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### World Forum for Harmonization of Vehicle Regulations

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

#### Sixty-seventh session

Geneva, 26–29 March 2012

## Report of the Working Party on Lighting and Light-Signalling on its sixty-seventh session

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## I. Attendance

1. The Working Party on Lighting and Light-Signalling (GRE) held its sixty-seventh session from 26 to 29 March 2012 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; Canada; China; Czech Republic; Finland; France; Germany; Hungary; India; Italy; Japan; Luxembourg; Netherlands; Norway; Poland; Republic of Korea; Russian Federation; Serbia; Spain; South Africa 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 Automobile Suppliers (CLEPA); International Association of the Body and Trailer Building Industry (CLCCR); 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 Working Party "Brussels 1952 (GTB)" participated.

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

*Documentation:* ECE/TRANS/WP.29/GRE/2012/1, Corr.1 and Add.1  
Informal document GRE-67-23

2. GRE noted GRE-67-23 including all the informal documents and new items in the provisional agenda. GRE agreed to insert new agenda items 4(a)(viii), 4(a)(ix), 15(g)(i), 15(g)(ii), 15(g)(iii), 15(g)(iv) and 15(g)(v) and adopted the agenda proposed for the sixty-seventh session (ECE/TRANS/WP.29/GRE/2012/1 as amended by Add.1 and Corr.1).

3. GRE noted that the reports of the November 2011 and March 2012 sessions of the World Forum for Harmonization of Vehicle Regulations (WP.29) were available at the WP.29 website (ECE/TRANS/WP.29/1093 and ECE/TRANS/WP.29/1095). The following major issues of the sessions were highlighted:

- (a) Situation on the delays in the publishing procedure of documentation;
- (b) Availability of documentation in the three authentic languages;
- (c) Instructions and rules of the UN Office of Legal Affairs (OLA) for Corrigenda, specifying that Corrigenda should aim exclusively at correcting, without modifying the meaning or substance of the text of the treaty: (a) physical errors on typing, printing, spelling ... (b) lack of conformity of the treaty with the official records, and/or (c) lack of concordance between the texts of the different authentic languages;
- (d) Recommendations from OLA that the terms "UN Regulations", "UN Global Technical Regulations" and "UN Rules" could be used in administrative and informative documents, but not in legal documents (subject to a revision of the text of the 1958, 1997 and 1998 Agreements).

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

4. GRE noted that proposals on this subject were awaited and agreed to defer discussion to the next session in October 2012.

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

*Documentation:* ECE/TRANS/WP.29/GRE/2012/2  
Informal documents GRE-67-06 and GRE-67-22

5. GRE considered ECE/TRANS/WP.29/GRE/2012/2, tabled by the expert from GTB intending to phase out more light sources. The expert from IEC introduced GRE-67-22, superseding GRE-67-06, correcting some editorial mistakes in ECE/TRANS/WP.29/GRE/2012/2. GRE adopted ECE/TRANS/WP.29/GRE/2012/2 and GRE-67-22, as reproduced in Annex V to the report, and requested the secretariat to submit it to WP.29 and AC.1 for consideration at their November 2012 sessions as draft Supplement 40 to the 03 series of amendments to UN Regulation No. 37.

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

#### **A. Proposal for Supplement 10 to the 04 series of amendments**

*Documentation:* ECE/TRANS/WP.29/GRE/2011/49  
ECE/TRANS/WP.29/GRE/2012/6  
ECE/TRANS/WP.29/GRE/2012/14  
ECE/TRANS/WP.29/GRE/2012/16  
ECE/TRANS/WP.29/GRE/2012/22  
ECE/TRANS/WP.29/GRE/2012/23  
Informal documents GRE-67-04, GRE-67-08, GRE-67-13, GRE-67-25, GRE-67-26, GRE-67-28, GRE-67-29, GRE-67-32 and GRE-67-32

6. The expert from GTB withdrew ECE/TRANS/WP.29/GRE/2011/49. GRE agreed to remove this agenda item.

7. GRE considered ECE/TRANS/WP.29/GRE/2012/6 introduced by the expert from GTB, correcting the LED module definition in UN Regulation No. 48. GRE adopted ECE/TRANS/WP.29/GRE/2012/6, not amended, and requested the secretariat to submit it to WP.29 and AC.1 for consideration at their November 2012 sessions as part of Supplement 10 to the 04 series of amendments to UN Regulation No. 48 (see paras. 12, 13, 14, 28 and 32).

8. The expert from GTB introduced ECE/TRANS/WP.29/GRE/2012/16 revising the provisions for the reduction of geometric visibility angles for direction indicator lamps, stop lamps, front and rear position lamps and retro reflectors. GRE agreed to resume consideration of this subject at its next session on the basis of a revised proposal, including all relevant UN Regulations.

9. The expert from the Netherlands introduced ECE/TRANS/WP.29/GRE/2012/22 clarifying the test conditions on the sensitivity requirements of the sensor system for automatic driving beam (ADB). GRE agreed, in principle, to the proposal and invited the

expert from the Netherlands and the United Kingdom to prepare a revised proposal for consideration at the October 2012 session of GRE.

10. GRE considered GRE-67-25, presented by the expert from OICA, further clarifying the test conditions regarding the requirements for the sensitivity of the sensor system for ADB. GRE agreed to resume consideration on this subject at its October 2012 session on the basis of a revised official proposal, voluntarily prepared by the expert from OICA.

11. The expert from the Netherlands introduced ECE/TRANS/WP.29/GRE/2012/23 clarifying the requirements for the mandatory manual override for ADB control. GRE agreed in principle with the proposal and invited the expert from the Netherlands to prepare a revised proposal on the basis of the comments received by the experts from OICA and Italy for the October 2012 session of GRE.

12. The expert from Japan introduced ECE/TRANS/WP.29/GRE/2012/14 clarifying the definition of a "fixed position" in UN Regulation No. 48. Following the discussion, the expert from Japan introduced GRE-67-32 superseding ECE/TRANS/WP.29/GRE/2012/14. GRE adopted GRE-67-32, as reproduced in Annex VI to the report, and requested the secretariat to submit it to WP.29 and AC.1, for consideration at their November 2012 sessions, as part of Supplement 10 to the 04 series of amendments to UN Regulation No. 48 (see paras. 7, 13, 14, 28 and 32).

13. GRE considered GRE-67-04, tabled by the expert from Germany as well as proposals from CLEPA (GRE-67-28 and GRE-67-29) and from OICA (GRE-67-36) amending the requirements for conspicuity marking for heavy vehicles. Finally the expert from Germany introduced GRE-67-38, superseding GRE-67-04. However the experts from EC, France and Italy expressed their reservation on voting for this proposal. GRE adopted GRE-67-38, superseding GRE-67-04, GRE-67-28, GRE-67-29 and GRE-67-36, as reproduced in Annex VI to the report. The secretariat was requested to submit it to WP.29 and AC.1, for consideration at their November 2012 sessions, as part of Supplement 10 to the 04 series of amendments to UN Regulation No. 48 (see paras. 7, 12, 14, 28 and 32) and also to have a final review at the next session of GRE.

14. GRE considered GRE-67-08 and GRE-67-26, aligning UN Regulation No. 48 with UN Regulation No. 121 (Location and Identification of hand controls, tell-tales and indicators) and eliminating inconsistency with the hazard warning light tell-tale. GRE adopted GRE-67-26, as reproduced in Annex VI to the report, and requested the secretariat to submit it to WP.29 and AC.1, for consideration at their November 2012 sessions, as part of Supplement 10 to the 04 series of amendments to UN Regulation No. 48 (see paras. 7, 12, 13, 28 and 32).

15. GRE considered GRE-67-13, tabled by the expert from Japan, proposing the suppression of the mandatory fitting of sensors for the adaptive main beam and Adaptive Frontlighting System (AFS) to detect retro-reflectors. GRE agreed to resume consideration of this subject at its October 2012 session and requested the secretariat to distribute GRE-67-13 with an official symbol.

## **B. Proposal for Corrigendum 3 to the 05 series of amendments**

*Documentation:* Informal document GRE-67-31

16. GRE noted that no concrete proposal was available to simplify and clarify the transitional provisions of UN Regulation No. 48 and agreed to resume consideration of this subject at its October 2012 session. The expert from the European Commission introduced GRE-67-31 as a basis for further discussion on this subject.

### C. Proposal for Supplement 2 to the 05 series of amendments

*Documentation:* ECE/TRANS/WP.29/2011/99 and Corr.1  
ECE/TRANS/WP.29/GRE/2012/18  
ECE/TRANS/WP.29/GRE/2012/21  
Informal documents GRE-67-27, GRE-67-33 and GRE-67-37

17. The expert from OICA introduced GRE-67-27, raising industry concerns about ECE/TRANS/WP.29/GRE/2012/21, regarding visibility range, glare and a note to the driver. The expert from Poland presented GRE-67-33 supporting ECE/TRANS/WP.29/GRE/2012/21 and GRE-67-37 as a revised version of ECE/TRANS/WP.29/GRE/2012/21. GRE agreed to resume consideration of ECE/TRANS/WP.29/GRE/2012/21 at its October 2012 session. GRE requested the secretariat to distribute GRE-67-37 with an official symbol for its next session.

18. GRE considered ECE/TRANS/WP.29/GRE/2012/18, introduced by the expert from Germany, intending to eliminate certain inconsistencies in the existing text on reversing lamps. GRE adopted ECE/TRANS/WP.29/GRE/2012/18, as amended below, and requested the secretariat to submit it to WP.29 and AC.1, for consideration at their November 2012 sessions, as draft Supplement 2 to the 05 series of amendments to UN Regulation No. 48.

*Page 2, par. 6.4.5.2., amend to read:*

"6.4.5.2. ... longitudinal plane of the vehicle. The vertical aim of the two optional devices may be directed downwards."

19. GRE resumed consideration of ECE/TRANS/WP.29/2011/99 and ECE/TRANS/WP.29/2011/99/Corr.1. GRE agreed to prepare and adopt a document ECE/TRANS/WP.29/2011/99/Corr.2, superseding ECE/TRANS/WP.29/2011/99/Corr.1, including a change of all the references to the 90-month transitional period to a 84-month transitional period, and to furthermore amend all references to Supplement 8 to the 04 series of amendments to Supplement 01 to the 06 series of amendments to UN Regulation No. 48. The secretariat was requested to submit ECE/TRANS/WP.29/2011/99/Corr.2 to WP.29 and AC.1 for consideration at their June 2012 sessions and agreed to keep this item on the agenda of its October 2012 session.

### D. Other amendments to UN Regulation No. 48

*Documentation:* ECE/TRANS/WP.29/GRE/2012/17  
Informal documents GRE-67-09, GRE-67-34

20. The expert from GTB introduced ECE/TRANS/WP.29/GRE/2012/17 on the definition of "manufacturer" in Regulation No. 48. GRE agreed to transfer the proposed definition into an amendment to the UN Consolidated Resolution on the Construction of Vehicles (UN R.E.3) and to the UN Special Resolution No. 1 (UN S.R. 1). Accordingly GRE adopted GRE-67-34, as reproduced in Annex X and XI to the report, and requested the secretariat to submit it to WP.29 and AC.1, for consideration at their November 2012 sessions, as Amendment 5 to UN R.E.3 and Amendment 1 to UN S.R 1.

21. GRE adopted GRE-67-09, introduced by the expert from GTB, correcting an editorial error in the 04 series of amendments to UN Regulation No. 48, as reproduced below and requested the secretariat to submit it to WP.29 and AC.1, for consideration at their November 2012 sessions, as Corrigendum 1 to Supplement 7 to the 04 series of amendments to UN Regulation No. 48.

*The note under paragraph 6.1.7.2 on page 2, correct to read:*

"Paragraphs 6.1.7.1 to 6.1.7.3 (former), renumber as paragraphs 6.1.7.3 to 6.1.7.5"

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

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

*Documentation:* Informal document GRE-67-11

22. The expert from GTB introduced GRE-67-11 reporting on the work progress of the informal group on Database for the Exchange of Type Approval documentation (DETA). He stated that GTB will align its timetable for implementing the simplification of the approval marking with that presented by the Informal Group. GRE agreed to keep this item on the agenda of its further sessions.

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

23. The expert from Germany reported on the progress made on this issue. GRE agreed to resume consideration of this agenda item at its next session on the basis of a concrete proposal tabled by the expert from Germany.

### **C. UN Regulations Nos. 19, 98, 112, 113 and 123**

*Documentation:* ECE/TRANS/WP.29/GRE/2012/7  
Informal document GRE-67-18

24. GRE considered ECE/TRANS/WP.29/GRE/2012/7, introduced by the expert from GTB, aimed at the definition of "type" for several lighting Regulations. GRE agreed, in principle, with the proposal. Additionally the expert from GTB presented GRE-67-18 adding the changed definition for Regulation No. 31 to the original proposal. GRE adopted ECE/TRANS/WP.29/GRE/2012/7, amended by GRE-67-18, and requested the secretariat to submit them to WP.29 and AC.1, for consideration at their November 2012 sessions, as part of draft Supplement 4 to the 04 series of UN Regulation 19 (see para. 36), as draft Supplement 8 to the 02 series of amendments of UN Regulation 31 as reproduced in Annex IV to the report, as part of draft Supplement 4 to the 01 series of UN Regulation No. 98 (see paras. 29, 30 and 31), as part of draft Supplement 4 to the 01 series of UN Regulation No. 112 (see paras. 29, 30, 31 and 32), as part of draft Supplement 2 to the 01 series of UN Regulation No. 113 (see paras. 27 and 29) and as part of draft Supplement 4 to the 01 series of UN Regulation No. 123 (see paras. 28, 29 and 30).

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

*Documentation:* ECE/TRANS/WP.29/GRE/2011/6  
ECE/TRANS/WP.29/GRE/2011/7  
ECE/TRANS/WP.29/GRE/2011/8  
ECE/TRANS/WP.29/GRE/2011/9  
ECE/TRANS/WP.29/GRE/2011/10  
ECE/TRANS/WP.29/GRE/2011/11  
ECE/TRANS/WP.29/GRE/2011/12  
ECE/TRANS/WP.29/GRE/2011/13  
ECE/TRANS/WP.29/GRE/2011/14  
ECE/TRANS/WP.29/GRE/2011/15



ECE/TRANS/WP.29/GRE/2012/20  
 ECE/TRANS/WP.29/2010/44 and Corr.1  
 ECE/TRANS/WP.29/2010/110  
 Informal documents GRE-67-01, GRE-67-24

25. GRE noted the decision of WP.29 and AC.1 to adopt the draft Regulation on standardized LED at their March 2012 session. The expert from GTB introduced GRE-67-24, updating some of the titles of the related documents and correcting an editorial error in ECE/TRANS/WP.29/GRE/2011/9. Accordingly GRE adopted ECE/TRANS/WP.29/GRE/2011/6, ECE/TRANS/WP.29/GRE/2011/7, ECE/TRANS/WP.29/GRE/2011/8, ECE/TRANS/WP.29/GRE/2011/9, ECE/TRANS/WP.29/GRE/2011/10, ECE/TRANS/WP.29/GRE/2011/11, ECE/TRANS/WP.29/GRE/2011/12, ECE/TRANS/WP.29/GRE/2011/13, ECE/TRANS/WP.29/GRE/2011/14, ECE/TRANS/WP.29/GRE/2011/15, amended by GRE-67-24, changing the number of some supplements as indicated below, and requested the secretariat to submit them to WP.29 and AC.1 for consideration at their November 2012 sessions, as part of draft Supplement 16 to UN Regulation No. 4 (see para. 29), as draft Supplement 23 to the 01 series of UN Regulation No. 6, as part of draft Supplement 21 to the 02 series of UN Regulation No. 7 (see para. 29), as part of draft Supplement 19 to UN Regulation No. 23 as amended in Annex III (see para. 29), as draft Supplement 16 to UN Regulation No. 38, as part of draft Supplement 16 to UN Regulation No. 50 (see para. 56), as draft Supplement 15 to UN Regulation No. 77, as part of draft Supplement 16 to UN Regulation No. 87 (see para. 29), as draft Supplement 14 to UN Regulation No. 91 and as part of draft Supplement 02 to the 01 series of UN Regulation No. 119 (see para. 43).

26. The expert from Germany introduced ECE/TRANS/WP.29/GRE/2012/20 inserting provisions for the usage of incandescent light sources for light source modules and non-replaceable light sources. He also presented GRE-67-01, showing the proposed changes to IEC 60809 and IEC 60810, linked in Regulations Nos. 4, 6, 7, 23, 38, 50, 77, 87, 91 and 119. GRE noted some concerns about the timing of the proposal and agreed to keep the item on the agenda until the proposals for IEC 60809 and 60810 are adopted.

## **E. UN Regulations Nos. 53 and 113**

*Documentation:* ECE/TRANS/WP.29/GRE/2012/15 and Corr.1  
 Informal document GRE-67-21

27. GRE considered ECE/TRANS/WP.29/GRE/2012/15 and Corr.1 and GRE-67-21, tabled by the expert from IMMA, introducing bend lighting for motorcycles. GRE adopted ECE/TRANS/WP.29/GRE/2012/15, as amended below by GRE-67-21, and requested the secretariat to submit it to WP.29 and AC.1, for consideration at their November 2012 sessions, as part of draft Supplement 14 to the 01 series of UN Regulation No. 53 (see para. 56), and as part of draft Supplement 2 to the 01 series of UN Regulation No. 113 (see paras. 24 and 29). Additionally this item will be subject to a final review of the next session of GRE.

*Page 4, par. 6.2.6.1., amend to read:*

"6.2.6.1 ... However, the additional light source(s) or additional lighting unit(s) shall not be activated when the bank angle is less than [3] degrees. ..."

## **F. UN Regulations Nos. 48 and 123**

*Documentation:* ECE/TRANS/WP.29/GRE/2012/8

28. The expert from GTB introduced ECE/TRANS/WP.29/GRE/2012/8, introducing the definition of a Gonio(photo)meter into UN Regulation No. 48 and amending the existing description of a goniometer in UN Regulation No. 123. GRE adopted ECE/TRANS/WP.29/GRE/2012/8, as amended below, and requested the secretariat to submit it to WP.29 and AC.1 for consideration at their November 2012 sessions as part of draft Supplement 10 to the 04 series of amendments to UN Regulation No. 48 (see paras. 7, 12, 13, 14 and 32) and as part of draft Supplement 4 to the 01 series of amendments to UN Regulation No. 123 (see paras. 24, 29 and 30). Additionally, the expert from GTB was invited to consider a proposal for modifying the scope of UN Regulation No. 48 to reflect the variety of defined expressions in the definition section.

*Page 1*, amend to read

"Add a new Annex 15, to read:

Annex 15 ..."

## **G. UN Regulations Nos. 3, 7, 23, 45, 87, 98, 112, 113 and 123**

*Documentation:* ECE/TRANS/WP.29/GRE/2012/9  
Informal document GRE-67-03

29. GRE considered ECE/TRANS/WP.29/GRE/2012/9 and GRE-67-03, introduced by the expert from GTB, correcting and harmonizing the provisions concerning approval markings in different lighting regulations. GRE adopted ECE/TRANS/WP.29/GRE/2012/9 and GRE-67-03, and requested the secretariat to submit them to WP.29 and AC.1 for consideration at their November 2012 sessions as draft Supplement 13 to the 02 series of amendments to UN Regulation No. 3, as part of draft Supplement 16 to UN Regulation No. 4, as reproduced in Annex II (see para. 25), as part of draft Supplement 21 to the 02 series of amendments to UN Regulation No. 7 (see para. 25), as part of draft Supplement 19 to UN Regulation No. 23 as amended in Annex III (see para. 25), as draft Supplement 7 to the 01 series of amendments to UN Regulation No. 45, as part of draft Supplement 16 to UN Regulation No. 87 (see para. 25), as part of draft Supplement 4 to the 01 series of amendments to UN Regulation No. 98 (see paras. 24, 30 and 31), as part of draft Supplement 4 to the 01 series of amendments to UN Regulation No. 112 (see paras. 24, 30, 31 and 32), as part of draft Supplement 2 to the 01 series of amendments to UN Regulation No. 113 (see paras. 24 and 27) and as part of draft Supplement 4 to the 01 series of amendments to UN Regulation No. 123 (see paras. 24, 28 and 30).

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

*Documentation:* ECE/TRANS/WP.29/GRE/2012/10  
Informal document GRE-67-16

30. The expert from GTB introduced ECE/TRANS/WP.29/GRE/2012/10, aimed at improving the accuracy of the test procedures in order to verify the stability of the photometric performance. GRE adopted ECE/TRANS/WP.29/GRE/2012/10, as amended below by GRE-67-16, and requested the secretariat to submit it to WP.29 and AC.1 for consideration at their November 2012 sessions as part of draft Supplement 4 to the 01 series of amendments to UN Regulation No. 98 (see paras. 24, 29 and 31), as part of draft Supplement 4 to the 01 series of amendments to UN Regulation No. 112 (see paras. 24, 29, 31 and 32) and as part of draft Supplement 4 to the 01 series of amendments to UN Regulation No. 123 (see paras. 24, 28 and 29).

Page 1, Amendment to UN Regulation No. 98:  
*Annex 4, Paragraph 1.1.2.2.*, amend to read:

"1.1.2.2. Photometric test:  
 ...  
 Passing beam:  
 50 R - B 50 L – ~~HV~~ 25L for headlamps designed for right-hand traffic  
**50 L - B 50 R – HV 25R for headlamps designed for left-hand traffic**  
 ...."

Page 1, Amendment to UN Regulation No. 112:  
*Annex 4, Paragraph 1.1.2.2.*, amend to read:

"1.1.2.2. Photometric test:  
 ...  
 Passing beam:  
 50 R - B 50 L – ~~HV~~ 25L for headlamps designed for right-hand traffic  
**50 L - B 50 R – HV 25R for headlamps designed for left-hand traffic**  
 ...."

## **I. UN Regulations Nos. 98 and 112**

*Documentation:* ECE/TRANS/WP.29/GRE/2012/11

31. The expert from GTB introduced ECE/TRANS/WP.29/GRE/2012/11, clarifying the requirements and the testing of the resistance of the plastic lens surface to mechanical deterioration. GRE adopted ECE/TRANS/WP.29/GRE/2012/11, not amended, and requested the secretariat to submit it to WP.29 and AC.1 for consideration at their November 2012 sessions as part of draft Supplement 4 to the 01 series of amendments to UN Regulation No. 98 (see paras. 24, 29 and 30) and as part of draft Supplement 4 to the 01 series of amendments to UN Regulation No. 112 (see paras. 24, 29, 30 and 32).

## **J. UN Regulations Nos. 48 and 112**

*Documentation:* ECE/TRANS/WP.29/GRE/2012/12  
 Informal documents GRE-67-17 and GRE-67-30

32. GRE considered ECE/TRANS/WP.29/GRE/2012/11, tabled by the expert from GTB, defining the conditions under which voltage control gear may be used in conjunction with filament light sources. The expert from IEC introduced GRE-67-17 and GRE-67-30, raising some concerns to the proposal. GRE noted that the experts from Germany and the Netherlands raised their objection to a general voltage variation of filament lamps. GRE adopted ECE/TRANS/WP.29/GRE/2012/12, not amended, and requested the secretariat to submit it to WP.29 and AC.1 for consideration at their November 2012 sessions as part of draft Supplement 10 to the 04 series of amendments to UN Regulation No. 48 (see paras. 7, 12, 13, 14, and 28) and as part of draft Supplement 4 to the 01 series of amendments to UN Regulation No. 112 (see paras. 24, 29, 30 and 31).

## **K. UN Regulations Nos. 3, 4, 6, 7, 19, 23, (27), 31, 38, 45, 50, 65, 69, 70, 77, 87, 88, 91, 98, 104, 112, 113, 119 and 123**

*Documentation:* ECE/TRANS/WP.29/GRE/2012/19

33. The expert from Germany presented ECE/TRANS/WP.29/GRE/2012/19, aimed at improving the Conformity of Production (CoP) requirements in all relevant lighting regulations. The experts from the United Kingdom and the Netherlands raised their concerns about a possible relaxation of the CoP process. GRE supported the intent of the proposal and agreed to resume consideration on this subject at its October 2012 session. GRE invited the expert from Germany to prepare a revised proposal, covering all relevant lighting regulations and adding the necessary background information.

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

*Documentation:* ECE/TRANS/WP.29/GRE/2008/32  
Informal documents GRE-67-35, GRE-66-13 and GRE-66-14

34. The Chair of the informal group on a draft Horizontal Reference Document for light-signalling devices introduced GRE-67-35 as draft report of the work of his group. GRE agreed with the suggestion of the Chair of the informal group to suspend the work of this group due to the lack of progress made and to keep this item on the agenda of its October 2012 session.

## **VIII. UN Regulation No. 10 (Electromagnetic compatibility) (agenda item 7)**

*Documentation:* ECE/TRANS/WP.29/GRE/2012/13

35. The expert from Japan introduced ECE/TRANS/WP.29/GRE/2012/13, clarifying the transitional provisions of the 04 series of amendments to UN Regulation No. 10. GRE adopted ECE/TRANS/WP.29/GRE/2012/13, not amended, and requested the secretariat to submit it to WP.29 and AC.1 for consideration at their November 2012 sessions as draft Supplement 1 to the 04 series of amendments to UN Regulation No. 10.

## **IX. UN Regulation No. 19 (Front fog lamps) (agenda item 8)**

*Documentation:* ECE/TRANS/WP.29/GRE/2012/3  
Informal document GRE-67-10

36. The expert from GTB introduced ECE/TRANS/WP.29/GRE/2012/3, removing an ambiguity in the provisions concerning determination of the Conformity of Production. GRE adopted ECE/TRANS/WP.29/GRE/2012/3, not amended, and requested the secretariat to submit it to WP.29 and AC.1 for consideration at their November 2012 sessions as part of draft Supplement 4 to the 04 series of amendments to UN Regulation No. 19 (see para. 24).

37. GRE considered, for information only, GRE-67-10, presented by the expert from GTB, aimed at reminding the secretariat of the purpose of Supplement 3 to the 03 Series of UN Regulation 19 when preparing a revision of this Regulation.

## **X. UN Regulation No. 27 (Advance warning triangle) (agenda item 9)**

*Documentation:* ECE/TRANS/WP.29/GRE/2011/46  
Informal document GRE-67-12

38. GRE resumed consideration of ECE/TRANS/WP.29/GRE/2011/46, tabled by the expert from GTB, updating the test requirements. GRE noted that the discussion on integrating private standards in WP.29 was postponed to the June 2012 session. GRE agreed to keep this agenda item for the October 2012 session. GRE also invited the experts from GTB and CLEPA to combine ECE/TRANS/WP.29/GRE/2011/46 and GRE-67-12, if possible (see para. 39).

39. The expert from CLEPA introduced GRE-67-12, enabling the combination of the two separate optically active stripes of the advance warning triangle into one. GRE agreed to continue discussion on this issue at its October 2012 session and requested the secretariat to distribute GRE-67-12 with an official symbol. GRE also invited the experts from GTB and CLEPA to combine ECE/TRANS/WP.29/GRE/2011/46 and GRE-67-12, if possible (see para. 38).

## **XI. UN Regulation No. 45 (Headlamp cleaners) (agenda item 10)**

*Documentation:* ECE/TRANS/WP.29/GRE/2012/4

40. GRE considered ECE/TRANS/WP.29/GRE/2012/4, introduced by the expert from GTB, clarifying the requirements related to the number and nature of samples needed for type approval tests to harmonize procedures of technical services. GRE agreed, in principle, with the proposal and agreed to resume consideration on this agenda item at its October 2012 session on the basis of a revised text prepared by the expert from CLEPA.

## **XII. Regulation No. 65 (Special warning lamps) (agenda item 11)**

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

41. GRE reconsidered ECE/TRANS/WP.29/GRE/2011/48, tabled by the expert from SAE, clarifying the execution of the design and test requirements. GRE noted that the experts from SAE and GTB would work together to resolve the comments received and agreed to keep this item on the agenda of the October 2012 session.

## **XIII. UN Regulation No. 112 (Headlamps emitting an asymmetrical passing beam) (agenda item 12)**

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

42. GRE noted that a revised proposal based on ECE/TRANS/WP.29/GRE/2011/35 was not yet available. GRE agreed to resume consideration of this subject on the basis of a revised proposal jointly prepared by the experts from China and GTB at its October 2012 session. GRE also invited the expert from SAE to cooperate the drafting of the proposal, if needed.

## **XIV. UN Regulation No. 119 (Cornering lamps) (agenda item 13)**

*Documentation:* ECE/TRANS/WP.29/GRE/2012/5

43. The expert from GTB introduced ECE/TRANS/WP.29/2012/5, improving the definition of the zones in the photometric requirements. GRE adopted ECE/TRANS/WP.29/GRE/2012/5, not amended, and requested the secretariat to submit it to WP.29 an AC.1 for consideration at their November 2012 sessions as part of draft Supplement 2 to the 01 series of amendments to UN Regulation No. 119 (see para. 25).

## **XV. Conspicuity of motorcycles (agenda item 14)**

44. The expert from IMMA reported that no observations or study results are yet available on the impact of the use of the amber front position lamp to improve the conspicuity of motorcycles. GRE agreed to keep this item on the agenda of the October 2012 session awaiting new proposals on at improving the visibility of motorcycles, if available.

## **XVI. Other business (agenda item 15)**

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

*Documentation:* Informal document GRE-67-20

45. GRE considered GRE-67-20, introduced by the expert from Germany, reporting on the results of the sixty-third session of the Working Party on Road Traffic safety (WP.1), held on 19-21 March 2012 in Geneva. GRE noted that ECE/TRANS/WP.1/2011/4 was not yet adopted by WP.1. GRE agreed to keep this item on the agenda for its future sessions.

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

46. The secretariat reported on the special policy segment on ITS, held during seventy-fourth session of the Inland Transport Committee (ITC). During the first-of-its-kind ITS kick-off event, more than 140 government participants, industry experts and academia came together to mark UNECE's launch of the ITS strategy embodied by the UNECE publication "ITS for sustainable mobility". The event showcased that ITS deployment was on track in many places, as outlined by the high-level speakers from the European Union, France, Germany, Italy, Japan, the Netherlands, Russian Federation, South Africa and the United Kingdom, although more work needed to be done. GRE agreed to keep this item on the agenda.

47. The Chair informed GRE about the forthcoming Vision Congress 2012 on the subject of adaptive lighting and advanced driver assistance systems (ADAS). The event, organized by the French Society of Automotive Engineers (SIA), would be held in the "Palais des Congrès" in Versailles (France), on 9-10 October 2012 (see detailed information at: [www.sia.fr/evenement\\_detail\\_vision\\_1119.htm](http://www.sia.fr/evenement_detail_vision_1119.htm)).

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

*Documentation:* ECE/TRANS/2012/4

48. The secretariat informed GRE that UNECE presented its Action Plan for the UN Decade of Action for Road Safety (2011–2020) in ECE/TRANS/2012/4. GRE agreed to keep this item on the agenda.

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

*Documentation:* Informal document GRE-67-05

49. The secretariat informed GRE about the progress in developing the international whole vehicle type approval (IWVTA). He reported on the good work progress made by the informal group since the November 2011 session of WP.29. GRE also noted that two subgroups would start drafting the revision to the 1958 Agreement (chaired by the European Commission) and the text of UN Regulation No. 0 (chaired by Japan).

50. GRE noted that WP.29 expressed the need to nominate an IWVTA ambassador to explain the guideline at the forthcoming sessions of each GR, to assist the GRs and to monitor the work progress made (see ECE/TRANS/WP.29/1095, paras. 57-59). GRE experts were invited to consider the possibility to take such a role for GRE.

51. The GRE Chair introduced GRE-67-05, including "Candidate Items for Technical Regulations Applicable to International Whole Vehicle Type Approval (IWVTA)" and "Guideline for GRs to Review Technical Regulations Applicable to IWVTA". GRE agreed to consider GRE-67-05 in detail at the next session, in order to identify the lighting and light-signalling candidates for Regulation No. 0, and requested the secretariat to distribute GRE-67-05 with an official symbol for the October 2012 session.

## **E. Guidance on extension and revisions of approvals**

52. GRE agreed to remove this topic from the agenda.

## **F. Proposal for guidelines on the scope and administrative provisions**

53. GRE agreed to remove this topic from the agenda.

## **G. Other business**

*Documentation:* Informal documents GRE-67-02, GRE-67-07, GRE-67-14, GRE-67-15 and GRE-67-19

54. GRE adopted GRE-67-02, correcting an editorial error, as reproduced below, and requested the secretariat to submit it to WP.29 an AC.1 for consideration at their November 2012 sessions as draft Corrigendum 1 to Revision 5 of UN Regulation No. 6.

*English version only, Annex 2, amend to read:*

"...  
9. Concise description:  
Category: 1, 1a, 1b, 2a, 2b, ~~3, 4~~, 5, 6<sup>2</sup>  
Number, category: ....."

55. GRE adopted GRE-67-07, tabled by the expert of IEC clarifying the provisions in UN Regulation No. 99, as reproduced in Annex IX, and requested the secretariat to submit it to WP.29 an AC.1 for consideration at their November 2012 sessions as draft Supplement 8 to UN Regulation No. 99.

56. The expert from IMMA introduced GRE-67-14 and GRE-67-15, amending the inward visibility angle of front position lamps in UN Regulations Nos. 50 (Position, stop, direction indicator lamps for mopeds and motorcycles) and 53 (Installation of lighting and light-signalling devices for L3 category vehicles). GRE adopted GRE-67-14, as reproduced

in Annex VII to the report and GRE-67-15, as reproduced in Annex VIII to the report, and requested the secretariat to submit them to WP.29 and AC.1 for consideration at their November 2012 sessions as part of draft Supplement 16 to UN Regulation No. 50 (see para. 25), and as part of draft Supplement 14 to the 01 series of amendments to UN Regulation No. 53 (see para. 27).

57. The expert from Germany introduced GRE-67-19, aimed at deleting the provisions regarding distributed lighting systems (DLS) or light generators from UN Regulations Nos. 19, (Front fog lamps), 48 (Installation of lighting and light-signalling) and 98 (Headlamp with gas-discharge light sources). GRE agreed in principle with the proposal, but noted some concerns raised by the experts from Austria, Italy and CLEPA, and invited the expert from Germany to prepare a revised proposal, taking into account the comments, for the October 2012 session.

58. The expert from France introduced a short movie presenting a showcar with a direction indicator varying its appearance during the illumination period. As a general understanding, GRE agreed that according to paragraph 5.9. of Regulation No. 48 (Installation of lighting and light-signalling) the installation of a lamp with an intentional variation of the apparent surface (e.g. direction indicator or other lamps) would not be allowed. However, GRE agreed to resume discussion on this subject at its October 2012 session awaiting a GTB study on this matter.

## **H. Tributes**

59. Learning that Mr. F. Müller (OICA) would no longer attend the sessions, GRE acknowledged his good cooperation and contributions to GRE activities for more than eleven years and wished him all the best for a healthy, happy and long retirement.

60. GRE was informed that Mr. Yamakawa (OICA) and Mr. Legagneur would no longer participate in the sessions. GRE thanked them for their excellent contributions and expertise to the work of GRE during the last four years and wished them all the best in their new positions.

## **XVII. Direction for future GRE work (agenda item 16)**

### **A. Work tasks of GRE**

61. The Chair reported on the advice expressed by the World Forum for Harmonization of Vehicle Regulations (WP.29) with regard to the work of GRE (see report ECE/TRANS/WP.29/1095, para. 76):

- Focus on making the Regulations more performance orientated allowing emerging technologies to be embraced without the need to amend the UN Regulations;
- Check if all the amendments are necessary at the time they are proposed;
- Consider reducing the number of active UN Regulations and the possibility of combining some of them;
- Take full advantage of the possibilities offered by the development of the Horizontal Reference Document and the DETA system;

He has also urged Contracting Parties to the 1998 Agreement to consider sponsorship of a gtr in the lighting and light-signalling area, for GRE to become a full member of the "World Forum".



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

*Documentation:* Informal documents GRE-67-39, GRE-67-40, GRE-67-41, GRE-67-42 and GRE-67-43

62. The experts from GTB presented GRE-67-39, GRE-67-40, GRE-67-41, GRE-67-42, and GRE-67-43 introducing the present and future work tasks of the different working groups of GTB. GRE agreed to keep this agenda item for the October session.

**XVIII. Provisional agenda for the next session**

63. GRE did not consider a provisional agenda for the sixty-eighth session of GRE, scheduled to be held from 16 (a.m.) to 18 (p.m.) October 2012. It was agreed that the Chair, with the secretariat, would propose a draft agenda. GRE noted that the deadline for submission of official documents to the UNECE secretariat was 23 July 2012, twelve weeks prior to the session.

## Annex I

## List of informal documents considered during the session

## List of informal documents (GRE-66-...) of the session (English only)

<i>No.</i>	<i>(Author) Title</i>	<i>Follow -up</i>
1	(Germany) Proposed changes to IEC 60809 (ECE/TRANS/WP.29/GRE/2012/20)	(d)
2	(Sec) Align Eng/Fre/Rus version, strikeout of category 3 and 4 in Annex 2	(a)
3	(Germany) Correction to Regulations Nos. 4 and 23, type approval markings	(a)
4	(Germany) Clarification on conspicuity markings for Regulation No. 48	(f)
5	(Chair of IWVTA) Proposal for "Candidate items for technical Regulations applicable to international Whole Vehicle Type Approval (IWVTA)" and "Guideline for GRs to review technical Regulations applicable to IWVTA"	(c)
6	(IEC) Correction of ECE/TRANS/WP.29/GRE/2012/2, phase out of light sources in R37	(f)
7	(IEC) Corrigendum to Regulation No. 99, cap references to IEC 60061	(a)
8	(France) Align Regulation No. 48 tell-tale indicators with Regulation No. 121	(f)
9	(GTB) Correct an editorial error in Regulation No. 48	(a)
10	(GTB) Editorial note for Supplement 3 to the 03 series of amendments to Regulation No. 19	(f)
11	(GTB) Simplification of the Approval Markings in the Context of the Work of the WP29 Informal Group "DETA"	(f)
12	(CLEPA) Allow the combination of the two separate optically active stripes of the advance warning triangle into one for Regulation No. 27	(c)
13	(Japan) Remove some "forgotten" references to retro-reflecting devices inside the "Adapted Driving Beam" description.	(c)
14	(IMMA) change the inward visibility angle of front position lamp in Regulation No. 50	(a)
15	(IMMA) change the inward visibility angle of front position lamp in Regulation No. 53	(a)
16	(Germany) Proposal for Corrigendum to ECE/TRANS/WP.29/GRE/2012/10	(a)
17	(IEC) Comments to ECE/TRANS/GRE/2012/12 concerning voltage control gear	(f)
18	(GTB) Addendum to ECE/TRANS/WP.29/2012/7	(a)
19	(Germany) Remove distributed light systems from Regulations Nos. 19, 48 and 98	(e)
20	(Chair) Brief report of the 63rd session of WP.1, concerning lighting	(f)
21	(IMMA) Amendment to ECE/TRANS/WP.29/GRE/2012/15	(a)
22	(IEC) Correction of ECE/TRANS/WP.29/GRE/2012/2, superseding GRE-67-06	(a)
23	(Secretariat) Modified provisional agenda for the 67th session of GRE	(a)
24	(GTB) Corrections to the documents related to the Incorporation of Standardised Replaceable LED Light Sources into Regulations Nos. 4, 6, 7, 23, 38, 50, 77, 87, 91 and 119	(a)
25	(OICA) Proposal for Supplement 10 to the 04 series of amendments to Regulation No. 48 (Installation of lighting and light-signalling devices)	(e)
26	(OICA) Comments to French proposal GRE-67-08 for Supplement 10 to Regulation No. 48, series 04	(a)
27	(OICA) Comments to GRE/2012/21, headlamp initial aiming	(f)

<i>No.</i>	<i>(Author) Title</i>	<i>Follow-up</i>
28	(CLEPA) Alternative proposal to GRE-67-04, Corrigendum to Regulation No. 48	(f)
29	(CLEPA) Conspicuity marking illustration for GRE 67	(f)
30	(IEC) IEC position on Voltage Control Gear	(f)
31	(EC) Proposal for revision of the transitional provisions of Regulation No. 48	(d)
32	(Japan) Proposal for Supplement 10 to the 04 series of amendments to Regulation No. 48, supersedes ECE/TRANS/WP.29/GRE/2012/14	(b)
33	(Poland) Presentation on ECE/TRANS/WP.29/GRE/2012/21 "How and why"	(f)
34	(Chair) Proposal for amendments to R.E.3 and S.R.1	(a)
35	(Chair of Informal group) Horizontal Reference Document - Status of Work	(f)
36	(OICA) Proposal for amendments to Regulation No. 48, amendment to GRE-67-04	(f)
37	(Poland) Revised proposal for ECE/TRANS/WP.29/GRE/2012/21	(c)
38	(Germany) Conspicuity marking for heavy vehicles inside Regulation No. 48, superseding GRE-67-04	(a)
39	(GTB) Presentation on working items for GTB Task Force on Automotive Visibility and Glare	(f)
40	(GTB) Presentation on working items for GTB Working Group Light sources	(f)
41	(GTB) Presentation on working items for GTB Working Group Signal Lamps	(f)
42	(GTB) Presentation on working items for GTB Working Group Photometry	(f)
43	(GTB) Presentation on working items for GTB Task Force on Regulation No. 65	(f)

### **Reconsideration of informal documents from the previous sessions or other Working Parties (English only)**

<i>No.</i>	<i>(Author) Title</i>	<i>Follow-up</i>
WP.29-153-26	(OICA) Request for guidance from WP.29	(f)
WP.29-153-27	(OICA) Proposal for corrections to ECE/TRANS/WP.29/2010/111 Regulation No. 46 (Rear-view mirrors)	(f)

#### *Notes:*

- (a) Submitted with no change to WP.29 for consideration.
- (b) Submitted with changes to WP.29 for consideration.
- (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

### Amendments to UN Regulation No. 4

Part of Supplement 16 to UN Regulation No. 4. Amendments to ECE/TRANS/WP.29/GRE/2012/9 (see para. 29 of the report).

Annex 1, Figure 1, amend to read:

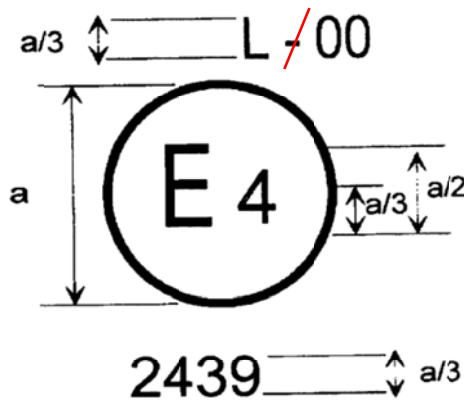
#### "ANNEX 1

#### ARRANGEMENT OF APPROVAL MARKS

Figure 1

(Marking for single lamps)

Model A



a = 5 mm min. "

## Annex III

### Amendments to UN Regulation No. 23

(a) Part of Supplement 19 to UN Regulation No. 23. Amendments to ECE/TRANS/WP.29/GRE/2011/9 (see para. 25 of the report).

Paragraph ~~4.3.1.4~~, amend to read:

~~"1.3.~~ 1.4. ~~"Reversing~~ **Reversing / manoeuvring lamps of different types**" means ...

(b) The characteristics ... category of ~~filament-lamp~~ **light source**, light source module, etc.);

A change of the colour of the ~~filament-lamp~~ **light source** or the colour of any filter does not constitute a change of type."

Paragraph ~~4.4.1.5~~, amend to read:

~~"1.4.~~ 1.5. References made... for type approval.

**References made in this Regulation to standard (étalon) LED light source(s) and to Regulation No. XXX shall refer to Regulation No. XXX and its series of amendments in force at the time of application for type approval."**

(b) Part of Supplement 19 to UN Regulation No. 23. Amendments to ECE/TRANS/WP.29/GRE/2012/9 (see para. 29 of the report).

Paragraph 4.7., amend to read:

"4.7. Annex 2 gives examples of approval marks for a single lamp (Figure 1) and for grouped, combined or reciprocally incorporated lamps (Figure 2) with all the additional symbols referred to above. ~~in which the letters A and R or M and L are mingled.~~ **The letters A and R may be mingled.**"

Annex 2, Figure 1, amend to read:

#### "ANNEX 2

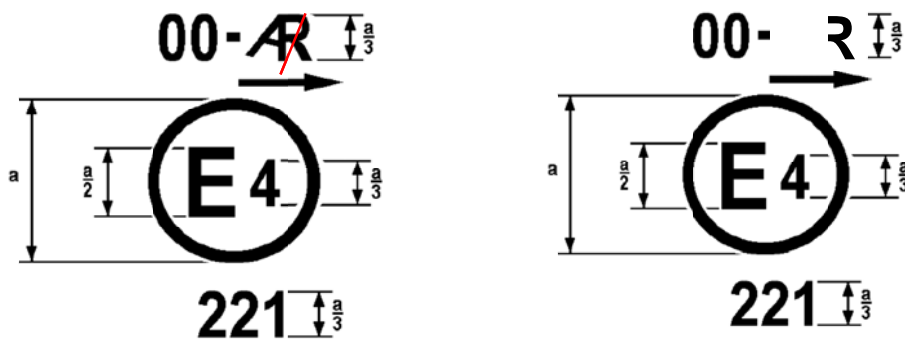
#### EXAMPLES OF ARRANGEMENTS OF APPROVAL MARKS

Figure 1

Marking for single lamps

Model A

optional:



## Annex IV

### Amendments to UN Regulation No. 31

Supplement 8 to the 02 series of amendments to UN Regulation No. 31. Amendments to ECE/TRANS/WP.29/GRE/2012/7 (see para. 24 of the report).

*Paragraph 2.4.*, amend to read:

- "2.4.            "HSB units of different types" means units which differ in such essential respects as:
- ...
- 2.4.7. ~~the materials constituting the lens and coating, if any."~~

## Annex V

### Amendments to UN Regulation No. 37

Supplement 40 to the 03 series of amendments to UN Regulation No. 37. Amendments to ECE/TRANS/WP.29/GRE/2012/2 (see para. 5 of the report). The modifications to the current text of Regulation No. 37 are marked in bold characters, and in red when referring to ECE/TRANS/WP.29/GRE/2012/02.

Paragraph 3.6.3., amend to read:

"3.6.3. The colour of the light emitted shall be measured by the method specified in Annex 5. Each measured value shall lie within the required tolerance area<sup>1</sup>. Moreover, in the case of filament lamps emitting white light, the measured values shall not deviate more than 0.020 unit in the x and/or y direction from a point of choice on the Planckian locus (IEC Publication 15.2 Colorimetry, 1986). Filament lamps for use in light signalling devices shall meet the requirements as specified in paragraph 2.4.2. of IEC Publication 60809, Amendment 5 to Edition 2."

Annex 1, the list of categories of filament lamps and their sheets, amend to read:

"....

#### Group 2

....

R10W	* <sup>6</sup>	R10W/1	
RR5W	<del>*<sup>6</sup></del>	R5W/1	
RR10W	<del>*<sup>6</sup></del>	R10W/1	
RY10W	* <sup>6</sup>	R10W/1	
....			
....			
WR5W		W5W/1	
WR21/5W		WR21/5W/1	(W21/5W/2 to 3)
WY5W	* <sup>6</sup>	W5W/1	
WY10W	* <sup>6</sup>	W10W/1	
WY16W		W16W/1	
WY21W		WY21W/1 to 2	

#### Group 3

For replacement purposes only (see transitional provisions of paragraphs 8.3. and 8.4.):

<sup>1</sup> For Conformity of Production purposes of amber and red colour only, at least 80 per cent of the measuring results shall lie within the required tolerance area.

Category	Sheet number(s)	As specified by transitional provisions in paragraph 8.3		As specified by transitional provisions in paragraph 8.4	
		Supplement	Period	Supplement	Period
C5W *7, *8	C5W/1	38	12 months	38	unlimited
....					
R10W *7, *8	R10W/1	38	12 months	38	unlimited
<del>RR5W *7, *8</del>	<del>R5W/1</del>	<del>38</del>	<del>12 months</del>	<del>38</del>	<del>unlimited</del>
<del>RR10W *7, *8</del>	<del>R10W/1</del>	<del>38</del>	<del>12 months</del>	<del>38</del>	<del>unlimited</del>
RY10W *7, *8	R10W/1	38	12 months	38	unlimited
....					
W10W *7, *8	W10W/1	38	12 months	38	unlimited
<b>WY2.3W</b>	<b>WY2.3W/1</b>	<b>40</b>	<b>24 months</b>	<b>40</b>	<b>unlimited</b>
<del>WY5W *7</del>	<del>W5W/1</del>	<del>40</del>	<del>12 months</del>	<del>40</del>	<del>unlimited</del>
WY10W *7, *8	W10W/1	38	12 months	38	unlimited
....					
"					

Annex 1, sheet H17/2, the table, amend to read:

"....

p	28.95	28.95
α	max. 40°	max. 40°
Cap PU43t-4 in accordance with IEC Publication 60061 (sheet 7004-171-1)		
ELECTRICAL AND PHOTOMETRIC CHARACTERISTICS		

...."



## Annex VI

### Amendments to UN Regulation No. 48

- (a) Part of Supplement 10 to the 04 series of amendments to UN Regulation No. 48. Amendments to ECE/TRANS/WP.29/GRE/2012/14 (see para. 12 of the report).

*Paragraph 5.21.*, amend to read:

"5.21. The apparent surface ... from the "normal position of use".

**Fixed position of a movable component means the stable or natural rest position(s) of the movable component specified by the vehicle manufacturer, whether locked or not.**

If the above requirement is not practicable:"

- (b) Part of Supplement 10 to the 04 series of amendments to UN Regulation No. 48. Amendments to GRE-67-38 (see para. 13 of the report).

*Paragraphs 6.21.4.1.2.*, amend to read:

6.21.4.1.2. The cumulative horizontal length of the conspicuity marking elements, as mounted on the vehicle, shall equate to at least **70** per cent of the overall width of the vehicle, excluding any horizontal overlap of individual elements.

*Existing paragraphs 6.21.4.1.3.*, delete:

~~6.21.4.1.3. However, if the manufacture can prove ... test report 16/.~~

*Paragraphs 6.21.4.2. to 6.21.4.2.2.*, amend to read:

"6.21.4.2. Length

6.21.4.2.1. The conspicuity marking shall be as close as practicable to the ends of the vehicle and reach to within 600 mm of each end of the vehicle (~~or cab in the case of tractor units for semi-trailers~~).

6.21.4.2.1.1. for motor vehicles, each end of the vehicle, or in the case of tractors for semi-trailers each end of the cab;

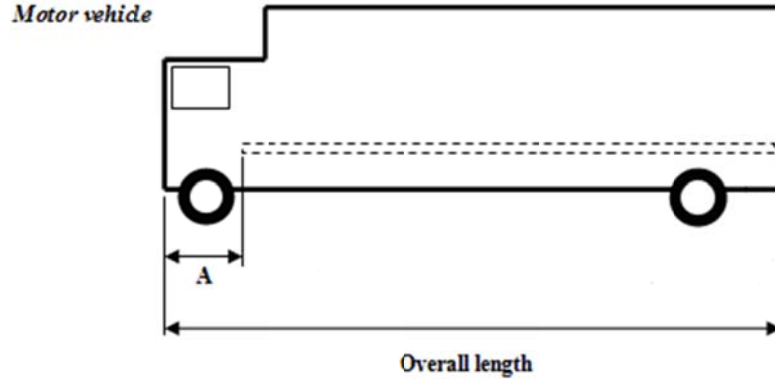
**however, an alternative marking mode within 2400 mm from the front end of the motor vehicle is allowed where a series of retro-reflectors of Class IVA of Regulation No. 3 or Class C of Regulation No. 104 are mounted followed by the required conspicuity marking as follows:**

- **Retro-reflector size minimum 25 cm<sup>2</sup>;**
- **One retro-reflector mounted not more than 600 mm from the front end of the vehicle;**
- **Additional retro-reflectors spaced not more than 600 mm apart;**
- **The distance between the last retro-reflector and the start of the conspicuity marking shall not exceed 600 mm;**

6.21.4.2.1.2. for trailers, each end of the vehicle (excluding the drawbar).

6.21.4.2.2. The cumulative horizontal length of the conspicuity marking elements, as mounted on the vehicle, excluding any horizontal overlap of individual elements, shall equate to at least **70** per cent of:

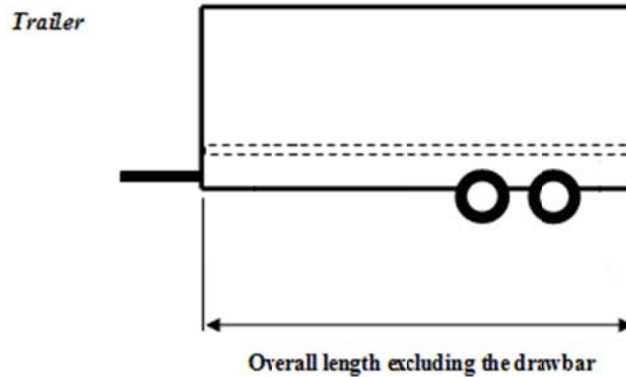
6.21.4.2.2.1. for motor vehicles, length of vehicle ~~excluding the cab~~, or in the case of tractors for semi-trailers, if fitted, the length of the cab; **however, when using the alternative marking mode per 6.21.4.2.1.1., the distance beginning within 2400 mm from the front end of vehicle to its rear end.**



**A is the distance between the foremost conspicuity marking and the front end of the vehicle. The maximum value of A is 2400 mm (see paragraph 6.21.4.2.1.1.)."**

Paragraph 6.21.4.2.2., amend to read:

"6.21.4.2.2.2. For trailers, the **overall** length of the vehicle (excluding the drawbar).



Existing Paragraph 6.21.4.2.2.3., delete

6.21.4.2.2.3. ~~However, if the manufacture can prove ..... test report 16/.~~

Paragraph 6.21.5., amend to read:

"6.21.5. Visibility

The conspicuity marking shall be considered visible, if at least **70** per cent of the illuminating surface of the installed marking is visible when viewed by an observer positioned at any point within the observation planes defined below:"

*Annex 1, Paragraph 10.5.*, amend to read:

"10.5. Comments regarding the extent of coverage of the conspicuity marking if it is less than the minimum value of **70** per cent required by paragraphs 6.21.4.1.2. and 6.21.4.2.2. of the Regulation."

(c) Part of Supplement 10 to the 04 series of amendments to UN Regulation No. 48. Amendments to GRE-67-26 (see para. 14 of the report).

*Paragraph 6.6.8.*, amend to read:

"6.6.8. Tell-tale  
Flashing circuit-closed tell-tale mandatory. "

## Annex VII

### Amendments to UN Regulation No. 50

Part of Supplement 16 to UN Regulation No. 50 (see para. 56 of the report).

*Annex 1*, amend to read:

#### "ANNEX 1

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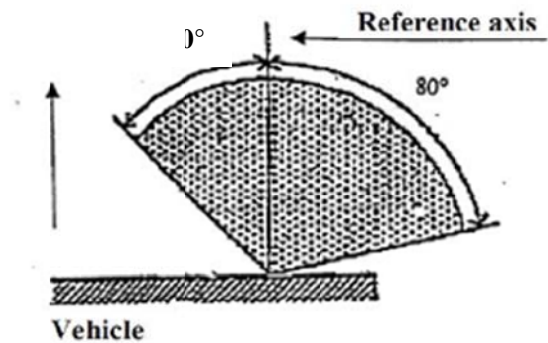
#### MINIMUM HORIZONTAL (H) AND MINIMUM VERTICAL (V) ANGLES FOR SPATIAL LIGHT DISTRIBUTION

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...  
Front position lamps (for a pair of lamps)

**Front position lamps (for a pair of lamps)**

**V = + 15 degrees / - 10 degrees**



"

## Annex VIII

### Amendments to UN Regulation No. 53

Part of Supplement 14 to the 01 series of amendments to UN Regulation No. 53 (see para. 56 of the report).

*Par. 6.6.4.*, amend to read:

"6.6.4.     Geometric visibility

Horizontal angle:   80 degrees to the left and to the right for a single lamp:  
the horizontal angle may be 80 degrees outwards and ~~45~~ **20** degrees inwards for each pair of lamps.

Vertical angle:     15 degrees above and below the horizontal.

The vertical angle below the horizontal may be reduced to 5 degrees, however, if the height of the lamp is less than 750 mm."

## Annex IX

### Amendments to UN Regulation No. 99

Supplement 8 to UN Regulation No. 99 (see para. 55 of the report).

*Annex 1, sheet DxR/4, the table, amend to read:*

"....

D1R: Cap PK32d-3	
D2R: Cap P32d-3	in accordance with IEC Publication 60061 (sheet 7004-111-4)
D3R: Cap PK32d-6	
D4R: Cap P32d-6	

...."

*Annex 1, sheet DxS/4, the table, amend to read:*

"...

D1S: Cap PK32d-2	
D2S: Cap P32d-2	in accordance with IEC Publication 60061 (sheet 7004-111-4)
D3S: Cap PK32d-5	
D4S: Cap P32d-5	

..."

*Annex 1, sheet D5S/1, the caption of figure1, amend to read:*

"Figure 1 - Category D5S - Cap PK32d-7"

*Annex 1, sheet D5S/3, the table, amend to read:*

"....

D5S: Cap PK32d-7	in accordance with IEC Publication 60061 (sheet 7004-111-4)
------------------	---

...."

*Annex 1, sheet D6S/3, the table, amend to read:*

"....

D6S: Cap P32d-1	in accordance with IEC Publication 60061 (sheet 7004-111-4)
-----------------	---

...."

*Annex 1, sheet D8S/3, the table, amend to read:*

"....

D8S: Cap PK32d-1	in accordance with IEC Publication 60061 (sheet 7004-111-4)
------------------	---

...."

## Annex X

### **Amendment to the Consolidated Resolution on the Construction of Vehicles (R.E.3)**

*Insert a new paragraph, 1.10., to read*

"1.10. *"Manufacturer"* means the person or body who is responsible to the approval authority for all aspects of the type approval process and for ensuring conformity of production. It is not essential that the person or body is directly involved in all stages of the construction of the vehicle or component which is the subject of the approval process."

## Annex XI

### **Amendment to Special Resolution No. 1 (S.R. 1)**

*Annex 1, Insert a new paragraph, 8., to read*

- "8. "Manufacturer" means the person or body who is responsible to the approval authority for all aspects of the type approval process and for ensuring conformity of production. It is not essential that the person or body is directly involved in all stages of the construction of the vehicle or component which is the subject of the approval process."



**Annex XII****GRE informal groups**

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<i>Informal group</i>	<i>Chair</i>	<i>Secretary</i>
New Draft Horizontal Regulation for light-signalling devices <i>(Suspended)</i>	Mr. C. Pichon (France) Tel: +33 1 69801756 Fax : +33 1 69801707 E-mail : christian.pichon@utac.com	GTB

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