



WORKING PAPER

DANGEROUS GOODS PANEL (DGP)

TWENTY-NINTH MEETING

Montréal, 13 to 17 November 2023

Agenda Item 1: Harmonizing ICAO dangerous goods provisions with UN Recommendations on the Transport of Dangerous Goods (Ref: REC-A-DGS-2025)

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 2025-2026 Edition

**AMENDMENTS TO PART 1 OF THE TECHNICAL INSTRUCTIONS DEVELOPED BY
DGP-WG/22 AND DGP-WG/23**

(Presented by the Secretary)

SUMMARY

This working paper contains consolidated draft amendments to Part 1 of the Technical Instructions developed by the Working Group of the DGP in 2022 (DGP-WG/2022) and 2023 (DGP-WG/2023) to:

- a) reflect the decisions taken by the UN Committee of Experts on the Transport of Dangerous Goods and on the Globally Harmonized System of Classification and Labelling of Chemicals at its eleventh session (Geneva, 9 December 2022);
- b) facilitate transport or state oversight; and
- c) address issues related to lithium batteries.

The DGP is invited to agree to the draft amendments in this working paper.

Part 1

GENERAL

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Chapter 1

SCOPE AND APPLICABILITY

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1.1 GENERAL APPLICABILITY

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Amendments to battery provisions

Paragraph 4.4.1.5 of DGP-WG/23 report:

1.1.5 General exceptions

1.1.5.1 Except for 7;4.2, these Instructions do not apply to dangerous goods carried by an aircraft where the dangerous goods are:

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h) contained within items of excess baggage being sent as cargo provided that:

- 1) the excess baggage has been consigned as cargo by or on behalf of a passenger;
- 2) the dangerous goods may only be those that are permitted by and in accordance with 8;1.1.2 to be carried in checked baggage;
- 3) the excess baggage is marked with the words "Excess baggage consigned as cargo".

i) data loggers and cargo tracking devices with installed lithium batteries, attached to or placed in packages, overpacks or unit load devices are not subject to any provisions of these Instructions provided the following conditions are met:

- 1) the data loggers or cargo tracking devices must be in use or intended for use during transport;
- 2) each cell or battery must meet the provisions of Part 2;9.3 a), e), f) (if applicable) and g);
- 3) for a lithium ion cell, the Watt-hour rating not exceeding 20 Wh;
- 4) for a lithium ion battery, the Watt-hour rating not exceeding 20 Wh;
- 5) for a lithium metal cell, the lithium content not exceeding 1 g;
- 6) for a lithium metal battery, the aggregate lithium content not exceeding 1 g;
- 7) the number of data loggers or cargo tracking devices in or on any package or overpack must be no more than the number required to track or to collect data for the specific consignment;
- 8) the data loggers or cargo tracking devices must be capable of withstanding the shocks and loadings normally encountered during transport;
- 9) the devices must not be capable of generating a dangerous evolution of heat; and
- 10) the devices must meet defined standards for electromagnetic radiation to ensure that the operation of the device does not interfere with aircraft systems.

Note.— This exception does not apply where the data loggers or cargo tracking devices are offered for transport as a consignment in accordance with Packing Instruction 967 or 970.

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1.3 APPLICATION OF STANDARDS

Where the application of a standard is required and there is any conflict between the standard and these Instructions, the Instructions take precedence. The requirements of the standard that do not conflict with these Instructions must be applied as specified, including the requirements of any other standard, or part of a standard, referenced within that standard as normative.

UN harmonization amendments

Paragraph 4.1.2.1.2 of DGP-WG/23 report:

UN Model Regulations, Chapter 1.1, 1.1.1.7 (see ST/SG/AC.10/50/Add.1)

Note. — A standard provides details on how to meet the provisions of these Instructions and may include requirements in addition to those set out in these Instructions.

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Chapter 3

GENERAL INFORMATION

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3.1 DEFINITIONS

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UN harmonization amendments

Paragraph 4.1.2.1.2 of DGP-WG/23 report:

UN Model Regulations, Chapter 1.2, 1.2.1 (see ST/SG/AC.10/50/Add.1)

Dangerous goods security. Measures or precautions to be taken by operators, shippers and others involved in the transport of dangerous goods aboard aircraft to minimize theft or misuse of dangerous goods that may endanger persons or property.

Degree of filling. The ratio, expressed in %, of the volume of liquid or solid introduced at 15°C into the means of containment and the volume of the means of containment ready for use.

Design. For the transport of radioactive material, the description of fissile material excepted under 2;7.2.3.5.1 f), special form radioactive material, low dispersible radioactive material, package or packaging which enables such items to be fully identified. The description may include specifications, engineering drawings, reports demonstrating compliance with regulatory requirements, and other relevant documentation.

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Manual of Tests and Criteria. The ~~seventh~~ eighth revised edition of the United Nations publication bearing this title (ST/SG/AC.10/11/Rev.~~7~~8 and Amend.~~4~~).

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Model Regulations. The twenty-~~second~~third revised edition of the United Nations publication entitled *Recommendations on the Transport of Dangerous Goods: Model Regulations* (ST/SG/AC.10/1/Rev.~~22~~23).

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Recycled plastics material. Material recovered from used industrial packagings or from other plastics material that has been cleaned pre-sorted and prepared for processing into new packagings, including IBCs. The specific properties of the recycled material used for production of new packagings, including IBCs, must be assured and documented regularly as part of a quality assurance programme recognized by the appropriate national authority. The quality assurance programme

must include a record of proper pre-sorting and verification that each batch of recycled plastics, which is of homogeneous composition, is consistent with the material ~~has the proper specifications~~ (melt flow rate, density, and tensile ~~yield strength, consistent with that properties~~) of the design type manufactured from such recycled material. This necessarily includes knowledge about the ~~packaging plastics~~ material from which the recycled plastics ~~has~~ have been derived, as well as awareness of the prior use, including prior contents, of ~~those packagings~~ the plastics material if ~~those that~~ prior ~~contents~~ use might reduce the capability of new packagings, including IBCs, produced using that material. In addition, the manufacturer's quality assurance programme for packaging ~~manufacturer's quality assurance programmes under 6.1.1.3 of these Instructions or IBC under 6.5.4.1 of the UN Model Regulations~~ must include performance of the mechanical design type test on packagings in Part 6, Chapter 4 ~~on packagings of these Instructions or IBCs in 6.5.6 of the UN Model Regulations~~, manufactured from each batch of recycled plastics material. In this testing, stacking performance may be verified by appropriate dynamic compression testing rather than static load testing.

≠ *Note.— ISO 16103:2005 "Packaging — Transport packages for dangerous goods — Recycled plastics material", provides additional guidance on procedures ~~to be~~ which may be followed in approving the use of recycled plastics material. These guidelines have been developed based on the experience of the manufacturing of drums and jerricans from recycled plastics material and as such may need to be adapted for other types of packagings, IBCs and large packagings made of recycled plastics material.*

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Chapter 4

DANGEROUS GOODS TRAINING

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Amendments to facilitate transport or State oversight

Paragraph 4.3.5 of DGP-WG/22 report:

4.4 TRAINING AND ASSESSMENT RECORDS

4.4.1 The employer must maintain a record of training and assessment for personnel.

4.4.2 The record of training and assessment must include:

- a) the individual's name;
- b) the month of completion of the most recent training and assessment;
- c) a description, copy or reference to training and assessment materials used to meet the training and assessment requirements;
- d) the name and ~~address of the organization providing~~ other information that identifies the organization providing the training and assessment (e.g. registered address); and
- e) evidence which shows that the personnel have been assessed as competent.

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