

US Consumer Product Safety Commission Log of Meeting

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

Date: July 25, 2018 and July 26, 2018

Location: Plymouth, MN

Prepared By: Scott Ayers (sayers@cpsc.gov, 301-987-2030), July 26, 2018

CPSC Attendees: Scott Ayers

Non-CPSC Attendees: Contact Ladan Bulookbashi of AHRI (LBulookbashi@ahrinet.org) for a list of attendees

Summary of Meeting:

Contact Ladan Bulookbashi of AHRI (LBulookbashi@ahrinet.org) for more details of this meeting.

- Discussion of the requirements of differences between ASHRAE standards and UL 2-40
 - If UL 2-40 is more restrictive, it affects WG 10 but if 15 and/or 15.2 is more restrictive, it may mean listed equipment will not be allowed by the AHJ
 - Further the implications of lack of confidence in published values of LFLs in ASHRAE 34
 - Discussion on minimum airflow and detection
- Presentation on A3 Study conducted by AHRI
 - Continuation of research project on A2L refrigerants
 - Leak and ignition testing of A3 refrigerants
 - Task 1 was a study to look at factors that influence ignition
 - Task 2 equipment tests
 - Simulations of hotel rooms
- Discussion on comment to increase the M1 charge to 6 times the LFL from 3 times
 - Proposal to limit portable appliances to 3 times the LFL because they could easily be stored in closets (portable or cord connected)
 - Proposal to limit fixed appliances to 6 times the LFL with a requirement to maintain a minimum room size (IEC basic requirement)
- Discussion on detection above 1.8 m heights
- Discussion on the color of tubing of A2L systems
 - Remove the red coloring requirement all together
 - Add option to add a red handle
- Update on research performed by Daikin
 - Testing performed with UL
 - Tested both ducted and ductless, but the ductless results will be shared in August
 - Tested high (50 g/min) and lower release rates
 - Many measurement points
 - Results showed that the ramp up speed of the unit fan has an impact on the dispersal of the refrigerant during a leak
- The next meetings will be:

- August 9th 11:30 to 1:00 EDT teleconference
- August 14th 11:30 to 1:00 EDT teleconference
- August 21 – 23 face to face in Dayton, OH