



WORKING PAPER

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

Atlantic City, United States, 4 to 8 April 2011

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 2013-2014 Edition

2.4: Part 4 — Packing Instructions

CARRIAGE OF OXYGEN WITH AQUATIC ANIMALS

(Presented by Adrian Tušek)

SUMMARY

This paper proposes amendment to Note 7 of the Introductory Notes to Part 4: Packing Instructions to permit the use of Air, compressed UN 1002 for the support of live aquatic animals during transport as an alternative to Oxygen, compressed UN 1072.

Action by the DGP-WG is in paragraph 2.

1. INTRODUCTION

1.1 In the *Technical Instructions for the Safe Transport of Dangerous Goods by Air (Doc 9284)*, Part 4: Packing Instructions, Introductory Notes contains Note 7: Carriage of oxygen with aquatic animals. The reader is referred to Table S-3-1 and Special Provision A202 located in the *Supplement to the Technical Instructions for the Safe Transport of Dangerous Goods by Air (Doc 9284SU)*

1.2 Special Provision A202 sets out the requirements to be met for the transport of live aquatic animals where life is supported by a supply of Oxygen, compressed UN 1072.

1.3 The experience gained in Australia relating to the transport of aquarium specimens is that the use of Oxygen, compressed UN 1072 can sometimes provide an excessive oxygenation of water.

1.4 It has been identified that Air, compressed UN1002 can be used instead of Oxygen, compressed, UN 1072 for some transport tasks. It was found that Oxygen, compressed UN 1072 could be

used prior to aircraft loading and then shut off. Air, compressed UN 1002 could then be used during air transport. After arrival, the oxygen levels in the water are checked and the air shut off. Oxygen is then used to increase the level in the water prior to road transport where again the oxygen is shut off and air, compressed is used.

1.5 This evaluation took place for the transport of sharks with the use of Air, compressed rather than Oxygen, compressed. Air, compressed provided adequate oxygenation of the water and was first tested for a number of days on the ground prior to the air transport to ensure the animals could be sustained.

1.6 Where it is possible to use Air, compressed UN 1002 during flight instead of Oxygen, compressed UN 1072, the option should be available as this presents a safer form of transport.

2. ACTION BY THE DGP-WG

2.1 The DGP-WG is invited to:

- a) Consider a minor amendment to Part 4; Packing Instructions — Introductory Notes — Note 7: Carriage of oxygen with aquatic animals, to permit the use of Air, compressed UN 1002 as an alternative to Oxygen, compressed UN1072 in order to provide an alternative and safer transport scenario.

Note 7.— Carriage of oxygen and air with aquatic animals

With the approval of the appropriate authority of the State of Origin, of Destination and of the Operator, for the purpose of providing life support to aquatic animals during transport,—a cylinders containing Oxygen compressed, UN 1072 or Air, compressed, UN 1002 may be carried to oxygenate the water in accordance with the provisions of Table S-3-1 and Special Provision A202 (which appear in the Supplement).

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