



MEETING LOG

SUBJECT: TC 9540/9540A Meeting on New Proposals & Agenda Items for Battery Energy Storage Systems

FY 23 OP PLAN ENTRY: Batteries, Fire (High Energy Density)

DATE OF MEETING: Friday, February 16, 2024 (9:00 AM ET to 12:00 PM ET)

LOCATION OF MEETING: Virtual – Microsoft Teams

CPSC STAFF FILING MEETING LOG: Jay Kadiwala, Engineering Sciences (ES)

FILING DATE: Monday, February 26, 2024

CPSC ATTENDEE(S): Jay Kadiwala, ES

NON-CPSC ATTENDEE(S): Please contact Megan VanHeirsele (megan.m.heirsele@ul.org), UL Standards & Engagement Inc. (ULSE), for non-CPSC attendee list.

Summary of Meeting:

Background:

UL 9540 - *Energy Storage Systems and Equipment* is a system standard that covers equipment that receives energy and then provides a means to store that energy in some form for later use in order to supply electrical energy when needed. UL9540A - *Test Method for Evaluating Thermal Runaway Fire Propagation in Battery Energy Storage Systems* defines a test methodology to determine the capability of a battery technology to undergo thermal runaway and then evaluates the fire and explosion hazard characteristics of those battery energy storage systems that have demonstrated a capability to undergo thermal runaway. The data generated will be used to determine the fire and explosion protection required for an installation of a battery energy storage system intended for installation, operation, and maintenance.

During this meeting, ULSE introduced the basic ethical guidelines of UL TC meetings, then introduced agenda topics. Each topic was open to the attendees for discussion. The following 5 topics were covered in this meeting:

Topic 1: UL 9540 - The use of Clean Agents in battery energy storage systems (BESS).

Topic 2: UL 9540 – Requirements of Large-Scale Fire Testing.

Topic 3: UL 9540A – Inclusion of Ignition Source During Unit Level Testing for Flammable Gases Vented During Thermal Runaway.

Topic 4: UL 9540 & UL 9540A – Standardizing Teams and Definitions.

Topic 5: Proposal Process and UL 9540 Revisions to clearly define compliance pathways for different energy storage system (ESS) types.

Next Steps:

CPSC staff will review the attendee comments added into the ULSE Collaborative Standards Development System (CSDS) on these topics and proposals.