



WORKING PAPER

**DANGEROUS GOODS PANEL (DGP)
WORKING GROUP MEETING (DGP-WG/25)**

Delhi, India, 21 to 25 April 2025

- Agenda Item 2: Managing air-specific safety risks and identifying anomalies (REC-A-DGS-2027)**
2.2: Develop proposals, if necessary, for amendments to the Technical Instructions for the *Safe Transport of Dangerous Goods by Air* (Doc 9284) for incorporation in the 2027-2028 Edition

**QUANTITY OF DANGEROUS GOODS, NUMBER AND TYPE OF PACKAGINGS TO BE
STATED ON THE DANGEROUS GOODS TRANSPORT DOCUMENT**

(Presented by E. Gillett)

SUMMARY

This paper discusses the clarity of requirements within the Technical Instructions concerning the information to be included on the dangerous goods transport document in addition to the dangerous goods description.

Action by the DGP-WG is in paragraph 2.

1. INTRODUCTION

1.1 Part 5;4.1.5 of the Technical Instructions specifies the information required to be included on the dangerous goods transport document in addition to the dangerous goods description. It is suggested that the formatting of Part 5;4.1.5.1 may have inadvertently resulted in the requirements being unclear and potentially misstated.

1.2 The title of Part 5;4.1.5.1 is 'Quantity of dangerous goods, number and type of packagings' but this is not aligned with the flow of the text that follows, i.e. 'number of packages, type of packaging ... and net quantity'. It is suggested that the title be aligned to reflect the sequence in the examples of the required information that follow.

1.3 The text uses the terms 'shown', 'given' and 'indicated' synonymously and it is suggested that the term 'shown' be used throughout. There are also instances of 'must' and 'need' being used for the same purpose which are suggested to be standardized by using 'must'.

1.4 The first requirement within Part 5;4.1.5.1 specifies that the net quantity of dangerous goods is to be stated, but this conflicts with the subsequent text for limited quantities with a 30 kg G limit in Table 3-1. It is suggested that the first requirement be prefixed 'Except as otherwise specified below ...'.

1.5 The following anomalies are noted within the main body of the fourth paragraph under 5;4.1.5.1:

- a) the text 'UN packaging codes may only be used ...' runs into separate requirements concerning limited quantities in the same paragraph whereas they should be in separate paragraphs to make them distinct requirements.
- b) the first requirement for limited quantities ends with 'and:' implying that all the items in subparagraphs a) to f) which follow concern limited quantities, but this is not the case so the 'and:' should be deleted.
- c) the requirements related to limited quantities are unnecessarily in two sections so these should be collocated to ease readability.

1.6 Subparagraph c) under the fourth paragraph of 5;4.1.5.1 refers to the requirements for dangerous goods in machinery or apparatus (loosely referring to commodities by their proper shipping names). Whilst the text goes on to explain that the information is to include the individual total quantities of dangerous goods contained in the article, it should be clarified that the text also applies to dangerous goods in articles. Also, the requirement for the individual total quantities of dangerous goods in solid, liquid or gaseous state, should seemingly apply to one or more article in the package so the term 'article(s)' is proposed instead of 'article'.

1.7 The note at the end of Part 5;4.1.5.1 applies to the whole section so it is proposed to clarify this by moving it up to follow the opening paragraph.

2. ACTION BY THE DGP-WG

2.1 The DGP-WG is invited to consider the amendments proposed to Part 5;4.1.5.1 of the Technical Instructions within Appendix A to this working paper. A clean version of the text is provided in Appendix B.

APPENDIX A

Part 5

SHIPPER'S RESPONSIBILITIES

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Chapter 4

DOCUMENTATION

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4.1 DANGEROUS GOODS TRANSPORT INFORMATION

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4.1.5 Information required in addition to the dangerous goods description

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4.1.5.1 ~~Quantity of dangerous goods, n~~Number of packages, and type of packagings and quantity of dangerous goods

~~Except as otherwise specified below,~~ the number of packages, type of packaging (such as steel drum, fibreboard box, etc.) and net quantity of dangerous goods in each package (by volume or mass, as appropriate) must be ~~indicated~~ shown 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.

Moved from the end of 5;4.1.5.1:

~~Note.— The number, type and capacity of each inner packaging within the outer packaging of a combination packaging is not required to be indicated~~ shown.

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 (such as one fibreboard box (4G)).

~~For limited quantities, where the letter "G" follows the quantity in column 11 of Table 3-1;~~

~~a) when consigned under a single proper shipping name,~~ the gross mass of each package must be ~~indicated~~ shown, ~~rather than the net quantity (except, or~~

~~b) when there are different dangerous goods packed together in the same outer packaging which must be described as shown in paragraph e)) and,~~ the net quantity of each dangerous goods followed by the gross mass of the completed package must be shown.

~~a) f~~For empty uncleaned packagings as described by 4.1.4.3 b) only the number and type of packagings ~~need~~ must be shown.

~~b) f~~For chemical kits and first aid kits, the total net mass of dangerous goods must be shown. 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, that is, 1 L equal to 1 kg.

~~—c) For dangerous goods in apparatus, articles or machinery ~~or apparatus~~, the individual total quantities of dangerous goods in solid, liquid or gaseous state, contained in the article (s) must be shown.~~

~~—d) For dangerous goods transported in salvage packagings, an estimate of the quantity of dangerous goods must be given shown.~~

~~—e) for dangerous goods in limited quantities with a 30 kg G limit in Table 3-1, where different dangerous goods are packed together in the same outer packaging, the net quantity of each dangerous goods followed by the gross mass of the completed package;~~

~~—f) For explosive articles of Class 1, the net quantity indicated shown for each package must be supplemented with the net explosive mass (see Part 1;3.1.1 for the definition of net explosive mass) contained in the package followed by the unit of measurement. The abbreviations "NEQ", "NEM" or "NEW" may be indicated shown in association with the value provided.~~

Moved to below first paragraph under
5;4.1.5.1:

~~—Note.—The number, type and capacity of each inner packaging within the outer packaging of a combination packaging is not required to be indicated.~~

APPENDIX B

PROPOSAL – CLEAN VERSION

4.1 DANGEROUS GOODS TRANSPORT INFORMATION

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4.1.5 Information required in addition to the dangerous goods description

...

4.1.5.1 Number of packages, type of packagings and quantity of dangerous goods

Except as otherwise specified below, the number of packages, type of packaging (such as steel drum, fibreboard box, etc.) and net quantity of dangerous goods in each package (by volume or mass, as appropriate) must be shown 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.

Note.— The number, type and capacity of each inner packaging within the outer packaging of a combination packaging is not required to be shown.

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 (such as one fibreboard box (4G)).

For limited quantities, where the letter “G” follows the quantity in column 11 of Table 3-1:

- a) when consigned under a single proper shipping name, the gross mass of each package must be shown; or
- b) when there are different dangerous goods packed together in the same outer packaging, the net quantity of each dangerous goods followed by the gross mass of the completed package must be shown.

For empty uncleaned packagings as described by 4.1.4.3 b) only the number and type of packagings must be shown.

For chemical kits and first aid kits, the total net mass of dangerous goods must be shown. 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, that is, 1 L equal to 1 kg.

For dangerous goods in apparatus, articles or machinery, the individual total quantities of dangerous goods in solid, liquid or gaseous state, contained in the article(s) must be shown.

For dangerous goods transported in salvage packagings, an estimate of the quantity of dangerous goods must be shown.

For explosive articles of Class 1, the net quantity shown for each package must be supplemented with the net explosive mass (see Part 1;3.1.1 for the definition of net explosive mass) contained in the package followed by the unit of measurement. The abbreviations “NEQ”, “NEM” or “NEW” may be shown in association with the value provided.

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