



DANGEROUS GOODS PANEL (DGP) WORKING GROUP ON LITHIUM BATTERIES

SECOND MEETING

Montréal, 7 to 11 April 2014

Agenda Item 1: Mitigating risks associated with the carriage of lithium metal batteries

RESULTS OF BREAK-OUT SESSION ON PERFORMANCE STANDARDS

(Presented by the Rapporteur of Break-Out Session on Performance Standards)

1. INTRODUCTION

1.1 Discussed Scope for this test method

- Size of Cell: 0.3 g lithium content or less. This includes all commercially available button cells as well as other very small lithium metal cells of other form factors.
- Number of cells: 50
- Number of packages per cargo compartment: 1
- Rational: in the event of an external fire, cells of this size and quantity would not add significantly to the fire. A limit based on total lithium per package is not the same, 50 0.3 cells behave much different from a single 15 g cell.
- Cells larger than this would require a second test that shows that the cells would not become involved in an external fire or significantly add to the fire. Size and number and number would need to be determined. Test would likely include flame impingement and exposure to an elevated temperature for an extended amount of time in addition to the internal test for the very small cells described.

1.2 We discussed the need to limit shipment to class C only. After discussion, it was concluded that the small number of cells in the sizes agreed upon, that restriction to class c only was unnecessary. This may not apply if the standard is extended to larger cells.

1.3 A revised draft will be produced in the next week or so and circulated to the break out group members for comment before being forwarded to the whole panel.

2. **COMMENT FROM PANEL DISCUSSION:**

2.1 If the test may be used for larger cells without adding an external fire component, the granting CA should be cognizant of the increased risk from an external fire.

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