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Item 4.9.2 of the provisional agenda

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

Proposal for Supplement 25 to the 01 series of amendments to Regulation No. 6 (Direction indicators)

Submitted by the Working Party on Lighting and Light-Signalling *

The text reproduced below was adopted by the Working Party on Lighting and Light-Signalling (GRE) at its seventieth session (ECE/TRANS/WP.29/GRE/70, paras. 23 and 29). It is based on ECE/TRANS/WP.29/GRE/2013/47 as amended by Annex IV to the report and ECE/TRANS/WP.29/GRE/2013/61 as amended by Annex V to the report. It is submitted to the World Forum for Harmonization of Vehicle Regulations (WP.29) and to the Administrative Committee AC.1 for consideration.

* 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.

Paragraph 1.3., amend to read:

- "1.3. "Direction indicators of different types" means lamps which ...
...
(e) The sequential activation of light sources, if any.
..."

Paragraph 2.2.1., amend to read:

- "2.2.1. Drawings, in triplicate, sufficiently detailed to permit identification of the type and category and showing geometrically the following:
- (a) In what position(s) the direction indicator may be mounted on the vehicle; the axis of observation to be taken as the axis of reference in the tests (horizontal angle $H = 0^\circ$, vertical angle $V = 0^\circ$); and the point to be taken as the centre of reference in the said tests.
 - (b) The geometrical conditions of installation of the device(s) that meet(s) the requirements of paragraph 6.
 - (c) In the case of an interdependent lamp system, the interdependent lamp or the combination of interdependent lamps that fulfill the requirements of paragraph 5.7, paragraph 6.1. and of Annex 4 to this Regulation.
 - (d) The drawings shall show the position intended for the approval number and the additional symbols in relation to the circle of the approval mark."

Paragraph 2.2.4., amend to read:

- "2.2.4. For a direction indicator lamp of categories 1, 1a, 1b, 2a and 2b, information regarding activation of the signals according to paragraphs 5.6. and 6.2.2. below."

Paragraph 4.1.1., amend to read:

- "4.1.1. If the two devices submitted for approval in pursuance of paragraph 2.2.4., above, meet the requirements of this Regulation, approval shall be granted. All the devices of an interdependent lamp system must be submitted for type approval by the same applicant."

Paragraph 4.2.2.3., amend to read:

- "4.2.2.3. To the right side of the symbol mentioned in paragraph 4.2.2.1.; it shall be marked on each device:
- (a) The additional letter "D", on devices which may be used as part of an assembly of two lamps.
 - (b) The additional letter "Y", on devices which may be used as part of an interdependent lamps system."

Insert a new paragraph 5.6., to read:

- "5.6. For direction indicator lamps of categories 1, 1a, 1b, 2a or 2b the flash may be produced by sequential activation of their light sources if the following conditions are met:
- (a) Each light source, after its activation, shall remain lit until the end of the ON cycle;

- (b) The sequence of activation of the light sources shall proceed in a uniform progressive manner from inboard towards the outboard edge of the apparent surface;
- (c) It shall be one continuous line with no repeating alternation in the vertical direction (e.g. no waves).
- (d) The variation shall finish no more than 200 ms after the beginning of the ON cycle;
- (e) For the orthogonal projection in the direction of the axis of reference of a rectangle, circumscribing the apparent surface of the direction indicator shall have its longer sides parallel to the H-plane, the ratio of the horizontal to the vertical sides shall not be less than 1.7.

Compliance to the conditions mentioned above shall be verified in flashing mode.

Insert a new paragraph 5.7., to read:

"5.7. An interdependent lamp system shall meet the requirements when all its interdependent lamps are operated together.

However, if the interdependent lamp system providing the rear direction indicator function is partly mounted on the fixed component and partly mounted on a movable component, the interdependent lamp(s) specified by the Applicant shall meet the geometric visibility, colorimetric and photometric requirement, at all fixed positions of the movable component(s). This does not apply to interdependent direction indicator lamp(s) intended for fitting on vehicle(s) where, to fulfil or complete the geometric visibility angle, additional lamps are activated when the movable component is in any fixed open position, provided that these additional lamps satisfy all the position, photometric and colorimetric requirements applicable to the direction indicator lamps installed on the movable component."

Paragraph 6.1.2., amend to read:

"6.1.2. When an assembly of two lamps marked "D" having the same function is deemed to be a single lamp, it shall comply with the requirements for:

- (a) Maximum intensity if all lamps together are lit;
- (b) Minimum intensity if one lamp has failed."

Paragraph 6.2., amend to read:

"6.2. In case of failure of a single lamp, or of an interdependent lamp system of the categories 1, 1a, 1b, 2a and 2b, containing more than one light source the following provisions shall apply:

6.2.1. A group of light sources,....."

Annex 2,

Item 9., amend to read:

"9. Concise description:

Category: 1, 1a, 1b, 2a, 2b, 3, 4, 5, 6²

Number, category:.....

Function(s) produced by an interdependent lamp forming part of an interdependent lamps system:

Voltage and wattage:

Light source module specific identification code:

Only for installation.....

...

Variable luminous intensityyes/no²

Sequential activation of light sources
(see paragraph 5.6. of this Regulation).....yes/no²"

Annex3., insert a new item, to read:

"

Marking of interdependent lamps

2aY R1 S1
01 02 02



3223

2aY F2
01 00



3223

Marking of an interdependent lamp comprising part of an interdependent lamp system providing:

A rear direction indicator lamp (category 2a) approved in accordance with the 01 series of amendments to Regulation No. 6. This is also marked Y as it is an interdependent lamp forming part of an interdependent lamp system,

A rear fog lamp with variable luminous intensity (F2) approved in accordance with Regulation No. 38 in its original version.

Marking of an interdependent lamp comprising part of an interdependent lamp system providing:

A rear direction indicator lamp (category 2a) approved in accordance with the 01 series of amendments to Regulation No. 6. This is also marked Y as it is an interdependent lamp forming part of an interdependent lamp system,

A red rear position (side) lamp (R1) approved in accordance with the 02 series of amendments to Regulation No. 7,

A stop lamp (S1) approved in accordance with Regulation No. 7 in its original version.

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