Allison Karch, Jennifer Johnson

**Alberta Municipal Affairs**

Sidney Manning, Claude Valliere, Perry Wager, Ljubomir Dupalo, Danny Stoesz

**REGRETS:** Kris Topp, Tim Dykes, Jim Maddocks, Tran Mah-Paulson

**RECORDER:** Allison Karch

**NEXT MEETINGS:** September 24, December 5

## 1. Meeting Opening

The Chair called the meeting to order at 10:20 a.m. Members were reminded that their primary duty is to act in the interest of safety in the built environment for the benefit of all Albertans.

### 1.1 Agenda Adoption

**Curtis Bellows / Dale Walls moved that the agenda be adopted, as circulated; CARRIED**

### 1.2 Adoption of the March 7, 2024, Minutes

The minutes were reviewed and the following correction was made:

- Correction to item 4.2.3.: The scope of B149.3 may be ~~changed~~ [clarified](#) to include other fuels, potentially hydrogen.

**Darcy Toner / Muhammad Ishaq moved to adopt the minutes of the March 7, 2024, meeting, as amended; CARRIED**

## 2. Matters for Decision

None identified

## 3. Review Matters Arising/Action List

	Item	Action	Date Initiated	Responsible	Status/Update
1.	Pollutants from Gas Stoves	This topic will be discussed at the June meeting of the Gas Advisory Council. The Administrator will bring back an update.	March 23/23	Manning	ongoing

## 4. Matters for Discussion

### 4.1. Hydrogen Update

The following was discussed:

- The first hydrogen fuelling station for dispensing to commercial/public in Alberta is expected to be open at the end of May. The intent is for this facility to be certified rather than field approved or accepted by the AHJ.
- Portable refuelers being considered.
- ATCO continues to manage a 5% hydrogen blend service for 2500 homes in Fort Saskatchewan.
- A 100% hydrogen community in Bremner, Strathcona County, has been proposed. A show home using 100% hydrogen is under construction and expected to be complete before fall. It's expected to use an on-site hydrogen supply (similar to how propane is often supplied) and will use residential appliances that are field-approved.
- The Administrator will reach out to municipalities to ask how many fuelling station proposals they have received to get a sense of momentum.
- Representatives from the City of Edmonton and City of Calgary reported that they're not aware of any hydrogen fueling stations planned in their municipalities.

## 4.2. Working Group Reports

### 4.2.1. CSA B149.1 / BNQ 1784 Canadian Hydrogen Installation Code

The following was discussed:

- The group has reviewed most of the three-column document for the 2025 B149.1. Because the three-column document is based on a draft of what's anticipated to be in the 2025 code, there may be additional draft changes to review in the future, and the group will need to verify after the code is published.
- There is no update or expected work on BNQ 1784 because it's uncertain when a new edition will be published.

### 4.2.2. CSA B149.2 / CSA B108.1 & CSA B108.2

The following was discussed:

- B149.2 is currently in public review.
- The group has been reviewing three-column documents of the published B108.1 and 108.2 2023 editions, but more work needs to be done and another meeting will be scheduled shortly.

### 4.2.3. CSA B149.3 / CSA B149.6

The following was discussed:

- There are some big changes coming in B149.3

### 4.2.4. CSA B149.5 / CSA B109.1 & CSA B109.2

Nothing to report.

## 4.3. AMOS Report

It was reported:

- AMOS held their spring conference recently which was very well attended.
- Members were encouraged to join AMOS, great opportunity for presentations and networking.

## 4.4. Administrator/AMA Report

The Administrator reported:

- B149's 2025 cycle completed development as of November, 2023
  - anticipate dates for public consultation, French language translation and editorial early in 2024
- B108's December 2023 balloted by the inter-provincial and territorial gas advisory Council (IGAC) and CSA B149.5 Installation code for propane fuel systems and containers on motor vehicles (public review closed November 20, 2023).
  - Notice - <https://open.alberta.ca/publications/notice-gas-codes-in-force-january-2025>
- Gasfitter reconciliation implementation
- Hydrogen and natural gas blend update
  - Hydrogen and pressure equipment
  - Blends

- 100% Hydrogen
- Web page update
- Standata review for Plants, 200 PSI propane containers
  - <https://open.alberta.ca/dataset/88448076-7f1e-4bbc-8767-b90caca76fbe/resource/5138f445-e3ea-476b-b272-1d402be4c220/download/ma-standata-bulletin-gas-20-gcb-011-rev3-2024-05.pdf>
- Relief valve notice
  - <https://open.alberta.ca/dataset/15342b6f-3b59-4c96-b631-56342da4bb8b/resource/f6f3ec99-064f-4a78-b242-53c12304cb8c/download/ma-standata-gas-notice-servicing-intervals-for-pressure-relief-valves.pdf>
- reviewing the application of large diameter (2 ½ - 4 NPS) Pro press fittings through development of a province wide variance until the 2025 B149.1 comes into force.
  - B149.1 Clause 6.9.2 - piping of NPS 2 ½ inch and over shall have welded pipe joints.

#### Preheating Of Natural Gas



The reduction of natural gas pressure before distributing it to consumers also causes a drop in temperature. For example, if the pressure of the natural gas is reduced by 88%, the temperature will drop by almost 65%. In terms of physics, this is known as the Joule Thompson effect. This drop in temperature can create operational and material quality problems in the distribution networks. The water vapor dew point falls and causes icing within and outside the pipelines.

This brings in the necessity of [preheating the natural gas](#) before the pressure reduction. Heating the gas before transmission can overcome this Joule Thompson effect. The preheating of natural gas causes the temperature of the gas to rise enough so that after pressure throttling and temperature reduction, it reaches the optimal required temperature.

#### 4.5. Council Updates

A written report was included in the portal and updates were provided on:

- Members were reminded to register for the AGM on June 21, which will support both in-person and online participation.
- The Safety Codes Council Summit will be held October 2-4, 2024, at the Nisku Inn & Conference Centre.
  - The Council is seeking speakers to deliver educational presentations on topics in technology and innovation in the safety codes system, as well as technical presentations focused within the building, fire, electrical, gas, plumbing, and barrier-free disciplines. Please visit the [Summit website](#) for more information and to apply to be a speaker.
- An updated [Mandate and Roles Document](#) (MRD) has been published on the Council website.
  - The MRD is developed collaboratively by the Minister of Municipal Affairs and the Safety Codes Council to reflect a common understanding of the Council's mandate, respective roles and responsibilities, interactions, and expectations of the relationship between the parties.
  - An overview of changes was given and members were encouraged to read the MRD to get a broad overview of the Council's mandate.

### 5. Meeting Finalization

#### 5.1. Round Table

- Muhammad Ishaq sits on the CSA tech committees for B149.1 and B149.3 representing CAPP and will be attending CSA meetings in June.
- Dale Walls advised that appliance manufacturers are moving to UL CSA 0665 and starting in January 2025 they will be switching to low Global Warming Potential (GWP) refrigerants. There is some uncertainty around this, training and education would be beneficial.
- This was Larry Miller's last meeting as he is retiring from the sub-council, Larry was thanked for his time and contributions by the group.

#### 5.2. Next Meeting

The next meeting was reconfirmed for September 24, 2024, tentatively at the Council office at 9:00 a.m.

#### 5.3. Meeting Adjournment

**Jason Helfrich / Roy Herrington moved to adjourn the meeting; CARRIED**

The meeting was adjourned at 11:45 a.m.

**– NEW ACTION ITEMS –**



– MOTIONS –

**1. Meeting Opening**

**1.1 Agenda Adoption**

**Curtis Bellows / Dale Walls moved that the agenda be adopted, as circulated; CARRIED**

**1.2 Adoption of the March 7, 2024, Minutes**

The minutes were reviewed and the following correction was made:

- Correction to item 4.2.3.: The scope of B149.3 may be ~~changed~~ [clarified](#) to include other fuels, potentially hydrogen.

**Darcy Toner / Muhammad Ishaq moved to adopt the minutes of the March 7, 2024, meeting, as amended; CARRIED**

**5. Meeting Finalization**

**5.3. Meeting Adjournment**

**Jason Helfrich / Roy Herrington moved to adjourn the meeting; CARRIED**

**– WORKING GROUP MEMBER LISTS –**

<b>WORKING GROUP</b>	<b>WORKING GROUP MEMBERS (Chair)</b>
CSA-B149.1 – Natural gas and propane installation code  BNQ 1784.000 Hydrogen Installations	<b><u>Dale Walls</u></b> Ron Beaudette, Curtis Bellows, Mark Guderjan, Tran Mah-Paulson, Larry Miller, James Maddocks, Tim Dykes, Cory Huppie, Muhammad Ishaq
CSA-B149.2 – Propane storage and handling code CSA-B108.1 - Compressed natural gas refuelling stations installation code CSA-B108.2 – Liquefied natural gas refuelling stations installation code	<b><u>Jason Helfrich</u></b> Ron Beaudette, Mike Turek, Cory Huppie, Larry Miller
CSA-B149.3 – Code for the field approval of fuel-related components on appliances and equipment CSA-B149.6 Biogas and Landfill Gas Code	<b><u>Dale Walls</u></b> Mark Guderjan, Roy Herrington, James Maddocks, Kris Topp, Justin Trupp, Muhammad Ishaq
CSA-B149.5 – Installation code for propane fuel systems and tanks on highway vehicles CSA-B109.1 - Compressed natural gas vehicle installation code CSA-B109.2 – Liquefied natural gas vehicle installation code	<b><u>Jason Helfrich</u></b> Leigh Adams, Aaron Blake, Chris Sherbanuk, Tim Dykes