International Civil Aviation Organization
WORKING PAPER

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DANGEROUS GOODS PANEL (DGP)

MEETING OF THE WORKING GROUP OF THE WHOLE

Montreal, 18 to 22 April 2005

Agenda Item 2: Development of recommendations for amendments to the *Technical Instructions* for incorporation in the 2007/2008 edition
2.4: Part 4 — Packing Instructions

1.4 S ACTUATING DEVICES IN DANGEROUS GOODS IN APPARATUS

(Presented by J. Code)

1. INTRODUCTION

1.1 In January of this year the Canadian Civil Aviation Directorate received an inquiry from a company about the transport by air of sonar buoys containing .000035 kg of a 1.4S explosive actuating device (squib) and .195 kg nitrogen. Investigation into how this could be shipped by air was stalled when it became apparent the buoys were not eligible to use the proper shipping name 'Dangerous Goods in Apparatus', UN 3363. Although Packing Instruction 916 for that shipping name permits the presence of the nitrogen it does not permit the presence of a 1.4S explosive actuating device.

> 3;4.1.2 Only dangerous goods which are permitted on passenger aircraft and which meet the criteria of the following classes, divisions and packing groups (if appropriate) may be carried under these provisions for dangerous goods in limited quantities:
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> · Divisions 2.1 and 2.2 Aerosols and UN 2037 without subsidiary risk
> · Division 2.2 Gases without subsidiary risk but excluding refrigerated liquefied gases
> · Class 3 Packing Groups II and III
> · Division 4.1 Packing Groups II and III but excluding all self-reactive substances irrespective of packing group
> · Division 4.3 Packing Groups II and III, solids only
> · Division 5.1 Packing Groups II and III
> · Division 5.2 Only when contained in a chemical kit or a first-aid kit
> · Division 6.1 Packing Groups II and III
> · Class 8 Packing Groups II and III but excluding UN Nos. 2794, 2795, 2803, 2809 and 3028
> · Class 9 Only UN Nos. 1941, 1990, 2071, 3077, 3082 and 3316

Note.- Many articles or substances, including the following, are NOT permitted under these limited quantity provisions:

a) those permitted only on cargo aircraft;
b)those in Packing Group I;
c) those in Class 1 or 7 or Divisions 2.1 (other than aerosols), 2.3 or 6.2;
d) those in Division 4.2 or with a subsidiary risk 4.2.

2. PROPOSAL

2.1 Amend Packing Instruction 916 as follows:

The general packing requirements of Part 4, Chapter 1 must be met except that the requirements of 4; 1.1.2, 1.1.8, 1.1.10, 1.1.13 and 1.1.16 do not apply.

a) For other than fuel system components, machinery or apparatus may only contain:

i) dangerous goods permitted under 3;4.1.2; or
ii) dangerous goods permitted under 3;4.1.2 and magnetized material meeting the requirements of Packing Instruction 902.
iii) dangerous goods permitted under 3;4.1.2 and a pyrotechnic trigger mechanism containing not more than 200 mg net of Division

Note 1. - If machinery or apparatus contains only magnetized material meeting the requirements of Packing Instruction 902, it must be consigned as UN 2807.

Note 2. - If machinery or apparatus contains only 1.4S explosives it must use the appropriate proper shipping name for the explosive.

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