

US Consumer Product Safety Commission Log of Meeting

Subject: CANENA (UL) 60335-2-40 Working Group on Flammable Refrigerants in Air Conditioners

Date: June 12 – 13, 2019

Location: Toronto, ON (and teleconference)

Prepared By: Scott Ayers (sayers@cpsc.gov, 301-987-2030), June 14, 2019

CPSC Attendees: Scott Ayers (via teleconference)

Non-CPSC Attendees: Contact Bill Hansen of Ingersoll Rand ([REDACTED]) or Ladan Bulookbashi of AHRI ([REDACTED]) for a list of attendees

Summary of Meeting:

Contact Bill Hansen of Ingersoll Rand ([REDACTED]) or Ladan Bulookbashi of AHRI ([REDACTED]) for more details of this meeting.

The meeting continued work from the May 9 to May 10, 2019 meeting to review comments received on the UL 60335-2-40 ballot on flammable refrigerants in air conditioners. There were 159 comments received and several meetings to review the comments. The group completed the comment review at the conclusion of this meeting.

The issues remaining for this meeting included: connected space requirements, detection system requirements, furnace coils and add-on heat pumps, the safety factor, and a presentation from fire officials.

The group reviewed computation flow dynamics (CFD) modeling of simulated connected spaces. The group decided to base requirements on the height of the HVAC system relative to above the space partitions and not the floor.

The group also closed out comments regarding detection system requirements, borrowing requirements from UL 2034 standard for CO detectors to minimize potential for false alarms.

The group discussed the safety factor used to determine the maximum charge size. The group decided the risk of failing the final ballot by changing the safety factor was too great and kept the originally proposed value.

Several fire officials presented their concerns with implementation of flammable refrigerants. The fire officials only raised general concerns.

The meeting was scheduled to conclude on Friday June 14, 2019, however all business was completed by Thursday June 13, 2019, and the meeting was adjourned. The chair plans to send a final version of the standard to the group for review before submitting it to UL and CSA for a final ballot. No next meeting is anticipated for this edition.