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### Economic Commission for Europe

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World Forum for Harmonization of Vehicle Regulations

Working Party on Lighting and Light-Signalling

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Item 7 of the provisional agenda

Regulation No. 7 (Position, stop and end-outline lamps)

### **Proposal for Supplement 24 to the 02 Series of Regulation No. 7**

**Submitted by the expert from the International Automotive Lighting  
and Light Signalling Expert Group\***

The text reproduced below was prepared by the expert from the International Automotive Lighting and Light Signalling Expert Group (GTB) to amend the requirements to clarify the "n-1 rule" provisions in relation to an interdependent lamp system. 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 6.1.7.2., amend to read:*

"6.1.7.2. ~~The~~ **Single** lamps shall comply with the minimum intensity required in the table of standard light distribution in space as shown in Annex 4 when any one light source has failed. However, for **single** lamps designed for only two light sources, 50 per cent of the minimum intensity in the axis of reference of the lamp shall be considered sufficient, provided that a note in the communication form states that the **single** lamp is only for use on a vehicle fitted with an operating tell-tale which indicates when any one of these two light sources has failed."

## II. Justification

1. For an interdependent lamp system providing the rear position lamp function, partly installed on a fixed component and partly installed on a movable component of the vehicle, the individual interdependent lamp on the fixed component shall meet outboard geometric visibility, colorimetric and photometry requirement when the movable component is opened. However, the "n-1 rule" requirement should only apply to the entire interdependent lamp system and should not be applied to each interdependent lamp of the system.
  2. Although paragraph 6.1.7. clearly refers to a "single lamp" and this implies that its subparagraphs shall also relate to "single lamps" the proposed amendment of paragraph 6.1.7.2. is necessary to remove the possibility of different interpretations being applied by some type approval authorities.
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