



WORKING PAPER

DANGEROUS GOODS PANEL (DGP)

TWENTY-FIRST MEETING

Montréal, 5 to 16 November 2007

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 2009-2010 Edition

SUBSTANCES ASSIGNED TO UN PACKING INSTRUCTION P099

(Presented by D. Brennan)

SUMMARY

This working paper proposes amendment to the packing instructions assigned to certain substances identified as requiring competent authority packaging approval in the UN Model Regulations.

Action by the DGP is in paragraph 2.

1. INTRODUCTION

1.1 During the reformatting of the packing instructions reference was made to the packing instructions assigned to substances in the UN Model Regulations to ensure, where applicable, that the packagings assigned in the Technical Instructions were consistent with those in the UN Model Regulations.

1.2 In conducting this verification it was identified that a number of substances assigned to “regular” packing instructions in the Technical Instructions were assigned to Packing Instruction P099 in the UN Modal Regulations. P099 in the 15th revised edition states that: “Only packagings which are approved by the competent authority for these goods may be used. A copy of the competent authority approval shall accompany each consignment or the transport document shall include an indication that the packaging was approved by the competent authority.”

1.3 While the UN Model Regulations have P099 assigned to these substances, a number of the substances are assigned to more general packing instructions in ADR. This issue was raised at the 31st meeting of the UN Subcommittee in July 2007 and there was agreement to amend the 16th revised edition of the Model Regulations to reflect either P001 or P002 for a number of substances.

1.4 Based on the UN Model Regulations restriction and bearing in mind that all substances must at least move by road prior to and following air transport it is believed that the substances identified should be restricted in line with the provisions of the UN Model Regulations.

1.5 As there is no equivalent to UN P099 in the Technical Instructions it is believed that the best approach is to apply the packaging approval requirements by way of a special provision. In reviewing the existing special provisions, it is believed that the assignment of SP A109 against the applicable substances would address the requirements to ensure that the competent authority approves packagings and that appropriate quantity limits are applied.

1.6 In addition, it was also identified that there is a single packing instruction, PI 435, that is similar to UN P099 and it is proposed that the entry in Table 3-1 for UN 3319 — Nitroglycerin mixture desensitized, solid, n.o.s.* be amended to delete reference to PI 435 and instead have A109 assigned to this substance.

2. ACTION BY THE DGP

2.1 The following substances are currently assigned to P099 in UN Model Regulations, but are assigned to a standard packing instruction in the European road regulations (ADR). The DGP is invited to *review* and *confirm* that the following substances should remain permitted for transport by air as presently indicated in Table 3-1:

| Name | UN No. | Class or division | Subsidiary risk | Labels | State variations | Special provisions | UN packing group | Passenger aircraft | | Cargo aircraft | |
|-------------------|--------|-------------------|-----------------|------------------|--|--------------------|------------------|---------------------|-------------------------------|---------------------|-------------------------------|
| | | | | | | | | Packing instruction | Max. net quantity per package | Packing instruction | Max. net quantity per package |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| Isopropyl nitrate | 1222 | 3 | | Liquid flammable | | | II | 305 Y305 | 5 L 1 L | 307 | 60 L |
| Nitromethane | 1261 | 3 | | Liquid flammable | AU 1 BE 3 CA 7 GB 3 IR 3 NL 1 US 3 | A1 A39 | II | FORBIDDEN | | 307 | 60 L |
| n-Propyl nitrate | 1865 | 3 | | Liquid flammable | | | II | 305 Y305 | 5 L 1 L | 307 | 60 L |

2.2 The DGP is invited to *amend* the entries in Table 3-1 for the applicable UN numbers as shown:

| Name | UN No. | Class or division | Subsidiary risk | Labels | State variations | Special provisions | UN packing group | Passenger aircraft | | Cargo aircraft | |
|---|--------|-------------------|-----------------|------------------------------------|--|--------------------|------------------|---------------------|-------------------------------|---------------------|-------------------------------|
| | | | | | | | | Packing instruction | Max. net quantity per package | Packing instruction | Max. net quantity per package |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| Corrosive liquid, self-heating, n.o.s.* | 3301 | 8 | 4.2 | Corrosive & Spontaneous combustion | | A109 | I | 807 | 0.5 L | 809 | 2.5 L |
| | | | | | | | II | 808 | 1 L | 812 | 30 L |
| Corrosive solid, self-heating, n.o.s.* | 3095 | 8 | 4.2 | Corrosive & Spontaneous combustion | | A109 | I | 810 | 1 kg | 811 | 25 kg |
| | | | | | | | II | 814 | 15 kg | 816 | 50 kg |
| Corrosive solid, water-reactive, n.o.s.* | 3096 | 8 | 4.3 | Corrosive & Danger if wet | | A109 | I | 810 | 1 kg | 811 | 25 kg |
| | | | | | | | II | 814 | 15 kg | 816 | 50 kg |
| Nitroglycerin mixture, desensitized, solid, n.o.s.* with more than 2% but not more than 10% nitroglycerin by mass | 3319 | 4.1 | | Solid flammable | AU 1 BE 3 CA 7 GB 3 IR 3 NL 1 US 3 | A4 A68 A109 | | Y814 | 5 kg | 435 | 0.5 kg |
| | | | | | | | | FORBI DDEN | | FORBI DDEN | |
| Toxic liquid, water-reactive, n.o.s.* | 3123 | 6.1 | 4.3 | Toxic & Danger if wet | | A4 A109 A137 | I | FORBI DDEN | | 604 | 4 L |
| | | | | | | | II | 609 | 1 L | 611 | 5 L |
| Toxic solid, self-heating, n.o.s.* | 3124 | 6.1 | 4.2 | Toxic & Spontaneous combustion | | A5 A109 | I | 606 | 5 kg | 607 | 15 kg |
| | | | | | | | II | 613 | 15 kg | 615 | 50 kg |
| Toxic solid, water-reactive, n.o.s.* | 3125 | 6.1 | 4.3 | Toxic & Danger if wet | | A5 A109 | I | 606 | 5 kg | 607 | 15 kg |
| | | | | | | | II | 613 | 15 kg | 615 | 50 kg |
| | | | | | | | | Y613 | 1 kg | | |

If adopted there would need to be consequential amendments to the Supplement to the Technical Instructions to add the above items into Table S-3-1 to reflect recommended packing instructions and per package quantity limits.