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## Economic Commission for Europe

### Inland Transport Committee

### World Forum for Harmonization of Vehicle Regulations

#### Working Party on Lighting and Light-Signalling

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Item 7 (e) of the provisional agenda

#### Other Regulations – Regulation No. 38 (Rear fog lamps)

## **Proposal for Supplement 18 to Regulation No. 38 (Rear fog lamps)**

### **Submitted by the expert from the International Automotive Lighting and Light Signalling Expert Group (GTB)\***

The text reproduced below was prepared by the expert from the GTB to update the provisions relating to failure of light sources when an operating tell-tale is installed and to correct an editorial inconsistency. The modifications to the existing text of the Regulation are marked in bold for new or strikethrough for deleted characters.

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\* In accordance with the programme of work of the Inland Transport Committee for 2012–2016 (ECE/TRANS/224, para. 94 and ECE/TRANS/2012/12, 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.

## I. Proposal

Paragraph 6.4., amend to read:

- "6.4. ~~In the case of a single lamp containing more than one light source, the lamp shall comply with the minimum intensity required when any one light source has failed and when all light sources are illuminated the maximum intensities shall not be exceeded.~~ **Light source failure:**
- 6.4.1. A group of light sources, wired so that the failure of any one of them causes all of them to stop emitting light, shall be considered to be one light source.**
- 6.4.2. In case of failure of any one light source in a single lamp containing more than one light source, one of the following provisions shall apply:**
- (a) The light intensity shall comply with the minimum intensity required in the axis of reference or**
  - (b) The light intensity in the axis of reference shall be at least 50 per cent of the minimum intensity required, provided that a note in the communication form states that the lamp is only for use on a vehicle fitted with an operating tell-tale which indicates when any one of these light sources has failed."**

Paragraph 9., correct to read:

- "9. Colour of light emitted
- The colour of the light emitted inside the field of the light distribution grid defined at paragraph 3 4. of Annex 3, which shall be measured under conditions described in paragraph 7. above, shall be red. Outside this field no sharp variation of colour shall be observed.
- These requirements..."

Annex 1, item 9., amend to read:

- "9. Concise description:
- ...
- Variable luminous intensity: yes/no<sup>2</sup>
- Only for use in a vehicle fitted with an operating tell-tale to indicate light source failure: yes/no<sup>2</sup>....."**

## II. Justification

1. This proposal concerns lamps equipped with several light sources and fitted with an operating tell-tale that indicates the failure of any one of these light sources. The current provisions for the failure of one light source (the "N-1" requirement) are difficult to apply as a complete photometric check for all possible combinations of light source failure is required.
2. The revised text follows the approach of supplement 17 to Regulation No. 87 and removes the requirement to check the complete photometric requirement, in case of failure of any light source, when the lamp is fitted on the vehicle with an operating tell-tale.

3. In paragraph 9, the opportunity has been taken to correct a reference to paragraph 3. of Annex 4. The reference should be to paragraph 4 of Annex 4.

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