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**COMMITTEE OF EXPERTS ON THE TRANSPORT OF  
DANGEROUS GOODS AND ON THE GLOBALLY  
HARMONIZED SYSTEM OF CLASSIFICATION  
AND LABELLING OF CHEMICALS**

Sub-Committee of Experts on the  
Transport of Dangerous Goods

Twenty-eighth session, 28 November-7 December 2005  
Item 2 of the provisional agenda

TRANSPORT OF GASES

Proposals to amend Chapter 6.2

Transmitted by the European Industrial Gases Association (EIGA)

**Introduction**

The Joint Meeting of the RID Safety Committee and of the UNECE Working Party on the Transport of Dangerous Goods (RID/ADR/ADN Joint Meeting) recently set up an ad hoc working group to revise Chapter 6.2 of the RID/ADR/ADN with the following guidelines:

- Determination of a structure for Chapter 6.2 so as to minimize future work on transposing amendments to the United Nations Model Regulations;
- Drafting of a specific text in conformity with the new structure that would respect the four principles of:
  - User-friendliness;
  - Harmonization with the United Nations Model Regulations;
  - Concision;
  - Deletion of superfluous requirements.

This work is now complete and it became apparent during the process that some of the text in Chapter 6.2 of the UN Model Regulations could be improved. This paper sets out the proposals suggested during the above work.

**Proposal 1**

Chapter 6.2 of the UN Model Regulations contains the following text under the heading Service Equipment.

“6.2.1.3.1 Except for pressure relief devices, valves, piping, fittings and other equipment subjected to pressure, shall be designed and constructed to withstand at least 1.5 times the test pressure of the pressure receptacles.”

There are two problems with this sub-section; the first is the extent of the exclusion does not become clear until the sentence is read for a second time. The second problem is what is the meaning of withstand? Does this mean withstand without catastrophic failure i.e. not burst? or withstand without permanent deformation? EIGA believes that the former meaning is intended and should be stated. The following replacement text is proposed, which makes no technical change, but clarifies the requirement and being easier to understand is more user-friendly.

“6.2.1.3.1 Valves, piping and other fittings subjected to pressure, excluding pressure relief devices, shall be designed and constructed so that the burst pressure is at least 1.5 times the test pressure of the pressure receptacle.”

**Proposal 2**

The requirements for bundles of cylinders are given in 6.2.1.1.6 of the UN Model Regulations. The ad hoc working group was of the opinion that the following two requirements given in RID/ADR/ADN should also appear in the UN Model Regulations.

“The manifold shall have at least the same test pressure as the cylinders . . . . . and the master valve shall be situated so as to be protected against any damage.”

It is proposed that the text of 6.2.1.1.6 would become (new text underlined):

“6.2.1.1.6 Pressure receptacles assembled in bundles shall be structurally supported and held together as a unit. Pressure receptacles shall be secured in a manner that prevents movement in relation to the structural assembly and movement that would result in the concentration of harmful local stresses. Manifolds and master valves shall be designed such that they are protected from impact. Manifolds shall have at least the same test pressure as the cylinders. For toxic liquefied gases, means shall be provided to ensure that each pressure receptacle can be filled separately and that no interchange of pressure receptacle contents can occur during transport.”

