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## Economic Commission for Europe

Inland Transport Committee

**World Forum for Harmonization of Vehicle Regulations**

**Working Party on General Safety Provisions**

**103<sup>rd</sup> session**

Geneva, 2–5 October 2012

Item 6 of the provisional agenda

**Regulation No. 67 (Equipment for liquefied petroleum gases (LPG))**

### **Proposal for amendments to Regulation No. 67 (Equipment for liquefied petroleum gases)**

#### **Submitted by the expert from Germany\***

The text reproduced below was submitted by the expert from Germany clarifying the provisions of UN Regulation No. 67. It supersedes ECE/TRANS/WP.29/GRSG/2011/26 distributed during the 101<sup>st</sup> session of the Working Party on General Safety Provisions (GRSG). The modifications to the existing text of the Regulation are marked in bold for new or strikethrough for deleted characters.

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\* In accordance with the programme of work of the Inland Transport Committee for 2010–2014 (ECE/TRANS/208, para. 106 and ECE/TRANS/2010/8, programme activity 02.4), the World Forum will develop, harmonize and update Regulations in order to enhance the performance of vehicles. The present document is submitted in conformity with that mandate.

## I. Proposal

*Insert a new paragraph 2.22., to read:*

**"2.22. "Hose assembly" means an assembly of a flexible hose and couplings;"**

*Paragraph 9.6., amend to read:*

**"9.6. Per manufacturing batch, a randomly taken representative number of hose assemblies Every hose assembly which is applied in the high pressure class (Class 1) according to the classification as prescribed in paragraph 2. of this Regulation, shall, during half a minute, be subjected to a test with gas under a pressure of 3,000 kPa by the approval holder."**

*Annex 8, Insert a new paragraph 1.7.1., to read:*

**"1.7.1. If hose and couplings are not assembled by the approval holder, the approval shall consist of:**

- (a) hose,
- (b) couplings and
- (c) assembly instruction.

[The assembly instruction shall be written in the language of the country to which the type will be delivered, or at least in English. It shall include detailed characteristics of equipment used for the assembling operation.]"

*Paragraphs 1.7.1., 1.7.2., 1.7.2.1., 1.7.2.2., 1.7.2.3., 1.7.3. (former), renumber as paragraphs 1.7.2., 1.7.3., 1.7.3.1., 1.7.3.2., 1.7.3.3., 1.7.4.*

*Paragraph 1.7.3.1. (former), renumber as paragraph 1.7.4.1. and amend to read:*

**"1.7.3.4.1. The hose assembly (hose with couplings) has to withstand during five minutes a gas pressure of 3,000 kPa without any leakage."**

*Insert a new paragraph 1.7.4.2., to read:*

**"1.7.4.2. If the hose assembly is assembled by a company other than the approval holder, it has to withstand a gas pressure of 3,000 kPa during five minutes without any leakage."**

*Insert a new paragraph 2.7.1., to read:*

**"2.7.1. If hose and couplings are not assembled by the approval holder, the approval shall consist of:**

- (a) hose,
- (b) couplings and
- (c) assembly instruction.

[The assembly instruction shall be written in the language of the country to which the type will be delivered, or at least in English. It shall include detailed characteristics of equipment used for the assembling operation.]"

*Paragraphs 2.7.1., 2.7.2., 2.7.2.1., 2.7.2.2., 2.7.2.3., 2.7.3. (former), renumber as paragraphs 2.7.2., 2.7.3., 2.7.3.1., 2.7.3.2., 2.7.3.3., 2.7.4.*

*Paragraph 2.7.3.1. (former)*, renumber as paragraph 2.7.4.1. and amend to read:

"**2.7.3.4.1.** The hose assembly (~~hose with couplings~~) has to withstand during five minutes a gas pressure of 1,015 kPa without any leakage."

*Insert a new paragraph 2.7.4.2., to read:*

**"2.7.4.2. If the hose assembly is assembled by a company other than the approval holder, it has to withstand a gas pressure of 1,015 kPa during five minutes without any leakage."**

*Insert a new paragraph 3.7.1., to read:*

**"3.7.1. If hose and couplings are not assembled by the approval holder, the approval shall consist of:**

- (a) **hose,**
- (b) **couplings and**
- (c) **assembly instruction.**

[The assembly instruction shall be written in the language of the country to which the type will be delivered, or at least in English. It shall include detailed characteristics of equipment used for the assembling operation.]"

*Paragraphs 3.7.1., 3.7.1.1., 3.7.1.2., 3.7.1.3, 3.7.2. (former)*, renumber as paragraphs 3.7.2., 3.7.2.1., 3.7.2.2., 3.7.2.3., 3.7.3.

*Paragraph 3.7.2.1. (former)*, renumber as paragraph 3.7.3.1. and amend to read:

"**3.7.2.3.1.** The hose assembly (~~hose with couplings~~) has to withstand, during five minutes, a gas pressure of 3,000 kPa without any leakage."

*Insert a new paragraph 3.7.3.2., to read:*

**"3.7.3.2. If the hose assembly is assembled by a company other than the approval holder it has to withstand a gas pressure of 3,000 kPa during five minutes without any leakage."**

## II. Justification

1. The current wording of Regulation No. 67 was discussed during several European Type Approval Authorities Meetings (TAAM) on the question of what exactly constitutes a type-approval granted. There are two possibilities:

- (a) A type-approval may only be granted for the hose assembled with couplings - that is for the hose assembly.
- (b) A type-approval may as well be granted for the hose and the couplings belonging together but not assembled to a hose assembly.

2. In ECE/TRANS/WP.29/GRSG/2011/26, Germany suggested dealing with hoses of Class 2 according possibility (b) and with hoses of Class 1 according possibility (a). During the 101<sup>st</sup> session of GRSG, the European Liquefied Petroleum Gas Association (AEGPL) suggested considering hoses of Class 1 according possibility (b) as well.

3. A definition for "hose assembly" is introduced for greater convenience.

4. By modifying the current paragraph 9.6., it is obvious that the approval holder is responsible for the Conformity of Production (COP). This is also valid for hose assemblies

assembled by a company other than the approval holder himself. It is up to the approval holder to carry out COP using either:

- (a) hose assemblies assembled by the approval holder, or
- (b) hose assemblies assembled by other companies.

5. It is deemed to be sufficient to carry out COP measures with a representative number of samples.

6. This proposal offers the possibility to grant, for hoses of Class 1 and Class 2, an approval for hose and coupling that may be assembled by a company other than the approval holder.

7. Following the proceedings of Regulation No. 115, this proposal stipulates that the assembly instruction is part of the approval. It is deemed necessary to consider the requirements regarding language and contents of the assembly instruction.

8. The additional paragraphs clarify that a hose assembly assembled by a company other than the approval holder has to withstand the same gas pressure over the same period of time as the hose assembly assembled by the approval holder himself/herself.

9. For each class of hoses, there are two subparagraphs specifying the hose assembly is hermetically sealed (gas-tight). These requirements shall emphasize that the same hermetic conditions are valid for hose assemblies assembled by the approval holder and for hose assemblies assembled by other companies.

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