

Summary of the 25th Plenary Special Committee 235 - Non-Rechargeable Lithium Batteries

Meeting Summary:

The 25th Plenary Meeting of Special Committee 235 (SC-235) was held on September 8, 2022. The meeting was conducted as a Virtual Meeting with the following attendees participating via WebEx:

John Trela (Chairman)	The Boeing Company
Norman Pereira (Government Authorized Representative)	Federal Aviation Administration
Jeff Densmore (Secretary)	Radiant Power Corporation
Karan Hofmann (Program Director)	RTCA, Inc.
Antonio Chiesa	Transport Canada
Sergio Machado	Agência Nacional de Aviação Civil
Thomas Maloney	Federal Aviation Administration
Frederic Menard	Oroliia
Fernando Menendez Rodriguez	European Aviation Safety Agency
Kathryn Mulhollen	U.S. Air Force
Tom Pack	ACR Electronics
Paul Pfeifer	Textron
Ray Rodriguez	U.S. Air Force
Jim Russell	The Boeing Company (retired)
Adrian Sfetcu	Bell Helicopter Textron, Inc
Greg Smith	U.S. Air Force
Clayton Vondrasek	Garmin Ltd
Jeremy Zee	The Boeing Company

Opening Plenary

- The 25th Plenary meeting of SC-235 was convened on September 8, 2022 at 9:00am EDT by Chair John Trela (Boeing). Jeff Densmore (Radiant Power) was the SC-235 Recording Secretary.
- Norman Pereira was introduced as the Government Authorized Representative.
- An RTCA overview, including RTCA's Proprietary References Policy was read by Karan Hofmann, the Program Director.
- Welcoming remarks were made by John Trela. Each person in attendance was invited to introduce themselves.
- The meeting agenda was reviewed.

- The Meeting Summary for SC-235 Plenary #24 was reviewed and approved as written. During the Trigger Method portion of meeting summary review, it was noted that alternate trigger methods (eg multiple cells, entire battery, etc) were discussed during subsequent Working Group meetings but no consensus reached on changes to the existing procedural methods. It was agreed not to change the existing requirements, and defer future discussions to the resolution of any FRAC comments received on this topic.
- All documents and presentation material reviewed during Plenary #25 have been uploaded and are available on in the RTCA AerOpus documents folder.

Plenary #24 Action Item Review

There were no Action Items assigned during Plenary #24.

Draft DO-227B Review

The agenda for Plenary #25 was focused the review of the last remaining proposed changes to the Draft DO-227B with the expectation of committee approval to proceed with the FRAC process. A copy of the draft DO-227B along with a “track changes” version comparing it to DO-227A was uploaded into AerOpus prior to the Plenary meeting.

Key discussion topics are summarized below.

Open Circuit Voltage (OCV) Monitoring During Vibration.

During Working Group discussions, it was proposed to remove OCV monitoring during End Item vibration testing and only collect data before and after test. There was no consensus reached on this proposal, and the existing monitoring requirements were retained in the document.

John Trela took an action to contact cell manufacturers and request their review and comment on these OCV monitoring requirements during the FRAC process.

End Item Test Evaluation Criteria Table 2-5

The proposed draft DO-227B contained two versions of Table 2-5. This was due to editing issues. The committee resolved this error by retaining the second version of Table 2-5 and updating Footnote 1.

Glossary

The committee reviewed the Glossary section of the Draft DO-227B. Of particular interest was the definitions of Capacity and Current related terms.

Final Review and Comment (FRAC) Approval

With the completion of the review of the Draft DO-227B, the committee unanimously approved the document for begin the FRAC process. As part of the FRAC approval, Karan provided guidance on how to review and submit comments. There was also an explanation provided on the comment categories. Karan pointed out that Non-Concurrences are significant and require full committee resolution to any such comments. When asked, the committee indicated that there were no known non-concurrence comments to the document at this time.

Karan stated that the FRAC comment period would begin during the week of 12 September and would be open for 30 days.

Action Item Summary

There was one new action generated during Plenary #25:

- (1) Contact cell manufacturers and request their review and comment on these OCV monitoring requirements during the FRAC process.

Assigned to: John Trela

Working Group Meetings

It was agreed that a couple of Wednesday Working Group meetings will be held as a “check in” on the FRAC process and discussion of any comments received.

Next Plenary

Plenary #26 has been scheduled as a Face-To-Face Meeting on 13-15 December 2022 at the RTCA facility in Washington DC. Virtual attendance will also be accommodated.

-S-
Jeff Densmore
Secretary

CERTIFIED as a true and accurate summary of the meeting.

-S-
John Trela
Chairman