



**WORKING PAPER**

**DANGEROUS GOODS PANEL (DGP)  
MEETING OF THE WORKING GROUP OF THE WHOLE**

**Auckland, New Zealand, 4 to 8 May 2009**

**Agenda Item 2: Development of recommendations for amendments to the *Technical Instructions for the Safe Transport of Dangerous Goods by Air* (Doc 9284) for incorporation in the 2011/2012 Edition**

**2.8: Part 8 — Provisions Concerning Passengers and Crew**

**CASH BOXES INCORPORATING DANGEROUS GOODS**

(Presented by D. Raadgers)

**SUMMARY**

This paper proposes an amendment to Part 8 of the *Technical Instructions for the Safe Transport of Dangerous Goods by Air* (Doc 9284) in order to make provisions to allow the carriage of certain security type equipment incorporating dangerous goods as checked baggage and the addition of a new special provision to allow this type of equipment to be carried as cargo.

Action by the DGP-WG is in paragraph 2.

**1. INTRODUCTION**

1.1 In DGP-WG/08-WP/35, the total prohibition on security-type equipment, such as cash boxes, containing dangerous goods was raised. It was explained that an increasing number of criminal attacks had occurred at airports and it was believed if the prohibition could be modified to allow certain cash boxes, the number of criminal attacks would decrease. It was noted that previously, cash boxes utilized a pyrotechnic charge and/or a lithium battery to render the cash worthless (e.g. by contamination with ink). However, most new generation cash boxes did not contain pyrotechnic devices, rather they relied on small cylinders of gas with some also containing a lithium battery or only contained a small amount of pyrotechnic material that may be excluded from Class 1 by the national appropriate national authority in compliance with Part 2;1.5.2.1. During the discussion of WP/35 at the DGP-WG/08 meeting a number of members suggested that if the component dangerous goods were shown to be exempted from the Technical Instructions, they would be open to consider a proposal clarifying the prohibition referred only to those cash boxes whose components were fully regulated. It was noted that there should be no inadvertent operation outside of the box and that clear criteria would need to be developed.

1.2 Investigation revealed that these types of security equipment, often called cash boxes, may be carried accompanied by a security guard and would then be offered as checked baggage or may be shipped as cargo.

1.3 Further investigation revealed that indeed most new generation cash boxes are using the devices as stated; i.e. small gas cylinders with some containing a lithium battery. Others may contain small pyrotechnic components, but are indeed open to be excluded from Class 1 by the national appropriate national authority in compliance with Part 2;1.5.2.1.

1.4 Given the above mentioned information, there is enough justification to consider amendments to the regulations as indicated by the outcome of the discussions on DGP-WG/08-WP/35.

## 2. ACTION BY THE DGP-WG

2.1 The DGP-WG is invited to:

a) amend Part 8 of the Technical Instructions as follows:

### 1.1 DANGEROUS GOODS CARRIED BY PASSENGERS OR CREW

...

1.1.1 Except as otherwise provided in 1.1.2, dangerous goods, including excepted packages of radioactive material, must not be carried by passengers or crew members, either as or in carry-on baggage or checked baggage or on their person. Unless exempted as indicated in 1.1.2 v) below. Security type equipment such as attaché cases, cash boxes, cash bags, etc., incorporating dangerous goods, for example lithium batteries or pyrotechnic material, are totally forbidden; see entry in Table 3-1. Personal medical oxygen devices that utilize liquid oxygen are prohibited either as or in carry-on baggage or checked baggage or on the person.

...

1.1.2 Notwithstanding any additional restrictions which may be implemented by States in the interests of aviation security, except for the incident reporting provisions of 7;4.4, the provisions of these Instructions do not apply to the following when carried by passengers or crew members or in baggage that has been separated from its owner during transit (e.g. lost baggage or improperly routed baggage):

...

#### Security-type equipment

v) With the approval of the operator(s), security type equipment such as attaché cases, cash boxes, cash bags, etc., incorporating dangerous goods as part of this equipment, for example lithium batteries or pyrotechnic material, may be carried as checked baggage only, if the equipment complies with the following:

- 1) the equipment must be equipped with an effective means of preventing accidental activation;
- 2) if the equipment contains an explosive substance, pyrotechnic substance or an explosive article of Class 1, this article or substance must be excluded from Class 1 by the national appropriate national authority in compliance with 2;1.5.2.1;
- 3) if the equipment contains lithium batteries, these batteries must be of a lithium-ion or lithium-ion polymer type, with the following restrictions:
  - a) for lithium ion cells, the Watt-hour rating (see Attachment 2) is not more than 20 Wh;
  - b) for lithium ion batteries, the Watt-hour rating is not more than 100 Wh;
  - c) 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, section 38.3;

4) if the equipment contains gases to expell dye or ink, only gas cartridges and receptacles, small, containing gas with a capacity not exceeding 50 ml, containing no constituents subject to these Instructions other than a Division 2.2 gas, are allowed.

b) amend Table 3-1 of the Technical Instructions as follows:

Name 1	UN No. 2	Class or division 3	Subsidiary risk 4	Labels 5	State variations 6	Special provisions 7	UN packing group 8	Excepted quantity 9	Passenger aircraft		Cargo aircraft	
									Packing instruction 10	Max. net quantity per package 11	Packing instruction 12	Max. net quantity per package 13
Security type equipment such as attaché cases incorporating cash boxes, cash bags, dangerous goods, for example lithium batteries or pyrotechnic material	FORBIDDEN					<u>AXXX</u> <u>AYYY</u>						

c) Add a new special provision AXXX to Part 3, Chapter 3 as follows:

AXX

Security type equipment such as attaché cases, cash boxes, cash bags, etc. incorporating dangerous goods, for example lithium batteries, gas cartridges and/or pyrotechnic material, may be carried as cargo if this equipment complies with the following:

- a) the equipment must be equipped with an effective means of preventing accidental activation;
- b) if the equipment contains an explosive substance, pyrotechnic substance or an explosive article of Class 1, this article or substance must be excluded from Class 1 by the national appropriate national authority in compliance with 2;1.5.2.1;
- c) if the equipment contains lithium batteries, these batteries must be of a lithium-ion or lithium-ion polymer type, with the following restrictions:
  - 1) for lithium ion cells, the Watt-hour rating (see Attachment 2) is not more than 20 Wh;
  - 2) for lithium ion batteries, the Watt-hour rating is not more than 100 Wh;
  - 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, section 38.3;
- d) If the equipment contains gases to expel dye or ink, only gas cartridges and receptacles, small, containing gas with a capacity not exceeding 50 mL, containing no constituents subject to these Instructions other than a Division 2.2 gas, are allowed. The release of gas must not cause extreme annoyance or discomfort to crew members so as to prevent the correct performance of assigned duties.

The words "not restricted" and the special provision number AXXX must be provided on the air waybill when an air waybill is issued.

- d) add a new special provision AYYY to Part 3, Chapter 3 as follows:

AXX

With the approval of the operator, security type equipment such as attaché cases, cash boxes, cash bags, etc., incorporating dangerous goods, for example lithium batteries, gas cartridges and/or pyrotechnic material, may be carried as checked baggage if this equipment complies with the 8.1.1.2 v).

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