



WORKING PAPER

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

Beijing, China, 25 October to 3 November 2006

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 2009/2010 Edition

2.5: Part 5 — Shipper's Responsibilities

**RECOMMENDED CHANGES TO 5;4.1.5.1 REGARDING
UNPACKAGED DANGEROUS GOODS ARTICLES**

(Presented by G. Branscombe)

SUMMARY

This paper discusses the difficulty in applying the requirements for quantity of dangerous goods, number and type of packagings to goods which are not within a package such as vehicles or aircraft engines on cradles. It proposes amendments to 5;4.1.5.1 to clarify this requirement.

Action by the DGP-WG is in paragraph 2.

1. INTRODUCTION

1.1 In the 2007/2008 Technical Instructions, the text of 5;4.1.5.1 Quantity of dangerous goods, number and types of packaging, does not easily apply to situations where the dangerous goods are not within a package. As an example, a vehicle, an aircraft engine on a cradle, etc.

1.2 However, 5;4.1.5.1 states: "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."

1.3 Additionally 5;4.1.5.1 c) requires the individual total quantities (solid, liquid, or gaseous state) in machinery or apparatus. Experience has shown that it is difficult to determine specific quantities contained in machinery and apparatus. The machinery or apparatus itself is the dangerous good therefore; the gross mass should be required.

2. ACTION BY THE DGP-WG

2.1 The DGP-WG is invited to agree to the following amendments:

Proposal 1

2.1.1 To address situations where dangerous goods are not within a package, the addition of the following paragraph after 5;4.1.5.1 (e) is proposed:

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

...

e) for items where “No Limit” is shown in column 10 or 12 the quantity shown should be the net mass or volume of the substance, except for UN 2800, UN 2807, UN 3072, UN 3166 and UN 3171 where the quantity shown should be the gross mass of the article.

f) When the dangerous goods are not within a package (i.e. a vehicle, an aircraft engine, etc.) the number of unpackaged items, a description and the gross quantity, followed by the letter “G”, for each item of dangerous goods bearing a different proper shipping name, UN number or packing group. For example::

1 automobile × 1 350 kg G

1 aircraft engine × 746 kg G

Proposal 2

2.1.2 To address the problem in determining quantities, an amendment to 5;4.1.5.1 c) is proposed as follows:

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~~ gross mass, followed by the letter “G”, of the machinery or apparatus;

— END —