DGP/24-WP/58 6/9/13

منظمة الطيران المدني الدولي



ورقة عمل

فريق خبراء البضائع الخطرة

مونتريال، ۲۰۱۳/۱۰/۲۸ إلى ۲۰۱۳/۱۱/۸

البند رقم ٢ من جدول الأعمال: إعداد توصيات بإجراء تعديلات على التعليمات الفنية للنقل الآمن للبضائع الخطرة بطريق الجو (الوثيقة (Doc 9284)) لإدراجها في طبعة ٢٠١٥ - ٢٠١٦

نقل الأجهزة الإلكترونية العاملة المسموح بنقلها ومنع إطلاق إنذارات صوتيه أو ضوئية نتيجة لأسباب غير متصلة بسلامة الطيران

(مقدمة من ك. جو)

الملخص

نتضمن ورقة العمل هذه اقتراحا بشرط جديد يضمن ألا يصدر عن الأجهزة الإلكترونية العاملة المسموح بنقلها انذارات صوتية او ضوئية أثناء النقل نتيجة لأسباب غير متصلة بسلامة الطيران.

الاجراء المطلوب من الفريق : يرجى من الفريق الموافقة على تعديل تعليمات التغليف (Packing Instructions 970 and 967)، لفرض قيود إضافية على نقل الأجهزة الإلكترونية العاملة المسموح بنقلها وفقا لتعليمات التغليف هذه، حسبما هو مبين في Appendix A من ورقة العمل هذه.

1. **INTRODUCTION**

1.1 Although under most circumstances, relevant battery-driven equipment must be transported in a non-operational state, some equipment which does not generate heat or interfere with navigation instruments are still allowed to be transported in an activated state in accordance with Packing Instructions 967 and 970. Many avionics send out buzzing alarms when their electricity is too low or errors occur when reading data. In the event of buzzing alarms from cargo during transport, corresponding emergency procedures will be triggered, giving rise to excessive emergency response on the part of on-site operating units.

1.2 As the example in Appendix B illustrates, in the event that alarms coming from cargo occur not in the storage stage, but during airborne transport or when waiting to be stored on a ramp, the consequence of its emergency response could be more complicated.

1.3 Barring any alarm caused by inappropriate operations during transport, alarms caused by such cargo may be attributable to the following reasons:

- a) the equipment contains activated batteries;
- b) the equipment is susceptible of sending out alarms under circumstances such as low battery or reading errors.

As reason a) is permissible under current rules, it is imperative to restrict reason b).

1.4 The example in Appendix B is an infrequent occurrence. Despite this, the amount of cargo that contains such instruments and equipment in an operational state such as thermometrographs, direction recording equipment and position recording equipment has been increasing in recent years. Therefore, the panel is invited to consider a new requirement ensuring that avionics allowed to be transported when active do not send out sound or light alarms as a result of non-aviation safety reasons.

APPENDIX A

PROPOSED AMENDMENT TO PART 4 OF THE TECHNICAL INSTRUCTIONS

Part 4

PACKING INSTRUCTIONS

Chapter 11

CLASS 9 — MISCELLANEOUS DANGEROUS GOODS

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	Packing Instruction 967			
	Passenger and cargo aircraft for UN 3481 (contained in equipment) only			
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II.	SECTION II			
	aco pao	th the exception of Part 1;2.3 (Transport of dangerous goods by post), 7;4.4 (Reporting of dangerous goods cidents and incidents), 8;1.1 (Dangerous goods carried by passengers or crew) and paragraph 2 of this cking instruction, lithium ion cells and batteries contained in equipment offered for transport are not subject to be additional requirements of these Instructions if they meet the requirements of this section.		
	Litł	nium ion cells and batteries may be offered for transport if they meet all of the following:		
	1)	for lithium ion cells, the Watt-hour rating (see the Glossary of Terms in Attachment 2) is not more than 20 Wh:		
	2)	 for lithium ion batteries, the Watt-hour rating is not more than 100 Wh; the Watt-hour rating must be marked on the outside of the battery case except for those batteries manufactured before 1 January 2009; 		
	3)	each cell or battery is of the type proven to meet the requirements of each test in the UN Manual of Tests and Criteria, Part III, subsection 38.3;		
		Note 1.— Batteries are subject to these tests irrespective of whether the cells of which they are composed have been so tested.		
		Note 2.— Batteries and cells manufactured before 1 January 2014 conforming to a design type tested according to the requirements of the fifth revised edition of the UN Manual of Tests and Criteria, Part III, subsection 38.3 may continue to be transported.		
	4)	cells and batteries must be manufactured under a quality management programme as described in 2;9.3.1 e).		
•••	cap the dev	vices such as radio frequency identification (RFID) tags, watches and temperature loggers, which are not bable of generating a dangerous evolution of heat, may be transported when intentionally active. When active, use devices must meet defined standards for electromagnetic radiation to ensure that the operation of the vice does not interfere with aircraft systems, and must ensure that such devises will not send out sound or at alarms during transport due to non-safety reasons (such as low electricity, reading errors, etc.).		

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Packing Instruction 970			
	Passenger and cargo aircraft for UN 3091 (contained in equipment) only		
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aco pao	th the exception of Part 1;2.3 (Transport of dangerous goods by post), 7;4.4 (Reporting of dangerous goods cidents and incidents), 8;1.1 (Dangerous goods carried by passengers or crew) and paragraph 2 of this cking instruction, lithium metal cells and batteries contained in equipment offered for transport are not subject other additional requirements of these Instructions if they meet the requirements of this section.		
Liti	hium metal cells and batteries may be offered for transport if they meet all of the following:		
1) 2) 3)	for a lithium metal cell, the lithium content is not more than 1 g; for a lithium metal or lithium alloy battery, the aggregate lithium content is not more than 2 g. each cell or battery is of the type proven to meet the requirements of each test in the UN <i>Manual of Tests</i> <i>and Criteria</i> , Part III, subsection 38.3;		
	Note 1.— Batteries are subject to these tests irrespective of whether the cells of which they are composed have been so tested.		
	Note 2.— Batteries and cells manufactured before 1 January 2014 conforming to a design type tested according to the requirements of the fifth revised edition of the UN Manual of Tests and Criteria, Part III, subsection 38.3 may continue to be transported.		
4)	cells and batteries must be manufactured under a quality management programme as described in 2;9.3.1 e).		
f gen	is such as radio frequency identification (RFID) tags, watches and temperature loggers, which are not capable erating a dangerous evolution of heat, may be transported when intentionally active. When active, these s must meet defined standards for electromagnetic radiation to ensure that the operation of the device does		

of generating a dangerous evolution of heat, may be transported when intentionally active. When active, these devices must meet defined standards for electromagnetic radiation to ensure that the operation of the device does not interfere with aircraft systems, and must ensure that such devises will not send out sound or light alarms during transport due to non-safety reasons (such as low electricity, reading errors, etc.).

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DGP/24-WP/58 Appendix B

APPENDIX B

In September 2012, one inbound cargo which had been sitting in a storing area at Pudong Airport for four days suddenly sent out too-tooing noises in a regular pattern on the fifth day. The Airport immediately started the appropriate emergence activation procedure, and segregated the cargo from its location with an explosion-proof drum to ensure safety.

The owner of the cargo confirmed, when contacted for the incident, that the cargo in question comprised equipment which contained a lithium battery, the too-tooing noises should have come from that equipment, and that the equipment was in a normal state of circumstances and contained no explosive therein.

Disposal Photo:



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