

国际民用航空组织

工作文件

危险物品专家组(DGP)

第二十八次会议

2021年11月15日至19日,虚拟会议

- 议程项目 1: 国际民航组织危险物品的规定与联合国《关于危险货物运输的建议书》的协调统一 (编号: REC-A-DGS-2023)
 - 1.2: 如有必要,拟定对《危险物品安全航空运输技术细则》(Doc 9284 号文件)的修订提案,以便纳入 2023 年 2024 年版

为与《联合国规章范本》保持一致而提出的杂项修订

(由危险物品专家组与联合国协调统一工作组报告员提交)

摘要

本工作文件对《技术细则》的规定提出了一些修订,以处理《联合国规章范本》的规定与《技术细则》的规定之间的不一致之处或差距。

危险物品专家组的行动:请危险物品专家组审议本工作文件附录所提出的修订。

1. **INTRODUCTION**

- 1.1 Following the review of the changes to the Technical Instructions arising from alignment with the changes to the 22nd revised edition of the UN Model Regulations, the DGP Working Group on UN Harmonization (DGP-WG/UN Harmonization) focussed on updating the document *Guidance for the Panel to Aid in Preparation of the Technical Instructions and Supporting Documents* (DGP Guidance document).
- 1.2 As part of the review and revision to the DGP Guidance document, the working group identified some areas in the Technical Instructions where there was incomplete alignment with the provisions of the UN Model Regulations and some anomalies in the provisions of the Technical Instructions.
- 1.3 This working paper proposes some miscellaneous amendments to the Technical Instructions to address the issues identified by the working group.

1.4 Part 2 — Classification

1.4.1 Part 2;4.2.3.2.1 related to the classification of self-reactive substances of Division 4.1 and Part 2;5.3.2.2 related to the classification of organic peroxides do not align to the equivalent paragraphs in the UN Model Regulations, which provide more detail on the classification of these substances. For example, paragraph 2.4.2.3.2.1 in the UN Model Regulations reads as follows:

Self-reactive substances are classified into seven types according to the degree of danger they present. The types of self-reactive substance range from type A, which may not be accepted for transport in the packaging in which it is tested, to type G, which is not subject to the provisions for self-reactive substances of Division 4.1. The classification of types B to F is directly related to the maximum quantity allowed in one packaging.

1.4.2 The view of DGP-WG/UN Harmonization is that the UN text should be adopted with a slight modification into the Technical Instructions as it provides more complete information than that currently in the Technical Instructions.

1.5 Part 3 — Dangerous Goods List (Table 3-1)

- 1.6 In considering the guidance, it was identified that there is an inconsistency in the treatment of UN 3221 Self-reactive liquid type B and UN 3231 Self-reactive liquid type B, temperature controlled, which are shown as forbidden/forbidden and which in theory could be shipped under an exemption. This is compared to Self-reactive solid type B and Self-reactive solid type B, temperature controlled and to the organic peroxides type B solid and liquid, which are listed in Table 3-1 in light type without a UN number or division number and therefore are forbidden under any circumstances.
- 1.7 The classification flowchart in the UN Model Regulations for the self-reactive substances of Division 4.1 and the organic peroxides identifies that substances of type B have explosive properties. As per Part 1;2.1 "Any article or substance which, as presented for transport, is liable to explode ... must not be carried on aircraft under any circumstances."
- 1.8 DGP-WG/UN Harmonization therefore believes that the entries for self-reactive liquid type B should be aligned to those for the solid entries for organic peroxides in type B and made forbidden under any circumstances.

1.9 Part 3 — Special Provisions (Table 3-2)

- 1.10 It was identified that Special Provision A57, which is assigned to various Division 4.1 nitrocellulose entries, has no corresponding special provision in the UN Model Regulations, although the text of Special Provision A57 appears to be derived from requirements in the UN packing instructions, P406 and for nitrocellulose membrane filters, P411.
- 1.11 In reviewing the relevant packing instructions in the Technical Instructions (Packing Instructions 452, 453, 458 and Y458), the requirement specified in Special Provision A57 is already included in these packing instructions. As such, the view of DGP-WG/UN Harmonization is that Special Provision A57 can be changed to become "not used".

2. **ACTION BY THE DGP**

2.1 The DGP is invited to consider the amendments as proposed in the appendix to this working paper.

附录

对技术细则第2部分和第3部分的拟议修订

第2部分

危险物品的分类

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第4章

第4类 — 易燃固体; 易于自燃的物质;遇水放出易燃气体的物质

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《联合国规章范本》第 2.4.2.3.2 段

4.2.3.2 自反应物质的分类

4.2.3.2.1 自反应物质根据其危险程度进行分类分为七种类型,从A型到G型。A型禁止用任何运输模式运输;G型不受4.1项自反应物质规定的限制。B型到F型的分类与一种包装允许装载的最大数量直接相关。

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第5章

第5类 — 氧化性物质;有机过氧化物

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5.3.2 有机过氧化物的分类

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《联合国规章范本》第 2.5.3.2.2 段

5.3.2.2 有机过氧化物按其危险性程度分类根据其危险程度分为七种类型,从A型到G型。A型禁止用任何运输模式运输;G型不受5.2项有机过氧化物规定的限制。B型到F型的分类与一种包装允许装载的最大数量直接相关。

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第3部分

危险物品表,特殊规定和限制数量与例外数量

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第2章

危险物品表 (表 3-1) 的编排

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表 3-1. 危险物品表

									客机和货机		仅限于货机	
名称	UN 编号	类别 或 项别	次要 危险性	标签	国家差异 条款	特殊 规定	UN 包装 等级	例外数量	包装说明	每个 包装件 最大净量	包装说明	每个 包装件 最大净量
I	2	3	4		6	7	8	9	10	11	12	13
Nitrocellulose membrane filters with not more than 12.6% nitrogen, by dry mass 硝化纤维素滤膜, 按干燥 质量计, 含氮不大于 12.6%	3270	4.1		Solid flamma ble 易燃固体		A57 A73 A122	II	E2	458 Y458	1 kg 1 kg	458	15 kg
Nitrocellulose, with not more than 12.6% nitrogen, by dry mass, mixture without plasticizer, without pigment 硝化纤维素,按干燥质量计,含氮不大于12.6%,不含增塑剂,不含颜料混合物	2557	4.1		Solid flamma ble 易燃固体	BE 3	A57 A86 A217	П	E0	452	1 kg	453	15 kg
Nitrocellulose, with not more than 12.6% nitrogen, by dry mass, mixture without plasticizer, with pigment 硝化纤维素,按干燥质量计,含氮不大于12.6%,不含增塑剂,含颜料混合物	2557	4.1		Solid flamma ble 易燃固体	BE 3	A57 A86 A217	II	E0	452	1 kg	453	15 kg

									客机和	口货机	仅限于	- 货机
名称	UN 编号	类别 或 项别	次要 危险性	标签	国家差异 条款	特殊 规定	UN 包装 等级	例外数量	包装说明	每个 包装件 最大净量	包装说明	每个 包装件 最大净量
1	2	3	4		6	7	8	9	10	11	12	13
Nitrocellulose, with not more than 12.6% nitrogen, by dry mass, mixture with plasticizer, without pigment 硝化纤维素,按干燥质量计,含氮不大于12.6%,含增塑剂,不含颜料混合	2557	4.1		Solid flamma ble 易燃固体	BE 3	A57 A86 A217	II	EO	452	1 kg	453	15 kg
Nitrocellulose, with not more than 12.6% nitrogen, by dry mass, mixture with plasticizer, with pigment 硝化纤维素,按干燥质量计,含氮不大于12.6%,含增塑剂,含颜料混合物	2557	4.1		Solid flamma ble 易燃固体	BE 3	A57 A86 A217	II	E0	452	1 kg	453	15 kg
Nitrocellulose with alcohol, not less than 25% alcohol, by mass and not less than 12.6% nitrogen, by dry mass 含醇硝化纤维素, 按质量 计, 含醇不低于25%, 按干燥质量计, 含氮不超过12.6%	2556	4.1		Solid flamma ble 易燃固体	BE 3	A57 A217	II	E0	452	1 kg	453	15 kg
Nitrocellulose with water, not less than 25% water by mass 含水硝化纤维素, 按质量 计, 含水不低于25%	2555	4.1		Solid flamma ble 易燃固体	BE 3	A57 A217	II	E0	452	1 kg	453	15 kg
Self-reactive liquid type B* B型自反应液体*	3221 FORBI	4.1 DDEN 禁运							FORB	DDEN 禁 运	FORB	DDEN 禁运

									客机私	客机和货机		仅限于货机	
名称	UN 编号	类别 或 项别	次要 危险性	标签	国家差异 条款	特殊 規定	UN 包装 等级	例外数量	包装说明	每个 包装件 最大净量	包装说明	每个 包装件 最大净量	
1	2	3	4		6	7	8	9	10	11	12	13	
Self-reactive liquid type B, temperature controlled* B型自反应液体,控制温 度的*	3231 FORBI	4.1 DDEN 禁运							_	DDEN 禁运	FORBI	DDEN 禁运	

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第3章

特殊规定

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表3-2. 特殊规定

本细则 UN

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A57 包装必须具备相应结构,使其在内压增加时不具有爆炸的可能性。未用。

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