



MEETING LOG

MEETING TITLE/SUBJECT: UL 1563 Task Group on Electric Heat Pumps for Spas and Hot Tubs

OP PLAN ENTRY: Flammable Refrigerants

DATE OF MEETING: 7/21/2026

LOCATION OF MEETING: Virtual

CPSC STAFF FILING MEETING LOG: Scott Ayers

FILING DATE: 7/22/2026

CPSC ATTENDEE(S): Scott Ayers (ESEF)

NON-CPSC ATTENDEE(S): Contact ULSE for a list of attendees

Summary of Meeting:

The UL 1563 Technical Committee formed a task group to review a proposal to revise the standard as it relates to flammable refrigerants in electric heat pumps used in spas and hot tubs. The proposal clarifies new requirements recently added to UL 1563 referencing UL/CSA 60335-2-40.

In March 2026, ULSE submitted a proposal for preliminary review to the UL 1563 TC. The proposal included new definitions and clarified requirements for spas and hot tubs incorporating flammable refrigerants.

The proposal referenced external documents, rather than defining Flammable Refrigerant and Lower Flammable Limit. Staff proposed new definitions for each term, which the working group accepted in principle.

FLAMMABLE REFRIGERANT - Refrigerant that can ignite and burn in the presence of an ignition source.

NOTE: ANSI/ASHRAE 34 and ISO 817 classify flammable refrigerants as A2, A2L, or A3.

LOWER FLAMMABILITY LIMIT (LFL) - The minimum concentration of a gaseous flammable refrigerant in air that can produce a fire or explode. **NOTE:** ISO 817 lists lower flammable limits of various flammable refrigerants.

The proposed requirements for spa and hot tub are intended to clarify new flammable refrigerant requirements. Specifically, the requirements provide guidance to manufacturers of spas and hot tubs that incorporate a heat pump underneath a skirt. The working group will continue to discuss the proposed changes at future meetings.

Next Steps:

The working group established a reoccurring meeting every other Wednesday starting on August 5 at 11am. The working group will request time at a future UL/CSA 60335-2-40 meeting to discuss the issues. Staff will participate in the meetings as able.