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## Economic Commission for Europe

### Inland Transport Committee

### World Forum for Harmonization of Vehicle Regulations

#### 168<sup>th</sup> session

Geneva, 8-11 March 2016

Item 4.8.7 of the provisional agenda

**1958 Agreement – Consideration of draft amendments  
to existing Regulations submitted by GRSG**

## **Proposal for Supplement 2 to the 02 series of amendments to Regulation No. 118 (Burning behaviour of materials)**

### **Submitted by the Working Party on General Safety Provisions\***

The text reproduced below was adopted by the Working Party on General Safety Provisions (GRSG) at its 109<sup>th</sup> session (ECE/TRANS/WP.29/GRSG/88, para. 39). It is mainly based on ECE/TRANS/WP.29/GRSG/2015/29, its Corr.1 and GRSG-109-06. It is submitted to the World Forum for Harmonization of Vehicle Regulations (WP.29) and to the Administrative Committee AC.1 for consideration at their March 2016 sessions.

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\* In accordance with the programme of work of the Inland Transport Committee for 2014–2018 (ECE/TRANS/240, para. 105 and ECE/TRANS/2014/26, programme activity 02.4), the World Forum will develop, harmonize and update Regulations in order to enhance the performance of vehicles. The present document is submitted in conformity with that mandate.



*Contents, item 5., amend to read:*

- "5. Part I: Approval of a vehicle type with regard to the burning behaviour of the components used in the interior compartment, the engine compartment and any separate heating compartment and with regard to the burning behaviour of electric cables used in the vehicle and/or the capability to repel fuel or lubricant of insulation materials used in the engine compartment and any separate heating compartment."

*Paragraphs 1.2. and 1.3., amend to read:*

- "1.2. Part I - Approval of a vehicle type with regard to the burning behaviour and/or the capability to repel fuel or lubricant of the components used in the interior compartment, the engine compartment and any separate heating compartment and with regard to the burning behaviour of electric cables used in the vehicle.
- 1.3. Part II - Approval of a component with regard to its burning behaviour and/or its capability to repel fuel or lubricant."

*Paragraphs 5.2. to 5.2.2., amend to read:*

- "5.2. Specifications
- 5.2.1. The materials inside and no more than 13 mm beyond the interior compartment, materials of the engine compartment, materials of any separate heating compartment and electric cables used in the vehicle to be type approved shall meet the requirements of Part II of this Regulation.
- 5.2.2. The materials and/or equipment used in the interior compartment, the engine compartment and any separate heating compartment and/or in devices approved as components, electric cables used in the vehicle shall be so installed as to minimize the risk of flame development and flame propagation."

*Part II, paragraph 6.2.6., amend to read:*

- "6.2.6. Any electric cable (e.g. single-core, multi-core, screened, unscreened, sheathed cables) exceeding a length of 100 mm used in the vehicle shall undergo the resistance to flame propagation test described in ISO 6722-1:2011, paragraph 5.22.

The exposure to the test flame shall be finished, when the conductor (in case of single-core cables) or the first conductor (in case of multi-core cables) becomes visible, or after 15 s for cables with conductor sizes of each less or equal than 2.5 mm<sup>2</sup> and 30 s for cables with conductor sizes greater than 2.5 mm<sup>2</sup> or multi-core cables with at least one conductor size greater than 2.5 mm<sup>2</sup>.

The result of the test shall be ... test sample shall remain unburned."

*Part II, paragraph 6.2.7.4., amend to read:*

- "6.2.7.4. Elements for which it is not possible to extract a sample in the prescribed dimensions as specified in paragraph 3.1. of Annex 6, paragraph 3. of Annex 7, and paragraph 3.1. of Annex 8."

*Annex 4, Appendix 1, paragraph 1.1.2., correct the reference to paragraph 6.6.2. to read paragraph 6.2.2.*