



WORKING PAPER

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

Rio de Janeiro, Brazil, 20 to 24 October 2014

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 2017-2018 Edition

2.1: Part 5 — Shipper's Responsibilities

CUSHIONING REQUIREMENTS FOR OVERPACKS CONTAINING LIQUID DANGEROUS GOODS PACKED IN SINGLE PACKAGINGS

(Presented by Q. Xu)

SUMMARY

This working paper proposes the addition of new cushioning requirements for overpacks containing liquid dangerous goods packed in single packagings.

Action by the DGP-WG: The DGP-WG is invited to amend Part 5;1.1 f) of the Technical Instructions by adding cushioning requirements for overpacks containing liquid dangerous goods packed in single packagings, as presented in the appendix to this working paper.

1. INTRODUCTION

1.1 Part 5;1.1 of the Technical Instructions contains general requirements which must be met before offering any package or overpack of dangerous goods for transport by air. Part 5;1.1 f) provides securing requirements for packages within an overpack, but there are no cushioning requirements in the Technical Instructions for packages within an overpack.

1.2 There have been a number of incidents reported concerning damage to packages within an overpack and leakage of liquid dangerous goods from overpacks during the handling process. The main reason was that the movement of packages enclosed in the same overpack caused impact. Cushioning may help prevent such damage, especially for liquid dangerous goods packed in single packagings.

1.3 It is therefore proposed to add cushioning requirements for overpacks containing liquid dangerous goods packed in single packagings in Part 5;1.1 of the Technical Instructions (General Requirements).

2. ACTION BY THE DGP-WG

2.1 The DGP is invited to amend Part 5;1.1 f) of the Technical Instructions by adding cushioning requirements for overpacks containing liquid dangerous goods packed in single packagings, as presented in the appendix to this working paper.

APPENDIX

PROPOSED AMENDMENT TO PART 5 OF THE TECHNICAL INSTRUCTIONS

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Part 5

SHIPPER'S RESPONSIBILITIES

Chapter 1

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1.1 GENERAL REQUIREMENTS

Before a person offers any package or overpack of dangerous goods for transport by air, that person must ensure that:

- a) the articles or substances are not forbidden for transport by air (see Part 1, Chapter 2);
- b) the goods are properly classified, marked and labelled and otherwise in a condition for transport as required by these Instructions;
- c) the dangerous goods are packaged in compliance with all the applicable air transport requirements including:
 - inner packaging and the maximum quantity per package limits;
 - appropriate types of packaging according to the packing instructions;
 - other applicable requirements indicated in the packing instructions including:
 - single packagings may be forbidden;
 - only inner and outer packagings indicated in the packing instructions are permitted;
 - inner packaging may need to be packed in intermediate packagings; and
 - certain dangerous goods must be transported in packagings meeting a higher performance level.
 - appropriate closure procedures for inner and outer packagings (see 4;1.1.4);
 - the compatibility requirements such as those in the particular packing requirements of the packing instructions and in Part 4, Chapter 1;
 - the absorbent material requirements in the packing instructions when applicable; and
 - the pressure differential requirement in 4;1.1.6.
- d) the dangerous goods transport document has been properly executed and the declaration signed;
- e) the overpack does not contain packages of dangerous goods which require segregation according to Table 7-1;
- f) when an overpack is used, packages must be secured within the overpack, and if the overpack contains liquid dangerous goods packed in single packagings, cushioning material is required between the packages to protect from damage;
- g) the dangerous goods are not included in any freight container/unit load device except for radioactive material as specified in 7;2.9 (subject to the approval of the operator, this does not apply to a unit load device containing consumer commodities prepared according to Packing Instruction Y963 or dry ice used as a refrigerant for other than dangerous goods when prepared according to Packing Instruction 954 or magnetized material when prepared according to Packing Instruction 953);

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