



**WORKING PAPER**

**DANGEROUS GOODS PANEL (DGP)  
MEETING OF THE WORKING GROUP OF THE WHOLE**

**Auckland, New Zealand, 4 to 8 May 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 5.3: Review of provisions for dangerous goods relating to batteries**  
a) **lithium batteries**

**BATTERIES FORBIDDEN FOR TRANSPORT IN THE TECHNICAL INSTRUCTIONS**

(Presented by J. Rui)

**SUMMARY**

This paper proposes an amendment to Packing Instructions 968, 969 and 970 making certain cells which are forbidden for transport in Section I forbidden for transport in Section II.

Action by the DGP-WG is in paragraph 2.

**1. INTRODUCTION**

1.1 Section I of Packing Instructions 968, 969 and 970 in the *Technical Instructions for the Safe Transport of Dangerous Goods by Air* (Doc 9284) contains the following statement:

Cells, and batteries containing one or more cells, with a liquid cathode containing sulphur dioxide, sulphuryl chloride or thionyl chloride which have been discharged to the extent that the open circuit voltage is less than the lower of:

- a) two volts; or
- b) two-thirds of the voltage of the undischarged cell;

are forbidden from transport.

1.2 Section II of Packing Instructions 968, 969 and 970 contains no such statement. This is not reasonable; if such batteries are forbidden for transport as dangerous goods (Section I), how could it be possible to transport them as normal goods?

## 2. ACTION BY THE DGP-WG

2.1 The DGP-WG is invited to consider one of the following proposals:

a) add the following to Section II of Packing Instructions 968, 969 and 970:

Cells, and batteries containing one or more cells, with a liquid cathode containing sulphur dioxide, sulphuryl chloride or thionyl chloride which have been discharged to the extent that the open circuit voltage is less than the lower of:

a) two volts; or

b) two-thirds of the voltage of the undischarged cell;

are forbidden from transport.

b) make the following item as a general statement in Packing Instructions 968, 969 and 970:

Cells, and batteries containing one or more cells, with a liquid cathode containing sulphur dioxide, sulphuryl chloride or thionyl chloride which have been discharged to the extent that the open circuit voltage is less than the lower of:

a) two volts; or

b) two-thirds of the voltage of the undischarged cell;

are forbidden from transport.

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