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agenda item 4.4.)

PROPOSAL FOR DRAFT AMENDMENTS TO REGULATION No. 110

(Specific components for CNG)

Transmitted by the secretariat

Note: The text reproduced below was prepared by the secretariat and is the consolidation of TRANS/WP.29/GRPE/2002/6 (ENGVA), TRANS/WP.29/GRPE/2002/7 (Russian Federation) and TRANS/WP.29/GRPE/2002/12 (CLEPA), amended as mentioned in report TRANS/WP.29/GRPE/44, paras 39 and 40. The suggested amendments to the Regulation are marked in **bold** characters.

Note: This document is distributed to the Experts on Pollution and Energy only.

A. PROPOSAL

Insert a new paragraph 2.1.4., to read:

"2.1.4. **"Operating temperatures"** means maximum values of the temperature ranges, indicated in Annex 5O, at which safe and good functioning of the specific component is ensured and for which it has been designed and approved."

Paragraph 2.25., amend to read:

"2.25. **"Type of components"** as mentioned in paragraphs 2.6. to 2.23. **above** means components which do not differ in such essential respect as materials, working pressure **and operating temperatures.**"

Paragraph 4.1., amend to read:

"4.1. The sample of specific component submitted for approval shall bear the trade name or mark of the manufacturer and the type, **including one concerning designation regarding operating temperatures ("M" or "C" for moderate or cold temperatures as appropriate);** and for flexible hoses"

Paragraph 17.1.1., amend to read:

"17.1.1. The CNG system of the vehicle shall function in a good and safe manner at the working pressure **and operating temperatures** for which it has been designed and approved."

Paragraph 17.10.2., amend to read:

"17.10.2. Vehicles with more than one fuel system shall have a fuel selection system to ensure that no more than one fuel **at the same time** is supplied to the engine **for more than 5 seconds. "Dual-fuel" vehicles, using diesel as the primary fuel for igniting the air/gas mixture, are allowed in cases where these engines and vehicles meet mandatory emission standards.**"

Annex 1A, insert new items 1.2.4.5.2.13., 1.2.4.5.3.8., 1.2.4.5.4.8., 1.2.4.5.5.7., 1.2.4.5.6.5., 1.2.4.5.8.1.6., 1.2.4.5.8.2.5., 1.2.4.5.8.3.5., 1.2.4.5.8.4.5., 1.2.4.5.8.5.5., 1.2.4.5.8.6.5., 1.2.4.5.9.6., 1.2.4.5.10.6., 1.2.4.5.11.6., 1.2.4.5.12.6., 1.2.4.5.13.6., 1.2.4.5.14.6., to read:

"..... **Operating temperatures: 2/**°C"

(e.g. "1.2.4.5.2.13. **Operating temperatures: 2/**°C")

Annex 1A, item 1.2.4.5.9.4., amend to read:

"1.2.4.5.9.4. **Activation** temperature: 2/°C"

Annex 1B, insert new items 1.2.4.5.2.5., 1.2.4.5.3.6., 1.2.4.5.4.6., 1.2.4.5.5.5., 1.2.4.5.6.4.,
1.2.4.5.8.1.5., 1.2.4.5.8.2.5., 1.2.4.5.8.3.5., 1.2.4.5.8.4.5., 1.2.4.5.8.5.5., 1.2.4.5.8.6.5., 1.2.4.5.9.5.,
1.2.4.5.10.5., 1.2.4.5.11.5., 1.2.4.5.12.5., 1.2.4.5.13.5., 1.2.4.5.14.5., to read:

"..... **Operating temperatures:** 2/°C"

(e.g. "1.2.4.5.2.5. **Operating temperatures:** 2/°C")

Annex 1B, paragraph 1.2.4.5.9.3., amend to read:

"1.2.4.5.9.3. **Activation** temperature: 2/°C"

Annex 4B,

Paragraph 1.5.2.2., amend to read:

"1.5.2.2. Test temperature: **-40 °C ± 3 °C**
 or -20 °C ± 3 °C, if applicable."

Paragraph 1.6.2.2., amend to read:

"1.6.2.2. The sealing cone **of swivel-nut type** must be of the type with a half vertical angle
of 45°."

Insert new paragraphs 1.6.2.3. and 1.6.2.4., to read:

"**1.6.2.3. The couplings can be made as swivel-nut type or as quick-connector type.**

**1.6.2.4. It shall be impossible to disconnect the quick-connector type without specific
measures or the use of dedicated tools."**

Paragraph 2.5.2.2., amend to read:

"2.5.2.2. Test temperature: **-40 °C ± 3 °C**
 or -20 °C ± 3 °C, if applicable."

Insert new paragraphs 2.6.4. and 2.6.5., to read:

"2.6.4. The couplings can be made as swivel-nut type or as quick-connector type.

2.6.5. It shall be impossible to disconnect the quick-connector type without specific measures or the use of dedicated tools."

Paragraph 3.5.2.2., amend to read:

"3.5.2.2. Test temperature: **-40 °C ± 3 °C**
or -20 °C ± 3 °C, if applicable."
