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#### **ECONOMIC COMMISSION FOR EUROPE**

#### INLAND TRANSPORT COMMITTEE

World Forum for Harmonization of Vehicle Regulations

Working Party on Lighting and Light-Signalling

### REPORT OF THE WORKING PARTY ON LIGHTING AND LIGHT-SIGNALLING ON ITS SIXTY-SECOND SESSION (Geneva, 6 – 9 October 2009)

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#### I. ATTENDANCE

- 1. The Working Party on Lighting and Light-Signalling (GRE) held its sixty-second session from 6 (afternoon) to 8 October 2009 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; Netherlands; Norway; Poland; Republic of Korea; Russian Federation; Spain; Sweden 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: International Electrotechnical Commission (IEC); International Motorcycle Manufacturers Association (IMMA); International Association of the Body and Trailer Building Industry (CLCCR); European Association of Automobile Suppliers (CLEPA); International Organization of Motor Vehicle Manufacturers (OICA). Upon the special invitation of the Chairman, the experts from the Working Party "Brussels 1952" (GTB) participated.
- 2. The informal documents distributed during the session are listed in Annex I to this report.

#### II. ADOPTION OF THE AGENDA (Agenda item 1)

<u>Documentation</u>: ECE/TRANS/WP.29/GRE/2009/31, ECE/TRANS/WP.29/GRE/2009/31/Add.1, Informal document No. GRE-62-15

3. GRE agreed to insert new agenda items 4(f), 4(g), 14(d), 15(g), 15(h), 15(i) and 17, and adopted the agenda proposed for the sixty-second session.

# III. DEVELOPMENT OF NEW GLOBAL TECHNICAL REGULATIONS (gtrs) (Agenda item 2)

4. The GRE Chairman announced his intention to discuss the feasibility of developing a gtr on dipped beam lamps during the November 2009 session of the Administrative Committee for the Coordination of Work of the World Forum for Harmonization of Vehicle Regulations (WP.29/AC.2). GRE agreed to defer the discussion on this agenda item to its March 2010 session, awaiting the outcome from the session of AC.2.

# IV. 1958 AGREEMENT: AMENDMENTS TO EXISTING UNECE REGULATIONS

#### A. Regulation No. 37 (Filament lamp) (Agenda item 3)

<u>Documentation</u>: ECE/TRANS/WP.29/GRE/2009/32, ECE/TRANS/WP.29/GRE/2009/60, ECE/TRANS/WP.29/GRE/2009/61, Informal documents Nos. GRE-62-11 and GRE-62-32

5. GRE noted GRE-62-32 tabled by the expert from OICA (for information only), reporting some concerns on the new proposals of amendment to Regulation No. 37. GRE finally adopted ECE/TRANS/WP.29/GRE/2009/60 and ECE/TRANS/WP.29/GRE/2009/61 both not

amended and GRE-62-11 as reproduced in Annex II to this report. The secretariat was requested to submit to WP.29 and AC.1 ECE/TRANS/WP.29/GRE/2009/60 and ECE/TRANS/WP.29/GRE/2009/61, as draft Supplement 35 to the 03 series of amendments to Regulation No. 37 and GRE-62-11 as draft Corrigendum 2 to Revision 5 to Regulation No. 37, for consideration at their March 2010 sessions. Regarding ECE/TRANS/WP.29/GRE/2009/32 (for information only), GRE agreed to keep it on the agenda of its March 2010 session for reference purposes.

# B. Regulation No. 48 (Installation of lighting and light-signalling devices) (Agenda item 4)

1. Automatic activation of the hazard warning signal (Agenda item 4(a))

Documentation: ECE/TRANS/WP.29/GRE/2009/33, Informal document No. GRE-62-39

6. Regarding the provisions concerning the rear-end collision alert signal (RECASS), GRE adopted ECE/TRANS/WP.29/GRE/2009/33 (amended by GRE-62-39), as reproduced in Annex III to this report. However, the expert from EC expressed concerns on the lack of information about negative or positive effects on safety as a result of the introduction of RECASS in real traffic. The secretariat was requested to submit the proposal to WP.29 and AC.1, for consideration at their March 2010 sessions, as draft Supplement 5 to the 04 series of amendments to Regulation No. 48.

#### 2. Daytime running lamps switching (Agenda item 4(b))

Documentation: ECE/TRANS/WP.29/GRE/2009/34, Informal document No. GRE-62-33

7. GRE considered and adopted ECE/TRANS/WP.29/GRE/2009/34 (amended by GRE-62-33) as reproduced in Annex III to this report. The secretariat was requested to submit the proposal to WP.29 and AC.1, for consideration at their March 2010 sessions as part of (see para. 6) draft Supplement 5 to the 04 series of amendments to Regulation No. 48. The proposal contains a sunset clause for alternative means to automatic headlamp switching. The text appears in square brackets, awaiting a decision of WP.29 at its next sessions as to whether the clause should be removed, so that the alternative means to headlamp switching apply indefinitely.

#### 3. Clarifications on installation requirements (Agenda item 4(c))

Documentation: ECE/TRANS/WP.29/GRE/2009/2, ECE/TRANS/WP.29/GRE/2009/35, ECE/TRANS/WP.29/GRE/2009/36, ECE/TRANS/WP.29/GRE/2009/51, ECE/TRANS/WP.29/GRE/2009/52 and ECE/TRANS/WP.29/GRE/2009/52/Corr.1, ECE/TRANS/WP.29/GRE/2009/64, and ECE/TRANS/WP.29/GRE/2009/69, Informal documents Nos. GRE-62-12, GRE-62-28, GRE-62-30, GRE-62-31, GRE-62-36, GRE-62-37, GRE-62-38 and Rev.1 and 2, and GRE-62-40

8. GRE adopted ECE/TRANS/WP.29/GRE/2009/2 as amended below. The secretariat was requested to submit the proposal to WP.29 and AC.1, for consideration at their March 2010 sessions as draft Corrigendum 2 to Revision 5 to Regulation No. 48.

#### Paragraph 6.17.4.3., amend to read:

"6.17.4.3. ...

If the structure, **design or the operational use of the vehicle makes it impossible** to comply with such a..."

#### Paragraph 6.18.4.3., amend to read:

- "6.18.4.3. In length: ... If the structure, **design or the operational use** of the vehicle makes it **impossible** to comply with ..."
- 9. The expert from Austria withdrew ECE/TRANS/WP.29/GRE/2009/35. Moreover, due to the lack of support from GRE, the expert from Canada withdrew ECE/TRANS/WP.29/GRE/2009/52 and ECE/TRANS/WP.29/GRE/2009/52/Corr.1.
- 10. GRE adopted ECE/TRANS/WP.29/GRE/2009/51 not amended, ECE/TRANS/WP.29/GRE/2009/64 (in agreement with GRE-62-38/Rev. 2), as amended below, (see para. 12). The secretariat was requested to submit both proposals to WP.29 and AC.1, for consideration at their March 2010 sessions, as part of (see paras. 6 and 7) draft Supplement 5 to the 04 series of amendments to Regulation No. 48.

#### Annex 11, the angles in the figures, for "15" read "4"

- 11. With regard to the increase in the installation height allowance for side retro-reflector, GRE considered GRE-62-36 and requested the secretariat to distribute it at its March 2010 session with an official symbol.
- 12. In order to ensure consistent provisions to install conspicuity markings, GRE considered ECE/TRANS/WP.29/GRE/2009/36, ECE/TRANS/WP.29/GRE/2009/69, GRE-62-12, GRE-62-28, GRE-62-30, GRE-62-31, GRE-62-37, GRE-62-38 and Rev.1, and GRE-62-40. Taking into account all the comments received, GRE considered GRE-62-38 and Rev.1. GRE adopted GRE-62-38/Rev.2, superseding both official documents, as reproduced in Annex III of this report. The secretariat was requested to submit the proposal to WP.29 and AC.1, for consideration at their March 2010 sessions, as draft Supplement 5 to the 03 series of amendments to Regulation No. 48.
  - 4. Proposal for Corrigendum 2 to Supplement 2 to the 04 series of amendments (Agenda item 4(d))

<u>Documentation</u>: ECE/TRANS/WP.29/GRE/2009/38 and ECE/TRANS/WP.29/GRE/2009/38/Corr.1, Informal document No. GRE-62-22

13. GRE considered the above-mentioned documents. After a first exchange of views, GRE agreed to resume consideration of this agenda item at its March 2010 session, awaiting further comments from the experts. GRE also considered and adopted GRE-62-22, as reproduced in Annex III to this report. The secretariat was requested to submit the proposal to WP.29 and AC.1, for consideration at their November 2009 sessions, as draft Corrigendum 1 to

Supplement 2 to the 04 series of amendments to Regulation No. 48.

5. Automatic activation/deactivation of main beam (Agenda item 4(e))

<u>Documentation</u>: ECE/TRANS/WP.29/GRE/2009/59, Informal documents Nos. GRE-62-13, GRE-62-16 and GRE-62-18

- 14. GRE considered GRE-62-18 superseding ECE/TRANS/WP.29/GRE/2009/59 and consolidating the proposal of amendments tabled by the experts from the Netherlands (GRE-62-13) and Germany (GRE-62-16). GRE agreed to resume the discussion of this item at its March 2010 session awaiting a revised proposal to be prepared by the expert from GTB. It also agreed to keep GRE-62-18 on the agenda of the next meeting for reference only. Finally, it was decided to merge this item with that related to Regulations Nos. 48 and 123 (present agenda item 5(f)) in the agenda of the next session.
  - 6. Proposal for Corrigendum 1 to Supplement 3 to the 04 series of amendments (Agenda item 4(f))

Documentation: Informal documents Nos. GRE-62-08 and GRE-62-23

- 15. GRE adopted GRE-62-08 as reproduced in Annex III to this report. The secretariat was requested to submit the proposal to WP.29 and AC.1, for consideration at their March 2010 sessions as draft Corrigendum 1 to Supplement 3 to the 04 series of amendments to Regulation No. 48. GRE also noted GRE-62-23. GRE agreed to discuss this subject again on the basis of a revised proposal, voluntarily prepared by the expert from France, indicating dates of entry into force of draft amendments in proper transitional provisions.
  - 7. Proposal for Corrigendum 1 to Supplement 4 to the 03 series of amendments (Agenda item 4(g))

Documentation: Informal document No. GRE-62-24

16. GRE adopted GRE-62-24 as reproduced in Annex III to this report. The secretariat was requested to submit the proposal to WP.29 and AC.1, for consideration at their March 2010 sessions, as draft Corrigendum 1 to Supplement 4 to the 04 series of amendments to Regulation No. 48.

#### C. Collective amendments (Agenda item 5)

1. Simplification of the approval markings (Agenda item 5(a))

Documentation: ECE/TRANS/WP.29/GRE/2004/24

17. GRE was informed by the expert from GTB about the work progress made by the informal group on the "electronic database for the exchange of type approval documentation" (DETA). The expert from GTB underlined that his organization had actively participated in the activity of the informal group. GRE agreed to keep this item on its agenda. GRE noted that the report of the fifth session of DETA was available at:

http://www.unece.org/trans/main/wp29/wp29wgs/wp29gen/gendeta05.html.

# 2. Phantom light and colour washout phenomena in signalling and marking devices (Agenda item 5(b))

18. GRE agreed to discuss this agenda item again at its March 2010 session awaiting a proposal on the luminous distribution and the assessment of the contrast difference between night and the sun load conditions.

#### 3. Regulations Nos. 4, 6, 7, 23, 38, 50, 77, 87, 91 and 119 (Agenda item 5(c))

Documentation: ECE/TRANS/WP.29/GRE/2008/3, Informal document No. GRE-62-10

19. GRE adopted GRE-62-10 superseding ECE/TRANS/WP.29/GRE/2008/3, as reproduced in Annex IV to this report. The secretariat was requested to submit the proposal to WP.29 and AC.1 for consideration at their March 2010 sessions, as draft Supplement 15 to Regulation No. 4, as draft Supplement 20 to the 01 series of amendments to Regulation No. 6, as draft Supplement 17 to 02 series of amendments to Regulation No. 7, as draft Supplement 16 to Regulation No. 23, as draft Supplement 15 to Regulation No. 38, as draft Supplement 13 to Regulation No. 50, as draft Supplement 13 to Regulation No. 77, as draft Supplement 15 to Regulation No. 87, as draft Supplement 12 to Regulation No. 91 and as draft Supplement 5 to Regulation No. 119.

### 4. Regulations Nos. 19, 48, 98, 112 and 123 (Agenda item 5(d))

<u>Documentation</u>: ECE/TRANS/WP.29/GRE/2009/20, ECE/TRANS/WP.29/GRE/2009/45, ECE/TRANS/WP.29/GRE/2009/46, ECE/TRANS/WP.29/GRE/2009/47 and ECE/TRANS/WP.29/GRE/2009/48, Informal documents Nos. GRE-62-01, GRE-62-09 and GRE-62-26

20. GRE noted GRE-62-01 tabled by the expert from GTB for information only. GRE adopted ECE/TRANS/WP.29/GRE/2009/48 not amended, ECE/TRANS/WP.29/GRE/2009/20 (amended by GRE-62-09) as reproduced in Annex V this ECE/TRANS/WP.29/GRE/2009/45 as amended below, ECE/TRANS/WP.29/GRE/2009/46 not amended and ECE/TRANS/WP.29/GRE/2009/47 (amended by GRE-62-26) as reproduced in Annex V to this report. The secretariat was requested to submit the proposals to WP.29 and AC.1 for consideration at their March 2010 sessions, as draft 04 series of amendments to Regulation No. 19, as part of (see paras. 6, 7 and 10) draft Supplement 5 to the 04 series of amendments to Regulation No. 48, as draft 01 series of amendments to Regulation No. 98, as draft 01 series of amendments to Regulation No. 112 and as draft 01 series of amendments to Regulation No. 123.

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Paragraph 6.2.5., max luminous intensity (cd) of the table, for "315" read "350".

Paragraph 1.1.1.2., the proposed amendment shall be deleted

#### 5. Regulations Nos. 7 and 48 (Agenda item 5(e))

<u>Documentation</u>: ECE/TRANS/WP.29/GRE/2009/37, ECE/TRANS/WP.29/GRE/2009/41, ECE/TRANS/WP.29/GRE/2009/62, ECE/TRANS/WP.29/GRE/2009/63, Informal documents Nos. GRE-62-02 and Rev. 1, and GRE-62-25

The expert from GTB made a presentation (GRE-62-02/Rev.1) of his updated proposals to amend Regulations Nos. 7 and 48. GRE adopted ECE/TRANS/WP.29/GRE/2009/41, as amended below, ECE/TRANS/WP.29/GRE/2009/62 and ECE/TRANS/WP.29/GRE/2009/37 not amended and ECE/TRANS/WP.29/GRE/2009/63 (amended by GRE-62-25) as reproduced in Annex VI to this report. The secretariat was requested to submit the proposals to WP.29 and AC.1, for consideration at their March 2010 sessions as part of (see para. 19) draft Supplement 17 to the 02 series of amendments to Regulation No. 7 and as part of (see paras. 6,7, 10 and 20) draft Supplement 5 to the 04 series of amendments to Regulation No. 48.

#### Paragraph 4.3.1., amend to read:

### "4.3.1. Independent lamps

Annex 3, paragraphs 1 to 6, gives examples of the approval mark with the above-mentioned additional symbols.

### If ..., provided that:"

#### 6. Regulations Nos. 48 and 123 (Agenda item 5(f))

<u>Documentation</u>: ECE/TRANS/WP.29/GRE/2009/56 and ECE/TRANS/WP.29/GRE/2009/57, Informal documents Nos. GRE-62-05, GRE-62-14, GRE-62-17, GRE-62-19, GRE-62-20 and GRE-62-21

22. GRE considered ECE/TRANS/WP.29/GRE/2009/56, ECE/TRANS/WP.29/GRE/2009/57, GRE-62-19, GRE-62-20 and GRE-62-21. The proposals received some comments and GRE agreed to resume the discussion of this agenda item at its March 2010 session, awaiting consolidated proposals taking into account the amendments introduced by GRE-62-05, GRE-62-13 (already considered under agenda item 4(e)), GRE-62-14 and GRE-62-17. Furthermore, GRE agreed to keep GRE-62-13, GRE-62-20 and GRE-62-21 on the agenda of the next meeting for reference only.

#### 7. Regulations Nos. 6, 7, 48, 77 and 91 (Agenda item 5(g))

Documentation: ECE/TRANS/WP.29/GRE/2009/66, Informal document No. GRE-62-03

23. GRE adopted GRE-62-03 and ECE/TRANS/WP.29/GRE/2009/66 amended as

reproduced in Annex VII to this report. The secretariat was requested to submit GRE-62-03l to WP.29 and AC.1, for consideration at their November 2009 sessions as draft Corrigendum 1 to Supplement 18 to the 01 series of amendments to Regulation No. 6 and ECE/TRANS/WP.29/GRE/2009/66 to their March 2010 sessions as part of (see para. 19) draft Supplement 12 to Regulation No. 91.

#### D. New draft Regulation for light-signalling devices (Agenda item 6)

Documentation: ECE/TRANS/WP.29/GRE/2008/32

24. Following the discussion, the Chairman of GRE solicited further examination of and comments on ECE/TRANS/WP.29/GRE/2008/32 to ensure that this draft proposal would reflect the experts' wishes. GRE agreed to resume the discussion of this agenda item awaiting a presentation by the Chairman of GRE and the expert from France in order to come to a common understanding on the proposal.

### E. Regulation No. 6 (Direction indicators) (Agenda item 7)

Documentation: ECE/TRANS/WP.29/GRE/2009/44

25. GRE adopted ECE/TRANS/WP.29/GRE/2009/44 not amended. The secretariat was requested to submit the proposal to WP.29 and AC.1, for consideration at their March 2010 sessions as draft Corrigendum 2 to Supplement 18 to the 01 series of amendments to Regulation No. 6.

#### F. Regulation No. 10 (Electromagnetic compatibility) (Agenda item 8)

<u>Documentation</u>: ECE/TRANS/WP.29/GRE/2009/8 and ECE/TRANS/WP.29/GRE/2009/65, Informal documents Nos. GRE-62-27, GRE-62-29 and GRE-62-34

26. GRE noted additional explanations tabled by the expert from Japan regarding his proposal (GRE-62-27) and adopted ECE/TRANS/WP.29/GRE/2009/8 (amended by GRE-62-34) and GRE-62-29 as reproduced in Annex VIII to this report. The secretariat was requested to submit the proposals to WP.29 and AC.1, for consideration at their March 2010 sessions as draft Corrigendum the 03 series of amendments Regulation 1 to (ECE/TRANS/WP.29/GRE/2009/8 and GRE-62-34) and as draft Supplement 1 to the 03 series of amendments to Regulation No. 10 (GRE-62-29). Finally, the expert from OICA withdrew ECE/TRANS/WP.29/GRE/2009/65.

#### G. Regulation No. 19 (Front fog lamps) (Agenda item 9)

<u>Documentation</u>: ECE/TRANS/WP.29/GRE/2009/50

27. GRE adopted ECE/TRANS/WP.29/GRE/2009/50 not amended. The secretariat was requested to submit the proposal to WP.29 and AC.1, for consideration at their March 2010 sessions, as draft Corrigendum 5 to the 03 series of amendments to Regulation No. 19.

#### H. Regulation No. 23 (Reversing lamps) (Agenda item 10)

Documentation: ECE/TRANS/WP.29/GRE/2009/42

28. GRE considered ECE/TRANS/WP.29/GRE/2009/42 and agreed to address again this agenda item at its March 2010 session, awaiting a revised proposal, jointly prepared by the experts from Poland and the United Kingdom, aimed at including all the Regulations to which the proposal would apply.

### I. Regulation No. 99 (Gas-discharge light sources) (Agenda item 11)

Documentation: ECE/TRANS/WP.29/GRE/2009/58

29. GRE adopted ECE/TRANS/WP.29/GRE/2009/58 not amended. The secretariat was requested to submit the proposal to WP.29 and AC.1, for consideration at their March 2010 sessions, as draft Supplement 6 to Regulation No. 99.

# J. <u>Regulation No. 112 (Headlamps emitting an asymmetrical passing beam)</u> (Agenda item 12)

Documentation: ECE/TRANS/WP.29/GRE/2009/43

30. GRE adopted ECE/TRANS/WP.29/GRE/2009/43 not amended. The secretariat was requested to submit the proposal to WP.29 and AC.1, for consideration at their March 2010 sessions, as draft Corrigendum 3 to Supplement 8 to Regulation No. 112.

#### K. Conspicuity of motorcycles (Agenda item 13)

31. GRE agreed to continue to examine this agenda item at its next session and encouraged the expert of GRE to submit proposals to improve the conspicuity of motorcycles such as colour of headlamp or position lamp, configuration of lamps, etc.

# L. Regulation No. 53 (Installation of lighting and light-signalling devices on L<sub>3</sub> category of vehicles) (Agenda item 14)

1. Visibility of horizontal inclination adjustment system (HIAS) for motorcycles and glare (Agenda item 14(a))

Documentation: ECE/TRANS/WP.29/GRE/2009/39

32. GRE adopted ECE/TRANS/WP.29/GRE/2009/39 as amended by Annex IX to this report. The secretariat was requested to submit the proposal to WP.29 and AC.1 for consideration at their March 2010 sessions, as draft Supplement 11 to the 01 series of amendments to Regulation No. 53.

#### 2. Proposal for draft amendments (Agenda item 14(b))

Documentation: ECE/TRANS/WP.29/GRE/2009/54 and ECE/TRANS/WP.29/GRE/2009/67

- 33. The expert from IMMA introduced ECE/TRANS/WP.29/GRE/2009/54 in order to amend the requirements for side retro-reflector. However, the proposal did not receive the support of GRE. It was agreed to remove the proposal from the agenda of the next meeting.
- 34. GRE considered ECE/TRANS/WP.29/GRE/2009/67 on the addition of amber to the colors of the front position lamps. Some experts raised safety concerns. GRE agreed to discuss this subject again at its March 2010 session awaiting studies in support of the proposal.
  - 3. Installation requirements for daytime running lamps (Agenda item 14(c))

Documentation: ECE/TRANS/WP.29/GRE/2009/40

- 35. GRE adopted ECE/TRANS/WP.29/GRE/2009/40 not amended. The secretariat was requested to submit the proposal to WP.29 and AC.1 for consideration at their March 2010 sessions, as part of (see para. 32) draft Supplement 11 to the 01 series of amendments to Regulation No. 53.
  - 4. Proposal for Corrigendum 1 to Supplement 10 to the 01 series of amendments to Regulation No. 53 (Agenda item 14(d))

Documentation: Informal document GRE-62-35

- 36. GRE adopted GRE-62-35 as reproduced in Annex IX to this report. The secretariat was requested to submit the proposal to WP.29 and AC.1 for consideration at their November 2009 sessions, as draft Corrigendum 1 to Supplement 10 to the 01 series of amendments to Regulation No. 53.
- V. OTHER BUSINESS (Agenda item 15)
- A. <u>Amendments to the Convention on Road Traffic (Vienna 1968)</u>
  (Agenda item 15(a))

Documentation: TRANS/WP.29/GRE/2005/29

37. GRE was informed by the expert from IMMA about the outcome of the Working Party on Road Traffic Safety (WP.1) at its September 2009 session. GRE noted that WP.1 had a general agreement regarding the "equivalence" clause in the Vienna Convention, i.e. recognizing the 1958 Regulations as equivalent to the corresponding provisions of the Vienna Convention. GRE agreed to keep this item on the agenda, awaiting further information from WP.1.

# B. <u>1997 Agreement (inspections) - Development of draft rule No. 2</u> (Agenda item 15(b)

Documentation: ECE/TRANS/WP.29/2009/77

38. GRE was informed about the latest developments on this subject during the June session of WP.29 (see ECE/TRANS/WP.29/1077, para. 66) and decided to remove this item from the agenda of its March 2010 session.

### C. Regulation No. 27 (Advance warning triangles) (Agenda item 15(c))

Documentation: ECE/TRANS/WP.29/GRE/2009/49

39. GRE adopted ECE/TRANS/WP.29/GRE/2009/49 not amended. The secretariat was requested to submit the proposal to WP.29 and AC.1, for consideration at their March 2010 sessions, as draft Corrigendum 1 to Revision 1 to Regulation No. 27.

# D. Regulation No. 74 (Installation of lighting and light-signalling devices (mopeds) (Agenda item 15(d))

Documentation: ECE/TRANS/WP.29/GRE/2009/53

40. GRE noted ECE/TRANS/WP.29/GRE/2009/53. However the proposal did not receive the support of GRE and it was agreed to remove it from the agenda of its next session.

#### E. New draft Regulation on light-emitting diode light sources (Agenda item 15(e))

Documentation: ECE/TRANS/WP.29/GRE/2009/55

41. GRE adopted ECE/TRANS/WP.29/GRE/2009/55 not amended. The secretariat was requested to submit the proposal to WP.29 and AC.1 for consideration at their March 2010 sessions, as a new draft Regulation on light-emitting diode light sources (LED).

# F. Regulation No. 50 (Position, stop, direction indicator lamps for mopeds and motorcycles) (Agenda item 15(f))

Documentation: ECE/TRANS/WP.29/GRE/2009/68, Informal document No. GRE-62-04

- 42. Regarding the proposed addition of amber to the colors of the front position lamp in Regulation No. 50 (ECE/TRANS/WP.29/GRE/2009/68), GRE came to the same conclusion as for agenda item 14(b), i.e. postpone the discussion of this subject to its March 2010 session, awaiting studies in support of the proposal.
- 43. GRE also considered GRE-62-04 and agreed to resume discussion of this agenda item at its March 2010 session awaiting a revised document also amending Regulations Nos. 7 and 53, jointly prepared by the experts from Japan and GTB. Furthermore, GRE agreed to keep GRE-62-04 on the agenda of the next meeting for reference only.

### G. Regulation No. 7 (Front and rear position (side) lamps, stop lamps and endoutline marker lamps) (Agenda item 15(g))

Documentation: Informal document No. GRE-62-06

44. GRE adopted GRE-62-06 as reproduced in Annex X to this report. The secretariat was requested to submit the proposal to WP.29 and AC.1, for consideration at their March 2010 sessions, as draft Corrigendum 3 to Supplement 12 to the 02 series of amendments to Regulation No. 7.

#### H. Regulation No. 104 (Retro-reflective markings) (Agenda item 15(h))

Documentation: Informal document No. GRE-62-07

45. GRE adopted GRE-62-07 as reproduced in Annex XI to this report. The secretariat was requested to submit the proposal to WP.29 and AC.1, for consideration at their March 2010 sessions, as draft Corrigendum 2 to Supplement 3 to Regulation No. 104.

#### I. Tribute to Mr. G. Dorleans (Agenda item 15(i))

46. Learning that Mr. G. Dorleans (CLEPA) would no longer participate in the GRE sessions, the group acknowledged his valuable contribution to the GRE work and wished him all the best in his future activities.

#### VI. DIRECTION FOR FUTURE GRE WORK (Agenda item 16)

47. GRE did not have any suggestion to further streamline the decision-making process of the group.

#### VII. ELECTION OF OFFICERS (Agenda item 17)

48. In compliance with Rule 37 of the Rules of Procedure (TRANS/WP.29/690 and Amend.1), GRE called for the election of officers. The representatives of the Contracting Parties, present and voting, re-elected unanimously Mr. M. Gorzkowski (Canada) as Chairman of the GRE sessions scheduled for the year 2010.

#### VIII. PROVISIONAL AGENDA FOR THE NEXT SESSION

49. GRE did not consider the provisional agenda for the sixty-third session of GRE, scheduled to be held from 29 March to 1 April 2010. Instead, it was agreed that the Chairman, jointly with the secretariat, would propose a draft agenda. GRE noted that the deadline for submission of official documents to the secretariat was set on 1 January 2010, twelve weeks prior to the session.

Annex I

LIST OF INFORMAL DOCUMENTS DISTRIBUTED DURING THE SESSION (GRE-62-...)

No.	Transmitted by	Agenda item	Language	Title	Follow -up
1.	GTB	5(d)	Е	Supporting information regarding ECE/TRANS/WP.29/GRE/2009/20, ECE/TRANS/WP.29/GRE/2009/45, ECE/TRANS/WP.29/GRE/2009/46, ECE/TRANS/WP.29/GRE/2009/47 and ECE/TRANS/WP.29/GRE/2009/48	(c)
2.	GTB	5(e)	Е	Proposals to amend Regulations Nos. 7 and 48 to introduce interdependent lamps systems	(c)
3.	Japan	5(g)	Е	Proposal for amendments to ECE/TRANS/WP.29/GRE/2009/66	(d)
4.	Japan	15(f)	Е	Proposal for Supplement $13$ to Regulation No. $50$	(a)
5.	Japan	5(f)	Е	Proposal for amendments to ECE/TRANS/WP.29/GRE/2009/56	(a)
6.	GTB	15(g)	E	Proposal for Corrigendum 3 to Supplement 12 to the 02 series of amendments to Regulation No. 7	(d)
7.	CLEPA	15(h)	E	Proposal for Corrigendum 2 to Supplement 3 to Regulation No. 104	(d)
8.	GTB	4(f)	E	Proposal for Corrigendum 1 to Supplement 3 to the 04 Series of amendments to Regulation No. 48	(d)
9.	GTB	5(d)	Е	Proposal for corrigendum to ECE/TRANS/WP.29/GRE/2009/20	(d)
10.	Germany	5(c)	Е	Collective amendments - Regulations Nos. 4, 6, 7, 23, 38, 50, 77, 87, 91 and 119	(d)
11.	IEC	3	Е	Proposal for Corrigendum 1 to Revision 5 to Regulation No. 37	(d)
12.	CLEPA	4(c)	Е	Proposal for Supplement 5 to the 04 series of amendments to Regulation No. 48	(c)
13.	The Netherlands	4(e)	Е	Proposal for amendments to ECE/TRANS/WP.29/GRE/2009/59	(a)
14.	United Kingdom	5(f)	Е	Proposal for amendments to ECE/TRANS/WP.29/GRE/2009/56	(a)
15.	GRE secretariat	1	E	Modified provisional agenda of GRE 62nd session	(a)
16.	Germany	4(e)	Е	Proposal for amendments to ECE/TRANS/WP.29/GRE/2009/59	(c)
17.	Germany	5(f)	Е	Proposal for amendments to ECE/TRANS/WP.29/GRE/2009/57	(a)

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No.	Transmitted by	Agenda item	Language	Title	Follow -up
18.	GTB	4(e)	Е	Proposal for amendments to ECE/TRANS/WP.29/GRE/2009/59 (Consolidated proposal)	(a)
19.	GTB	5(f)	E	Proposal for amendments to ECE/TRANS/WP.29/GRE/2009/56	(c)
20.	GTB	5(f)	Е	Proposal for amendments to ECE/TRANS/WP.29/GRE/2009/56 (Consolidated proposal)	(a)
21.	GTB	5(f)	E	Proposal for amendments to ECE/TRANS/WP.29/GRE/2009/57 (Consolidated proposal)	(a)
22.	France	4(d)	Е	Proposal for Corrigendum 2 to Supplement 2 to the 04 series of amendments to Regulation No. 48	(d)
23.	France	4(f)	E	Proposal for Corrigendum 1 to Supplement 3 to the 04 series of amendments to Regulation No. 48	(a)
24.	France	4(g)	Е	Proposal for Corrigendum 1 to Supplement 4 to the 03 series of amendments to Regulation No. 48	(d)
25.	GTB	5(e)	Е	Proposal for Addendum to ECE/TRANS/WP.29/GRE/2009/63	(d)
26.	GTB	5(d)	Е	Proposal for Addendum to ECE/TRANS/WP.29/GRE/2009/47	(d)
27.	Japan	8	Е	Detailed justification to ECE/TRANS/WP.29/GRE/2009/8	(c)
28.	Austria	4(c)	Е	Proposal for amendments to ECE/TRANS/WP.29/GRE/2009/69	(c)
29.	OICA	8	Е	Proposal for amendments to Regulation No. 10	(d)
30.	OICA	4(c)	E	OICA's concerns about the proposal for mandatory installation of side retro reflectors on all vehicles	(c)
31.	Italy	4(c)	E	Proposal for changes to ECE/TRANS/WP.29/GRE/2009/69	(c)
32.	OICA	3	E	Proposal for changes to ECE/TRANS/WP.29/GRE/2009/61	(c)
33.	OICA	4(b)	E	Proposal for amendments to Regulation No. 48	(d)
34.	France	8	Е	Proposal for Corrigendum 1 to the 03 series of amendments to Regulation No. 10	(d)
35.	France	14(d)	E	Proposal for Corrigendum 1 to Supplement 10 to the 01 series of amendments to Regulation No. 53	(d)

No.	Transmitted by	Agenda item	Language	Title	Follow -up
36.	CLCCR	4(c)	Е	Proposal for draft amendment to Regulation No. 48	(b)
37.	Germany	4(c)	E	Conspicuity markings - Proposal for draft amendment to Regulation No. 48	(c)
38/ Rev.2	Germany	4(c)	E	Conspicuity markings - Proposal for draft amendment to Regulation No. 48	(d)
39.	Japan	4(a)	E	Proposal for corrigendum to ECE/TRANS/WP.29/GRE/2009/33	(d)
40.	CLCCR	4(c)	Е	Conspicuity markings - Proposal for draft amendment to Regulation No. 48	(d)

<u>Reconsideration of informal documents from the previous GRE sessions</u> (referring to agenda item and follow-up decision of the current session)

No.	Transmitted by	Agenda item	Language	Title	Follow- up
60-06	GTB	3	Е	Proposal for Supplement 33 to the 03 series	(c)
				of amendments to Regulation No. 37	
				(filament lamps)	
60-19	India	3	E	India's comments on the new proposal to	(c)
				Regulation No. 37:	
				ECE/TRANS/WP.29/GRE/2008/39	
61-01	GTB	5(b)	E	Phantom light effects in rear signalling lamp	(a)
				combinations of modern vehicles	
61-30	India	3		India's comments on new proposal for	(c)
				Regulation No. 48	
				(ECE/TRANS/WP.29/GRE/2009/3)	
61-32	Japan	14(b)	E	Proposal for draft amendments to Regulation	(a)
				No. 53 (Installation of lights on motorcycles)	
61-35	India	14(b)	E	Comments by the expert from India on new	(a)
				proposal for Regulation No. 53	
				ECE/TRANS/WP.29/GRE/2009/5	

### Notes:

- (a) Continue consideration at the next GRE session as an informal document
- (b) Continue consideration at the next GRE session as an official document
- (c) Consideration completed or to be superseded
- (d) Adopted and to be submitted to WP.29

### Annex II

# AMENDMENTS TO REGULATION No. 37

# ADOPTED ON THE BASIS OF GRE-62-11 (see para. 5 of the report)

### Annex 1,

Sheet R5W/1, the table, amend to read:

" . . .

Ī	Reference luminous flux	White:	50 lm
	at approximately 13.5 V:	Red:	<b>12</b> lm

"

#### Annex III

#### AMENDMENTS TO REGULATION No. 48

# AMENDMENTS ADOPTED TO ECE/TRANS/WP.29/GRE/2009/33 (see para. 6 of the report)

. . .

#### Paragraph 6.25.7., amend to read:

"6.25.7. Electrical connections. Compliance with these requirements shall be demonstrated by the applicant, by simulation or other means of verification accepted by the Technical Service responsible for type approval."

. .

# AMENDMENTS ADOPTED TO ECE/TRANS/WP.29/GRE/2009/34 (see para. 7 of the report)

. . .

#### Insert a new paragraph 6.1.7.1., to read:

"6.1.7.1. **Except when they are used to give intermittent luminous warnings at short intervals t**he main-beam headlamps may be switched ON, in a steady burning state, only when the master light switch is in headlamps ON position or in "AUTO" (automatic) position and the conditions for automatic activation of dipped beam exist. In the latter case, the main beam headlamps shall be switched off automatically when the conditions for automatic activation of dipped beam ceased to exist."

. . .

#### New paragraph 6.2.7.6.3., amend to read:

- "6.2.7.6.3. [industry proposal for positive message to the driver that he/she must switch the lights ON ] [\*/] Distinctive means are provided to inform the driver that the headlamps, position lamps and if so equipped end outline marker lamps and side marker lamps are not illuminated. Such means are:
- 6.2.7.6.3.1. two distinctly different levels of instrument panel illumination intensity are provided during night and day, indicating to the driver that the dipped beam headlamps shall be switched ON [\*/]; or

- 6.2.7.6.3.2. non-illuminated indicators and identification of hand controls that are required by Regulation No. 121 to be illuminated when the headlamps are activated [\*/]; or
- 6.2.7.6.3.3. a tell-tale visual, auditory or both, shall be activated only in reduced ambient lighting conditions as defined in Annex 12 to inform the driver that the dipped beam headlamps should be switched ON. Once the tell-tale is activated, it shall only be extinguished when the dipped beam headlamps have been switched on or the device which starts and/or stops the engine (propulsion system) is set in a position which makes it impossible for the engine (propulsion system) to operate [\*/]."

. .

#### New paragraph 6.2.7.7., amend to read:

"6.2.7.7. Without prejudice to paragraph 6.2.7.6.1., **the dipped-beam headlamps** they may switch ON and OFF automatically relative to other factors such as time or ambient conditions (e.g. time of the day, vehicle location, rain, fog, etc.)."

..

### New Annex 12, amend to read:

#### "Annex 12

AUTOMATIC SWITCHING COND	DITIONS DIPPED-BEAM	M HEADLAMPS 1/
Ambient light outside the vehicle 2/	Dipped-beam	Response time
	headlamps	
less than	ON	no more than 2
1000 lux		seconds
between	at manufacturer's	at manufacturer's
1000 lux and	discretion	discretion
7,000 lux		
more than 7,000 lux	OFF	more than 5 seconds,
		but no more
		than 300 seconds

- $\underline{1}$ / Compliance with these conditions shall be demonstrated by the applicant, by simulation or other means of verification accepted by the **authority** responsible for type approval.
- <u>2</u>/ This requirement shall be deemed to have been met when the dipped beam headlamps are activated in no more than 2 seconds.

Annex III

- 3/ This requirement shall be deemed to have been met when the dipped-beam headlamps are switched OFF in [more than 60 seconds, but] no more than 300 seconds."
- <u>2</u>/ [The illuminance shall be measured on a horizontal surface, with a cosine corrected sensor on the same height as the mounting position of the sensor on the vehicle. This may be demonstrated by the manufacturer by sufficient documentation or by other means accepted by the authority responsible for type approval.]"

# ADOPTED ON THE BASIS OF GRE-62-38/Rev.2 (see para. 12 of the report)

Paragraphs 6.21.1.2.1. to 6.21.1.2.3., amend to read:

"6.21.1.2.1. to the rear:

...

- (b) O<sub>3</sub> and O<sub>4</sub> (with the exception of incomplete vehicles)
- 6.21.1.2.2. to the side:
- 6.21.1.2.2.1. partial contour marking on vehicles exceeding 6,000 mm in length (**including the drawbar for trailers**) of the following categories:

. . .

- (b) O<sub>3</sub> and O<sub>4.</sub> (with the exception of incomplete vehicles)"
- 6.21.1.2.3. **A line marking may be installed instead of the mandatory contour marking if** the shape, structure, design or operational requirements of the vehicle make it impossible to install the mandatory contour marking. a line marking may be installed."

Insert new paragraphs 6.21.1.2.4. and 6.21.1.2.5., to read:

- "6.21.1.2.4. If the exterior surfaces of the bodywork are partially constituted of flexible material, this line marking shall be installed on (a) rigid part(s) of the vehicle. The remaining portion of conspicuity markings may be fitted on the flexible material. However, if the exterior surfaces of the bodywork are fully constituted of flexible material, requirements of paragraph 6.21. shall be met.
- 6.21.1.2.5. In cases where the manufacturer, after verification by the Technical Service, can prove to the satisfaction of the authority responsible for type

approval that it is impossible, due to the operational requirements which may require special shape, structure or design of the vehicle, to comply with the requirements contained in paragraphs 6.21.2. to 6.21.7.5., then partial fulfilment of some of these requirements is acceptable. This is conditional upon a portion of the requirements being met where possible, and the application of conspicuity markings that partially meet requirements maximised on the vehicle structure. This may include fitting of additional brackets or plates containing material compliant with Regulation No. 104 where structure is available to ensure clear and uniform signalling compatible with the objective of conspicuity.

Where partial fulfillment is deemed acceptable, retro-reflective devices like retro-reflectors of class IV of Regulation No. 3 or brackets containing retro-reflecting material compliant with photometric requirements of Class C of Regulation No. 104 may substitute part of the required conspicuity markings. In this case, at least one of these retroreflective devices shall be installed per 1500 mm.

The necessary information shall be indicated in the communication form."

#### Paragraph 6.21.3., amend to read:

#### "6.21.3. Arrangement

The conspicuity markings shall be as close as practicable to horizontal and vertical, compatible with the shape, structure, design and operational requirements of the vehicle; if this is not possible, the full or partial contour markings, when fitted, shall follow as close as practicable the contour of the outer shape of the vehicle.

Furthermore, the conspicuity markings shall be spaced as evenly as possible over the horizontal dimensions of the vehicle such that the total length and/or width of the vehicle can be identified."

#### Paragraph 6.21.4.3.1., amend to read:

"6.21.4.3.1. Line markings and contour markings lower element(s)

As low as practicable within the range:

Minimum: not less than 250 mm above the ground.

Maximum: not more than 1,500 mm above the ground.

However, a maximum mounting height of 2,500 mm may be accepted where the shape, structure, design or operational conditions of the vehicle prevent

compliance with the maximum value of 1,500 mm or, if necessary, to fulfil the requirements of paragraphs 6.21.4.1.2., 6.21.4.1.3., 6.21.4.2.2. and 6.21.4.2.3., or the horizontal positioning of the line marking or the lower element(s) of the contour marking.

The necessary justification for installation of conspicuity material higher than 1500 mm shall be indicated in the communication form."

#### Paragraphs 6.21.5. to 6.21.5.2.2., amend to read:

### "6.21.5. <u>Visibility</u>

The conspicuity marking shall be considered visible, if at least 80 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:

#### Paragraph 6.21.5.1.2., amend to read:

"6.21.5.1.2. in width, by two vertical planes which form an angle of **4**° outwards from the vehicle's median longitudinal plane and which pass through the intersection of the vertical planes parallel to the vehicle's median longitudinal plane delimiting the vehicle's overall width, and the plane perpendicular to the longitudinal axis of the vehicle that delimits the end of the vehicle."

#### Paragraphs 6.21.5.2.1. and 6.21.5.2.2., amend to read:

- "6.21.5.2.1. in height, by two horizontal planes **1.0** m and **1.5** m respectively above the ground,
- 6.21.5.2.2. in width, by two vertical planes which form an angle of **4**° outwards from a plane perpendicular to the vehicle's longitudinal axis and which pass through the intersection of the vertical planes perpendicular to the vehicle's longitudinal axis delimiting the vehicle's overall length and the extreme outer edge of the vehicle."

#### Paragraphs 6.21.6.1. to 6.21.6.2., amend to read:

#### "6.21.6.1. To the side:

As close as practicable to being parallel to the median longitudinal plane of the vehicle, compatible with the shape, structure, design and operation requirements of the vehicle; if this is not possible, it shall follow as close as practicable the contour of the outer shape of the vehicle.

#### 6.21.6.2. To the rear:

As close as practicable to being parallel to the transverse plane of the vehicle,

compatible with the shape, structure, design and operation requirements of the vehicle, if this is not possible, it shall follow as close as practicable the contour of the outer shape of the vehicle."

"6.21.7.2. In the case of a partial contour marking, each upper corner shall be described by two lines at 90°, to each other and each at least 250 mm in length; if this is not possible, the marking shall follow as close as practicable the contour of the outer shape of the vehicle."

#### Annex 1,

Insert a new paragraph 9.24.4., to read:

9.24.4. Exemption regarding conspicuity marking	Rear yes/no <u>2</u> /
according to paragraph 6.21.1.2.5.	Comments:
	Side yes/no <u>2</u> /

Insert a new paragraph 10.7., to read:

"10.7. Comments regarding conspicuity marking (according to paragraphs 6.21.1.2.5., and 6.21.4.3.1. of this Regulation)....."

Insert a new paragraph 10.8., to read:

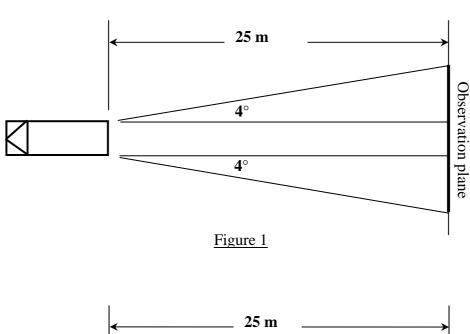
"10.8. Comments regarding conspicuity marking (Incomplete vehicle or Complete Vehicles) according to paragraphs 6.21.1.2.1. and 6.21.1.2.1.1.:

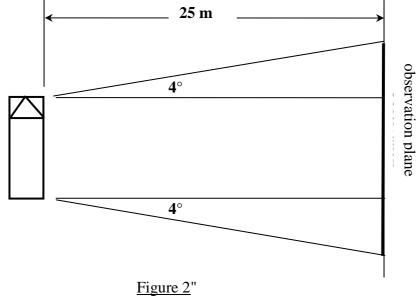
Incomplete vehicles: yes/no
Complete vehicles: yes/no
Completed vehicles: yes/no"

### Annex 11, amend to read:

"Annex 11
VISIBILITY OF CONSPICUITY MARKINGS TO THE REAR AND SIDE OF A VEHICLE

(see paragraph 6.21.5. of this Regulation)





# ADOPTED ON THE BASIS OF GRE-62-22

(see para. 13 of the report)

#### Paragraph 12.17., amend to read:

"12.17. Paragraph 6.19.7.3. comes into force 30 months for **new types of** vehicles of categories M<sub>1</sub> and N<sub>1</sub> and 48 months for **new types of** vehicles of other categories after the date of entry into force of the 04 series of amendments."

# ADOPTED ON THE BASIS OF GRE-62-08

(see para. 15 of the report)

#### Paragraph 6.22.9.3., amend to read:

"6.22.9.3. The aggregate maximum intensity of the lighting units that can be energized simultaneously to provide the main-beam lighting or its modes, if any, shall not exceed 225000 cd 300,000 cd, which corresponds to a reference value of 75 100.

This maximum intensity shall be obtained by adding together the individual reference marks indicated on the several installation units that are simultaneously used to provide the main-beam."

# ADOPTED ON THE BASIS OF GRE-62-24

(see para. 16 of the report)

Annex 7, the title, amend to read:

#### "Annex 7

Indication of the downward inclination of the dipped beam headlamps cut-off referred to in paragraph 6.2.6.1.1. and downward inclination of the front fog lamp cut-off referred to in paragraph 6.3.6.1.2. of this Regulation"

#### Annex IV

AMENDMENTS TO REGULATIONS Nos. 4, 6, 7, 23, 38, 50, 77, 87, 91 and 119

### ADOPTED ON THE BASIS OF GRE-62-10

(see para. 19 of the report)

A.1 PROPOSAL TO AMEND REGULATION No. 4 – (Rear registration plate lamp) (The following text is based upon draft Supplement 14 to the Regulation)

Insert a new paragraphs 5.5.3., to read:

- "5.5.3. A light source module shall be so designed that regardless of the use of tool(s), it shall not be mechanically interchangeable with any replaceable approved light source."
- A.2 PROPOSAL TO AMEND REGULATION No. 6 (Direction indicators) (The following text is based upon draft Supplement 18 to the 01 series of amendments)

<u>Insert a new paragraph 5.3.3.</u>, to read:

- "5.3.3. A light source module shall be so designed that regardless of the use of tool(s), it shall not be mechanically interchangeable with any replaceable approved light source."
- A.3 PROPOSAL TO AMEND REGULATION No. 7 (Front and rear position lamps, stop-lamps and end-outline marker lamps). (The following text is based upon draft Supplement 15 to the 02 series of amendments)

<u>Insert a new paragraph 5.6.3.</u>, to read:

- "5.6.3. A light source module shall be so designed that regardless of the use of tool(s), it shall not be mechanically interchangeable with any replaceable approved light source."
- A.4 PROPOSAL TO AMEND REGULATION No. 23 (Reversing lamps)
  (The following text is based upon draft Supplement 15 to the Regulation)

<u>Insert a new paragraph 5.3.3.</u>, to read:

"5.3.3. A light source module shall be so designed that regardless of the use of tool(s), it shall not be mechanically interchangeable with any replaceable approved light source."

A.5 PROPOSAL TO AMEND REGULATION No. 38 – (Rear fog lamps) (The following text is based upon draft Supplement 14 to the Regulation)

<u>Insert a new paragraph 5.3.3.</u>, to read:

- "5.3.3. A light source module shall be so designed that regardless of the use of tool(s), it shall not be mechanically interchangeable with any replaceable approved light source."
- A.6 PROPOSAL TO AMEND ECE REGULATION No. 50 (Position, stop and direction indicator lamps for mopeds and motorcycles). (The following text is based on draft Supplement 12 to the Regulation)

Insert a new paragraph 6.3.3., to read:

- "6.3.3. A light source module shall be so designed that regardless of the use of tool(s), it shall not be mechanically interchangeable with any replaceable approved light source."
- A.7 PROPOSAL TO AMEND REGULATION No. 77 (Parking lamps) (The following text is based on draft Supplement 12 to the Regulation)

<u>Insert a new paragraph 6.3.3.</u>, to read:

- "6.3.3. A light source module shall be so designed that regardless of the use of tool(s), it shall not be mechanically interchangeable with any replaceable approved light source."
- A.8 PROPOSAL TO AMEND REGULATION No. 87 (Daytime running lamps) (The following text is based on draft Supplement 14 to the Regulation)

Insert a new paragraph 6.3.3., to read:

"6.3.3. A light source module shall be so designed that regardless of the use of tool(s), it shall not be mechanically interchangeable with any replaceable approved light source."

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A.9 PROPOSAL TO AMEND REGULATION No. 91 – (Side marker lamps) (The following text is based on draft Supplement 11 to the Regulation)

Insert a new paragraph 6.3.3., to read:

- "6.3.3. A light source module shall be so designed that regardless of the use of tool(s), it shall not be mechanically interchangeable with any replaceable approved light source."
- A.10. PROPOSAL TO AMEND REGULATION No. 119 (Cornering lamps) (The following text is based on draft Supplement 4 to the Regulation)

<u>Insert a new paragraph 5.3.3.</u>, to read:

"5.3.3. A light source module shall be so designed that regardless of the use of tool(s), it shall not be mechanically interchangeable with any replaceable approved light source."

#### Annex V

AMENDMENTS TO REGULATIONS Nos. 19, 48, 98, 112 and 123

AMENDMENTS ADOPTED TO ECE/TRANS/WP.29/GRE/2009/20 (see para. 20 of the report)

Paragraph 6.1.9.1., amend to read:

"6.1.9.1. The aggregate .....

#### Paragraph 6.22.9.3., amend to read:

"6.22.9.3. The aggregate maximum intensity of the lighting units that can be energized simultaneously to provide the main-beam lighting or its modes, if any, shall not exceed 300,000 cd 430,000 cd, which corresponds to a reference value of 75 100.

This maximum intensity shall be obtained by adding together the individual reference marks indicated on the several installation units that are simultaneously used to provide the main-beam."

AMENDMENTS ADOPTED TO ECE/TRANS/WP.29/GRE/2009/47 (see para. 20 of the report)

Paragraph 3.4., shall be deleted

. . .

#### Paragraph 6.2.9.2., renumber as paragraph 6.2.8.2. and amend to read:

"6.2.8.2. In case of the passing beam using a gas-discharge light source, four seconds after switching on the system, which has not been operated for 30 minutes or more, at least 5 lx must be reached at point 50V of the class C passing beam;"

#### Annex 1, insert a new paragraph 9.8. to the communication form, to read:

"9.8 The adjustment of the "cut-off" has been determined at 10 m / 25 m 2/.

The determination of the minimum sharpness of the "cut-off" has been carried out at  $10 \text{ m} / 25 \text{ m} \frac{4}{.}$ "

. . .

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#### Annex 8,

#### New paragraph 2.6., correct to read:

"2.6. If, however, vertical adjustment cannot be performed repeatedly to the required position within the tolerances described in paragraph 2.5 above, the instrumental method **described in** paragraph 3 shall be applied to test compliance with the required minimum quality of the "cut-off" (as defined in paragraph 2.7.) and to perform the vertical and horizontal adjustment of the beam."

#### Insert a new paragraph 2.7., to read

### "2.7 MEASUREMENT OF THE QUALITY OF THE "CUT-OFF"

To determine the minimum sharpness, measurements shall be performed by vertically scanning through the horizontal part of the "cut-off" in angular steps of 0.05° at either a measurement distance of:

- (a) 10 m with a detector having a diameter of approximately 10 mm or
- (b) 25 m with a detector having a diameter of approximately 30 mm.

The measuring distance at which the test was carried out shall be recorded in item 9.8 of the communication form (see Annex 1 of this Regulation).

To determine the maximum sharpness, measurements shall be performed by vertically scanning through the horizontal part of the "cut-off" in angular steps of 0.05° exclusively at a measurement distance of 25 m and with a detector having a diameter of approximately 30 mm.

The "cut-off" quality shall be considered acceptable if the requirements of paragraph 2.1. to 2.3. below comply with at least one set of measurements.

#### 2.7.1. Not more than one "cut-off" shall be visible 1/

### 2.7.2. Sharpness of "cut-off"

The sharpness factor G is determined by scanning vertically through the horizontal part of the "cut-off" at 2.5° from the V-V where:

 $G = (log E_{\beta} - log E_{(\beta + 0.1^{\circ})})$  where  $\beta = the$  vertical position in degrees.

The value of G shall not be less than 0.13 (minimum sharpness) and not greater than 0.40 (maximum sharpness).

#### 2.7.3. Linearity

The part of the horizontal "cut-off" that serves for vertical adjustment shall be horizontal between  $1.5^{\circ}$  and  $3.5^{\circ}$  from the V-V line (see figure 1 of paragraph 3 below):

- (a) The inflection points of the "cut-off" gradient at the vertical lines at  $1.5^{\circ}$ ,  $2.5^{\circ}$  and  $3.5^{\circ}$  shall be determined by the equation:  $(d^2 (\log E) / d\beta^2 = 0).$
- (b) The maximum vertical distance between the inflection points determined shall not exceed 0.2  $^{\circ}$ .

1/ This paragraph should be amended when an objective test method is available."

. . .

Paragraphs 2.3.1. to 2.7.(former), renumber as paragraphs 2.8. to 2.12.

...

#### Annex 9, paragraph 2.3., correct as follows:

"2.3. In the case of a non-replaceable light source operating directly under vehicle voltage system conditions:

All measurements on lamps equipped with non-replaceable light sources (filament lamps and other) shall be made at 6.75 V, 6.3V, 13.2 V or 28.0 V, or at a voltage as specified by the applicant with respect to any other vehicle voltage system."

. . .

#### Annex VI

#### AMENDMENTS TO REGULATIONS Nos. 7 and 48

# AMENDMENTS ADOPTED TO ECE/TRANS/WP.29/GRE/2009/63 (see para. 21 of the report)

If, when the lamp is installed, any part of the apparent surface of the lamp is hidden by any further parts of the vehicle, **or is moved out of its normally installed position when a moving component is in any of its fixed open positions,** proof shall ......photometric field of measurements of the installed optical unit may be reduced to 5° below the horizontal."

#### Paragraph 2.16.1., amend to read:

"2.16.1. .....

(d) Any interdependent lamp assembly system comprising of two or three interdependent lamps providing the same function, approved together as type "Y" and installed so that the distance between adjacent apparent surfaces in the direction of the reference axis does not exceed 75 mm when measured perpendicularly to the reference axis."

#### Paragraph 6.5.7., amend to read,

#### "6.5.7. Electrical connections

Direction-indicator lamps shall switch on independently of the other lamps. All direction-indicator lamps on one side of a vehicle shall be switched on and off by means of one control and shall flash in phase. This also applies to the case of interdependent lamps."

. . .

### Annex VII

# AMENDMENTS TO REGULATIONS Nos. 6, 7, 48, 77 and 91

# ADOPTED ON THE BASIS OF GRE-62-03 (see para. 23 of the report)

A.1 PROPOSAL TO AMEND REGULATION No. 6
Annex 1, text next to the first figure, amend to read:
"
On and above the H plane for all lamps.  Under the H plane for lamps intended for M <sub>2</sub> , M <sub>3</sub> ,  N <sub>2</sub> or N <sub>3</sub> category of vehicles
"
AMENDMENTS ADOPTED TO ECE/TRANS/WP.29/GRE/2009/66 (see para. 23 of the report)
Proposals A.1, A.2, A.3 and A.4, shall be deleted
A.5 PROPOSAL TO AMEND REGULATION No. 91
Proposed amendment to Annex 1, shall be deleted
Annex 2, item 9., amend to read:
"9. Concise description: <u>3/</u>
Light source module specific identification code:  Only for limited mounting height <b>equal to or less</b> than 750 mm above the ground: yes/no 2/ Geometrical conditions of installation and relating variations, if any:

Proposed amendments to Annexes 3 and 4, shall be deleted

#### Annex VIII

#### AMENDMENTS TO REGULATION No. 10

# AMENDMENTS ADOPTED TO ECE/TRANS/WP.29/GRE/2009/8 (see para. 26 of the report)

Paragraph 6.3.2.4., amend to read:

"6.3.2.4. Notwithstanding the limits defined in paragraphs 6.3.2.1., 6.3.2.2. and 6.3.2.3. ....."

#### Paragraph 8.3.1., amend to read

"8.3.1. When the conformity of a vehicle, component or ESA taken from the series is being verified, production shall be deemed to conform to the requirements of this Regulation in relation to broadband electromagnetic disturbances and narrowband electromagnetic disturbances if the levels measured do not exceed by more the 2-dB (25%)-4 dB (60 per cent) the reference limits prescribed in paragraphs 6.2.2.1., 6.2.2.2., 6.3.2.1. and 6.3.2.2. (as appropriate)."

..

# ADOPTED ON THE BASIS OF GRE-62-29 (see para. 26 of the report)

Contents, amend to read:

"ANNEXES

. . . . .

Annex 3C: Attestation with regard to paragraph 3.2.9."

Paragraph 3.2.9., amend to read:

"3.2.9. Components sold .... defined in paragraphs 6.5., 6.6., 6.8. and 6.9.

During the transition period, ending on 4 November 2008, the person or legal entity responsible for placing on the market of such a product has to submit all relevant information and/or a sample to a Technical Service which will determine if the equipment is immunity related or not. The result of the inspection shall be available within three weeks and not require additional testing. A document according to the example given in Annex 3C shall be issued by the Technical Service within the same period. In case of doubts and if the Technical Service refuses to issue an attestation according to Annex 3C, the manufacturer has to apply for type approval for his product."

Annex 3C, shall be deleted

#### Annex IX

#### AMENDMENTS TO REGULATION No. 53

# AMENDMENTS ADOPTED TO ECE/TRANS/WP.29/GRE/2009/39 (see para. 32 of the report)

#### <u>Insert new paragraphs 2.24. to 2.29.</u>, to read:

"2.24. ...

...

- 2.27. "HIAS signal" means any HIAS control signal or, any additional control input to the system or, a control output from the system to the motorcycle.
- 2.28. "HIAS signal generator" means a device, reproducing one or more of the HIAS signals for system test."
- 2.29. "HIAS test angle" means the angle  $\delta$  ... (see drawing in Annex 6)."

. . . .

#### Paragraphs 6.1.8. to 6.1.8.2., amend to read:

"6.1.8. ....

6.1.8.2. "HIAS failure" tell-tale

Mandatory, ....respect to the HIAS control signals. It shall remain activated while the failure is present."

#### Paragraph 6.1.9., amend to read:

- "6.1.9. Other requirements
- 6.1.9.1. The aggregate maximum intensity of the driving beam headlamps which can be switched on simultaneously shall not exceed **430**,000 cd which corresponds to a reference number of 100. (The approval value)."

#### Insert a new paragraph 6.1.9.2., to read:

- "6.1.9.2. In the event of a driving beam HIAS failure, without the use of any special tools, it shall be possible to:
  - (a) deactivate the HIAS until it is reset according to the manufacturers instructions; **and**

. .

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Annex IX

..... the automatic system works as described.

To verify the HIAS operation, according to the above-mentioned guideline, the test house may request the manufacturer to perform a test which comprises any situation relevant to the system control on the basis of the applicant's description; The system shall fail if there is obvious malfunctioning, if any, is to be contested (e.g. excessive angular movement).

#### Insert new paragraphs 6.2.5.5. to 6.2.5.6., to read:

- "6.2.5.5. An HIAS ... vehicle's bank angle.
- 6.2.5.6. The requirement in paragraph 6.2.5.5. shall be tested under the following conditions:

• • • •

And when the test vehicle is returned to the position as specified in paragraph 5.4., the HIAS test angle shall be back return to zero quickly.

. . .

For the test the HIAS shall be activated by means of an  ${\bf HIAS}$  signal generator.

..."

#### Paragraphs 6.2.8. to 6.2.9., amend to read:

"6.2.8. Tell-tales

. . .

6.2.8.2. "HIAS failure" tell-tale.

Mandatory, ... to the HIAS control signals. It shall remain activated while the failure is present."

#### 6.2.9. Other requirements

#### None

In the event of a passing beam HIAS failure, without the use of any special tools, it shall be possible to:

(a). deactivate the HIAS until it is reset according to the manufacturers instructions; **and** 

..... verifying that the automatic system works as described.

To verify, the HIAS operation, according to the above mentioned guidelines, the test house may request the manufacturer to perform a test which comprises any situation relevant to the system control on the basis of the applicants description; obvious malfunctioning, if any, is to be contested (e.g. excessive angular movement)."

# ADOPTED ON THE BASIS OF GRE-62-35 (see para. 36 of the report)

Insert a new paragraph 5.15.3., to read:

"5.15.3. daytime running lamp (paragraph 6.13.)"

#### Annex X

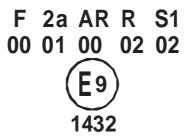
#### AMENDMENTS TO REGULATION No. 7

ADOPTED ON THE BASIS OF GRE-62-06 (see para. 44 of the report)

Annex 3

Item 5, amend to read:

"4. Marking of independent lamps



The above example corresponds to the marking of a lens intended to be used in different types of lamps. The approval marks indicate that the device was approved in Spain (E9) under approval number 1432 and comprises:

<u>A rear direction indicator lamp</u> with variable luminous intensity (category 2b) approved in accordance with the 01 series of amendments to Regulation No. 6,

A red rear position (side) lamp with variable luminous intensity (R2) approved in accordance with the 02 series of amendments to Regulation No. 7,

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

A reversing lamp (AR) approved in accordance with Regulation No. 23 in its original version,

<u>A stop-lamp</u> with variable luminous intensity (S2) approved in accordance with the 02 series of amendments to Regulation No. 7.

A rear fog lamp (F) approved in accordance with Regulation No. 38 in its original version,

<u>A rear direction indicator lamp</u> of category 2a approved in accordance with the 01 series of amendments to Regulation No. 6,

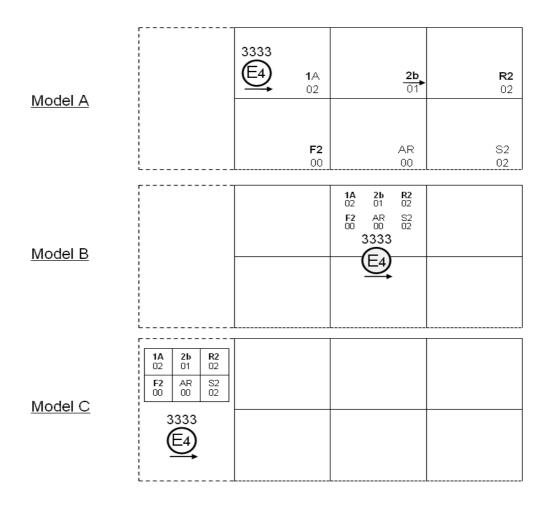
<u>A reversing lamp</u> (AR) approved in accordance with Regulation No. 23 in its original version,

<u>A red rear position (side) lamp</u> (R) approved in accordance with the 02 series of amendments to Regulation No. 7,

 $\underline{A\ stop-lamp}$  with one level of illumination (S1) approved in accordance with the 02 series of amendments to Regulation No. 7."

Item 6, amend to read:

".....



Note:

These three examples of approval marks (models A, B and C) represent three possible variables for the marking of a lighting device when two or more lamps are part of the same assembly of grouped, combined or reciprocally incorporated lamps.

They indicate that the device was approved in the Netherlands (E4) under approval number 3333 and comprises:

<u>A reflex-reflector of class 1A</u> approved in accordance with the 02 series of amendments to Regulation No. 3,

A rear direction indicator lamp with variable luminous intensity (category 2b) approved in accordance with the 01 series of amendments to Regulation No. 6,

A red rear position (side) lamp with variable luminous intensity (R2) approved in accordance with the 02 series of amendments to Regulation No. 7,

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

<u>A reversing lamp</u> (AR) approved in accordance with Regulation No. 23 in its original version,

<u>A stop-lamp</u> with **variable luminous intensity** (S2) approved in accordance with the 02 series of amendments to Regulation No. 7."

### Annex XI

### AMENDMENTS TO REGULATION No. 104

# ADOPTED ON THE BASIS OF GRE-62-07 (see para. 45 of the report)

### Annex 8, paragraph 8., amend to read:

- "8. Bonding strength (in the case of adhesive materials **of Class C**).
- 8.1. The adhesion of retro-reflective ...

...."

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