



WORKING PAPER

**DANGEROUS GOODS PANEL (DGP)
WORKING GROUP OF THE WHOLE ON LITHIUM BATTERIES**

FIRST MEETING

Montréal, 6 to 10 February 2012

Agenda Item 6: Other business

**PROPOSED AMENDMENT TO THE PASSENGER PROVISIONS FOR SMALL CARTRIDGES
FITTED INTO OTHER DEVICES TO ADDRESS AN OVERSIGHT IN THE DGP/23 REPORT**

(Presented by Adrian Tušek, Australia)

SUMMARY

This paper presents a proposed amendment to the DGP/23 Report to correct the intent of an amendment to the passenger provisions for small cartridges fitted into other devices agreed at DGP/23.

Action by the DGP-WG/LB is in paragraph 2.

1. INTRODUCTION

1.1 At DGP/23 the panel agreed changes to the Provisions for Dangerous Goods Carried by Passengers and Crew. One of the changes relates ‘Small cartridges fitted into other devices’ which is found at paragraph 3.2.48 of DGP/23 – WP/3 and reflected in the Appendix to the Report on Agenda Item 2 at page 2A-143 of the report. See Appendix A.

1.2 The following is extracted from DGP/23-WP/3.

**3.2.48 Small Cylinders Containing a Division 2.2 Gas
(DGP-WG/11-WP/14)**

3.2.48.1 A proposal to expand the current provision for self-inflating life jackets containing carbon dioxide or another Division 2.2 gas to include other applications such as motorcycle and equestrian safety vests and inflation kits for bicycle tyres was discussed. Based on the type and size of gas cylinders used for these applications, it was suggested that other devices containing no more than four small cylinders be permitted. Two alternatives were provided in the proposal. The first expanded on the existing provision by adding an additional provision for four small cylinders. It also included a water capacity limit. The second removed the specific reference to self-inflating life jackets and increased the number of small cylinders permitted from two to four. There

was some support for the second option, but many had difficulty with the lack of a specific size limit. The first alternative was agreed.

1.3 The wording of the first alternative from DGP/WG/11-WP:

r) with the approval of the operator(s), no more than two small cylinders of carbon dioxide or another suitable gas in Division 2.2, per person, fitted into a self-inflating life-jacket for inflation purposes, plus no more than two spare cartridges. Other devices containing no more than four small cylinders of carbon dioxide or other suitable gas in division 2.2, per person may be carried with the approval of the operator; provided that each cylinder has a water capacity of no more than 50 ml; Note.— For carbon dioxide a gas cylinder with a water capacity of 50 mL is equivalent to a 28 g cartridge.

1.4 The notes I have on the discussion at the time is that the intent was that a person could carry no more than 4 small cylinders and this was limit was decided taking into the existing provision for the carriage of life jackets and the restrictions on the size of small cartridges contained in Special Provision A98.

1.5 However, it was certainly mentioned that four small cylinders was the number that could be carried but it did not require that all four were required to be fitted into the device being carried.

1.6 A new format for the layout and presentation of the provisions for dangerous goods carried by passengers and crew was also agreed at the working group and the new format incorporating changes was presented at DGP/23.

1.7 The title given to these items is currently shown as “Small cartridges fitted into other devices” which implies that all small cartridges must be fitted to the device whereas the intention was that a person could carry the cartridges for the device. It also clarified that a passenger could not use Special Provision A98 to carry any number of small gas cartridges as they wanted to put into checked baggage.

2. ACTION BY THE DGP-WG/LB

2.1 The DGP-WG/LB is invited to consider the proposed addendum presented in Appendix B to this working paper.

APPENDIX A

EXTRACT FROM REPORT OF DGP/23

DGP/23-WP/102

Appendix to the Report on Agenda Item 2

2A-143

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			

See paragraph 2.9.5 of this report:

<p>17) Avalanche rescue backpack <u>containing a cylinder of compressed gas of Division 2.2</u></p>	Yes	Yes	No	Yes	No	<p>4a) no more than one per person;</p> <p>2b) <u>may contain a</u> pyrotechnic trigger mechanism <u>which</u> must not contain more than 200 mg net of Division 1.4S;</p> <p>3) <u>the cylinder of compressed gas of Division 2.2 must not exceed 250 mL;</u></p> <p>4c) the backpack must be packed in such a manner that it cannot be accidentally activated; and</p> <p>5d) the airbags within the backpack must be fitted with pressure relief valves.</p>
<p>18) Small cartridges fitted into a self-inflating life-jacket</p>	Yes	Yes	Yes	Yes	No	<p>4a) limited to carbon dioxide or another suitable gas in Division 2.2;</p> <p>2b) must be for inflation purposes;</p> <p>3c) 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</p> <p>4d) no more than two spare cartridges.</p>

See paragraph 3.2.48 of DGP/23-WP/3:

<p><u>Small cartridges fitted into other devices</u></p>	<u>Yes</u>	<u>Yes</u>	<u>Yes</u>	<u>Yes</u>	<u>No</u>	<p>a) <u>no more than four small cylinders of carbon dioxide or other suitable gas in Division 2.2, per person; and</u></p> <p>b) <u>the water capacity of each cylinder must not exceed 50 mL.</u></p> <p><i>Note.— For carbon dioxide, a gas cylinder with a water capacity of 50 mL is equivalent to a 28 g cartridge.</i></p>
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APPENDIX B

PROPOSED REVISION TO AMENDMENT AGREED AT DGP/23

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			
18) Small cartridges fitted into a self-inflating life-jacket	Yes	Yes	Yes	Yes	No	<ul style="list-style-type: none"> a) limited to carbon dioxide or another suitable gas in Division 2.2; b) must be for inflation purposes; c) 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 d) no more than two spare cartridges.

See paragraph 3.2.48 of DGP/23-WP/3:

Small cartridges into for fitted other devices	Yes	Yes	Yes	Yes	No	<ul style="list-style-type: none"> 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. <p><i>Note.— For carbon dioxide, a gas cylinder with a water capacity of 50 mL is equivalent to a 28 g cartridge.</i></p>
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