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

#### Sixty-ninth session

Geneva, 8–11 April 2013

## Report of the Working Party on Lighting and Light-Signalling on its sixty-ninth session (8-11 April 2013)

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## **I. Attendance**

1. The Working Party on Lighting and Light-Signalling (GRE) held its sixty-ninth session from 8 to 11 April 2013 in Geneva, under the chairmanship of Mr. M. Gorzkowski (Canada). Experts from the following countries participated in the work following Rule 1(a) of the Rules of Procedure of the World Forum for Harmonization of Vehicle Regulations (WP.29) (TRANS/WP.29/690 and Amend. 1): Austria; Belgium; Canada; China; Czech Republic; Finland; France; Germany; Hungary; India; Italy; Japan; Luxembourg; Netherlands; Norway; Poland; Republic of Korea; Russian Federation; Serbia; Spain; South Africa; Thailand and United Kingdom of Great Britain and Northern Ireland. An expert from the European Commission (EC) participated. Experts from the following non-governmental organizations also took part in the session: European Association of Automotive Suppliers (CLEPA); International Electrotechnical Commission (IEC); International Motorcycle Manufacturers Association (IMMA); International Organization of Motor Vehicle Manufacturers (OICA) and Society of Automotive Engineers (SAE). Upon the special invitation of the Chair, the experts from the International Automotive Lighting and Light Signalling Expert Group (GTB) and the European Committee of Associations of Manufacturers of Agricultural Machinery (CEMA) participated.

## **II. Adoption of the agenda (agenda item 1)**

*Documentation:* ECE/TRANS/WP.29/GRE/2013/1 and Add.1,  
Informal document GRE-69-01-Rev.1.

2. GRE noted GRE-69-01-Rev.1, including all the informal documents and the amendments of the provisional agenda. GRE adopted the agenda proposed for the sixty-ninth session (ECE/TRANS/WP.29/GRE/2013/1 as amended by Add.1 and GRE-69-1 Rev. 1). The informal documents distributed during the session are listed in Annex I of this report.

3. The list of the GRE informal groups is contained in Annex II of this report.

## **III. Development of new global technical regulations (agenda item 2)**

4. GRE noted that proposals on this subject are awaited and agreed to defer discussion to its October 2013 session.

## **IV. Regulation No. 37 (Filament lamps) (agenda item 3)**

*Documentation:* ECE/TRANS/WP.29/GRE/2013/6,  
Informal document GRE-69-05.

5. The expert from GTB introduced ECE/TRANS/WP.29/GRE/2013/6 and the expert from IEC introduced GRE-69-05. GRE adopted both documents, agreed to delete the square brackets and requested the secretariat to submit the proposals to WP.29 and to the Administrative Committee of the 1958 Agreement (AC.1) for consideration at their November 2013 session as draft Supplement 42 to the 03 series of amendments to Regulation No. 37.

## **V. Regulation No. 48 (Installation of lighting and light-signalling devices) (agenda item 4)**

### **A. Proposal for amendments to the 04, 05 and 06 series of amendments**

*Documentation:* ECE/TRANS/WP.29/GRE/2013/7,  
ECE/TRANS/WP.29/GRE/2013/8,  
Informal document GRE-69-08.

6. The expert from GTB introduced ECE/TRANS/WP.29/GRE/2013/7, amended by GRE-69-08, proposing to allow a reduction of the minimum mounting height of front position lamps. GRE adopted ECE/TRANS/WP.29/GRE/2013/7 (not amended) and requested the secretariat to submit it to WP.29 and AC.1 for consideration at their November 2013 sessions as draft:

- (a) Supplement 12 to the 04 series of amendments to Regulation No. 48,
- (b) Supplement 5 to the 05 series of amendments to Regulation No. 48,
- (c) Supplement 3 to the 06 series of amendments to Regulation No. 48.

7. GRE considered ECE/TRANS/WP.29/GRE/2013/8 on replacing of light sources introduced by the expert from GTB. GRE adopted this proposal (not amended) and requested the secretariat to submit it to WP.29 and AC.1 for consideration at their November 2013 sessions as draft (see para. 6):

- (a) Supplement 12 to the 04 series of amendments to Regulation No. 48,
- (b) Supplement 5 to the 05 series of amendments to Regulation No. 48,
- (c) Supplement 3 to the 06 series of amendments to Regulation No. 48.

### **B. Proposal for amendments the 06 series of amendments**

*Documentation:* ECE/TRANS/WP.29/GRE/2013/2,  
ECE/TRANS/WP.29/GRE/2013/9,  
ECE/TRANS/WP.29/GRE/2013/11,  
ECE/TRANS/WP.29/GRE/2013/15,  
ECE/TRANS/WP.29/GRE/2013/20,  
ECE/TRANS/WP.29/2011/99 and Corr.1,  
Informal documents GRE-69-17, GRE-69-29 and GRE-69-36.

8. The expert from GTB introduced GRE-69-17 amended by GRE-69-36 superseding ECE/TRANS/WP.29/GRE/2013/9, clarifying the transitional provisions of Regulation No. 48. The proposal solved the situation set before the adoption of the guidelines on transitional provisions as set in ECE/TRANS/WP.29/1044/Rev.1. The experts confirmed that the specificities of Regulation No. 48 required a small deviation from the transitional provisions' guideline. GRE adopted the proposal as reproduced in Annex III to the report. GRE requested the secretariat to submit the proposal to WP.29 and AC.1 for consideration at their November 2013 sessions as draft Supplement 3 to the 06 series of amendments to Regulation No. 48 (see paras. 6 and 7).

9. The expert from GTB introduced ECE/TRANS/WP.29/GRE/2013/11 proposing to clarify the general provision determining the mounting height of the lamp in paragraph 5.28.4. GRE adopted this proposal (not amended) and, in effort to have this document considered at their June 2013 sessions as draft Supplement 3 to the 06 series of amendments to Regulation No. 48 (see paras. 6, 7 and 8), requested the secretariat to submit it to WP.29 and AC.1 as an informal document. Alternatively, this document would be converted into an official proposal for consideration at their November 2013 sessions.

10. The expert for the Netherlands introduced ECE/TRANS/WP.29/GRE/2013/2 amending the tale tells requirements. GRE agreed to resume consideration on the basis of a revised document at its October 2013 session.

11. The expert from Germany introduced ECE/TRANS/WP.29/GRE/2013/20 on Light Emitting Diodes (LED) modules producing the principal passing beam: to be wired so that the failure of one does not cause all of them to stop emitting light. The expert from OICA introduced GRE-69-29, proposing an alternative proposal. GRE adopted the proposal as reproduced in Annex IV to the report and requested the secretariat to submit it to WP.29 and AC.1 for consideration at their November 2013 sessions as draft Supplement 3 to the 06 series of amendments to Regulation No. 48 (see paras. 6, 7, 8 and 9).

12. The expert from Poland introduced ECE/TRANS/WP.29/GRE/2013/15 proposing an alternative to the existing initial aiming provisions. The experts from France and the United Kingdom requested the author to clarify the aspect linked to the measurements and to specify the measurement method as well as the tools to be used. The expert from the Netherlands supported, in general, the proposal but questioned waiving automatic levelling as an incentive to use this alternative method. GRE agreed to resume consideration on this matter at its October 2013 session on the basis of an updated proposal prepared by the expert from Poland in collaboration with experts from France, the Netherlands and the United Kingdom.

13. GRE agreed to defer consideration of ECE/TRANS/WP.29/2011/99 and Corr.1 (referred back by WP.29) at its October 2013 session.

### C. Other amendments to Regulation No. 48

*Documentation:* ECE/TRANS/WP.29/GRE/2013/39,  
Informal documents GRE-69-09 and GRE-69-25.

14. GRE reconsidered ECE/TRANS/WP.29/GRE/2013/39 tabled by the proposal from Germany, deleting the exemption for vehicles of category M<sub>1</sub> and N<sub>1</sub> on the separation of the position lamps. GRE agreed to continue the discussion on this matter and requested the secretariat to provide a specific agenda item "vehicle signature" for the October 2013 GRE session.

15. GRE noted GRE-69-09 proposing to correct a reference to paragraph 6.22 in paragraph 6.6.7.2. GRE adopted this proposal as reproduced below and requested the secretariat to submit it to WP.29 and AC.1 for consideration at their November 2013 sessions as draft (see paras. 6, 7, 8, 9 and 11):

- (a) Supplement 12 to the 04 series of amendments to Regulation No. 48,
- (b) Supplement 5 to the 05 series of amendments to Regulation No. 48,
- (c) Supplement 3 to the 06 series of amendments to Regulation No. 48.

*Paragraph 6.6.7.2., amend to read:*

"6.6.7.2. The hazard warning signal may be activated automatically in the event of a vehicle being involved in a collision or after the de-activation of the emergency stop signal, as specified in paragraph ~~6.22~~ 6.23. In such cases, it may be turned "off" manually."

16. GRE noted GRE-69-25, proposing to correct the reference to Lamps of category IVA instead of category IV, which doesn't exist. GRE adopted this proposal as reproduced below and requested the secretariat to submit it to WP.29 and AC.1 for consideration at their November 2013 sessions as draft (see paras. 6, 7, 8, 9, 11 and 15):

- (a) Supplement 12 to the 04 series of amendments to Regulation No. 48,

- (b) Supplement 5 to the 05 series of amendments to Regulation No. 48,
- (c) Supplement 3 to the 06 series of amendments to Regulation No. 48.

Paragraph 6.21.1.2.5., amend to read:

"6.21.1.2.5. ...

Where partial fulfilment is deemed acceptable, retro-reflective devices like retro-reflectors of ~~class IV~~ **class IVA** of Regulation No. 3 ..."

## **VI. Collective amendments (agenda item 5)**

### **A. Simplification of the approval markings**

17. The expert from GTB reported on the work progress of the informal group on Database for the Exchange of Type Approval documentation (DETA). The informal working group on DETA sought endorsement of WP.29 for its proposal to establish the DETA proposal as defined in its preliminary report. GRE endorsed the establishment of such a Database, as a condition sine qua none for simplifying of the approval marking and agreed to keep this item on the agenda.

### **B. Phantom light and colour washout phenomena in signalling and marking devices**

18. The expert from Germany reported on progress in research on the above subject. GRE agreed to defer discussion on this subject to its October 2013 session, on the basis of official proposals.

### **C. Regulations Nos. 4, 6, 7, 23, 38, 50, 77, 87, 91 and 119**

*Documentation:* ECE/TRANS/WP.29/GRE/2013/17,  
(Informal documents GRE-68-06).

19. The expert from Germany introduced ECE/TRANS/WP.29/GRE/2013/17, proposing requirements on the use of non-replaceable filament lamps in light sources modules and signalling lamps and referencing to paragraph 2.11 of the IEC 60809, Edition 3 standard. The Chair noted that this standard was not final. He recalled GRE-68-06 reproducing the relevant part of the draft standard. The expert from IEC confirmed that the IEC standard was now final and the proposed text was in compliance with the final text of the standard. The Chair reminded experts of their responsibility to ensure proper use of standards covered by copyrights in their proposals. GRE adopted ECE/TRANS/WP.29/GRE/2013/17 (not amended) and requested the secretariat to submit it to WP.29 and AC.1 for consideration at their November 2013 session as draft:

- (a) Supplement 17 to the 00 series of amendments to Regulation No. 4;
- (b) Supplement 25 to the 01 series of amendments to Regulation No. 6;
- (c) Supplement 23 to the 02 series of amendments to Regulation No. 7;
- (d) Supplement 20 to the 00 series of amendments to Regulation No. 23;
- (e) Supplement 17 to the 00 series of amendments to Regulation No. 38;
- (f) Supplement 17 to the 00 series of amendments to Regulation No. 50;
- (g) Supplement 17 to the 00 series of amendments to Regulation No. 77;
- (h) Supplement 17 to the 00 series of amendments to Regulation No. 87;

- (i) Supplement 17 to the 00 series of amendments to Regulation No. 91;
- (j) Supplement 4 to the 01 series of amendments to Regulation No. 119.

**D. Regulations Nos. 3, 4, 6, 7, 19, 23, 38, 65, 69, 70, 77, 87, 91, 98, 112, 113 and 119.**

*Documentation:* ECE/TRANS/WP.29/GRE/2013/21,  
ECE/TRANS/WP.29/GRE/2013/22,  
ECE/TRANS/WP.29/GRE/2013/23,  
ECE/TRANS/WP.29/GRE/2013/24,  
ECE/TRANS/WP.29/GRE/2013/25,  
ECE/TRANS/WP.29/GRE/2013/26,  
ECE/TRANS/WP.29/GRE/2013/27,  
ECE/TRANS/WP.29/GRE/2013/28,  
ECE/TRANS/WP.29/GRE/2013/29,  
ECE/TRANS/WP.29/GRE/2013/30,  
ECE/TRANS/WP.29/GRE/2013/31,  
ECE/TRANS/WP.29/GRE/2013/32,  
ECE/TRANS/WP.29/GRE/2013/33,  
ECE/TRANS/WP.29/GRE/2013/34,  
ECE/TRANS/WP.29/GRE/2013/35,  
ECE/TRANS/WP.29/GRE/2013/36,  
ECE/TRANS/WP.29/GRE/2013/37,  
Informal documents GRE-69-33, GRE-69-34 and GRE-69-35.

20. The expert from Germany introduced the documents listed above, proposing simplifications of Conformity of Production (COP) requirements for these Regulations. The expert from the Netherlands expressed concerns that these proposals might introduce excessive tolerances by deleting the statistical confidence of 95 per cent requirement. The expert from Germany introduced GRE-69-33, GRE-69-34 and GRE-69-35 respectively amending ECE/TRANS/WP.29/GRE/2013/23, ECE/TRANS/WP.29/GRE/2013/24 and ECE/TRANS/WP.29/GRE/2013/31, as reproduced in Annex V. GRE adopted these three proposals as amended by Annex V to the report as well as the remaining proposals (not amended), and requested the secretariat to submit it to WP.29 and AC.1 for consideration at their November 2013 sessions as draft (see para. 19 item (a) to (j)):

- (a) Supplement 15 to the 02 series of amendments to Regulation No. 3,
- (b) Supplement 17 to the 00 series of amendments to Regulation No. 4,
- (c) Supplement 25 to the 01 series of amendments to Regulation No. 6,
- (d) Supplement 23 to the 02 series of amendments to Regulation No. 7,
- (e) Supplement 6 to the 04 series of amendments to Regulation No. 19,
- (f) Supplement 20 to the 00 series of amendments to Regulation No. 23,
- (g) Supplement 27 to the 00 series of amendments to Regulation No. 38,
- (h) Supplement 9 to the 00 series of amendments to Regulation No. 65,
- (i) Supplement 6 to the 01 series of amendments to Regulation No. 69,
- (j) Supplement 9 to the 01 series of amendments to Regulation No. 70,
- (k) Supplement 17 to the 00 series of amendments to Regulation No. 77,
- (l) Supplement 17 to the 00 series of amendments to Regulation No. 87,
- (m) Supplement 17 to the 00 series of amendments to Regulation No. 91,
- (n) Supplement 5 to the 01 series of amendments to Regulation No. 98,
- (o) Supplement 3 to the 01 series of amendments to Regulation No. 113,
- (p) Supplement 4 to the 01 series of amendments to Regulation No. 119,
- (q) Supplement 5 to the 01 series of amendments to Regulation No. 112.

### **E. Regulations Nos. 19, 48 and 98**

*Documentation:* ECE/TRANS/WP.29/GRE/2013/19,  
Informal document GRE-69-32-Rev 1.

21. The expert from Germany introduced ECE/TRANS/WP.29/GRE/2013/19 deleting remaining provisions regarding distributed lighting systems (DLS) to avoid potential misinterpretations of the provisions. France and Italy expressed their objections to this proposal. The expert from Austria introduced GRE-69-32-Rev. 1 amending the proposal from Germany. GRE adopted ECE/TRANS/WP.29/GRE/2013/19 as amended by Annex VI to the report and requested the secretariat to submit it to WP.29 and AC.1 for consideration at their November 2013 sessions as draft (see paras. 6, 7, 9, 11, 15 and 16):

- (a) Supplement 6 to the 04 series of amendments to Regulation No. 19,
- (b) Supplement 3 to the 06 series of amendments to Regulation No. 48,
- (c) Supplement 5 to the 01 series of amendments to Regulation No. 98.

### **F. Regulations Nos. 5, 31 and 48**

*Documentation:* ECE/TRANS/WP.29/GRE/2013/5,  
Informal documents GRE-69-37 and GRE-69-38.

22. The expert from GTB introduced ECE/TRANS/WP.29/GRE/2013/5, proposing to cease the granting of new type approvals to the "Sealed Beam" headlamps and to correct the title of Regulation No. 31. The expert from Italy introduced GRE-69-37 amending the original proposal. He also introduced GRE-69-38 proposing similar amendments to Regulations Nos. 53 and 74. GRE requested the secretariat to distribute GRE-69-38 with an official symbol at its October 2013 session. GRE adopted ECE/TRANS/WP.29/GRE/2013/5 as amended by Annex VII to the report and requested the secretariat to submit it to WP.29 and AC.1 for consideration at their November 2013 sessions as draft (see paras. 6, 7, 9, 11, 15 and 16):

- (a) new 03 series of amendments to Regulation No. 5;
- (b) new 03 series of amendments to Regulation No. 31;
- (c) Supplement 3 to the 06 series of amendments to Regulation No. 48.

### **G. Regulations Nos. 48 and 112**

*Documentation:* ECE/TRANS/WP.29/GRE/2013/18.

23. The expert from Germany introduced ECE/TRANS/WP.29/GRE/2013/18 aiming to avoid intentional (voltage) variation of passing beam, using halogen light sources. Agreeing that the proposed wording would be in contradiction with adaptive front light systems, the expert agreed to update his proposal. GRE agreed to resume consideration on this matter on the basis of an updated formal proposal, which the expert from Germany volunteered to prepare for the October 2013 session of GRE.

### **H. Regulations Nos. 98, 112 and 123**

*Documentation:* ECE/TRANS/WP.29/GRE/2013/10.

24. The expert from GTB introduced ECE/TRANS/WP.29/GRE/2013/10, updating the heat resistance test requirements. GRE adopted this proposal (not amended) and requested



the secretariat to submit it to WP.29 and AC.1 for consideration at their November 2013 sessions as draft (see paras. 20 and 21):

- (a) Supplement 5 to the 01 series of amendments to Regulation No. 98,
- (b) Supplement 5 to the 01 series of amendments to Regulation No. 112,
- (c) Supplement 5 to the 01 series of amendments to Regulation No. 123.

#### **I. Regulations Nos. 3, 4, 6, 7, 19, 23, 38, 50, 69, 70, 77, 82, 87, 89, 91, 104, 112, 113, 119 and 123**

*Documentation:* ECE/TRANS/WP.29/GRE/2013/16,  
Informal documents GRE-69-18, GRE-69-19 and GRE-69-20.

25. GRE considered ECE/TRANS/WP.29/GRE/2013/16, introduced by the experts from Austria and Poland, clarifying the obligation of compliance with the installations requirements of devices which obtained type approval according to the component regulations. The expert from Italy introduced GRE-69-20, providing an alternative wording. GRE didn't support ECE/TRANS/WP.29/GRE/2013/16. GRE agreed to resume consideration on this matter on the basis of a revised proposal, which the expert from Italy volunteered to prepare on the basis of GRE-69-20, for the October 2013 session of GRE.

#### **J. Regulations Nos. 6, 7 and 48**

*Documentation:* ECE/TRANS/WP.29/GRE/2013/13,  
ECE/TRANS/WP.29/GRE/2013/14,  
Informal documents GRE-69-18, GRE-69-19, GRE-69-27,  
GRE-69-28 and GRE-69-30.

26. GRE considered two proposals introduced by the experts of France and Germany, ECE/TRANS/WP.29/GRE/2013/13 and ECE/TRANS/WP.29/GRE/2013/14, introducing provisions for variations of the apparent surface of direction indicators. The expert from OICA introduced amendments to the proposals (GRE-69-27 and GRE-69-28). Introducing GRE-69-18 and GRE-69-19, the expert from the Netherlands expressed the concern about the lack of signal uniformity that this proposal would create. GRE requested an assessment of impact upon safety relating to direction indicators with variable apparent surface. The majority of experts from Contracting Parties opposed the proposal made by Germany and France but agreed to resume consideration on this issue on the basis of a revised proposal by the experts from France and Germany. GRE agreed to keep GRE-69-17, GRE-69-18 and GRE-69-30 on the agenda of its October 2013 session.

#### **K. Regulations Nos. 38 and 87**

*Documentation:* (ECE/TRANS/WP.29/GRE/2012/36,  
Informal document GRE-68-25.)

27. In the absence of new documents, GRE agreed to delete this agenda item.

### **VII. Draft Horizontal Reference Document for light-signalling devices (agenda item 6)**

*Documentation:* (ECE/TRANS/WP.29/GRE/2008/32,  
Informal documents GRE-66-13, GRE-66-14 and GRE-69-14.)

28. Following the decision to suspend the work of the informal working group (see ECE/TRANS/WP.29/GRE/67, para. 34), GRE had agreed that this subject might be resumed in the framework of the future activities on the International Whole Vehicle Type Approval (IWVTA) and the development of the "Regulation No. 0" (if needed) and to keep as reference ECE/TRANS/WP.29/GRE/2008/32, GRE-66-13 GRE-66-14 and GRE-69-14 on the agenda.

29. The expert from the EC introduced GRE-69-14 proposing a new approach for the Lighting and Light-Signalling Regulations, which is inspired by the former idea of a horizontal reference document and the proposal made by GTB at the 158<sup>th</sup> WP.29 session. GRE agreed to create a Special Interest Group, which shall define the terms of reference of a new Informal Working Group.

### **VIII. Regulation No. 7 (Position, stop and end-outline lamps) (agenda item 7)**

*Documentation:* (ECE/TRANS/WP.29/GRE/2012/30),  
Informal document GRE-69-31.

30. GRE considered GRE-69-31 tabled by the expert from China, agreed to resume consideration on this matter and requested the secretariat to distribute GRE-69-31 with an official symbol at its October 2013 session.

### **IX. Regulation No. 6 (Direction indicator) (agenda item 8)**

*Documentation:* (ECE/TRANS/WP.29/GRE/2012/31).

31. In the absence of revised proposal from the GTB expert, GRE agreed to delete this agenda item.

### **X. Regulation No. 112 (Headlamps emitting an asymmetrical passing beam) (agenda item 9)**

*Documentation:* ECE/TRANS/WP.29/GRE/2011/35.

32. GRE reconsidered ECE/TRANS/WP.29/GRE/2011/35 tabled by the expert from China. The expert from SAE reported on the work progress of his organization on this matter. GRE agreed to resume discussion on this item at its October 2013 session awaiting the work outcome of SAE.

### **XI. Regulation No. 10 (Electromagnetic compatibility) (agenda item 10)**

*Documentation:* ECE/TRANS/WP.29/GRE/2013/3 and Corr. 1,  
Informal document GRE-69-26-Rev. 1.

33. The expert from OICA introduced ECE/TRANS/WP.29/GRE/2013/3 and Corr. 1 proposing to update the electromagnetic compatibility requirements for electrical vehicles. It was noted the absence of justification for raising the COP tolerance. GRE adopted the proposal ECE/TRANS/WP.29/GRE/2013/3 as amended by its Corr. 1 and a correction noted below. GRE requested the secretariat to submit it to WP.29 and AC.1 for consideration at their November 2013 sessions as draft 05 series of amendments to Regulation No. 10.

Appendix 8, figure 1, HV artificial network, R2 value in the table, amend to read:

"R<sub>2</sub>: ~~1 M $\Omega$  + 100k $\Omega$~~  (discharging C<sub>2</sub> to < 50 V<sub>dc</sub> within 60 s)"

34. The Expert from OICA introduced GRE-69-26 Rev.1 proposing corrections to ECE/TRANS/WP.29/GRE/2013/3 and its Corr. 1. GRE agreed to resume consideration of GRE-69-26 Rev.1 on the basis of a revised document that the expert from OICA volunteered to prepare for the October 2013 session of GRE.

## **XII. Regulation No. 23 (Reversing Lamps) (agenda item 11)**

*Documentation:* ECE/TRANS/WP.29/GRE/2013/4.

35. The expert from the Netherlands withdrew ECE/TRANS/WP.29/GRE/2013/4. GRE agreed to delete this agenda item.

## **XIII. Regulation No. 27 (Advance warning triangle) (agenda item 12)**

*Documentation:* (ECE/TRANS/WP.29/GRE/2011/46,  
ECE/TRANS/WP.29/GRE/2012/25).

36. The expert from GTB informed GRE about the work progress made by its organization on this matter, combining the approach from CLEPA (ECE/TRANS/WP.29/GRE/2012/25) and GTB (ECE/TRANS/WP.29/GRE/2011/46). GRE agreed to reconsider this agenda item at its October 2013 session on the basis of a formal document that the expert from Germany volunteered to prepare.

## **XIV. Regulation No. 65 (Special warning lamps) (agenda item 13)**

*Documentation:* (ECE/TRANS/WP.29/GRE/2011/48).

37. GRE reconsidered ECE/TRANS/WP.29/GRE/2011/48 tabled by the expert of SAE, clarifying the execution of the design and test requirements. The expert from SAE confirmed that SAE is cooperating with GTB on this issue. GRE agreed to resume consideration on this subject at its October 2013 session.

## **XV. Regulation No. 86 (Installation of lighting and light-signalling devices for agricultural tractors) (agenda item 14)**

*Documentation:* ECE/TRANS/WP.29/GRE/2013/12,  
Informal documents GRE-69-02, GRE-69-03 and GRE-69-21.

38. The expert from CEMA introduced GRE-69-02 proposing several amendments to the Regulation No. 86. GRE agreed to set up an informal group on Agricultural Vehicle Lighting Installation (AVLI) to deal with this item. The experts from Germany and the Netherland were proposed to serve as co-Chair. The expert from CEMA was proposed to serve as the Secretary to the informal group. The first session of the AVLI informal group was scheduled to be held in Bonn, Germany, on 19 June 2013. GRE requested the AVLI informal group to draft a proposal for the Terms of Reference of the informal working group for its October 2013 session and to consider GRE-69-02, GRE-69-03 and GRE-69-21.

## **XVI. Conspicuity of motorcycles (agenda item 15)**

39. In the absence of proposals, GRE agreed to postpone this discussion to its October 2013 session.

## **XVII. Other business (agenda item 16)**

### **A. Amendments to the Convention on Road Traffic (Vienna 1968)**

*Documentation:* Informal document GRE-69-22.

40. The Secretary of the Working Party on Road Traffic Safety (WP.1) reported on the progress made by WP.1 during its March 2013 session, particularly on updating the new draft Annex 5 to the Vienna Convention, dealing with vehicle lighting and light-signalling. The first reading of this draft was finalized. WP.1 was expected to finish the second reading within the next two or three sessions. GRE offered its assistance to WP.1, if needed, concluding its reading and deliberations. GRE noted the brief notes (GRE-69-22) on this matter provided by the expert from Germany.

### **B. Intelligent Transport Systems (ITS)**

*Documentation:* Informal document WP.29-157-06 and GRE-68-23.

41. Referring to the request of WP.29 at its June 2012 session (see ECE/TRANS/WP.29/1097, para. 14) to provide comments on WP.29-157-06 (Design principles for control systems of ADAS), GRE endorsed GRE-68-23.

### **C. Decade of action for road safety 2011-2020**

42. The Secretary to WP.1 informed GRE about the second United Nation Global Road Safety Week scheduled from 6 to 12 May 2013 in Geneva. He announced the highlights prepared for the week: 4 events, an exhibition, a poster as well as a simulator on the effect of fatigue on drivers. He invited GRE experts to attend to the United Nation Global Road Safety Week.

### **D. Development of an international whole vehicle type approval (IWVTA)**

*Documentation:* Informal documents WP.29-156-21-Rev.1, GRE-69-15, GRE-69-16, GRE-69-23 and GRE-69-24.

43. The GRE Ambassador on IWVTA activities introduced GRE-69-15 and GRE-69-16 on how GRE shall address the IWVTA related items. GRE noted that some of the component regulations were missing in the list proposed in GRE-69-15. GRE requested its Ambassador to submit an updated presentation for its October 2013 session.

44. The expert from Japan introduced GRE-69-23 proposing amendments to Regulation No. 4 taking into account national specificities of the Japanese registration plate. GRE wondered if it was necessary to add a new specific plate category into Regulation No. 4 or if an amendment of the existing dimensions would solve Japan's issue. GRE agreed to revisit this item at its October session, based on an updated proposal that the expert from Japan volunteered to prepare.

45. The expert from Japan introduced GRE-69-24 proposing amendments to Regulation No. 48 taking into account specificities of the Japanese climate and Daytime Running

Lamps (DRL), Rear Fog Lamps (RFL) and Headlamp cleaners (HLC) mandatory fitment. GRE noted that Regulation No. 48 already contained a provision in Footnote 14 allowing Contracting Parties not applying Regulation No. 87 (DRL) to prohibit the installation of DRL. GRE agreed to reconsider this subject at its October 2013 session on the basis of a revised proposal that the expert from Japan volunteered to prepare.

## E. 1997 Agreement

*Documentation:* ECE/TRANS/WP.29/2013/32,  
ECE/TRANS/WP.29/2013/64.

46. The expert from the Russian Federation introduced ECE/TRANS/WP.29/2013/32 and ECE/TRANS/WP.29/2013/64 proposing amendments to UN Rule No. 1 and UN Rule No. 2. GRE supported both documents without amendments.

## F. Other business

*Documentation:* ECE/TRANS/WP.29/2012/84  
Informal documents GRE-69-04, GRE-69-06, GRE-69-07,  
GRE-69-10, GRE-69-11, GRE-69-12, and GRE-69-13.

47. The expert from IMMA introduced GRE-69-04 proposing an amendment to Regulation No. 113 as adopted at the November 2012 session of WP.29. GRE requested the secretariat to take into account the amendments reproduced below, when preparing the final version of ECE/TRANS/WP.29/2012/84.

*Paragraph 5.3.1, amend to read:*

"5.3.1. Headlamps shall be equipped with filament lamp(s) approved according to Regulation No. 37 and/or, ~~for headlamps of class C or D,~~ with (an) LED module(s)..."

*Paragraph 5.3.3.3, amend to read:*

"5.3.3.3. The total objective luminous flux of all LED modules producing the principal passing beam shall be measured as described in paragraph 5. of Annex 12. The following minimum and maximum limits shall apply:

	<i>Headlamps</i>			
	<i>Class A</i>	<i>Class B</i>	<i>Class C</i>	<i>Class D</i>
Principal passing beam minimum	<b>150 lumen</b>	<b>350 lumen</b>	500 lumen	1 000 lumen
Principal passing beam maximum	<b>900 lumen</b>	<b>1 000 lumen</b>	2 000 lumen	2 000 lumen

48. The expert from Germany introduced GRE-69-06 proposing an editorial amendment to Regulation No. 19. GRE adopted this proposal as reproduced below and requested the secretariat to submit it to WP.29 and AC.1 for consideration at their November 2013 sessions as draft to Supplement 5 to the 04 series of amendments to Regulation No. 19.

Line 6 in the table of paragraph 6.4.3., amend to read:

"

Line 6 ***	-2.5°	<del>5° inwards to 10° outwards</del> -10° to +10°	2 700 min	All line
------------	-------	---	-----------	----------

"

49. The expert from Germany introduced GRE-69-07 proposing an editorial amendment to Regulation No. 19. GRE adopted this proposal as reproduced below and requested the secretariat to submit it to WP.29 and AC.1 for consideration at their November 2013 sessions as draft to Supplement 4 to the 03 series of amendments to Regulation No. 19.

Line 6 in the table of Paragraph 6.4.3., amend to read:

"

Line 6 ***	-2.5°	- 10° to + 10°	<del>2,700 min</del> 2 000 min	All line
------------	-------	----------------	-----------------------------------	----------

"

50. The expert from China introduced GRE-69-10 and GRE-69-10-Rev.1 announcing the International Forum on Automotive Lighting (IFAL) conference in Kunshan, China, scheduled from 19 to 21 June 2013. He invited the GRE experts to participate.

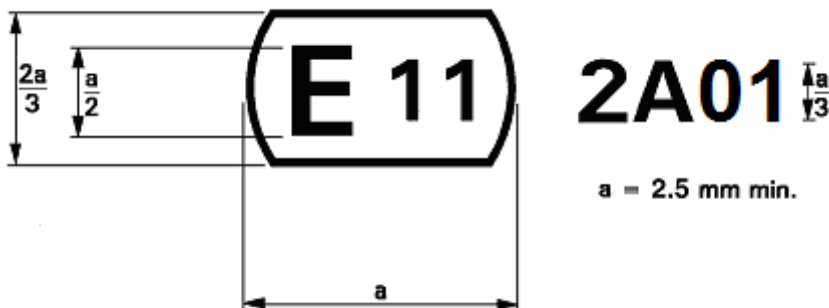
51. The expert from Germany introduced GRE-69-11 proposing to extend the range of possible combinations for identification codes into Regulation No 37. GRE adopted this proposal as reproduced below and requested the secretariat to submit it to WP.29 and AC.1 for consideration at their November 2013 sessions as draft to Supplement 42 to Regulation No 37.

Paragraph 2.4.2., amend to read:

"2.4.2. This will be followed by an identification code comprising not more than **three** characters. Only the Arabic numerals and capital letters listed in footnote 3 shall be used ..."

Annex 3, amend to read:

ANNEX 3  
EXAMPLE OF THE ARRANGEMENT OF THE APPROVAL MARK  
(see paragraph 2.4.3)



52. The expert from Germany introduced GRE-69-12 proposing to extend the range of possible combinations for identification codes into Regulation No 99. GRE adopted this proposal as reproduced below and requested the secretariat to submit it to WP.29 and AC.1

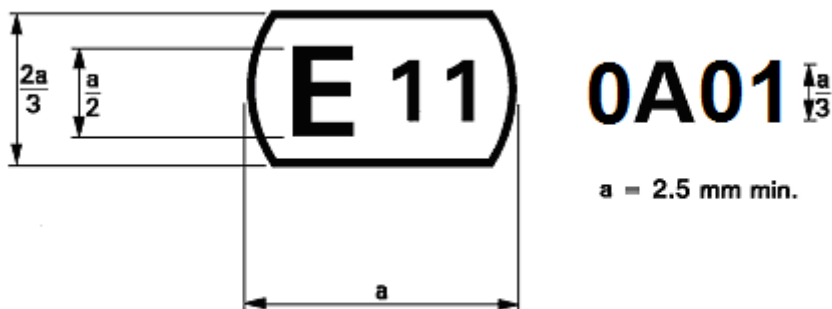
for consideration at their November 2013 sessions as draft to Supplement 8 to Regulation No. 99.

*Paragraph 2.4.2.*, amend to read:

"2.4.2. ... This will be followed by an identification code comprising not more than **three** characters. Only the Arabic numerals and capital letters listed in footnote 1 shall be used."

*Annex 3*, amend to read:

"ANNEX 3  
EXAMPLE OF THE ARRANGEMENT OF THE APPROVAL MARK  
(see paragraph 2.4.4)



The above approval mark affixed to a gas-discharge light source indicates that the light source has been approved in the United Kingdom (E11) under the approval code 0A01. The first character of the approval code indicates that the approval was granted in accordance with the requirements of Regulation No. 99 in its original form."

53. The expert from Germany introduced GRE-69-13 proposing to extend the range of possible combinations for identification codes into Regulation No. 128. GRE adopted this proposal as reproduced below and requested the secretariat to submit it to WP.29 and AC.1 for consideration at their November 2013 sessions as draft to Supplement 2 to Regulation No 128.

*Paragraph 2.4.2.*, amend to read:

"2.4.2. ... This will be followed by an identification code comprising not more than **three** characters. Only the following Arabic numerals and capital letters shall be used:

"0 1 2 3 4 5 6 7 8 9 A B C D E F G H J K L M N P R S T U V W X Y Z".

..."

*Annex 3*, amend to read:

"ANNEX 3  
EXAMPLE OF THE ARRANGEMENT OF THE APPROVAL MARK  
(see paragraph 2.4.4)



The above approval mark affixed to a LED light source indicates that the light source has been approved in the United Kingdom (E11) under the approval code 0A01. The first character of the approval code indicates that the approval was granted in accordance with the requirements of Regulation No. 128\* in its original form."

### **XVIII. Direction for future GRE Work (agenda item 17)**

#### **A. Work task of GRE**

54. The work task of GRE was discussed in conjunction with Item 6.

#### **B. Work progress of Working Party "Brussels 1952" task forces**

*Documentation:* Informal documents GRE-69-39, GRE-69-40 and GRE-69-41.

55. The expert from GTB introduced GRE-69-39, reporting on the exchange of view between GTB and the National Highway Traffic Safety Agency (NHTSA) on new headlighting technologies. He introduced GRE-69-40, a status report of the activities of the GTB task force dealing with COP requirements and Regulation No. 123. He introduced GRE-69-41 reporting on the feasibility study on performance based requirements and the rationales for excluding the Light Source Regulations from the study. He also reported on the feasibility of LED retrofit, listing the challenges expected and calling for input and guidance by GRE.

### **XIX. Vice-Chair election and tributes (agenda item 18)**

56. The Chairman of GRE, Mr. M. Gorzkowski (Canada), informed GRE about the intention of Canada to no longer chair GRE. He invited the GRE experts to apply as Chair or vice-Chair to GRE for 2014. In case a new Chair would be elected, he would volunteer to be candidate as a vice-Chair.

57. GRE was informed that Mr. A Burrows would no longer attend GRE. GRE thanked him for his excellent contributions and wished him all the best in his new responsibilities.

### **XX. Provisional agenda for the next session (agenda item 19)**

58. GRE agreed on a provisional agenda reproduced below for the seventieth session of GRE, scheduled to be held from 21 (a.m.) to 23 (p.m.) October 2013. GRE noted that the deadline for submission of official documents to the UNECE secretariat was 22 July 2013, twelve weeks prior to the session.



## Provisional agenda for the seventieth GRE session

1. Adoption of the agenda.
2. Development of new global technical regulations.
3. Regulation No. 37 (Filament lamps).
4. Regulation No. 48 (Installation of lighting and light-signalling devices):
  - (a) Proposal for amendments to the 04, 05 and 06 series of amendments;
  - (b) Proposal for amendments to the 06 series of amendments;
  - (c) Other amendments to Regulation No. 48;
  - (d) Vehicle signature.
5. Collective amendments:
  - (a) Simplification of the approval markings;
  - (b) Phantom light and colour washout phenomena in signalling and marking devices;
  - (c) Regulations Nos. 53 and 74;
  - (d) Regulations Nos. 48 and 112;
  - (e) Regulations Nos. 3, 4, 6, 7, 19, 23, 38, 50, [69], [70], 77, 82, 87, 89, 91, [104], 112, 113, 119 and 123.
  - (f) Regulations Nos. 6 and 48;
6. Draft Horizontal Reference Document for light-signalling devices.
7. Regulation No. 7 (Position, stop and end-outline lamps).
9. Regulation No. 112 (Headlamps emitting an asymmetrical passing beam).
10. Regulation No. 10 (Electromagnetic compatibility).
11. Regulation No. 27 (Advance warning triangle).
12. Regulation No. 65 (Special warning lamps).
13. Regulation No. 86 (Installation of lighting and light-signalling devices for agricultural tractors).
14. Conspicuity of motorcycles.
15. Other business:
  - (a) Amendments to the Convention on Road Traffic (Vienna 1968);
  - (b) Decade of action for road safety 2011-2020;
  - (c) Development of an International Whole Vehicle Type Approval (IWVTA);
  - (d) Other business.
16. Direction for future GRE work:
  - (a) Work tasks of GRE;
  - (b) Work progress of Working Party "Brussels 1952" task forces.
17. Election of officers.

## Annex I

## List of informal documents considered during the session

## List of informal documents (GRE-69-...) of the session (English only)

<i>No.</i>	<i>(Author) Title</i>	<i>Follow-up</i>
1r1	(Secretariat) Revised provisional agenda for the sixty-ninth session of GRE	(f)
2	(CEMA) Risk of tractors in road traffic	(f)
3r1	(CEMA) Revision of Regulation No. 86	(f)
4	(IMMA) Revised proposal for amendment to ECE/TRANS/WP.29/GRE/2012/15	(f)
5	(IEC) Proposal for Supplement 42 to the 03 series of amendments of Regulation No. 37	(a)
6	(Germany) Proposal for Editorial Correction (Corrigendum) to Regulation No. 19, rev6am1e	(a)
7	(Germany) Proposal for Editorial Correction (Corrigendum) to Regulation No. 19, rev6am1e	(a)
8	(Secretariat) Correction to the justification section of ECE/TRANS/WP.29/GRE/2013/7	(f)
9	(Secretariat) Proposal for amendments to Regulation No. 48	(a)
10	(Chair) IFAL announcement	(f)
11	(Germany) Proposal for Supplement [42] to the 03 series of amendments of Regulation No. 37	(a)
12	(Germany) Proposal for Supplement [42] to the 00 series of amendments of Regulation No. 99	(a)
13	(Germany) Proposal for Supplement [42] to the 00 series of amendments of Regulation No. 128	(a)
14	(European Commission) Proposal for discussion to the members of GRE. New approach for lighting Regulations	(d)
15	(European Commission) Discussion paper. Priority of discussion on technical requirements for IWVTA and draft report to IWVTA informal meeting	(f)
16	(European Commission) Candidate items for Technical Regulations & Guidelines for GRs to review technical regulations available to IWVTA	(f)
17	(GTB) Proposal for editorial correction to ECE/TRANS/WP.29/GRE/2013/09	(b)
18	(The Netherlands and the United Kingdom) Proposal for Supplement 25 to the 01 series of amendments to Regulation No. 6 (Direction indicators)	(d)
19	(The Netherlands and the United Kingdom) Proposal for Supplement 3 to the 06 series of amendments to Regulation No. 48 (Installation of lighting and light-signalling devices)	(d)
20	(Italy) Collective amendments to Regulations Nos. 3, 4, 6, 7, 19, 23, 38, 50, [69], [70], 77, 82, 87, 89, 91, [104], 112, 113, 119, 123	(e)
21	(Italy) Proposal for amendment to document ECE/TRANS/WP.29/GRE/2013/12	(d)
22	(Germany) Brief notes on the 65 <sup>th</sup> WP.1 session	(f)
23r1	(Japan) Proposal for Supplement 17 to the 00 series of amendments to Regulation No. 4 (Rear registration plate lamps)	(e)
24r1	(Japan) Proposal for Supplement X to the 06 series of amendments to Regulation No. 48 (Installation of lighting and light-signalling devices) for development of IWVTA	(e)
25	(OICA) Proposal for a Corrigendum to Regulation No. 48	(a)
26	(OICA) Proposal for amendments to ECE/TRANS/WP.29/GRE/2013/3 (Regulation No. 10)	(c)

<i>No.</i>	<i>(Author) Title</i>	<i>Follow-up</i>
27	(OICA) Proposal for amendments to ECE/TRANS/WP.29/GRE/2013/14 (Supplement 12 to the 04 series of amendments, Supplement 5 to the 05 series of amendments, Supplement 3 to the 06 series of amendments to Regulation No. 48)	(d)
28	(OICA) Proposal for amendments to ECE/TRANS/WP.29/GRE/2013/13 (Supplement 25 to the 01 series of amendments to Regulation No. 6 (direction indicators)	(d)
29	(OICA) Proposal for amendments to ECE/TRANS/WP.29/GRE/2013/20 (Regulation No. 48)	(a)
30	(India) Comments on document ECE/TRANS/WP.29/GRE/2013/14	(d)
31	(China) Proposal for Supplement 22 to the 02 series of amendments to Regulation No. 7 (Position, stop and end-outline lamps)	(c)
32r1	(Austria) Proposal for amendments to ECE/TRANS/WP.29/GRE/2013/19	(a)
33	(Germany) Proposal for amendments to ECE/TRANS/WP.29/GRE/23	(a)
34	(Germany) Proposal for amendments to ECE/TRANS/WP.29/GRE/24	(a)
35	(Germany) Proposal for amendments to ECE/TRANS/WP.29/GRE/31	(a)
36	(GTB) Proposal for editorial correction to GRE-69-17 (Proposal for Supplement 3 to the 06 Series of Regulation No. 48)	(b)
37	(Italy) Proposal for amendments to Regulation No. 48	(a)
38	(Italy) Collective amendments to Regulations Nos. 53 and 74	(c)
39	(GTB) Status report on GTB Mirror Working Group SAE	(f)
40	(GTB) Status report on GTB Task Force Conformity of Production (TF CoP)	(f)
41	(GTB) Status report on GTB working group light sources	(f)
42	(Germany) Revised proposal on the base of ECE/TRANS/WP.29/GRE/2013/18	(c)
43	(OICA) Some examples of variable DIs (1)	(f)
44	(OICA) Some examples of variable DIs (2)	(f)
45	(OICA) Some examples of variable DIs (3)	(f)

*Notes:*

- (a) Adopted with no change for consideration at WP.29.
- (b) Adopted with changes for consideration at WP.29.
- (c) Resume consideration on the basis of an official document.
- (d) Kept as reference document/continue consideration.
- (e) Revised proposal for the next session.
- (f) Consideration completed or to be superseded.

## Annex II

### GRE informal groups

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<i>Informal group</i>	<i>Chair</i>	<i>Secretary</i>
[Agricultural Vehicle Lighting Installation (AVLI)]	Mr. G. Kellermann (Germany) Phone: +49 228 300 43 04 Fax: +49 228 300 807 43 04 E-mail: gerd.kellermann@bmvbs.bund.de <i>and</i> Mr. Derwin Rovers Phone: +31 793458230 Fax: +31 793458041 E-mail: drovers@rdw.nl	Mr. Andreas Schauer (CEMA) Phone: +49 69 66 01 1308 Fax: +49 69 66 03 1464 E-mail: andreas.schauer@vdma.org

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## Annex III

### Reproduction of the text agreed by GRE under agenda item 4(b) (i) (see para. 8)

*Paragraphs 12. to 12.27., to be deleted.*

*New paragraphs 12. to 12.27., to read:*

#### "12. Transitional provisions

##### 12.1 General

- 12.1.1. As from the official date of entry into force of the most recent series of amendments, no Contracting Party applying this Regulation shall refuse to grant approval under this Regulation as amended by this most recent series of amendments.
- 12.1.2. As from the official date of entry into force of the most recent series of amendments, no Contracting Party applying this Regulation shall refuse national or regional type approval to a vehicle type approved under this Regulation as amended by this most recent series of amendments.
- 12.1.3. During the time period from the official date of entry into force of the most recent series of amendments and its mandatory application to new type approvals, Contracting Parties applying this Regulation shall continue to grant approvals to those types of vehicles which comply with the requirements of this Regulation as amended by **all the applicable** preceding series of amendments.
- 12.1.4. Existing approvals under this Regulation granted before the date of mandatory application of the most recent series of amendment shall remain valid indefinitely and Contracting Parties applying this Regulation shall continue to recognize them and shall not refuse to grant extensions of approvals to them (except for what indicated in paragraph 12.1.5. below).
- 12.1.5. When the vehicle type approved to **any of** the preceding series of amendments meets the requirements of this Regulation as amended by the most recent series of amendments, the Contracting Party which granted the approval shall notify the other Contracting Parties applying this Regulation thereof.
- 12.1.6. Notwithstanding paragraph 12.1.4. above, Contracting Parties whose application of this Regulation comes into force after the date of entry into force of the most recent series of amendments are not obliged to accept approvals which were granted in accordance with any of the preceding series of amendments to this Regulation.
- 12.1.7. Until the United Nations Secretary-General is notified otherwise, Japan declares that in relation to the installation of lighting and light signalling devices, Japan will only be bound by the obligations of the Agreement to which this Regulation is annexed with respect to vehicles of categories M<sub>1</sub> and N<sub>1</sub>.

## 12.2. Transitional provisions applicable to 03 series of amendments.

Contracting Parties applying this Regulation:

- (a) from 10 October 2007 (12 months after the date of entry into force), shall grant approvals only if the vehicle type to be approved meets the requirements of this Regulation as amended by the 03 series of amendments;
- (b) up to 09 October 2009 (36 months after the date of entry into force) shall not refuse national or regional type approval of a vehicle type approved to **any of** the preceding series of amendments to this Regulation.
- (c) from 10 October 2009 (36 months after the entry into force) may refuse first national or regional entry into service of a vehicle of categories N<sub>2</sub> (with a maximum mass exceeding 7.5 tonnes), N<sub>3</sub>, O<sub>3</sub> and O<sub>4</sub> exceeding 2100 mm in width (for rear markings) and exceeding 6000 mm in length (for side markings), **except** tractors for semi-trailers and incomplete vehicles, which **do** not meet the requirements of the 03 series of amendments to this Regulation.
- (d) notwithstanding paragraph 12.1.4., from 10 October 2011 (60 months after the date of entry into force) shall no more recognize approvals to this Regulation granted to type of vehicles of categories N<sub>2</sub> (with a maximum mass exceeding 7.5 tons), N<sub>3</sub>, O<sub>3</sub> and O<sub>4</sub> exceeding 2,100 mm in width (for rear markings) and exceeding 6,000 mm in length (for side markings), **except** tractors for semi-trailers and incomplete vehicles, under **any** preceding series of amendments, that ceases to be valid.
- (e) from 12 June 2010 (36 months from the entry into force of Supplement 3 to the 03 series of amendments) shall grant approvals only if the vehicle type to be approved meets the requirements of this Regulation as amended by Supplement 3 to the 03 series of amendments.
- (f) up to 11 January 2010 (18 months after the official date of entry into force of Supplement 4 to the 03 series of amendments) shall continue to grant approvals to new vehicle types which do not meet the requirements on vertical orientation of front fog lamps (paragraph 6.3.6.1.1.) and/or on direction indicator operating tell-tale (paragraph 6.5.8.) and/or on daytime running lamps switching off (paragraph 6.19.7.3.).
- (g) up to 10 October 2011 (60 month after the official date of entry into force) shall continue to grant approvals to new vehicle types which do not meet the requirements on cumulative length of conspicuity markings (paragraph 6.21.4.1.3.).

## 12.3. Transitional provisions applicable to 04 series of amendments.

Contracting Parties applying this Regulation:

- (a) from 7 February 2011 for vehicles of categories M<sub>1</sub> and N<sub>1</sub>, and from 7 August 2012 for vehicles of other categories (respectively 30 and 48 months after the official date of entry into force) shall grant approvals only if the vehicle type to be approved meets the requirements of this Regulation as amended by the 04 series of amendments.

- (b) after 22 July 2009 (date of entry into force of Supplement 2 to the 04 series of amendments) shall continue to grant approvals to vehicle types which do not meet the requirements of paragraph 5.2.1. as amended by the Supplement 2 to 04 series of amendments if they are fitted with headlamps approved to Regulation No. 98 (prior to Supplement 9) or Regulation No. 112 (prior to Supplement 8).
- (c) from 24 October 2012 (36 months from the entry into force of Supplement 3 to the 04 series of amendments) shall grant approvals only if the vehicle type to be approved meets the requirements on voltage limitation of paragraphs 3.2.7. and 5.27 to 5.27.4. of this Regulation as amended by Supplement 3 to the 04 series of amendments.
- (d) up to 7 February 2011 for vehicles of categories M<sub>1</sub> and N<sub>1</sub> and to 07 August 2012 for vehicles of other categories (respectively 30 and 48 months after the official date of entry into force of Supplement 2 to the 04 series of amendments) shall continue to grant approvals to new vehicle types which do not meet the requirements on switching OFF of daytime running lamps reciprocally incorporated with front direction indicator lamps (paragraph 6.19.7.6.).
- 12.3.1. Notwithstanding the transitional provisions above, Contracting Parties whose application of Regulation No. 112 comes into force after 7 August 2008 (date of entry into force of the 04 series of amendments to the present Regulation) are not obliged to accept approvals if the vehicle type to be approved does not meet the requirements of paragraphs 6.1.2. and 6.2.2. as amended by the 04 series of amendments to this Regulation concerning Regulation No. 112.
- 12.4. Transitional provisions applicable to 05 series of amendments.
- Contracting Parties applying this Regulation:
- (a) from 30 January 2015 (48 months from the official date of entry into force) shall grant approvals only if the vehicle type to be approved meets the requirements of this Regulation as amended by the 05 series of amendments.
- (b) until 30 July 2016 for new vehicles types of categories M<sub>1</sub> and N<sub>1</sub> and until 30 January 2018 for new vehicle types of other categories (respectively 66 and 84 months after the official date of entry into force) shall grant approvals if the new vehicle type to be approved meets the requirements of one or more of paragraphs 6.2.7.6.2. or 6.2.7.6.3. to 6.2.7.6.3.3. instead of those of paragraph 6.2.7.6.1. of this Regulation as amended by the 05 series of amendments.
- 12.5. Transitional provisions applicable to 06 series of amendments.
- Contracting Parties applying this Regulation:
- from 18 November 2017 (60 month after the date of entry into force) shall grant approvals only if the vehicle type to be approved meets the requirements of this Regulation as amended by the 06 series of amendments."

## Annex IV

### Reproduction of the text agreed by GRE under agenda item 4(b) (iv) (see para. 11)

*Para 6.2.8.2.1., 6.2.8.2.2. and 6.2.8.3. amend to read:*

"6.2.8. Tell-tale

6.2.8.1. Tell-tale optional

6.2.8.2. A visual tell-tale whether flashing or not is mandatory:

- (a) In the case where the whole beam or the kink of the elbow of the cut-off is moved to produce bend lighting; or
- (b) If one or more LED modules are used to produce the principal dipped-beam, **except when they are wired so that the failure of any one LED module causes all of them to stop emitting light.**

It shall be activated:

- (a) In the event of a malfunction of the displacement of the kink of the elbow of the cut-off; or
- (b) In case of a failure of any one of the LED module(s) producing the principal dipped-beam, **except when they are wired so that the failure of any one LED module causes all of them to stop emitting light.**

It shall remain activated while the failure is present. It may be cancelled temporarily, but shall be repeated whenever the device, which starts and stops the engine, is switched on and off."



## Annex V

## Reproduction of the text agreed by GRE under agenda item 5(d) (see para. 20)

Amendment to ECE/TRANS/WP.29/GRE/23

Paragraph 1.2.1., amend to read:

"1.2.1. ...

<i>Required minimum value</i>	<i>Equivalent 20 per cent</i>	<i>Equivalent 30 per cent</i>
cd	cd	cd
0.7	0.2	0.4
0.6	0.2	0.4
0.3	0.1	0.2
0.07	0.02	0.04

"

Amendment to ECE/TRANS/WP.29/GRE/24

Paragraph 1.2.1., amend to read:

"1.2.1. ...

<i>Required minimum value</i>	<i>Equivalent 20 per cent</i>	<i>Equivalent 30 per cent</i>
cd	cd	cd
0.3	0.1	0.2
0.05	0.02	0.03

"

Amendment to ECE/TRANS/WP.29/GRE/31

Paragraph 1.2.1., amend to read:

"1.2.1. ...

<i>Required minimum value</i>	<i>Equivalent 20 per cent</i>	<i>Equivalent 30 per cent</i>
cd	cd	cd
0.05	0.02	0.03

"

## Annex VI

### Reproduction of the text agreed by GRE under agenda item 5(e) (see para. 21)

#### Proposal for amendments to Section A of ECE/TRANS/WP.29/GRE/2013/19

*Paragraphs 2.4.4., amend to read:*

"2.4.4. If the front fog lamp is fitted with LED module(s) ~~or a distributed lighting system~~, a brief technical specification shall be provided. This information shall include the part number assigned by the light source manufacturer, a drawing with dimensions and the basic electrical and photometric values, an indication whether the light source complies with the UV-radiation requirements of paragraph 4.6. of Annex 12 of this Regulation, an official test report related to paragraph 5.8. of this Regulation and the objective luminous flux."

*Paragraph 5.7. to 5.13 amend to read:*

- 5.7. In the case of Class F3, irrespective of whether the light sources can be replaced or not, they shall be:
- 5.7.1. One or more light sources approved according to;
- 5.7.1.1. Regulation No. 37 and its series of amendments in force at the time of application for type approval, provided that no restriction on their use is made
- 5.7.1.2. Or, Regulation No. 99 and its series of amendments in force at the time of application for type approval,
- 5.7.2. And/or, one or more LED modules where the requirements of Annex 12 to this Regulation shall apply; compliance with these requirements shall be tested.
- ~~5.7.3. And/or light generators where the requirements of Annex 12 to this Regulation shall apply. The compliance with the requirements shall be tested.~~
- 5.8. In the case of LED module ~~or light generator~~ it shall be checked, that:
- 5.8.1. The design of the LED module(s) ~~or light generator(s)~~ shall be such that they can be fitted in no position other than the correct one.
- 5.8.2. Non-identical light source modules, if any, shall be non-interchangeable within the same lamp housing.
- 5.8.3. The LED module(s) ~~or light generator(s)~~ shall be tamperproof.
- 5.9. In case of front fog lamps with light source(s) having a total objective luminous flux that exceeds 2,000 lumen, a reference shall be made in paragraph 10. of the communication form in Annex 1.
- 5.10. If the lens of the front fog lamp is made of plastic material tests shall be done according to the requirements in Annex 6.

- 5.10.1. The UV resistance of light transmitting components located inside the front fog lamp and made of plastic material shall be tested according to Annex 6, paragraph 2.7.
- 5.10.2. The test in paragraph 5.10.1. is not necessary if low-UV type light sources as specified in Regulation No. 99 or in Annex 12 of this Regulation are used, or if provisions are taken, to shield the relevant lamp components from UV radiation, e.g. by glass filters.
- 5.11. The front fog lamp and its ballast system or light source control gear shall not generate radiated or power line disturbances, which cause a malfunction of other electric/electronic systems of the vehicle.<sup>1</sup>
- 5.12. Front fog lamps, designed to operate permanently with an additional system to control the intensity of the light emitted, or which are reciprocally incorporated with another function, using a common light source, and designed to operate permanently with an additional system to control the intensity of the light emitted, are permitted.
- 5.13. In the case of Class F3 the sharpness and linearity of the cut-off shall be tested according to the requirements of Annex 9."

*Paragraph 6.4.1.5., amend to read:*

- 6.4.1.5. Compliance with the requirement in paragraph 5.8.1. shall be verified at least with respect to the values in line 3 and 4 of table in paragraph 6.4.3.

*Annex 1, Paragraph 10.8. (after renaming will become 10.7), amend to read:*

- 10.7 Luminous flux of the light source (see paragraph 5.9. ~~5.10.~~) greater than 2,000 lumen: ... yes/no 2/

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<sup>1</sup> Compliance with the requirements for electromagnetic compatibility is relevant to the vehicle type.

## Annex VII

### **Reproduction of the text agreed by GRE under agenda item 5(f) (see para. 22)**

### **Proposal for insertion of a new section C into ECE/TRANS/WP.29/GRE/2013/5**

#### **C. Proposal for amendments to Regulation No. 48**

*Paragraph 6.1.2.*, amend to read:

"6.1.2.       Number

Two or four, type approved according to Regulations Nos. ~~34~~, 98, or 112, excluding Class A headlamp.

For vehicles of the category N<sub>3</sub>: Two extra main-beam headlamps may be installed.

Where a vehicle is fitted with four concealable headlamps the installation of two additional headlamps shall only be authorized for the purpose of light-signalling, consisting of intermittent illumination, at short intervals (see paragraph 5.12.) in daylight."

*Paragraph 6.2.2.*, amend to read:

"6.2.2.       Number

Two, type approved according to Regulations Nos. ~~34~~, 98, or 112, excluding Class A headlamp."

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