

DANGEROUS GOODS PANEL

Dubai, 31 March to 4 April 2003

UPDATE FROM THE INFORMAL WORKING GROUP OF EXPERTS, DEALING WITH PART 5 CHAPTER 6 - REFRIGERATED LIQUEFIED GASES IN OPEN RECEPTACLES

1. INTRODUCTION

1.1 As shown at agenda item 15.4 of the official report of the meeting of the Dangerous Goods working group of the whole in Frankfurt 16-20 September 2002, an informal expert working group will be working on the further evaluation and updating of the text of part 6 chapter 5 of the ICAO-TI (transport of refrigerated liquefied gases in open receptacles). The Dutch DG panel member has volunteered to take the necessary initiatives and take care of the progress of the international working group.

1.2 In this information paper, the method strategy and the time schedule is laid out for the realization of this task.

1.3 This information paper also includes a request to the panel members to enter experts of their own backing for participation in this expert group.

2. PURPOSE OF THE EXPERT GROUP

2.1 The expert group has as purpose to judge and to make amendments in regard to the text and the content of part 6 chapter 5 of the ICAO-TI text of the edition 2003-2005.

2.2 There are two important reasons for this task:

- 1) In 2000, a few severe accidents have occurred with open cryogenic holders (not pressurized containers). These accidents have shown that the rules on this field are possibly getting out of date and/ or are not enough updated to the present state of science.

- 2) Recently, the UN Committee of Experts has handled the subject of refrigerated liquefied gas cylinders and proposed rules in regard to these closed receptacles. However, the UN Committee has not taken in their judgement the so called open cryogenic receptacles (part 6 chapter 5 ICAO-TI).

It is necessary to do research within the expert group in regard to the possible overlaps with the new rules in the field of closed cryogenic receptacles, especially because of the fact that this way of transport is very common in aviation.

3. **METHOD OF STRATEGY (GLOBAL)**

3.1 **General**

3.1.1 In the first stage of the activities of the expert group, the various participants will work through e-mail contact. The project secretary (the Netherlands) will provide the participants with the detailed method of strategy, and they will indicate every participant with information and questions within their specialisation.

3.1.2 The project secretary will take care of the distribution of the different papers, that will be made and they also will take care of the time schedule of the project.

3.1.3 The time schedule and the content of the method of strategy will be worked out below.

3.2 **May - August 2003**

3.2.1 In this period the Netherlands, as project leader, will take care of composing a detailed method of strategy (working document). Also, they will provide the earlier announced experts of the participated countries the necessary material to be able to carry out the concrete research purposes.

3.2.2 The research purposes are:

- 1) To evaluate used technical terminology for actuality and utility in relation to what is common these days within the present state of science/ technology.
- 2) To formulate a univocal concept framework in relation to the different definitions for "open cryogenic receptacles" - "closed cryogenic receptacles"
"Non pressurized packagings" - "low or pressurized packagings".
- 3) To settle the relevance of all (extra) security measures, pointed out in the chapter. The developments in technology/ science will be empathic involved hereby.
- 4) The evaluation of the new utilizations of refrigerated gases within the industrial processes, of which there was no discussion by the realization of this giving of rules. To determine the additional giving of rules after the evaluation for this new fields of application for so far the security of flying could be at issue hereby.

- 5) To revise the relevant Packing Instructions according to the different updates and adaptations.

The next persons are already presented as participant in this project:

Great Britain	K.White, R. Westby, F. Smith	Oxford Magnet Technology
	D. Dedman	SHI-APD Cryogenics
U.S.A.	B. Richard	US Department of Transportation
	(he will be informed about the progress of the expert group)	
	G. Morrow	IGC
Netherlands	A .Willemsen	Philips International B.V.
	D. Raadgers	Ministry of Transport CAA-NL (holder portfolio)
	S.H. Oosterhoff	Transport Inspectorate (project leader)
	G.E. Thoen	Transport Inspectorate (project secretary)

Canada and Germany also have declared in the first discussions that they would like to deliver experts for this expert group. Looking at the fact that it has taken some time before the expert group proceeds, Canada and Germany are hereby warmly invited to approach their experts for participation in this expert group.

3.3 **August - November 2003**

3.3.1 Evaluation, discussion and determination of the univocal concept framework in relation to the UN recommendations and developments in technique and science.

3.3.2 The set up of further definitions in relation to the use of open cryogenic receptacles or other utilizations of refrigerated liquefied gases, which are not included in the UN recommendations, but are relevant for air transport.

3.4 **January - March 2004**

3.4.1 Statement of affairs, evaluation and settlement of new utilizations of the transport of refrigerated liquefied gases in relation to the risks during air transport.

3.4.2 The (possibly) making of new rules in relation to these new forms of utilization, as far as they are not already included in the UN recommendations.

3.4.3 To settle synergy between UN recommendations and the new forms of utilization.

3.4.4 Risk of stock- taking in regard to the human factor in relation to the new forms of utilization and the quantity of transported refrigerated gases.

3.5 **April - June 2004**

3.5.1 Production, evaluation and determination of the first concept giving of rules (TI)

3.5.2 The organization of an expert meeting in the Netherlands for the final decision making of the first concept.

3.5.3 The determination of the remaining areas, which need further research, evaluation and settlement.

3.6 **July - August 2004**

3.6.1 Production, evaluation and settlement of the new Packing Instructions

3.6.2 Production, evaluation and settlement of the risk- stock- taking and the Security measures, which have to be taken in terms of giving of rules for the Human factor.

3.6.3 The utilization of the first Working Paper, including the new planning and structure of Part 6, chapter 5. The Working paper will be ready at the beginning of the Working Group of the whole biennium 2004-2006 (WG 01 September 2004)

3.7 **October - December 2004**

3.7.1 Optional: Second expert meeting in the Netherlands, if the treatment in WG 01 biennium 2004- 2006 will give cause. Otherwise giving comments by e-mail from WG 01.

3.7.2 The utilization of the second concept WP for the WG 02 meeting in March 2005.

3.8 **January - August 2005**

3.8.1 Optional: The processing of the last comments as a result of WG 02.

3.8.2 The utilization of the final WP for the panel meeting September/ October 2005.

3.9 **November 2005**

3.9.1 The expert group will be dissolved during the panel meeting September/ October 2005.