



WORKING PAPER

**DANGEROUS GOODS PANEL (DGP)
WORKING GROUP MEETING (DGP-WG/18)**

Montréal, 1 to 5 October 2018

Agenda Item 2: Managing air-specific safety risks and identifying anomalies

2.2: Develop proposals, if necessary, for amendments to the *Technical Instructions for the Safe Transport of Dangerous Goods by Air (Doc 9284)* for incorporation in the 2021-2022 Edition

SELF-INFLATING PERSONAL SAFETY DEVICES CARRIED BY PASSENGERS OR CREW

(Presented by S. Bitossi)

SUMMARY

This working paper proposes an amendment to Table 8-1 of the Technical Instructions to increase the number of self-inflating personal safety devices permitted, allowing operators to approve for carriage by passengers or crew, up to four self-inflating personal safety devices (as a minimum).

Action by the DGP: The DGP-WG is invited to consider amending Table 8-1 of the Technical Instructions to remove the limitation of one personal safety device and/or consider raising the limitation to at least a minimum of four personal safety devices, as outlined in appendix to this working paper.

1. INTRODUCTION

1.1 This working paper proposes to amend Table 8-1 to allow passengers or crew to increase the number of self-inflating personal safety devices granted by operator approval from the current allowance of one personal safety device per person (with no more than two cartridges fitted into the device, plus two spare cartridges).

1.2 It is common within Australia for passengers to request the carriage of more than one self-inflating personal safety device (e.g. a life-jacket). This is often associated with pilots travelling to ferry an aircraft overwater or with recreational/professional sailors flying to a location to crew a boat.

1.3 There has also been an increase in the number of uses for self-inflating personal safety devices such as motorcycle jackets and horse-riding vests leading to the requirement for passengers to seek approval to travel with multiple devices for their own requirements.

1.4 This paper has been discussed at the Australian Dangerous Goods Air Transport Council (ADGATC), with industry expressing a preference towards removing the limit, to allow for the operator to limit the number of devices through the operator approval process.

1.5 However, if the panel decides to set an upper limit of devices permitted, industry have agreed that a minimum of four devices would achieve most passenger requests.

1.6 As per example given in appendix, this working paper seeks to increase the number of devices permitted in restriction 12) a) of Table 8-1. The current restrictions in 12 b) and d) would have minor amendments to allow for plurals. The current restriction in 12 e) has its limit unchanged but clarifies that a total of two spare cartridges can be taken regardless of how many devices have been approved.

1.7 No additional safety risk is envisaged with the proposed increase, as currently an operator could provide approval for all passengers to have one self-inflating personal safety device per person; a situation which would never occur.

1.8 Granting permission for several passengers to have multiple devices is unlikely to result in the total number of devices on board an aircraft (at any one time) exceeding what could be permitted if every passenger were to exercise the current provisions.

1.9 Self-inflating personal safety devices travel under each seat of commercial passenger airline operations everyday with no known record of safety concerns.

1.10 The proposed changes will allow passengers to take more than one device within the provisions, reducing the likelihood of hiding extra devices in checked-in baggage.

1.11 The likelihood of one self-inflating personal safety device activating unintentionally is possible but would be rare, however if an activation did occur, the consequence would be insignificant, with any release of energy contained within a passenger's bag (on the person or in carry-on baggage) and would have minimal effect on the aircraft and its occupants.

1.12 The likelihood of all self-inflating personal safety devices activating at once is extremely rare.

1.13 The suggested amendment presented in the appendix has been drafted using the proposed new structure of Table 8-1 for incorporation into the 2019-2020 Edition of the Technical Instructions (as per the recommendations in section 2.8.2 of the report on DGP/26-WP/54). <https://www.icao.int/safety/DangerousGoods/Pages/DGP26Report.aspx>

2. ACTION BY THE DGP-WG

2.1 The DGP-WG is invited to consider whether a limit on the number of self-inflating personal safety devices should remain and whether the limit can be determined by the operator, by way of the operator approval process.

2.2 If DGP-WG decides a limit should remain, then the panel is invited to consider increasing the current limit of one self-inflating personal safety device to allow for a maximum of four self-inflating safety devices by amending Table 8-1 of the Technical Instructions as shown in appendix to this working paper.

2.3 If the amendment is agreed, the DGP-WG is invited to consider that it be incorporated into the 2021-2022 Edition of the Technical Instructions at the earliest opportunity or alternatively, incorporated by way of an addendum (if one is released) for the 2019-2020 Edition for operational reasons.

APPENDIX

PROPOSED AMENDMENT TO PART 8 OF THE TECHNICAL INSTRUCTIONS

Part 8

PROVISIONS CONCERNING
PASSENGERS AND CREW

Chapter 1

PROVISIONS FOR DANGEROUS GOODS
CARRIED BY PASSENGERS OR CREW

1.1 DANGEROUS GOODS CARRIED BY PASSENGERS OR CREW

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

<i>Dangerous Goods</i>	<i>Location</i>		<i>Approval of the operator(s) is required</i>	<i>Restrictions</i>
	<i>Checked baggage</i>	<i>Carry-on baggage</i>		
...				
Gases in cylinders and cartridges				
12) Cartridges of Division 2.2 with no subsidiary hazard fitted into a self-inflating personal safety device such as a life-jacket or vest	Yes	Yes	Yes	a) no more than one <u>four</u> personal safety device <u>devices</u> per person; b) the personal safety device(s) must be packed in such a manner that it cannot be accidentally activated; c) must be for inflation purposes; d) no more than two cartridges are fitted into the <u>each</u> device; and e) no more than two spare cartridges <u>in total</u> .
...				