



WORKING PAPER

DANGEROUS GOODS PANEL (DGP)

TWENTY-SECOND MEETING

Montréal, 5 to 16 October 2009

Agenda Item 2: Development of recommendations for amendments to the *Technical Instructions for the Safe Transport of Dangerous Goods by Air* (Doc 9284) for incorporation in the 2011-2012 Edition

Agenda Item 5: Resolution, where possible, of the non-recurrent work items identified by the Air Navigation Commission or the panel:

5.3: Review of provisions for dangerous goods relating to batteries:

- a) lithium batteries
- b) battery-powered devices
- c) battery-powered mobility aids

LITHIUM BATTERIES THAT EXCEED 35KG CONTAINED IN/PACKED WITH EQUIPMENT

(Presented by G. A. Leach)

SUMMARY

This working paper proposes an amendment to Special Provision A99 to permit lithium batteries exceeding 35 kg to be carried in/with equipment with the approval of the State of Origin.

Action by the DGP: The DGP is invited to amend Special Provision A99 as presented in the appendix.

1. INTRODUCTION

1.1 Special Provision A99 provides for **Lithium metal batteries** (UN 3090) and **Lithium ion batteries** (UN 3480) that exceed the 35 kg G shown in column 13 of Table 3-1 of the Technical Instructions to be carried on cargo aircraft with the approval of the State of Origin.

1.2 Lithium batteries that exceed 35 kg are sometimes fitted to items of equipment or need to be shipped with pieces of equipment. However Special Provision A99 does not apply to UN 3091 or UN 3481 and therefore such items cannot be carried on cargo aircraft unless exemptions have been granted by the various States concerned. It is suggested that this is excessive and that similar provisions should apply to those for lithium batteries being carried on their own on cargo aircraft. This could be achieved by extending the provisions of Special Provision A99.

APPENDIX

AMENDMENT TO THE TECHNICAL INSTRUCTIONS

Part 3

DANGEROUS GOODS LIST,
SPECIAL PROVISIONS AND
LIMITED AND EXCEPTED QUANTITIES

...

Chapter 3

SPECIAL PROVISIONS

...

Table 3-2. Special provisions

TIs *UN*

A99	Irrespective of the limit <u>quantity limits for cargo aircraft</u> specified in column 13 of Table 3-1, <u>and in Section I of Packing Instructions 965, 966, 967, 968, 969 and 970</u> , a lithium battery or battery assembly <u>(i.e. UN 3090 or UN 3480), including when packed with equipment or contained in equipment (i.e. UN 3091 or UN 3481) that meets the other requirements of Section I of the applicable packing instruction</u> , has successfully passed the tests specified in the UN Manual of Tests and Criteria, Part III, subsection 38.3, and that meets the requirements of Packing Instruction 965 for lithium ion batteries and Packing Instruction 968 for lithium metal batteries as prepared for transport may have a mass exceeding 35 kg <u>35 kg</u> , if approved by the appropriate authority of the State of Origin. A copy of the document of approval must accompany the consignment.
-----	--

...

— END —