Economic Commission for Europe

Inland Transport Committee

Working Party on the Transport of Dangerous Goods

9 September 2015

Joint Meeting of the RID Committee of Experts and the Working Party on the Transport of Dangerous Goods

Geneva, 15–25 September 2015 Item 3 (a) of the provisional agenda **Proposals for amendments to RID/ADR/ADN:** pending issues

Periodic inspection and test of some transportable refillable LPG steel cylinders – amendments to ECE/TRANS/WP.15/AC.1/2015/48

Transmitted by the European Liquefied Petroleum Gas Association (AEGPL) on behalf of the Working Group on Alternative Methods for Periodic Inspections

General

Following reading of the translated versions of Working Document ECE/TRANS/WP.15/AC.1/2015/48, minor changes were deemed necessary to ensure clarity in the aforesaid working document.

This INF paper presents the modified versions of 2 paragraphs of the of Working Document ECE/TRANS/WP.15/AC.1/2015/48. The modified parts are shown as underlined.

Modification of paragraph (h) in proposal 1

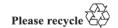
(h) Assessment of the method

The safety level of this alternative statistical method shall be validated by an independent institute, experienced in statistics and pressure receptacles. This expert <u>analysis</u> shall assess the distribution function and shall take into account <u>potential</u> modifications caused by service degradation. <u>If action of an independent institute is stipulated in the procedure, the conclusions resulting from this assessment shall be confirmed by the competent authority of the <u>owner's country</u>.</u>

The alternative statistical method shall ensure a safety level not lower than the <u>level</u> resulting from the retest method to be substituted.

Modification of the first two paragraphs of the note below table in paragraph (f) in proposal 2

(*) For each of the two groups of figures (burst pressure and volumetric expansion), the "right" unilateral statistical tolerance interval shall be



calculated for a confidence level of 95% and a <u>coverage</u> of population equal to 99%. The calculation is made in accordance with the standard ISO 16269-6:2005 admitting, for each of the OMC inspection lots, the <u>normal distributed property</u> of the population, <u>with an assumed unknown variance</u>.

Tests results <u>for</u> each sample shall be checked <u>with respect to</u> their <u>type</u> of distribution function. If <u>tests results do</u> not follow a normal distribution, the relevant distribution shall be used to make the calculation, and this additional complement shall be validated by an independent institute <u>and confirmed by the competent authority</u>, according to sub-section (h) of 6.2.3.5.3.1.