International Civil Aviation Organization

DGP-WG/23-WP/11
13/4/23

WORKING PAPER

DANGEROUS GOODS PANEL (DGP) WORKING GROUP MEETING (DGP-WG/23)

Rio de Janeiro, Brazil, 15 to 19 May 2023

Agenda Item 1: Harmonizing ICAO dangerous goods provisions with UN Recommendations on the Transport of Dangerous Goods (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

DRAFT AMENDMENTS TO PART 1 OF THE TECHNICAL INSTRUCTIONS TO ALIGN WITH THE UN RECOMMENDATIONS

(Presented by the DGP Working Group on UN Harmonization)

SUMMARY

This working paper contains draft amendments to Part 1 of the Technical Instructions to 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 ninth session (Geneva, 9 December 2022).

Action by the DGP-WG: The DGP-WG 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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1.3 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 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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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.

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

Degree of filling. The ratio, expressed in %, of the volume of liquid or solid introduced at 15ºC 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. 1~~).

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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~~ property) 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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