



**WORKING PAPER**

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

**Montréal, 15 to 19 April 2013**

- 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 2015-2016 Edition**  
**2.8 : Part 8 — Provisions Concerning Passengers and Crew**

**SELF-INFLATING SAFETY DEVICES**

(Presented by D. Brennan)

**SUMMARY**

This working paper proposes a review and revision of the different provisions for self-inflating safety devices in passenger baggage to consolidate these into a single more generic entry.

Action by the DGP-WG is in paragraph 2.

**1. INTRODUCTION**

1.1 Part 8;1.1.1 currently includes provisions allowing passengers, or crew, to carry as part of their baggage an avalanche rescue backpack containing a gas cartridge containing a Division 2.2 gas, and which may also contain a small explosive charge, and/or a life jacket with up to two small gas cartridges containing a Division 2.2 gas plus two spare cartridges.

1.2 At DGP/22 a paper was presented, DGP/22-WP/61 that sought the opinion of the Panel regarding a new type of self-inflating vest for use by motor bike and horse riders that these types of vest could be considered analogous to self-inflating life jackets. The Panel did not voice any objection to this comparison.

1.3 There are now further developments in the field of self-inflating safety devices with a new type of self-inflating bicycle helmet. In addition there are requests from passengers to be able to carry more than one self-inflating life jacket on the basis that each life-jacket is fitted with just a single gas cartridge and therefore there should be no difference in permitting a single life jacket fitted with two gas cartridges or two life jackets each fitted with a single cartridge.

1.4 In looking at these emerging issues it is proposed to merge the provisions for avalanche rescue backpacks and life jackets in paragraphs 17 and 18 of Table 8-1 to have a single paragraph that allows for the carriage in passenger or crew baggage for one self-inflating safety device per person that may be fitted with no more than two gas cartridges plus no more than two spare cartridges. The allowance for a device to contain a small explosive charge is preserved.

**2. ACTION BY THE DGP-WG**

2.1 The DGP-WG is invited to revise Table 8-1 as shown in the appendix of this working paper.

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APPENDIX

PROPOSED AMENDMENT TO PART 8 OF THE TECHNICAL INSTRUCTIONS

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Part 8

PROVISIONS CONCERNING  
PASSENGERS AND CREW

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Table 8-1. Provisions for dangerous goods carried by passengers or crew

Items or articles	Location			Approval of the operator(s) is required	The pilot-in-command must be informed	Restrictions
	Checked baggage	Carry-on baggage	On the person			
... Consumer articles						
17) <del>Avalanche rescue backpack containing a cylinder of compressed gas of Division 2.2</del> <u>Small gas cartridges of carbon dioxide or other suitable gas in Division 2.2 fitted into a self-inflating personal safety devices such as life-jackets and avalanche rescue backpacks;</u>	Yes	Yes	<del>No</del> <u>Yes</u>	Yes	No	<ul style="list-style-type: none"> <li>a) no more than one <u>personal safety device</u> per person;</li> <li>b) <u>devices</u> may contain a pyrotechnic trigger mechanism which must not contain more than 200 mg net of Division 1.4S;</li> <li>c) the <del>backpack</del> <u>personal safety device</u> must be packed in such a manner that it cannot be accidentally activated; <del>and</del></li> <li>d) <del>the</del> <u>airbags within the avalanche rescue backpacks</u> must be fitted with pressure relief valves; <del>;</del></li> <li>e) <u>each device must be fitted with no more than two small cylinders; and</u></li> <li>f) <u>no more than two spare cartridges may be carried.</u></li> </ul>
18) <del>Small cartridges fitted into a self-inflating life jacket</del>	Yes	Yes	Yes	Yes	No	<ul style="list-style-type: none"> <li>a) <del>limited to carbon dioxide or another suitable gas in Division 2.2;</del></li> <li>b) <del>must be for inflation purposes;</del></li> <li>c) <del>no more than two small cylinders of carbon dioxide or another suitable gas in Division 2.2 fitted in the life jacket, per person; and</del></li> <li>d) <del>no more than two spare cartridges.</del></li> </ul>

<i>Items or articles</i>	<i>Location</i>			<i>Approval of the operator(s) is required</i>	<i>The pilot-in-command must be informed</i>	<i>Restrictions</i>
	<i>Checked baggage</i>	<i>Carry-on baggage</i>	<i>On the person</i>			
Small cartridges for other devices	Yes	Yes	Yes	Yes	No	a) no more than four small cylinders of carbon dioxide or other suitable gas in Division 2.2, per person; and b) the water capacity of each cylinder must not exceed 50 mL.  <i>Note.— For carbon dioxide, a gas cylinder with a water capacity of 50 mL is equivalent to a 28 g cartridge.</i>

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*Renumber subsequent paragraphs.*

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