



WORKING PAPER

**DANGEROUS GOODS PANEL (DGP)
WORKING GROUP MEETING (DGP-WG/18)**

Montréal, 1 to 5 October 2018

- Agenda Item 1: Harmonizing ICAO dangerous goods provisions with UN Recommendations on the Transport of Dangerous Goods**
- 1.2: 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 2021-2022 Edition**
 - 1.3: Develop proposals, if necessary, for amendments to the *Supplement to the Technical Instructions for the Safe Transport of Dangerous Goods by Air* (Doc 9284SU) for incorporation in the 2021-2022 Edition**

**MAXIMUM CAPACITY OF METAL RECEPTACLES (AEROSOLS), NON-REFILLABLE
(IP.7 & IP.7A)**

(Presented by E. Gillett)

SUMMARY

This paper identifies an apparent anomaly between the maximum capacity of metal receptacles (aerosols), non-refillable (IP.7 & IP.7A) shown within packing instructions and the maximum design capacity for such inner packagings stated within Part 4;3.2.7.

Action by the DGP-WG: The DGP-WG is invited to consider amending Packing Instructions 203 and Y203 of the Technical Instructions and Packing Instruction 203 of the Supplement, as shown in the appendices to this working paper.

1. INTRODUCTION

1.1 Packing Instructions 203 of the Technical Instructions and 203 of the Supplement both state “Non-refillable metal aerosols and non-refillable receptacles containing gas (gas cartridges) must not exceed 1 000 mL capacity”. Packing Instruction Y203 states “Non-refillable metal aerosols and non-refillable receptacles containing gas (gas cartridges) containing toxic substances must not exceed 120 mL capacity. All other non-refillable metal aerosols and non-refillable receptacles containing gas (gas cartridges) must not exceed 1 000 mL capacity”.

1.2 Part 6;3.2.7.1 details the requirements for receptacles (aerosols) IP.7 & IP.7A and states “Maximum capacity must not exceed 820 mL”. Therefore, the 1 000 mL capacity limitation stated within the packing instructions is only applicable to non-refillable receptacles containing gas (gas cartridges) which do not contain toxic substances. It is suggested that the text of the packing instructions lacks clarity and if read in isolation the design capacity limit for IP.7 & IP.7A shipped by air could be exceeded.

2. ACTION BY THE DGP-WG

2.1 The DGP-WG is invited to consider amending Packing Instructions 203, Y203 and Packing Instruction 203 of the Supplement as shown in the appendices to this working paper.

APPENDIX A

PROPOSED AMENDMENT TO PART 4 OF THE TECHNICAL INSTRUCTIONS

Part 4

PACKING INSTRUCTIONS

Chapter 4

CLASS 2 — GASES

4.2 PACKING INSTRUCTIONS

Packing Instruction 203

Passenger and cargo aircraft for UN 1950 and 2037 only

The general packing requirements of 4;1 must be met.

For the purposes of this packing instruction, a receptacle is considered to be an inner packaging.

Note.— “Receptacle” has the same meaning as set out in 1;3. Any reference in this packing instruction to receptacle will include “aerosols” of UN 1950 and “receptacles, small, containing gas” and “gas cartridges” of UN 2037.

Metal aerosols (IP.7, IP.7A, IP.7B) and non-refillable receptacles containing gas (gas cartridges)

~~Non-refillable metal aerosols~~ IP.7 and IP.7A must not exceed 820 mL capacity. IP.7B and non-refillable receptacles containing gas (gas cartridges) must not exceed 1 000 mL capacity.

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Packing Instruction Y203

Passenger and cargo aircraft for UN 1950 and 2037 only

The requirements of 3;4 must be met.

For the purposes of this packing instruction, a receptacle is considered to be an inner packaging.

Note.— “Receptacle” has the same meaning as set out in 1;3. Any reference in this packing instruction to receptacle will include “aerosols” of UN 1950 and “receptacles, small, containing gas” and “gas cartridges” of UN 2037.

Metal aerosols (IP.7, IP.7A, IP.7B) and non-refillable receptacles containing gas (gas cartridges)

Non-refillable metal aerosols and non-refillable receptacles containing gas (gas cartridges) containing toxic substances must not exceed 120 mL capacity.

When not containing toxic substances ~~All other non-refillable metal aerosols~~ IP.7 and IP.7A must not exceed 820 mL capacity. IP.7B and non-refillable receptacles containing gas (gas cartridges) must not exceed 1 000 mL capacity.

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APPENDIX

PROPOSED AMENDMENT TO PART S-4 OF THE SUPPLEMENT OF THE TECHNICAL
INSTRUCTIONS

Part S-4

PACKING INSTRUCTIONS

(ADDITIONAL INFORMATION
FOR PART 4 OF THE
TECHNICAL INSTRUCTIONS)

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Chapter 4

CLASS 2 — GASES

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Packing Instruction 203

Passenger and cargo aircraft for UN 1950 and 2037 only

The general packing requirements of 4;1 must be met.

For the purposes of this packing instruction, a receptacle is considered to be an inner packaging.

Note.— “Receptacle” has the same meaning as set out in 1;3. Any reference in this packing instruction to receptacle will include “aerosols” of UN 1950 and “receptacles, small, containing gas” and “gas cartridges” of UN 2037.

Metal aerosols (IP.7, IP.7A, IP.7B) and non-refillable receptacles containing gas (gas cartridges)

~~Non-refillable metal aerosols~~ IP.7 and IP.7A must not exceed 820 mL capacity. IP.7B and non-refillable receptacles containing gas (gas cartridges) must not exceed 1 000 mL capacity.

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