International Civil Aviation Organization

DGP-WG/16-WP/5
7/9/16

WORKING PAPER

DANGEROUS GOODS PANEL (DGP)
WORKING GROUP MEETING (DGP-WG/16)

Montreal, 17 to 21 October 2016

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 2019-2020 Edition*

2.1: Part 1 — General

AVALANCHE CONTROL ACTIVITY

(Presented by P. Tatin)

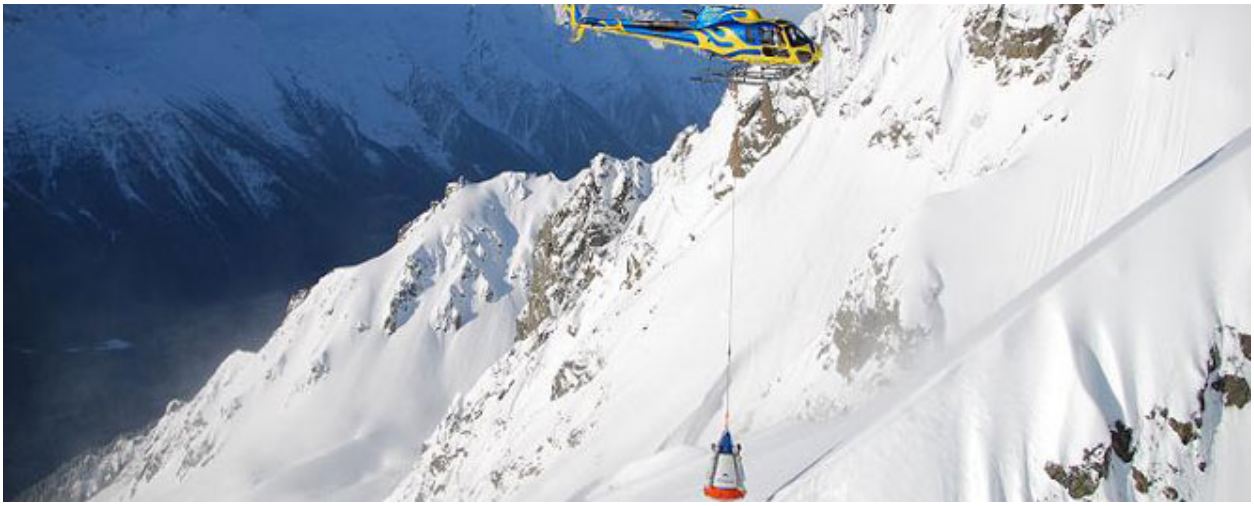
SUMMARY

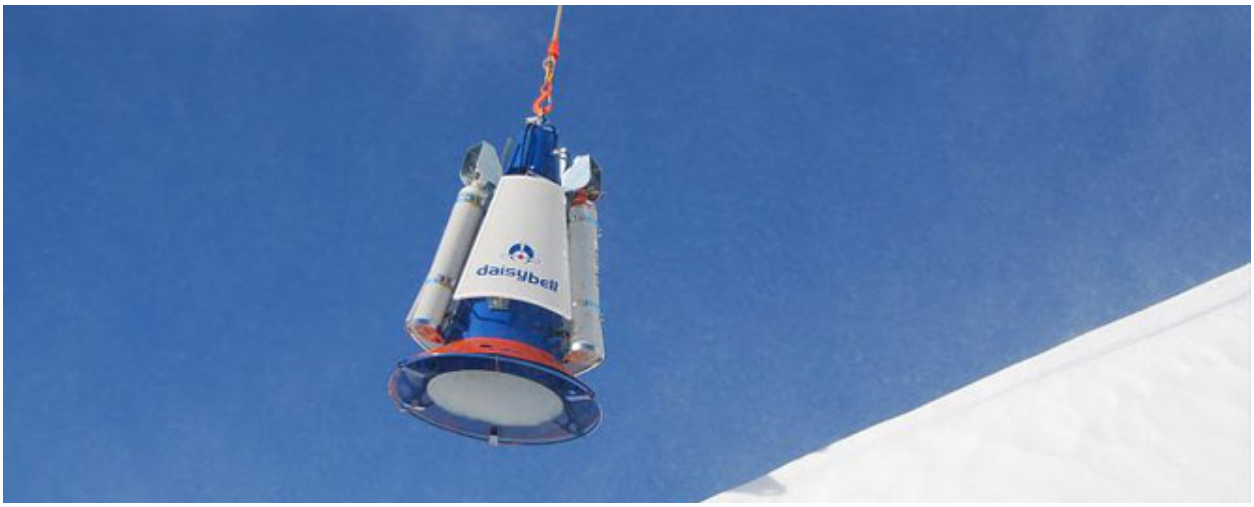
The working paper proposes to extend the field of general exceptions related to avalanche control set in Part 1;1.5.1.c) of the Technical Instructions to a device based on the production of a "blast" created by a chemical reaction of dangerous goods components placed in an equipment under sling.

Action by the DGP: The DGP is invited to provide their views and approve the amendment presented in the appendix of this working paper.

1. INTRODUCTION

1.1 A new gas-blast remote avalanche control system has been developed. This avalanche control solution is a mobile system carried by helicopter with 15 to 30 m sling. After having positioned the open metal cone to 5 or 10 meters (16-32 ft) above the desired avalanche start zone, the system explodes a hydrogen (UN 1049) and an oxygen (UN 1072) mixture which is contained in this open metal cone above the snowpack. All operations including the blasts are controlled by radio from the helicopter cockpit.





1.2 The system is an alternative device in relation with dropping of explosive charges from a helicopter and seems to be used more and more by aerial work companies

1.3 Even if Part 7;7 of the Technical Instructions allows some alleviations in certain circumstances due to the difference in the type of operations carried out by helicopters (e.g. 7;7.1.1), the State of the Operator still has to grant an approval in order to permit the carriage of dangerous goods without all of the normal requirements of the Instructions being fulfilled

1.4 In order to supplement Part 1;1.1.5.1 c) concerning dropping of explosive material in connection with avalanche control or any other activity, it is proposed to include this new avalanche release technology system also as a general exception in accordance with the following propositions.

2. ACTION BY THE DGP-WG

2.1 The DGP-WG is invited to provide their views and approve the amendment presented in the appendix of this working paper.

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APPENDIX

PROPOSED AMENDMENT TO PART 1 OF THE TECHNICAL INSTRUCTIONS

Part 1

GENERAL

Chapter 1

SCOPE AND APPLICABILITY

Proposition 1:

. . .

1.1.5 General exceptions

1.1.5.1 Except for 7;4.2, these Instructions do not apply to dangerous goods carried by an aircraft where the dangerous goods are:

. . .

b) to provide, during flight, veterinary aid or a humane killer for an animal;

c) for dropping in connection with agricultural, horticultural, forestry, avalanche control, ice jam control and landslide clearance or pollution control activities;

Note.— Avalanche control activities include mobile remote control systems that produce "blasts" created by an oxygen and hydrogen gas mixture inside equipment transported by sling.

. . .

Proposition 2:

c) for dropping or in equipment transported by sling in connection with agricultural, horticultural, forestry, avalanche control, ice jam control and landslide clearance or pollution control activities;

. . .

— END —