منظمة الطيران المدني الدولي ورقة عمل

فريق خبراء البضائع الخطرة الاجتماع الثلاثون مونتربال، ٦/١٠ ٢٠٢٥/٦/١٠

البند رقم ١: المواءمة بين أحكام الإيكاو المتعلقة بالبضائع الخطرة وتوصيات الأمم المتحدة بشأن نقل البضائع الخطرة (المرجع: REC-A-DGS-2027).

۱-۲: إعداد ما يلزم من اقتراحات لتعديل وثيقة "التعليمات الفنية للنقل الآمن للبضائع الخطرة بطريق الجو" (Doc 9284) لإدخالها في طبعة ۲۰۲۷-۲۰۸ من الوثيقة

تعليمات التغليف التي ينبغي تطبيقها على البنود المصنفة ك "بنود تحتوي على بضائع خطرة، غير المحددة على نحو آخر"

(ورقة مقدَّمة من ب. تاتين)

الموجز التنفيذي

تدعو ورقة العمل هذه فريق الخبراء إلى النظر في توضيح تعليمات التغليف التي ينبغي تطبيقها على مختلف البنود المتعلقة بالسلع المحتوية على بضائع خطرة، وهي البضائع غير المحددة على نحو آخر (N.O.S.) المدرجة تحت أرقام الأمم المتحدة من ٣٥٣٧ إلى ٣٥٤٨.

الإجراءات التي يتخذها فريق خبراء البضائع الخطرة: فريق البضائع الخطرة مدعو إلى:

- أ) الموافقة على أحد الخيارين المقترحين في المرفق (أ) للتغلب على الصــعوبات المتعلقة بتحديد تعليمات التغليف التي تنطبق على السلع المدرجة تحت أرقام الأمم المتحدة من ٣٥٣٧ إلى ٣٥٤٨؟
- ب) النظر فيما إذا كان ينبغي تجميع الموافقات والإعفاءات المتعلقة بالبنود المدرجة تحت أرقام الأمم المتحدة من ٣٥٣٧ إلى ٣٥٤٨ في موافقة واحدة أو إعفاء واحد؛
 - ج) النظر فيما إذا كانت الأحكام الواردة في الفقرة صفر -٦-٢ من الجزء الثاني وفي الفقرة صفر -٦-٥ متناقضة، على النحو المبين في الفقرة ٣-٢ من ورقة العمل هذه..

لم يُترجم سوى موجز ورقة العمل.

1. **INTRODUCTION**

1.1 This working paper outlines overlaps between various parts of the Technical Instructions and the Supplement with respect to articles containing dangerous goods, which cause confusion when considering which packing instruction and/or conditions for issuing approvals apply. It also outlines overlaps between approval provisions for these articles. The overlaps are described below and identified in Appendix B to this working paper.

2. MULTIPLE PACKGING INSTRUCTIONS

- 2.1 Part 2;0.6 of the Technical Instructions sets out the classification criteria for articles containing dangerous goods as a residue or as an integral element of the machinery or apparatus as either UN 3363 or one of the entries for articles containing dangerous goods (UN numbers 3537 through 3548) in accordance with 2;0.6.1 to 2;0.6.6. All the entries assigned to UN numbers 3537 through 3548 are forbidden for transport on both passenger and cargo aircraft under normal circumstances, but some are permitted through approvals or under specific conditions. This leads to potentially three packing instructions being applicable to a single entry, i.e.:
 - a) A specific packing instruction for each class of articles is assigned to entries in the Supplement that can be transported through an approval issued by the States of Origin and the Operator in accordance with Special Provision A2.
 - b) Packing Instruction 910 is applicable to some of the articles that are permitted to contain pre-production prototype or low production run lithium or sodium ion cells or batteries that have not been UN design-type tested through an approval issued by the States of Origin and the Operator in accordance with Special Provision A88
 - c) Packing Instruction 222 and Packing Instruction 975 are applicable to UN Nos. 3538 and 3548, respectively, when articles identified as forbidden under normal circumstances through Table 3-1 are permitted on both passenger and cargo aircraft under certain circumstances in accordance with Special Provisions A224 for UN 3538 and Special Provision A225 for UN 3548. They may also be transported under an approval in accordance with Special Provision A2 in accordance with Packing Instruction 221 for UN 3538 and Packing Instruction 973 for UN 3548.

The packing instructions and special provisions assigned to all the entries for dangerous goods contained in articles, along with the basic classification criteria for them, are shown in Appendix A to this working paper.

Although all dangerous goods that are integrated into a machine or device that are necessary for its operation and cannot be removed for transport must be notified on the dangerous goods transport document (shipper's declaration) with reference to Part 5;4.1.5.1 c), the machine or device should be packaged in accordance with one and only one packing instruction that aligns with the requirements associated with the predominant hazard of the dangerous goods.

3. MULTIPLE APPROVAL/EXEMPTION PROVISIONS

3.1 Entries assigned to UN numbers 3537 through 3548 may be subject to more than one approval or exemption provision, i.e. Special Provision A2 to transport articles permitted on cargo aircraft

through an approval granted by the States of Origin and the Operator, Special Provision A88 to transport articles containing pre-production prototype or low production run sodium ion or lithium cells or batteries through an approval granted by the States of Origin and the Operator, and Special Provision A333, where the articles can only be transported under an exemption. It is suggested that all should be grouped into a single approval or exemption.

3.2 In also suggested that Part 2;0.6.2, which states that "the requirements of Special Provision A88 apply" and Part 2;0.6.5 which states that "if dangerous goods classified as Class 9 are contained within the article, all other dangerous goods present in the article must be considered to present a higher hazard" are contradictory.

4. **ACTION BY THE DGP**

4.1 The DGP is invited to:

- a) agree to one of the two options proposed in Appendix A to address challenges with determining which packing instruction applies to articles assigned to UN numbers 3537 through 3548;
- b) consider whether approvals and exemptions related to entries assigned to UN numbers 3537 through 3548 should be grouped into a single approval or exemption; and
- c) consider whether the provisions in Parts 2;0.6.2 and 2;0.6.5 are contradictory, as highlighted in paragraph 3.2 of this working paper.

APPENDIX A

PROPOSED AMENDMENT TO THE TECHNICAL INSTRUCTIONS

OPTION	1: Amend 2;0.6.2
	Part 2
	CLASSIFICATION OF DANGEROUS GOODS
	INTRODUCTORY CHAPTER
	6. CLASSIFICATION OF ARTICLES AS ARTICLES CONTAINING DANGEROUS GOODS N.O.S.
be of a type articles cont cells or batte A88 apply.	ch articles may in addition contain cells or batteries. Lithium cells and batteries that are integral to the article must proven to meet the testing requirements of the UN Manual of Tests and Criteria, Part III, subsection 38.3. For aining pre-production prototype lithium cells or batteries transported for testing, or for articles containing lithium eries manufactured in production runs of not more than 100 cells or batteries, the requirements of Special Provision rrespective of Packing Instruction 910, the appropriate packing instruction assigned to the article in Table S-3-1 ement must be given priority.
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OPTION	2: Amend Special Provision A88
	Part 3
	DANGEROUS GOODS LIST, SPECIAL PROVISIONS AND LIMITED AND EXCEPTED QUANTITIES
•••	Chapter 3
	SPECIAL PROVISIONS
•••	Table 3-2. Special provisions
•••	
tra cel ha tra Op	e-production prototypes of lithium cells or batteries, or sodium ion cells or batteries, when these prototypes are nsported for testing or low production runs (that is, annual production runs consisting of not more than 100 lithium lls or batteries, or sodium ion cells or batteries) of lithium cells or batteries, or sodium ion cells or batteries that we not been tested to the requirements in Part III, subsection 38.3 of the UN Manual of Tests and Criteria may be nsported aboard cargo aircraft if approved by the appropriate authority of the State of Origin and the State of the perator and the requirements in Packing Instruction 910 of the Supplement of the applicable packing instruction are met. The following packing instructions apply:
<u>-</u> _	Packing Instruction 910 of the Supplement for UN 3090, UN 3091, UN 3480, UN 3481, UN 3551 and UN 3552;
<u>=</u>	and Packing instructions assigned to the entries in the Table S-3-1 of the Supplement for UN 3537 to UN 3548.
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APPENDIX B

DANGEROUS GOODS CONTAINED IN ARTICLES/APPARATUS/MACHINERY

		Special	Table 3-1		Table S-3-1	1	
UN No.	Name	provisions (those higher than A299 are contained in the Supplement only)	Criteria	Passenger and cargo aircraft	Cargo aircraft only	Passenger and cargo aircraft	Cargo aircraft only
3363	Dangerous goods in apparatus or Dangerous goods in articles or Dangerous goods in machinery	A48 A107 A332	Must meet the provisions of Packing Instruction 962 (maximum 0.5 L/1 kg/0.5 for gas (Division 2.2 only) Through A107, can exceed these limits if permitted in limited quantities, within limits established by UN Model Regulations, through an approval of the States of Origin and Operator	See 962	See 962	See 962	See 962

		Special		Table 3-1		Table S-3-1	
UN No.	Name	provisions (those higher than A299 are contained in the Supplement only)	Criteria	Passenger and cargo aircraft	Cargo aircraft only	Passenger and cargo aircraft	Cargo aircraft only
3537	Articles containing flammable gas, n.o.s.*	A2 A88	In accordance with 2;0.6.1 to 2;0.6.6 May contain lithium batteries meeting UN 38.3 testing. Exception from UN 38.3 testing for preproduction prototypes or production runs 100 or less cells or	Forbidden	Forbidden	Forbidden	221, 910 221 under A2 approval 910 under A88 approval
3538	Articles containing non-flammable, non toxic gas, n.o.s.*	A2 A88 A225 A333 A335	batteries if in accordance with A88 May contain lithium cells or batteries complying with Section II of Packing Instruction 967 or 970	Forbidden except through application of A225 packed in accordance with Packing Instruction 222	Forbidden except through application of A225 packed in accordance with Packing Instruction 222	Forbidden except through application of A225 packed in accordance with Packing Instruction 222	221, 222, 910: 221 underA2 approval 222 through application of A225 (no approval needed) 910 under A88 approval In some cases approval not permitted, only exemption (A333)
3539	Articles containing toxic gas, n.o.s.*	A333		Forbidden	Forbidden	Forbidden	Forbidden

	Special			Table 3-1		Table S-3-1	
UN No.	Name	provisions (those higher than A299 are contained in the Supplement only)	Criteria	Passenger and cargo aircraft	Cargo aircraft only	Passenger and cargo aircraft	Cargo aircraft only
3540	Articles containing flammable liquid, n.o.s.*	A2 A88 A333		Forbidden	Forbidden	Forbidden	378, 910 378 under A2 approval 910 under A88 approval In some cases approval not permitted, only exemption (A333)
3541	Articles containing flammable solid, n.o.s.*	A2 A88 A333		Forbidden	Forbidden	Forbidden	400, 910 400 under A2 approval 910 under A88 approval In some cases approval not permitted, only exemption (A333)
3542	Articles containing a substance liable to spontaneous combustion, n.o.s.*	A333		Forbidden	Forbidden	Forbidden	Can only be transported under an exemption (A333)
3543	Articles containing a substance which emits flammable gas in contact with water, n.o.s.*	A333		Forbidden	Forbidden	Forbidden	Can only be transported under an exemption (A333)
3544	Articles containing oxidizing substance, n.o.s.*	A333		Forbidden	Forbidden	Forbidden	Can only be transported under an exemption (A333)
3545	Articles containing organic peroxide, n.o.s.*	A333		Forbidden	Forbidden	Forbidden	Can only be transported under an exemption (A333)

		Special	1	Table 3-1		Table S-3-1	
UN No.	Name	provisions (those higher than A299 are contained in the Supplement only)	Criteria	Passenger and cargo aircraft	Cargo aircraft only	Passenger and cargo aircraft	Cargo aircraft only
3546	Articles containing toxic substance, n.o.s.*	A2 A88		Forbidden	Forbidden	Forbidden	600, 910 600 under A2 approval 910 under A88 approval
3547	Articles containing corrosive substance, n.o.s.*	A2 A88		Forbidden	Forbidden	Forbidden	877, 910 877 under A2 approval 910 under A88 approval
3548	Articles containing miscellaneous dangerous goods, n.o.s.*	A2 A88 A224	May contain lithium cells or batteries complying with Section II of Packing Instruction 967 or 970	Forbidden except through application of A224 packed in accordance with Packing Instruction 975	Forbidden except through application of A224 packed in accordance with Packing Instruction 975	Forbidden except through application of A224 packed in accordance with Packing Instruction 975	973, 910, 975 973 under A2 approval 910 underA88 approval 975 through application of A224 (no approval needed)