



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

GROSS WEIGHT WHEN PACKING INSTRUCTION HAS A NET QUANTITY LIMITATION

(Presented by D. Brennan)

SUMMARY

This working paper proposes a change to the quantity shown on the dangerous goods transport document for lithium batteries when packed with equipment.

Action by the DGP: The DGP is invited to revise Part 5;4.1.5.1 e) of the Technical Instructions as presented in the appendix.

1. INTRODUCTION

1.1 With the changes to the requirements on declaring net mass or volume and gross mass in the 2009-2010 Edition of the Technical Instructions, significant clarity was gained on when the net quantity or gross mass would be required. However, there remains an issue with the need to identify gross mass when net quantity limitations are sought within a packing instruction.

1.2 Lithium batteries and cells (ion and metal) when packed with equipment have a net quantity limitation imposed by the packing instruction, that is, the quantity (mass) of battery(ies) per “overpack.” However, Part 5;4.1.5.1 e) would require that such articles be identified on the dangerous goods transport document with a gross mass. This means that the operator is unable to check whether the quantity limitation(s) per overpack have been complied with without imposing additional requirements on the shipper.

APPENDIX

AMENDMENTS TO THE TECHNICAL INSTRUCTIONS

Part 5

SHIPPER'S RESPONSIBILITIES

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4.1.5 Information required in addition to the dangerous goods description

In addition to the dangerous goods description the following information must be included after the dangerous goods description on the dangerous goods transport document.

4.1.5.1 *Quantity of dangerous goods, number and type of packagings*

The number of packages, type of packaging (e.g. steel drum, fibreboard box, etc.) and net quantity of dangerous goods in each package (by volume or mass, as appropriate) must be indicated for each item of dangerous goods bearing a different proper shipping name, UN number or packing group. Abbreviations may be used to specify the unit of measurement for the quantity. For packages containing the same dangerous goods and quantity per package a multiple of the quantity may be used. For example:

UN 1263, Paint, 3, PG II, 5 fibreboard boxes x 5 L

Consignment comprising packages of different quantities of the same dangerous good must be clearly identified. For example:

UN 1263, Paint, 3, PG II, 5 fibreboard boxes x 5 L, 10 fibreboard boxes x 10 L

UN packaging codes may only be used to supplement the description of the kind of package (e.g. one fibreboard box (4G)). Where the letter "G" follows the quantity in column 11 or 13 of Table 3-1 the gross mass of each package must be indicated, rather than the net quantity; and:

- a) for empty uncleaned packagings as described by 4.1.4.3 b) only the number and type of packagings need be shown;
- b) for chemical kits and first aid kits, the total net mass of dangerous goods. Where the kits contain solids and/or liquids, the net mass of liquids within the kits is to be calculated on a 1 to 1 basis of their volume, i.e. 1 litre equal to 1 kilogram;
- c) for dangerous goods in machinery or apparatus, the individual total quantities of dangerous goods in solid, liquid or gaseous state, contained in the article;
- d) for dangerous goods transported in salvage packagings, an estimate of the quantity of dangerous goods must be given;
- ≠ e) for items where "No Limit" or a packing instruction number is shown in columns ~~11 or 10~~ 10 to 13 of Table 3-1, the quantity must be:
 - 1) the net mass or volume for substances the net mass or volume (e.g. UN 2969, UN 3291)-;
 - 2) for UN 3091 and UN 3481 when packed with equipment in accordance with Packing Instructions 969 and 966 respectively, the net quantity of battery(ies) per package; and
 - 3) For other articles (e.g. UN 2794, UN 2800, UN 2990, UN 3166) the quantity must be the gross mass, followed by the letter G

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