United States
Consumer Product Safety Commission

MEETING LOG

SUBJECT: ANSI/CSA FURNACE TECHNICAL SUBCOMMITTEE (TSC) WORKING GROUP (WG) MEETING ON APRIL 24, 2025, RE. RFC #23

FY 25 OP PLAN ENTRY: Gas Appliances - CO Sensors

DATE OF MEETING: 4/24/2025

LOCATION OF MEETING: Virtual

CPSC STAFF FILING MEETING LOG: Ronald A. Jordan

FILING DATE: 5/27/2025

CPSC ATTENDEE(S):
Ronald Jordan, ESMC

NON-CPSC ATTENDEE(S): Contact babak.owlam@csagroup.org for the full attendee list.

Summary of Meeting:
The furnace working group (WG) met to discuss Request for Change (RFC) #23 to ANSI Z21.47- ed. 9, Standard for Gas-fired central furnaces. RFC #23 is a proposed performance and safety provision that would require a carbon monoxide (CO) detection device (i.e., sensor) to be mounted on the ambient side of a gas furnace. As with each WG meeting, the WG chairman reiterated the rationale for the standard under development for carbon monoxide detection systems as being:

> *"Means shall be provided to shut down the furnace burner operation in the event of carbon monoxide level exceeding the upper threshold of xx ppm [TBD, must also include time weighted average specs] as measured by the carbon monoxide detection device (detection device) in the circulating air. The furnace burners shall remain shut down until the carbon monoxide level reduces below the reset threshold of xx ppm [TBD, must also include time weighted average specs] as measured by the detection device in the circulating air. During burner shutdown while there is a call for heat the air-circulating fan shall maintain airflow. If the detection device is inoperable [see action 8 for rationale] or is disabled [see action 8], the furnace burner operation shall remain shut down. If the detection device reaches the end of its specified service life, the furnace burner operation shall shutdown. Diagnostic information shall be available at the appliance."*

A question was asked whether RV furnaces were going to be excluded from the scope of the draft standard since outdoor furnaces are excluded. After some discussion, the WG concluded that RV furnaces would be included in the scope of the draft standard.

The AHRI R&T committee approved the proposed validation testing CO detection devices for furnace, but may

have to break up effort into phases to stay within their overall budget. Staff stated that CSA's research group had previously (circa October 2024 furnace WG meeting) mentioned as a potential sponsor to fund validation testing. Staff suggested that the CSA research group be contacted to co-fund validation testing. The WG chairman stated he would investigate co-funding from CSA's research group.

The WG discussed whether to include a 10-minutes time weighted average in the definition for response time The WG will be addressing development of a test rig for the validation study and will be consulting with AHRI's RTI group. The WG is working to send a draft standards proposal to the furnace TSC.

The next meeting is scheduled for 5/1/2025. The meeting adjourned at 12:30 pm est.