



**WORKING PAPER**

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

**Beijing, China, 25 October to 3 November 2006**

**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**

**2.7: Part 7 — Operator's Responsibilities**

**MAGNETIZED MATERIAL**

(Presented by G. Leach)

**SUMMARY**

This paper proposes amendments to Part 7, Chapter 2 to allow magnetized material in aircraft cabins occupied by passengers.

Action by the DGP-WG is in paragraph 2.

**1. INTRODUCTION**

1.1 Part 7;2.1.1 forbids the carriage of dangerous goods in an aircraft cabin occupied by passengers, other than those on board for retail sale or in passenger baggage. In the United Kingdom, this has caused problems particularly for the offshore oil industry in respect of magnetized material, when on occasions it has been physically impossible to load such items in the cargo compartment, resulting in it having to be stowed in the passenger cabin, thus requiring exemptions from the States concerned. It is suggested there is no reason why magnetized material should be subject to such restriction. Minor changes to Part 7;2 would assist industry.

**2. ACTION BY THE DGP-WG**

2.1 The DGP-WG is invited to:

a) *Amend* Part 7;2.1.1 as follows:

**2.1 LOADING RESTRICTIONS ON THE FLIGHT DECK AND  
FOR PASSENGER AIRCRAFT**

2.1.1 Dangerous goods must not be carried in an aircraft cabin occupied by passengers or on the flight deck of an aircraft, except as permitted by 1;2.2.1, [2.10.1](#) |

and 8;1 and for radioactive material, excepted packages under 2;7.9. Dangerous goods may be carried in a main deck cargo compartment of a passenger aircraft provided that compartment meets all the certification requirements for a Class B or a Class C aircraft cargo compartment. Dangerous goods bearing the “Cargo aircraft only” label must not be carried on a passenger aircraft.

b) *Amend* Part 7;2.10 as follows:

## **2.10 LOADING OF MAGNETIZED MATERIAL**

2.10.1 Magnetized material must not be loaded in such a position that it will have a significant effect on the direct-reading magnetic compasses or on the master compass detector units. The significant effect will be produced if the magnetic field strength of the magnetized materials reaches 0.418 A/m at the location of aircraft compasses or compass detector units. The minimum stowage distance of the magnetized material to the aircraft compasses or compass detector units will depend on the intensity of the magnetized material’s field strength and varies from 1.5 m for material which just meets the threshold level of the magnetized material definition in 2;9, to 4.6 m for materials which possesses the maximum field strength permitted by Packing Instruction 902 in 4;11. If the minimum stowage distance of a specific item, in its packed form, from the compass or detector units is not known and cannot be estimated, or if material which is to be transported affects the aircraft’s compasses, a special minimum stowage distance check must be made on the freight to be transported. Multiple packages may produce a cumulative effect. See Packing Instruction 902 for determination of shielding requirements.

2.10.2 The loading restrictions of 2.1.1 do not apply to magnetized material.

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