



**Economic and Social
Council**

Distr.
GENERAL

ECE/TRANS/WP.29/2007/27
5 April 2007

Original: ENGLISH

ECONOMIC COMMISSION FOR EUROPE

INLAND TRANSPORT COMMITTEE

World Forum for Harmonization of Vehicle Regulations

One-hundred-and-forty-second session
Geneva, 26-29 June 2007
Item 4.2.7. of the provisional agenda

1958 AGREEMENT

Consideration of draft amendments to existing Regulations

Proposal for Supplement 8 to the 01 series of amendments to Regulation No. 67
(Equipment for LPG vehicles)

Submitted by the Working Party on Pollution and Energy (GRPE)

The text reproduced below was adopted by GRPE at its fifty-third session. It is based on ECE/TRANS/WP.29/GRPE/2007/2, as amended by Annex 3 to the report. It is submitted to WP.29 and AC.1 for consideration (ECE/TRANS/WP.29/GRPE/53, para. 18).

Annex 6, para. 6.1., amend to read:

"6.1.
Endurance (Number of cycles shall be 50,000 cycles) Annex 15, para. 9
....."

Annex 15

Insert a new paragraph 9.6., to read:

"9.6. Endurance test for pressure regulator and vaporizer

The regulator shall be able to withstand 50,000 cycles without any failure when tested according to the following procedure:

- (a) Recycle the regulator for 95 per cent of the total number of cycles at room temperature and at the classification pressure. Each cycle shall consist of flow until stable outlet pressure has been obtained, after which the gas flow shall be shut off by a downstream valve within 1 s, until the downstream lock-up pressure has stabilized. Stabilized outlet pressures are defined as set pressure \pm 15 per cent for at least 5 s.
- (b) Cycle the inlet pressure of the regulator for 1 per cent of the total number of cycles at room temperature from 100 per cent to 50 per cent of the classification pressure. The duration of each cycle shall be no less than 10 s.
- (c) Repeat the cycling procedure listed in sub-paragraph (a) at 120 °C at the classification pressure for 1 per cent of the total number of cycles.
- (d) Repeat the cycling procedure listed in sub-paragraph (b) at 120 °C at the classification pressure for 1 per cent of the total number of cycles.
- (e) Repeat the cycling procedure listed in sub-paragraph (a) at -20 °C and 50 per cent of classification pressure for 1 per cent of the total number of cycles.
- (f) Repeat the cycling procedure listed in sub-paragraph (b) at -20 °C and 50 per cent of classification pressure for 1 per cent of the total number of cycles.
- (g) At the completion of all tests indicated in sub-paragraphs (a), (b), (c), (d), (e) and (f), the regulator shall be leak proof as described under external leakage test under paragraph 5., at the temperatures of -20 °C, at the room temperature and at the temperature of +120 °C."
