



危险物品专家组 (DGP)

第二十三次会议

2011年10月11日至21日, 蒙特利尔

议程项目5: 在可能的范围内, 解决空中航行委员会或专家组查明的非经常性的工作项目:

议程项目5.1: 审查关于运输锂电池的规定

次级锂离子电池

(由H. Brockhaus提交)

概要

本份工作文件提议修订特殊规定 A99, 以便能够安全运输总质量超过 35 kg 的锂电池。本份工作文件是继阿布扎比举行的危险物品专家组全体工作组会议的讨论 (DGP-WG/11, 2010年11月7日至11日) (参见 DGP-WG/10-IP/2 号文件) 之后, 根据所收到的成员意见, 并应大西洋城会议 (DGP-WG/11, 2011年4月4日至8日) 之后提出的对《技术细则》的可能实施规定予以澄清的要求而提交的。

危险物品专家组的行动: 请危险物品专家组按照本份工作文件附录 A 所示, 考虑修订特殊规定 A99, 并考虑对《技术细则》2011/2012 年版发布一个增编, 纳入附录 A 所载的对特殊规定的相同修订。

1. INTRODUCTION

1.1 The DGP Working Group of the Whole meeting in Abu Dhabi was provided information surrounding the need for adopting existing rules for the transport of large lithium batteries coming from series production, meeting the requirements of each test of the United Nations *Manual of Tests and Criteria*, Part III, sub-section 38.3.

1.2 The members of the panel were invited to give their comments to the offered proposals and ideas. Based on several comments during the discussion and further helpful comments from several States, we were encouraged to present a working paper which first was presented during DG-WG/11 in Atlantic City earlier this year. This first draft was considered to be completed with further restrictions and clarifications.

1.3 Based on those inputs and comments, the working paper was modified. Some additional clarification is given in Appendix B.

附录 A

对《技术细则》2011/2012 年版的拟议修订

第 3 部分

危险物品表，特殊规定和限制数量与例外数量

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第 3 章

特殊规定

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表 3-2 特殊规定

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本细则	UN
A99	<p>无论表 3-1 第 13 栏和包装说明 965、966、967、968、969 和 970 第 I 节规定的货机数量限制为何，锂电池或电池组件（即 UN 3090 或 UN 3480），包括与设备装在一起或装在设备中的锂电池或电池组件（即 UN 3091 或 UN 3481），符合有关包装说明第 I 节的其他要求的，如果经始发国有关当局批准，质量可以超过 35 kg。该批准文件副本必须随附货物。</p> <p><u>单体重量超过 35 kg 的大型锂电池或电池组件（UN 3090 或 UN 3480），如符合下列条件，无需按照本特殊规定和包装说明 965 和 968 获得批准：</u></p> <p><u>每一大型电池或电池组件的最大净质量不超过 800 kg，并对每一单独电池或电池组件分别进行包装，且其包装能够按照《技术细则》6.4.3 的规定，成功通过跌落高度为 1.2 米的跌落试验。</u></p>

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APPENDIX B

ADDITIONAL INFORMATION

The requested amendment to A99 shall only affect batteries and battery assemblies UN 3090 and UN 3480 but not any batteries packed with or in equipment.

As described in the proposed amendment all other requirements including appropriate Packing Instructions 965 and 968 remain unchanged except for the fact that a packaging for a battery must meet the Packaging Group II performance requirements because packagings are limited up to a maximum net mass of 400 kg. Nevertheless the packagings must be able to successfully pass a drop test in accordance with 6.4.3 of the Technical Instructions.

Packaging must not meet all the requirements of Chapter 6 of the Technical Instructions and must not be approved by the appropriate state of origin. For compensation packaging must withstand the 1.2 m drop test to prove its performance.

Global general transport of large lithium-ion batteries shall be carried out by other than air transport means. Our intention is the safe air transport of large lithium batteries coming from series production for necessary specific logistic situations.

This amendment shall allow transport of single batteries and battery assemblies meeting the requirements of each test of the United Nations *Manual of Tests and Criteria*, Part III, sub-section 38.3 under specified conditions, but shall avoid the bypass or abuse of existing regulations for large quantities of regulated small cells and batteries in one package under this entry.

It is the perception of the definition of a battery assembly, that a **single mechanical unit** comprises more than one battery.

Regarding the use of the terms “batteries” or “battery assemblies” reference is made to the following definition of the UN *Manual of Test and Criteria*, sub-section 38.3:

“Battery means one or more cells which are electrically connected together by permanent means, including case, terminals, and markings.”

Note: Units that are commonly referred as “battery packs”, “modules” or “battery assemblies” having the primary function of providing a source of power to another piece of equipment are for the purposes of the Model Regulations and this Manual treated as batteries.”

This definition clarifies that also a battery assembly is classified as a battery.