

## **Corrigendum to draft Supplement 1 to the 01 series of amendments to Regulation No. 110 on CNG/LNG vehicles (ECE/TRANS/WP.29/2013/101)**

Note: This informal document aims at correcting and clarifying the draft amendments to Regulation No. 110 as proposed in ECE/TRANS/WP.29/2013/101. At its November 2013 session, the World Forum WP.29 is expected to consider and adopt draft Supplement 1 to the 01 series of amendments to Regulation No. 110, inserting new provisions for motor vehicles using Liquefied Natural Gas (LNG) in their propulsion system. During the last session, GRSG agreed to have a final review of the proposal.

### Proposal:

Page 12, definitions 4.70. to 4.76., renumber as definitions **4.68.** to **4.74.**

Page 13, paragraph 5.3.1. (including footnote <sup>10</sup>), amend the footnote <sup>10</sup> to read:

"<sup>10</sup> [n] stands for the sample size and shall be determined by the Type Approval Authority."

Page 26, paragraph 18.10.3., correct the reference to "Annex 4F1" to read "Annex **4F**".

Pages 40 and 41, Annex 1B, items 1.2.4.5.18. to 1.2.4.5.29.2., correct the footnote <sup>1</sup> (former) to read footnote <sup>2</sup> and footnote <sup>2</sup> (former) to read footnote <sup>1</sup>.

Page 48, Annex 2B - Addendum, paragraphs 1.22.2., 1.23.2., 1.24.2., 1.25.2., 1.26.2., 1.27.2., 1.28.2., 1.29.2., 1.30.2. and 1.31.2., correct the wording "Working pressure(s) <sup>1</sup>:" to read "**Material**:".

Page 53, Annex 3A, paragraphs 2. and 3., correct the references to "page 6" and "page 12" to read "page 2" and "page 7" respectively.

Page 68, Annex 3A, Table 6.7, first column, tenth row, correct the wording "Working pressure change  $\leq$  20 per cent" to read "Working pressure change  $\leq$  20 per cent <sup>@</sup>" (inserting a reference to note @).

Page 86, paragraphs A.22. to A.24., correct the references (3 times) to "Annex 3" to read "Annex **3A**".

Page 91, the numbering of the annex, correct "Annex 3 – Appendix D" to read "Annex **3A** – Appendix D".

Page 96, Annex 3A – Appendix F, the note to paragraph F.2.2., correct the figure "36 MPa" to read "**26** MPa".

Page 103, Annex 3A – Appendix H, paragraph H.6.(a), correct to read:

"(a) Pressure cycle

As defined in the test sequence, cylinder shall be hydraulically pressure cycled between not **less** than 2 MPa and not **more** than 26 MPa. The total cycle shall be .....

Page 109, Annex 3B, paragraph 4.1., correct to read (re-inserting paragraph numbering 4.2.):

"4.1. General

The design of tanks shall cover all relevant aspects that are necessary to ensure that every tank produced according to the design is fit for its purpose for the specified service life.

**4.2.** Design

This Regulation does not provide .....

Page 110, Annex 3B, paragraph 4.6.(b), correct the wording "the external vessel surfaces" to read "the external **tank** surfaces".

Page 112, Annex 3B, paragraph 4.15.1., correct the reference to paragraph 6.11. to read paragraph **4.11.**

Page 118, Annex 3B – Appendix C, paragraph C.5., correct the wording "to cause cylinder material damage" to read "to cause **tank** material damage".

Page 119, Annex 3B – Appendix D, item 6., correct the wording "Serial number: from to inclusive" to read "**Serial number: from ..... to ..... inclusive .....**".

Page 122, Annex 4A, paragraph 7.3., correct the reference to paragraph 2 to read paragraph **3.**

Page 142, Annex 4B, paragraph 4.3.1.3., correct the reference to paragraph 1.3.1.1. to read paragraph **4.3.1.1.**

Page 143, Annex 4B, paragraph 4.3.2.3., correct the reference to paragraph 1.3.2.1. to read paragraph **4.3.2.1.**

Page 143, Annex 4B, paragraph 4.4.1.3., correct the reference to paragraph 1.4.1.1. to read paragraph **4.4.1.1.**

Page 144, Annex 4B, paragraph 4.4.2.3., correct the reference to paragraph 1.4.2.1. to read paragraph **4.4.2.1.**

Page 151, Annex 4F, footnote <sup>1</sup>, correct "Road vehicles Compressed Natural Gas" to read "Road vehicles - Compressed Natural Gas".

Page 158, Annex 4J, paragraph 3.1.4.3., correct the wording "completion of the room temperature cycles" to read "completion of the **high** temperature cycles".

Page 165, Annex 4N, paragraph 6.4., correct the wording "The LNG non-return valve" to read "The LNG manual valve".

Note by the secretariat: The title of Annex 4N lists the test provisions for 6 different valves (i.e. automatic valve, check valve, pressure relief valve, excess flow valve, manual valve and non-return valve). However, the annex specifies provisions for 5 types of valves (namely the automatic valve in para. 2, the check valve in para. 3, the pressure relief valve in para. 4, the excess flow valve in para. 5 and the manual valve in para. 6). The provisions for the non-return valve were omitted! Shall the "non-return valve" be removed from the title of this Annex 4N?