ECONOMIC COMMISSION FOR EUROPE

INLAND TRANSPORT COMMITTEE

Working Party on the Construction of Vehicles
Meeting of Experts on Pollution and Energy (GRPE)
(Forty-fourth session GRPE – 10-14 June 2002, agenda item 4.5.)

PROPOSAL FOR AMENDMENTS TO REGULATION No.110
(Specific components CNG)

Transmitted by the Expert from the Italian delegation

Note: The text reproduced below was prepared by Italian Delegation in order to amend the text of Regulation No. 110.
A. PROPOSAL

Annex 3 - Appendix A
Paragraph A.24, (Pressure relief device requirements), amend to read:

................
(a) One specimen shall be held at a controlled temperature of not less than 95°C and a pressure ...........(instead of 100°C)

Annex 3 – Appendix A,
Add a new paragraph. A.28 to read:

“A.28 Manual valve device requirements

One specimen shall be submitted to a fatigue test at a pressure cycling rate not to exceed 4 cycles per minute as follows:

(i) held at 20 °C while pressured for 2000 cycles between 2 MPa and 26 MPa;

Annex 3 – Appendix D, amend to read:

................
(d) serial and part number

Annex 4A,
Add a new paragraph 6 to read:

“6 Manual Valve

6.1 The manual valve device in Class 0 shall be designed to withstand a pressure of 1.5 times the working pressure.

6.2 The manual valve device in Class 0 shall be designed to operate at a temperature from –40°C to 85 °C.

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B. JUSTIFICATION

Re: Annex 3, Appendix A, A24
The maximum ambient temperature at normal conditions, without fire, is normally considered 90°C in automotive designing for the components on board. Moreover, since PRDs are designed to operate at the temperature of 110 +/- 10 °C, they could melt at 100 °C.

Re: Annex 4A, A28
See justification to the previous amendment

Re: Annex 3 Appendix D
This editorial amendment is required for consistency reason with Annex 3 – 11. Marking Par. 11.1 ........
(iv) Cylinder identification (applicable part number and a serial number unique for every cylinder.)

Re: Annex 4A, paragraph 6
In the original text there was a lack of prescriptions and the experience revealed the need to provide for them.

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