

MEETING LOG

SUBJECT: ANSI/CSA FURNACE TECHNICAL SUBCOMMITTEE (TSC) WORKING GROUP (WG) MEETING

FY 25 OP PLAN ENTRY: Gas Appliances - CO Sensors

DATE OF MEETING: 07/16/26

LOCATION OF MEETING: Virtual

CPSC STAFF FILING MEETING LOG: Caroleene Paul

FILING DATE:

CPSC ATTENDEE(S): Caroleene Paul (ESMC), Han Lim (ESMC), Matt Brookman (LSM)

NON-CPSC ATTENDEE(S): Contact CSA for the full attendee list

Summary of Meeting:

This is an ongoing regular meeting of the furnace TSC working group to discuss Request For Change (RFC) #23 to ANSI Z21.47- ed. 9, Standard for Gas-fired central furnaces.

The working group discussed the following:

- AHRI RP 8034 (Validation Project for proposed requirements for ambient CO sensor/shut-off system in circulating air of gas furnace). TSC Chair attended meeting with NIST and AHRI for update on contract, and expressed urgency for the contract to be finalized. The statement of work (SOW) is still under AHRI legal review, which may be experiencing legal staff delays.
- High CO conditions. Discussions regarding the proposed performance requirement response to very high CO conditions will be postponed until the validation project work is completed.
- Fire Protection Research Foundation (FPRF) report titled *A Review of the Carbon Monoxide Alarm and Detection Thresholds*. The WG continued discussions on whether RFC#23 should reduce the CO thresholds for shutoff based on the conclusions of the FPRF report. In December 2024, the National Carbon Monoxide Awareness Association (NCOAA) petitioned the Consumer Product Safety Commission (CPSC) requesting rulemaking to mandate that CO alarms activate when CO concentrations reach 15 ppm for 30 days or 30 ppm for one hour. The project manager for UL 2034, voluntary standard for CO alarms, and the president/founder of NCOAA were in attendance at this WG meeting and provided updates on their respective groups' activities. UL 2034 *Standard for Single and Multiple Station Carbon Monoxide Alarms* is currently undergoing harmonization with CSA 6.19 *Residential carbon monoxide alarming devices* (both voluntary standards have identical CO threshold alarm values of 70 ppm for 60 minutes and 150 ppm for 10 mins). Any task group activity to change the threshold values will occur after the harmonization effort is complete. There are no current requests for revisions or updates to UL2034. NCOAA intends to submit a proposal to UL and it is pending. Discussions followed on CO sensor technology, the Coburn-Forster-Kane (CFK) equation used to predict carboxyhemoglobin (COHb) levels, and the history of nuisance alarms concerns with CO alarms.

Next Steps:

CPSC staff will participate in the next working group meeting scheduled for July 30, 2026.