



WORKING PAPER

DANGEROUS GOODS PANEL (DGP)

TWENTY-SECOND MEETING

Montréal, 5 to 16 October 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

SELF-INFLATING SAFETY VESTS

(Presented by D. Brennan)

SUMMARY

This working paper seeks an opinion from the DGP regarding certain types of self-inflating safety vests and their suitability according to Part 8.1.1.2 p).

Action by the DGP: The DGP is invited to confirm that the self-inflating safety vests as described meet the provisions of Part 8;1.1.2 p) and as such are suitable for carriage in passenger baggage with the approval of the operator as presented in the appendix. If the DGP supports the position that these vests are acceptable, the DGP is invited to indicate if the present wording of Part 8;1.1.2 p) is sufficient, or if there should be some modification of the wording to make it clear that such self-inflating safety vests are acceptable. Should some clarification in the wording be required, a proposal will be developed during DGP/22 for the panel's consideration.

1. INTRODUCTION

1.1 Recently a question was posed by a member airline regarding the suitability of carriage by passengers of self-inflating motorcycle safety vests that are equipped with small carbon dioxide gas cylinders.

1.2 The particular jackets, designed in Japan, apparently have been on sale for many years and also come in forms suitable for equestrian use. An extract showing the design and action of the safety vests from the manufacturer's website is attached in the appendix to this working paper.

1.3 While not a "self-inflating life-jacket" as described in Part 8;1.1.2 p) as used by sailors, the vest would appear to meet the same basic design and principle in that the vest is self-inflating, and is designed for life-saving purposes.

1.4 On that basis it would appear reasonable to allow for the carriage of these self-inflating safety vests in accordance with the provisions of Part 8;1.1.2 p).

APPENDIX

hit-air SHOCK BUFFERING SYSTEM

SHOCK BUFFERING SYSTEM

hit-air

SYSTEM LINE UP MANUAL DATA REPORT FAQ HOME

AIRBAG SYSTEM Shock Buffering Protection System

Inflates fully in 0.5 second.

activation distance

Key ball

As soon as a rider is thrown away from the motorcycle, the airbag will be activated.

Before After

Airbag structure CO₂ gas released from the gas cartridge inflates the urethane airbag instantly.

Key box holds a CO₂ gas cartridge.

Key ball to be pulled out to release the gas into the airbag instantly.

Coiled wire to be connected to a proper place of the motorcycle

One-touch release to connect/disconnect a coiled wire when getting on/off the motorcycle.

Neck airbag
A type:packed airbag.
B type:exposed airbag

Chest airbag

Sides and back airbag

Hip airbag
Hip airbag hangs down when inflating.

— END —