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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-FIRST SESSION
(Geneva, 30 March – 3 April 2009)**

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I. ATTENDANCE

1. The Working Party on Lighting and Light-Signalling (GRE) held its sixty-first session from 30 March (afternoon) to 3 April 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): Austria, Belgium; Canada; China; Czech Republic; Finland; France; Germany; Hungary; India; Italy; Japan; Luxembourg; Netherlands; Norway; Poland; Republic of Korea; Russian Federation; South Africa; Spain; Sweden; 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 Organization of Motor Vehicle Manufacturers (OICA); European Association of Automobile Suppliers (CLEPA); International Electrotechnical Commission (IEC); International Motorcycle Manufacturers Association (IMMA). 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 AND ADDENDUM TO THE REPORT OF THE OCTOBER 2008 SESSION OF GRE (Agenda item 1)

Documentation: ECE/TRANS/WP.29/GRE/2009/1

3. GRE agreed to modify the titles of agenda items 1 and 9(a), to insert new agenda items 3(b), 9(c), 12(e), 12(f), 12(g), 12(h), 12(i) and 12(j), and adopted the agenda proposed for the sixty-first session (ECE/TRANS/WP.29/GRE/2009/1).

4. Referring to the report of its October 2008 session (ECE/TRANS/WP.29/GRE/60), GRE noted that WP.29, at its March 2009 session (see ECE/TRANS/WP.29/1072, para. 33), had adopted the report with the following addition:

"During the November 2008 session of WP.29, the proposal for Supplement 10 to the 01 series of amendments to Regulation No. 53 (Installation of lighting and light-signalling devices for L₃ vehicles) was referred back to GRE upon the request of the representative of Switzerland due to the lack of mandatory automatic leveling mechanism for the High Intensity Discharge (HID) lamps to be allowed on motorcycles. As the adoption of this amendment was urgent, WP.29 had agreed at its November 2008 session that the proposal could be revised and adopted by GRE via an electronic (e-mail) ballot. The adopted document is on the current agenda under item 4.2.19."

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

A. Exchange of views on the possible development of a gtr on installation of lighting and light-signalling devices (Agenda item 2(a))

Documentation: ECE/TRANS/WP.29/GRE/2006/49

5. Referring to the lack of new information on this matter, GRE agreed to discontinue the discussion of this item and to remove it from the agenda of the October 2009 session.

B. Development of further gtrs (Agenda item 2(b))

6. The GRE Chairman renewed his request for sponsors to develop new gtrs as in the past sessions of GRE. It was noted that some interest was expressed by experts in the past sessions of GRE to develop new gtrs in the area of: new headlamp beam combination, harmonized passing beam pattern for headlamps, new front fog-lamps and installation of lighting and light-signalling devices on motorcycles. The expert from China suggested that once the issue of harmonized beam pattern is resolved a gtr on Light Emitting Diodes (LED) headlamps could be developed. The GRE Chairman also suggested that new technologies, such as: Adaptive Front-lighting Systems (AFS), distributive lighting, LED headlamps, pedestrian visibility, etc., could be of interest to sponsors.

IV. 1958 AGREEMENT: AMENDMENTS TO EXISTING UNECE REGULATIONS

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

1. Proposal for Supplement 34 to the 03 series of amendments (Agenda item 3(a))

Documentation: ECE/TRANS/WP.29/GRE/2009/10, ECE/TRANS/WP.29/GRE/2009/11, ECE/TRANS/WP.29/GRE/2009/12, ECE/TRANS/WP.29/GRE/2009/13, ECE/TRANS/WP.29/GRE/2009/14, ECE/TRANS/WP.29/GRE/2009/15, Informal documents Nos. GRE-61-02 and GRE-61-30

7. GRE considered and adopted ECE/TRANS/WP.29/GRE/2009/11, as amended below, and ECE/TRANS/WP.29/GRE/2009/10, ECE/TRANS/WP.29/GRE/2009/12, ECE/TRANS/WP.29/GRE/2009/13, ECE/TRANS/WP.29/GRE/2009/14 and ECE/TRANS/WP.29/GRE/2009/15, all of them not amended. The secretariat was requested to submit ECE/TRANS/WP.29/GRE/2009/11 and ECE/TRANS/WP.29/GRE/2009/12 as draft Corrigendum 1 to Revision 5 to Regulation No. 37 and ECE/TRANS/WP.29/GRE/2009/10, ECE/TRANS/WP.29/GRE/2009/13, ECE/TRANS/WP.29/GRE/2009/14 and ECE/TRANS/WP.29/GRE/2009/15 as draft Supplement 34 to WP.29 and AC.1, for consideration at their November 2009 sessions.

ECE/TRANS/WP.29/GRE/2009/11:

Page 2, for **Paragraph 2.1.2.4., to be deleted** read **Paragraph 2.1.2.3. to be deleted**

8. GRE was informed that the dialogue between the experts from GTB and India was in progress (GRE-61-30) and that further information would be provided to GRE at its October 2009 session. For that purpose, GRE agreed to keep GRE-61-30 on the agenda for reference only.

9. GRE also noted informal document No. GRE-61-02, regarding the internal process of GTB for introduction and evaluation of new light source categories. The secretariat was requested to distribute GRE-61-02 with an official symbol.

2. Proposal for Corrigendum 1 to Supplement 33 to the 03 series of amendments (Agenda item 3(b))

Documentation: Informal documents Nos. GRE-61-03 and GRE-61-05

10. GRE considered GRE-61-03 and GRE-61-05 and adopted them as reproduced in Annex II. The secretariat was requested to submit the proposals to WP.29 and AC.1, for consideration at their June 2009 session as Corrigendum 1 to Supplement 32 and as Corrigendum 1 to Supplement 33 to the 03 series of amendments to Regulation No. 37.

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: Informal document No. GRE-61-15

11. The expert from Japan introduced a new proposal on an informal basis as a first exchange of view (GRE-61-15). GRE agreed to resume the discussion of this agenda item. The secretariat was requested to distribute GRE-61-15 with an official symbol, awaiting a revised proposal voluntarily prepared by the expert from Japan.

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

Documentation: ECE/TRANS/WP.29/GRE/2009/09, Informal documents Nos. GRE-61-10, GRE-61-34 and Rev.1, GRE-61-36 and GRE-61-42 of Annex I to this report

12. GRE considered ECE/TRANS/WP.29/GRE/2009/09. Accordingly, GRE also considered GRE-61-42, reflecting the outcome of the discussion (GRE-61-10 and GRE-61-34/Rev.1 amongst others). GRE agreed to resume consideration of this agenda item at its October 2009 session. The secretariat was requested to distribute GRE-61-42 with an official symbol. Due to the lack of support of GRE, the expert from India withdrew GRE-61-36.

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

Documentation: ECE/TRANS/WP.29/GRE/2008/30, ECE/TRANS/WP.29/GRE/2009/2, ECE/TRANS/WP.29/GRE/2009/3, ECE/TRANS/WP.29/GRE/2009/6, ECE/TRANS/WP.29/GRE/2009/16, ECE/TRANS/WP.29/GRE/2009/17, ECE/TRANS/WP.29/GRE/2009/28, Informal documents Nos. GRE-61-11, GRE-61-12, GRE-61-13, GRE-61-16, GRE-61-29, GRE-61-31 and GRE-61-39

13. GRE agreed to withdraw ECE/TRANS/WP.29/GRE/2008/30 from the agenda and to defer the discussion of ECE/TRANS/WP.29/GRE/2009/2 to its October 2009 session, following the request made by the expert from CLCCR. GRE noted GRE-61-29 which introduced clarifications and new provisions to the proposal tabled by the expert from CLCCR (ECE/TRANS/WP.29/GRE/2008/30) and agreed to ask the secretariat to distribute it with an official symbol.

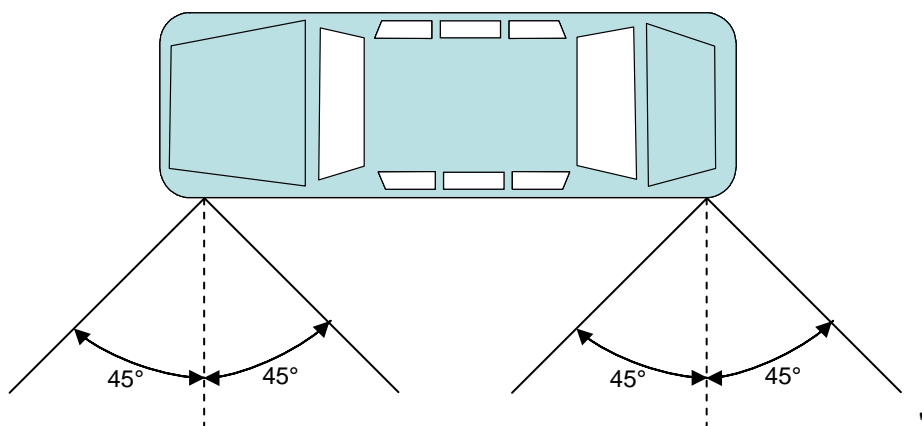
14. GRE considered GRE-61-13, provided by the expert from Japan for information only, and ECE/TRANS/WP.29/GRE/2009/3. GRE adopted ECE/TRANS/WP.29/GRE/2009/3 as amended below. The secretariat was requested to submit it to WP.29 and AC.1 for consideration at their November 2009 sessions as draft Supplement 4 to the 04 series of amendments to Regulation No. 48.

Page 3, paragraph 6.5.8., second line, for vehicles and trailers read motor vehicles and trailers

15. With regard to the mounting requirements for M₁ vehicles whose length exceeds 6 m but does not exceed 7 m, GRE adopted ECE/TRANS/WP.29/GRE/2009/6, as amended below. The secretariat was requested to submit it to WP.29 and AC.1, for consideration at their November 2009 sessions as part of (see para. 14) draft Supplement 4 to the 04 series of amendments to Regulation No. 48.

Page 3, add the following figure at the end of the justification:

"...length > 6 m, visibility of SML



16. GRE adopted ECE/TRANS/WP.29/GRE/2009/16 not amended, GRE-61-12 and GRE-61-16 (superseding ECE/TRANS/WP.29/GRE/2009/17) as reproduced in Annex III and ECE/TRANS/WP.29/GRE/2009/28 as amended below. The secretariat was requested to submit ECE/TRANS/WP.29/GRE/2009/16, GRE-61-16 and ECE/TRANS/WP.29/GRE/2009/28 to WP.29 and AC.1, for consideration at their November 2009 sessions as part of (see paras. 14 and 15) draft Supplement 4 to the 04 series of amendments to Regulation No. 48 and GRE-61-12 at their November 2009 sessions as Corrigendum 1 to Revision 5 to Regulation No. 48.

Paragraph 6.21.7.1., amend to read:

"6.21.7.1. Conspicuity markingsadjacent element, ~~but in these exceptional cases the distance and it shall be as small as possible and not exceed 1000 mm.~~"

17. Finally, GRE considered GRE-61-11 and GRE-61-39 and requested the secretariat to distribute them at the next session with an official symbol. GRE also considered GRE-61-31. The proposal did not receive support of the group and the expert from India withdrew it.

4. Proposal for Corrigendum 1 to Supplement 2 to the 04 series of amendments (Agenda item 4(d))

Documentation: ECE/TRANS/WP.29/GRE/2009/7, Informal documents Nos. GRE-61-04 and GRE-61-33 of Annex I to this report

18. GRE adopted ECE/TRANS/WP.29/GRE/2009/7 not amended and GRE-61-04 as reproduced in Annex III to this report. The secretariat was requested to submit both proposals to WP.29 and AC.1 at their November 2009 sessions as draft Corrigendum 1 to Supplement 2 to the 04 series of amendments to Regulation No. 48. GRE also considered GRE-61-33 and requested the secretariat to distribute it at the next session with an official symbol.

5. Proposal for a draft Regulation No. 48-H (Agenda item 4(e))

Documentation: ECE/TRANS/WP.29/GRE/2008/46

19. GRE noted that the World Forum had endorsed the decision of GRE, at its November 2008 session, to discontinue the development of the draft proposal for Regulation No. 48-H and to concentrate on gtrs regarding lighting and light-signalling devices for motor vehicles and, if necessary, on amendments to Regulation No. 48 to improve safety and international harmonization (see ECE/TRANS/WP.29/1070, para. 40).

6. Definition of apparent surface (Agenda item 4(f))

Documentation: ECE/TRANS/WP.29/GRE/2009/18, Informal documents Nos. GRE-61-14 and GRE-61-25

20. GRE adopted ECE/TRANS/WP.29/GRE/2009/18 (amended by GRE-61-14 and GRE-61-25) 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 part of (see paras. 14, 15 and 16) draft 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

21. GRE was informed by the expert from GTB of the work progress made by the informal group on the "electronic database for the exchange of type approval documentation" (DETA). GRE noted that the analysis of the DETA questionnaire had not yet been concluded and that the next meeting of DETA was scheduled to be held on 26 June 2009. GRE also agreed to keep this item in its agenda as an important exchange of views on this matter. GRE noted that the report of the fourth 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))

Documentation: Informal document No. GRE-61-01

22. The expert from GTB introduced the report on the investigation prepared by the University of Karlsruhe (GRE-61-01) about the phantom light effects in rear signalling lamp in combination of modern vehicles. GRE agreed to keep GRE-61-01 on the agenda for reference purpose.

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

23. The expert from Germany informed GRE of the outcome of the first meeting of the interested experts. He indicated that answers from light source manufacturers were still awaited. GRE agreed to resume the discussion of this agenda item at its October 2009 session on the basis of a revised document, if available.

6. Regulations Nos. 6 and 7 (Agenda item 5(d))

Documentation: ECE/TRANS/WP.29/GRE/2009/19

24. GRE adopted ECE/TRANS/WP.29/GRE/2009/19 as amended by Annex IV 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 Supplement 19 to the 01 series of amendments to Regulation No. 6 and as draft Supplement 16 to the 02 series of amendments to Regulation No. 7.

7. Regulations Nos. 4 and 48 (Agenda item 5(e))

Documentation: ECE/TRANS/WP.29/GRE/2008/5, ECE/TRANS/WP.29/GRE/2008/6

25. The expert from Germany provided sample plates/illuminating devices supporting his proposals introducing provisions for the installation of self-illuminating rear registration plates. ECE/TRANS/WP.29/GRE/2008/5 and ECE/TRANS/WP.29/GRE/2008/6 did not receive the support of GRE and the expert from Germany withdrew them. It was agreed to remove this item from the agenda of next sessions of GRE, unless new proposals would be available.

8. Regulations Nos. 19, 48, 98, 112 and 123 (Agenda item 5(f))

Documentation: ECE/TRANS/WP.29/GRE/2009/20, ECE/TRANS/WP.29/GRE/2009/21, ECE/TRANS/WP.29/GRE/2009/22, ECE/TRANS/WP.29/GRE/2009/23, ECE/TRANS/WP.29/GRE/2009/25, Informal documents Nos. GRE-61-17, GRE-61-18, GRE-61-19, GRE-61-20, GRE-61-26, GRE-61-27 and GRE-61-28

26. GRE considered ECE/TRANS/WP.29/GRE/2009/20, ECE/TRANS/WP.29/GRE/2009/21, ECE/TRANS/WP.29/GRE/2009/22, ECE/TRANS/WP.29/GRE/2009/23 and ECE/TRANS/WP.29/GRE/2009/25. GRE agreed to resume the discussion of this agenda item at its October 2009 session, awaiting consolidated proposals on this subject taking into account the amendments introduced by GRE-61-17, GRE-61-18, GRE-61-19, GRE-61-20, GRE-61-27 and GRE-61-28. GRE did not consider GRE-61-26 withdrawn by the expert from GTB.

9. Regulations Nos. 19, 98, 112, 113 and 123 (Agenda item 5(g))

Documentation: ECE/TRANS/WP.29/GRE/2009/24

27. GRE adopted ECE/TRANS/WP.29/GRE/2009/24 as amended by Annex V. The secretariat was requested to submit the proposal to WP.29 and AC.1, for consideration at their November 2009 sessions, as draft Supplement 2 to the 03 series of amendments to Regulation No. 19, as draft Supplement 13 to Regulation No. 98, as draft Supplement 12 to Regulation No. 112, as draft Supplement 9 to Regulation No. 113 and as draft Supplement 4 to Regulation No. 123.

D. Regulation No. 19 (Front fog lamps) (Agenda item 6)

1. Proposal for draft amendments (Agenda item 6(a))

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

28. GRE adopted ECE/TRANS/WP.29/GRE/2009/29 not amended. The secretariat was requested to submit the proposal to WP.29 and AC.1, for consideration at their November 2009 sessions, as draft Corrigendum 4 to 03 series of amendments to Regulation No. 19.

E. New draft Regulation for light-signalling devices (Agenda item 7)

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

29. The expert from France introduced ECE/TRANS/WP.29/GRE/2008/32, as a proposal for a new Regulation incorporating the common requirements of Regulations Nos. 6, 7, 23, 38, 77, 87, 91 and 119. GRE agreed to resume the discussion of this agenda item at its October 2009 session with a view to establishing either a new Regulation or an annex to the Consolidated Resolution on the Construction of Vehicles (R.E.3).

F. Conspicuity of motorcycles (Agenda item 8)

30. GRE welcomed a demonstration on a motorcycle brought on the United Nations premises by the experts from Japan, aiming at comparing the conspicuity of the amber position lamp with the white position lamp. GRE agreed to take note of this practical demonstration as a basis for future discussion on this agenda item.

G. Regulation No. 53 (Installation of lighting and light-signalling devices on L₃ categories of vehicles) (Agenda item 9)

1. Visibility of horizontal inclination adjustment system (HIAS) for motorcycles and glare (Agenda item 9(a))

Documentation: ECE/TRANS/WP.29/GRE/2009/4, Informal document No. GRE-61-41

31. The expert from Japan gave a presentation on the effectiveness of the visibility of the horizontal inclination adjustment system (HIAS) for motorcycles and glare that was complemented by a practical demonstration on a motorcycle in the underground garage of the Palais des Nations. Accordingly, the expert from Japan introduced ECE/TRANS/WP.29/GRE/2009/4 aimed at introducing provisions to allow the installation of this device. The expert from IMMA introduced GRE-61-41, superseding ECE/TRANS/WP.29/GRE/2009/4. GRE agreed to resume the discussion of this agenda item at its October 2009 session. Moreover, GRE invited his experts to send comments to the experts from IMMA and Japan at latest by 1 May 2009, in order to finalize a revised version. The secretariat was requested to distribute GRE-61-41 with an official symbol, awaiting a new version if available.

2. Proposal for draft amendments (Agenda item 9(b))

Documentation: ECE/TRANS/WP.29/GRE/2009/5, Informal documents Nos. GRE-61-24, GRE-61-32, GRE-61-35

32. Referring to GRE-61-24, tabled by the expert from IMMA for information only, the expert from Japan introduced GRE-61-32, superseding ECE/TRANS/WP.29/GRE/2009/5. The proposal did not receive the support of GRE and it was agreed to resume the discussion at the October 2009 session on the basis of a new proposal, if available. GRE also considered GRE-61-35, and agreed to keep it on the agenda of the next session for reference only.

3. Installation requirements for daytime running lamps (Agenda item 9(c))

Documentation: Informal document No. GRE-61-23

33. GRE noted GRE-61-23, tabled by the expert from IMMA. GRE agreed to resume the discussion of this agenda item at its October 2009 session and requested the secretariat to distribute it with an official symbol.

H. Regulation No. 99 (Gas-discharge light sources) (Agenda item 10)

1. Proposal for draft amendments (Agenda item 10(a))

Documentation: ECE/TRANS/WP.29/GRE/2009/26

34. GRE adopted ECE/TRANS/WP.29/GRE/2009/26 as amended below and requested the secretariat to submit it to WP.29 and AC.1, for consideration at their November 2009 sessions, as draft Supplement 5 to Regulation No. 99.

Paragraphs 2.1.2. to 2.1.2.2., amend to read:

"2.1.2. Gas-discharge ...

2.1.2.1. ...

2.1.2.2. bulb and/or cap design, in so far as these differences affect the optical results."

I. Regulation No. 113 (Headlamps emitting symmetrical beams) (Agenda item 11)

1. Proposal for draft amendments (Agenda item 11(a))

Documentation: ECE/TRANS/WP.29/GRE/2008/35, ECE/TRANS/WP.29/GRE/2009/27, Informal documents Nos. GRE-61-06 and GRE-61-22

35. GRE adopted ECE/TRANS/WP.29/GRE/2008/35 as amended by Annex VI to this report and ECE/TRANS/WP.29/GRE/2009/27 (amended by GRE-61-22) 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 November 2009 sessions, as part of (see para. 27) draft Supplement 9 to Regulation No. 113. Finally, the expert from Germany withdrew GRE-61-06.

V. OTHER BUSINESS (Agenda item 12)

**A. Amendments to the Convention on Road Traffic (Vienna 1968)
(Agenda item 12(a))**

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

36. GRE was informed that WP.1 had been requested by the Inland Transport Committee at its seventy-first session (see ECE/TRANS/206) to consider as a priority the necessary actions to ensure consistency between the Convention on Road Traffic and the vehicle regulations developed by WP.29, with reference to the solutions proposed by the World Forum (WP.29-146-28). GRE agreed to defer the discussion of this item at its next session, waiting guidance from WP.29/AC.2.

B. Direction for future GRE work (Agenda item 12(b))

37. The Chairman of GRE suggested reorganizing the schedule of the agenda of the GRE for the year 2010, starting on Monday morning and concluding on Wednesday or Thursday of the same week, in order to leave the remaining days for the session of GTB. The expert from GTB stated that at the next session in May of his group, GTB would be informed about this proposal to take a decision on this subject.

C. Regulation No. 7 (Front and rear position (side) lamps, stop lamps and end-outline marker lamps) (Agenda item 12(c))

Documentation: ECE/TRANS/WP.29/2008/82, Informal document No. GRE-61-38

38. GRE noted that ECE/TRANS/WP.29/2008/82 had been superseded by Supplement 15 to the 02 series of amendments to Regulation No. 7 adopted by WP.29 at its March 2009 session and agreed to remove it from the agenda. The secretariat was requested to distribute GRE-61-38 at the next session with an official symbol.

D. Regulation No. 10 (Electromagnetic compatibility) (Agenda item 12(d))

Documentation: ECE/TRANS/WP.29/GRE/2009/8, Informal document No. GRE-61-40

39. GRE agreed to defer the discussion of this agenda item to its October 2009 session. The secretariat was requested to distribute GRE-61-40 with an official symbol. The expert from EC announced that a further alignment to Regulation No. 10 had been introduced in the European Union legislation by Directive 2009/19/EC (Official Journal L 70/17, 14/03/2009).

E. Regulation No. 87 (daytime running lamps) (Agenda item 12(e))

Documentation: ECE/TRANS/WP.29/GRE/2009/30

40. GRE adopted ECE/TRANS/WP.29/GRE/2009/30 not amended. The secretariat was requested to submit the proposals to WP.29 and AC.1, for consideration at their November 2009 sessions, as draft Corrigendum 2 to Revision 1 to Regulation No. 87.

F. Regulation No. 45 (Headlamp cleaners) (Agenda item 12(f))

Documentation: Informal document No. GRE-61-07

41. GRE adopted GRE-61-07 as reproduced in Annex VII to this report. The secretariat was requested to submit the proposals to WP.29 and AC.1, for consideration at their November 2009 sessions, as draft Corrigendum 1 to Supplement 6 to the 01 series of amendments to Regulation No. 45.

G. Regulation No. 23 (Reversing lamps) (Agenda item 12(g))

Documentation: Informal document No. GRE-61-08

42. GRE considered GRE-61-08 tabled by the expert from Poland. It was agreed to resume the discussion of this agenda item at the GRE October 2009 session. The secretariat was requested to distribute GRE-61-08 at the next session with an official symbol.

H. Regulation No. 112 (Headlamps emitting an asymmetrical passing beam) (Agenda item 12(h))

Documentation: Informal document No. GRE-61-09

43. GRE noted GRE-61-09. The proposal received some comments and GRE requested the secretariat to distribute it with an official symbol at the next October 2009 session.

I. Regulation No. 98 (Headlamps with gas-discharge light source) (Agenda item 12(i))

Documentation: Informal document No. GRE-61-21

44. GRE adopted GRE-61-21, as reproduced in Annex VIII 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 Regulation No. 98.

J. Regulation No. 6 (Direction indicator) (Agenda item 12(j))

Documentation: Informal document No. GRE-61-37

45. GRE considered GRE-61-37 and agreed to defer the discussion of this item to its October 2009 session. For this purpose, the secretariat was requested to distribute it with an official symbol.

VI. PROVISIONAL AGENDA FOR THE NEXT SESSION

46. GRE did not consider the provisional agenda for the sixty-second session of GRE, scheduled to be held from 6 to 9 October 2009. Instead, it was agreed that the Chairman, jointly with the secretariat, would propose a draft agenda.

Annex I

LIST OF INFORMAL DOCUMENTS DISTRIBUTED DURING THE SESSION (GRE-61-...)

No.	Transmitted by	Agenda item	Language	Title	Follow-up
1.	GTB	5(b)	E	The phantom light effects in rear signalling lamp combinations of modern vehicles	(a)
2.	GTB	3(a)	E	Regulation No. 37 (Filament lamps) - GTB internal process for introduction and evaluation of new light source categories	(b)
3.	IEC	3(b)	E	Proposal for Corrigendum 1 to Supplement 33 to the 03 series of amendments to Regulation No. 37 (Filament lamps) (ECE/TRANS/WP.29/2009/18)	(d)
4.	Japan	4(d)	E	Proposal for Corrigendum 1 to Supplement 2 to the 04 series of amendments to Regulation No. 48 (Installation of lighting and light-signalling devices)	(d)
5.	IEC	3(b)	E	Proposal for draft Corrigendum 1 to Supplement 33 and Corrigendum 1 to Supplement 32 to the 03 series of amendments to Regulation No. 37 (Filament lamps)	(d)
6.	Germany	11(a)	E	Proposal for draft amendments to Regulation No. 113 (Headlamps emitting a symmetrical passing beam)	(c)
7.	Germany	12(f)	E	Proposal for draft corrigendum to Regulation No. 45 (Headlamp cleaners)	(d)
8.	Poland	12(g)	E	Proposal for draft Supplement 16 to Regulation No. 23 (Reversing lamps for power-driven vehicles and their trailers)	(b)
9.	Poland	12(h)	E	Proposal for draft Corrigendum 2 to Supplement 8 to Regulation No. 112 (Headlamps emitting an asymmetrical passing beam)	(b)
10.	Italy	4(b)	E	Regulation No. 48 (Installation of lighting and light - signalling devices) - Comments and proposals on document ECE/TRANS/WP.29/GRE/2009/9	(c)
11.	Italy	4(c)	E	Proposal for draft Supplement 4 to the 04 series of amendments to Regulation No. 48 (Installation of lighting and light-signalling devices)	(b)

No.	Transmitted by	Agenda item	Language	Title	Follow-up
12.	Italy	4(c)	E	Proposal for Corrigendum 1 to Revision 5 to Regulation No. 48 (Installation of lighting and light-signalling devices)	(d)
13.	Japan	4(c)	E	Information of middle-side direction indicator lamps, provided at the centre of both sides of motor vehicles, that are mandatory in Japan - Regulation No. 48 (Installation of lighting and light-signalling devices)	(c)
14.	Japan	4(f)	E	Proposal for amendments of ECE/TRANS/WP.29/GRE/2009/18	(d)
15.	Japan	4(a)	E	Proposal for Supplement 4 to the 04 series of amendments to Regulation No.48 (based on ECE/TRANS/WP.29/GRE/2007/60)	(b)
16.	GTB	4(c)	E	Corrigendum to ECE/TRANS/WP.29/GRE/2009/17 - Regulation No. 48 (Installation of lighting and light-signalling devices)	(d)
17.	GTB	5(f)	E	Transitional Provisions in ECE/TRANS/WP.29/GRE/2009/25 - Regulation No. 19 (Front fog lamps)	(a)
18.	GTB	5(f)	E	Transitional Provisions in ECE/TRANS/WP.29/GRE/2009/21 - Regulation No. 98 (Headlamps with gas-discharge light sources)	(a)
19.	GTB	5(f)	E	Transitional Provisions in ECE/TRANS/WP.29/GRE/2009/22 - Regulation No. 112 (Headlamps emitting an asymmetrical passing beam)	(a)
20.	GTB	5(f)	E	Additional provisions to be added to ECE/TRANS/WP.29/GRE/2009/23 - Regulation No. 123 (Adaptive front-lighting systems (AFS))	(a)
21.	GTB	12(i)	E	Proposal for Corrigendum 1 to Supplement 10 to Regulation No. 98 (Headlamps with gas-discharge light sources)	(d)
22.	GTB	11(a)	E	Proposal for a corrigendum to Regulation No. 113 (Headlamps emitting symmetrical beams)	(c)
23.	IMMA	9(c)	E	Proposal for the installation requirements for daytime running lamps	(b)
24.	IMMA	9(b)	E	Informal document to GRE on amber position lamps (APL)	(a)

No.	Transmitted by	Agenda item	Language	Title	Follow-up
25	Germany	4(f)	E	Proposal for Additions to ECE/TRANS/WP.29/GRE/2009/18	(c)
26.	GTB	5(f)	E	Correction to ECE/TRANS/WP.29/GRE/2009/21	(c)
27.	GTB	5(f)	E	Correction to ECE/TRANS/WP.29/GRE/2009/22	(a)
28.	Austria	5(f)	E	Proposal to amend ECE/TRANS/WP.29/GRE/2009/21	(a)
29.	Austria	4(c)	E	Proposal to amend ECE/TRANS/WP.29/GRE/2008/30	(b)
30.	India	3(a)	E	India's comments on Supplement 33 to the 03 series of amendments to Regulation No. 37 (Filament lamps)	(a)
31.	India	4(c)	E	India's comments on new proposal for Regulation No. 48 (Installation of lights and light-signalling devices) (ECE/TRANS/WP.29/GRE/2009/3)	(c)
32.	Japan	9(b)	E	Proposal for amendments to Regulation No. 53 (Installation of lighting and light-signalling devices for L ₃ category vehicles)	(a)
33.	OICA	4(d)	E	Proposal for Corrigendum 1 to Supplement 2 to the 04 series of amendments to Regulation No. 48 (Installation of lights and light-signalling devices)	(b)
34/ Rev.1	OICA	4(b)	E	Proposal for draft amendments to Regulation No. 48 (Installation of lights and light-signalling devices)	(c)
35.	India	9(b)	E	India's comments on draft amendments to Regulation No. 53 (Installation of lighting and light-signalling devices for L ₃ category of vehicles) (ECE/TRANS/WP.29/GRE/2009/5)	(a)
36.	India	4(b)	E	India's comments on draft amendments to Regulation No. 53 (Installation of lighting and light-signalling devices for L ₃ category vehicles)(ECE/TRANS/WP.29/GRE/2009/5)	(c)
37.	India	12(j)	E	India's comments on draft amendments to Regulation No. 7 (Front and rear position (side) lamps, stop lamps and end-outline marker lamps)	(d)
38.	France	12(c)	E	Proposal for amendments to Regulation No. 7 (Front and rear position (side) lamps, stop lamps and end-outline marker lamps)	(b)

No.	Transmitted by	Agenda item	Language	Title	Follow-up
39.	France	4(c)	E	Proposal for draft amendments to Regulation No. 48 (Installation of lights and light-signalling devices)	(b)
40.	OICA	12(d)	E	Proposal for amendments to Regulation No. 10 (Electromagnetic compatibility)	(b)
41.	IMMA	9(a)	E	Proposal for amendments to ECE/TRANS/WP.29/GRE/2009/4	(b)
42.	GRE Chairperson	4(b)	E	Proposal for amendments to ECE/TRANS/WP.29/GRE/2009/9 - Daytime running lamps switching	(b)

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

No.	Transmitted by	Agenda item	Language	Title	Follow-up
57-09	India	2(a)	E	India's comments on proposed draft gtr	(c)
60-06	GTB	3(a)	E	Proposal for Supplement 33 to the 03 series of amendments to Regulation No. 37 (filament lamps)	(a)
60-08	The Netherlands	4(e)	E	Detailed justification to document ECE/TRANS/WP.29/GRE/2008/46	(c)
60-10	OICA	4(b)	E	Mandatory requirements for automatic switching of headlamps	(c)
60-17	The Netherlands	4(e)	E	India's comments on proposed draft Regulation No. 48-H	(c)
60-19	India	3(a)	E	India's comments on the new proposal to Regulation No. 37: ECE/TRANS/WP.29/GRE/2008/39	(a)

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-61-03

(see para. 10 of the report)

Annex 1,

The list of categories of filament lamps and their sheets, amend to read:

"

Group 2

Only for use in signalling lamps, cornering lamps, reversing lamps and rear registration plate lamps:

<u>Category</u>	<u>Sheet number(s)</u>
C5W	C5W/1
H6W	H6W/1
H10W/1	H10W/1 to 2
HY6W	H6W/1
HY10W	H10W/1 to 2
HY21W	H21W/1 to 2
...	...

"

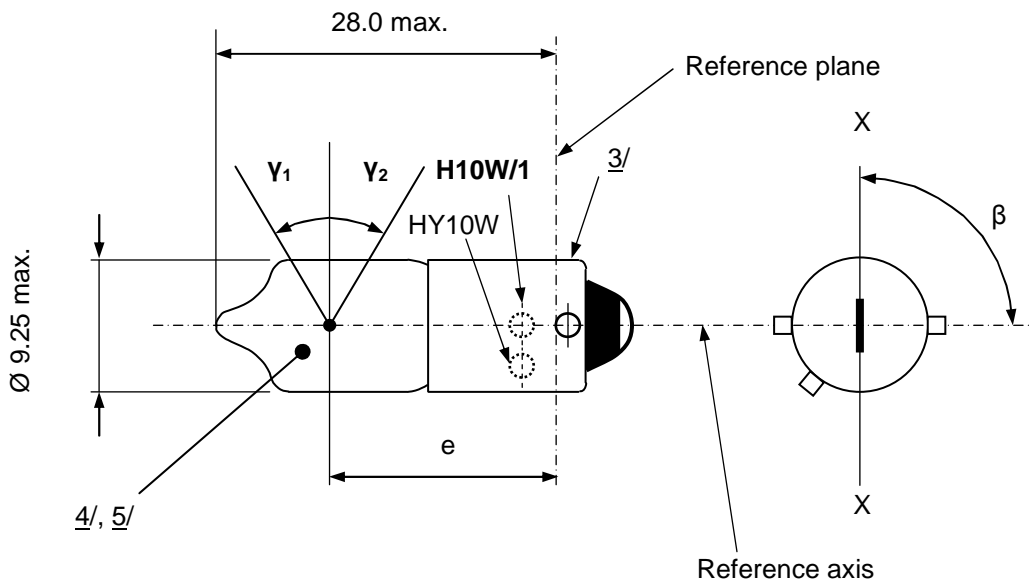
The new sheets H10W/1 to 2, between sheet H6W/1 and sheet H21W/1, amend to read (see next pages):

"

CATEGORIES **H10W/1** AND HY10W

Sheet H10W/1

The drawings are intended only to illustrate the essential dimensions (in mm) of the filament lamp



Dimensions in mm		Filament lamps of normal production			Standard filament lamp
		min.	nom.	max.	
e		14.25	15.0	15.75	15.0 ± 0.25
Lateral deviation	<u>1/</u>			0.75	0.4 max
β		82.5°	90°	97.5°	90° ± 5°
γ_1, γ_2	<u>2/</u>	30°			30° min.
Cap:	H10W/1: BAU9s HY10W BAUZ9s	in accordance with IEC Publication 60061 (sheet 7004-[...]) in accordance with IEC Publication 60061 (sheet 7004-[...])			
ELECTRICAL AND PHOTOMETRIC CHARACTERISTICS					
Rated values	Volts	12			12
	Watts	10			10
Test voltage	Volts	13.5			13.5
Objective values	Watts	12 max.			12 max.
	Luminous flux	H10W/1	200 ± 12 %		
		HY10W	120 ± 17 %		
Reference luminous flux at approximately 13.5 V					White: 200 lm
					Amber: 120 lm

- 1/ Maximum lateral deviation of filament centre from two mutually perpendicular planes both containing the reference axis and one containing axis X-X.
- 2/ In the area between the outer legs of the angles γ_1 and γ_2 , the bulb shall have no optically distorting areas and the curvature of the bulb shall have a radius not less than 50 per cent of the actual bulb diameter.
- 3/ Over the entire length of the cap there shall be no projections or soldering exceeding the permissible maximum diameter of the cap.
- 4/ The light emitted from filament lamps of normal production shall be white for category **H10W/1** and amber for category HY10W.
- 5/ The light emitted from standard filament lamps shall be white for category **H10W/1** and amber or white for category HY10W. "

ADOPTED ON THE BASIS OF GRE-61-05
(see para. 10 of the report)

Annex 1,

Sheet H10W/1, the table, amend to read:

".....

Cap:	H10W/1	BAU9s	in accordance with IEC Publication 60061 (sheet 7004- 150A-1)
	HY10W	BAUZ9s	in accordance with IEC Publication 60061 (sheet 7004- 150B-1)

....."

Sheet PC16W/2, the table, amend to read:

".....

PC16W	Cap PU20d-1	
PCY16W	Cap PU20d-2	in accordance with IEC Publication 60061 (sheet 7004- 157-1)
PCR16W	Cap PU20d-7	

....."

Annex III

AMENDMENTS TO REGULATION No. 48

ADOPTED ON THE BASIS OF GRE-61-12

(see para. 16 of the report)

Paragraph 6.1.4.3., amend to read:

"6.1.4.3. In length: at the front of the vehicle. ~~and fitted in such a way that~~ **This requirement shall be deemed to be satisfied if** the light emitted does not cause discomfort to the driver either directly or indirectly through the rear-view mirrors and/or other reflecting surfaces of the vehicle."

ADOPTED ON THE BASIS OF GRE-61-16

(see para. 16 of the report)

"6.14.4.2. In height: Above the ground, not less than 250 mm nor more than 900 mm (**not more than 1,200 mm if grouped with any rear lamp(s)**, 1,500 mm if the shape of the bodywork makes it impossible to keep within 900 mm **or 1200 mm respectively**). "

Paragraph 6.15.4.2., amend to read:

"6.15.4.2. In height: Above the ground, not less than 250 mm nor more than 900 mm (**not more than 1,200 mm if grouped with any rear lamp(s)**,1,500 mm if the shape of the bodywork makes it impossible to keep within 900 mm **or 1200 mm respectively**)."

Paragraph 6.17.4.2., amend to read:

"6.17.4.2. In height: Above the ground, not less than 250 mm nor more than 900 mm (**not more than 1,200 mm if grouped with any lamp(s)**, 1,500 mm if the shape of the bodywork makes it impossible to keep within 900 mm **or 1200 mm respectively or if the presence of the device is not mandatory according to paragraph 6.17.1.**)"

ADOPTED ON THE BASIS OF GRE-61-04

(see para. 18 of the report)

Paragraphs 5.10.2., amend to read:

"5.10.2. For the visibility of white light towards the rear, with the exception of reversing lamps **and white side conspicuity markings fitted to the vehicle**, there must be no direct visibility of the apparent surface of a white lamp if viewed by an observer moving within Zone 2 in a transverse plane situated 25 m behind the vehicle (see Annex 4);"

AMENDMENTS ADOPTED TO ECE/TRANS/WP.29/GRE/2009/18
(see para. 20 of the report)

Paragraph 2.7.6., add reference to footnote 3/ and footnote 3/ to read:

"2.7.6. ...a common lamp body; 3/

3/ Examples to enable a decision regarding reciprocal incorporation of lamps can be found in Annex 3, Part 7."

Paragraph 2.8., amend to read:

"2.8. "Light emitting surface" ofsee Annex 3 (See e.g. Parts 1, and 4);

...

b) ... see Annex 3. (See e.g. Part 5);"

.....

Paragraph 2.9.2., amend to read:

"2.9.2. ... emitting surface itself. (See e.g. Annex 3, Parts 2, 3, 5 and 6)"

....

Annex 3, amend to read (to be fully replaced):

"ANNEX 3

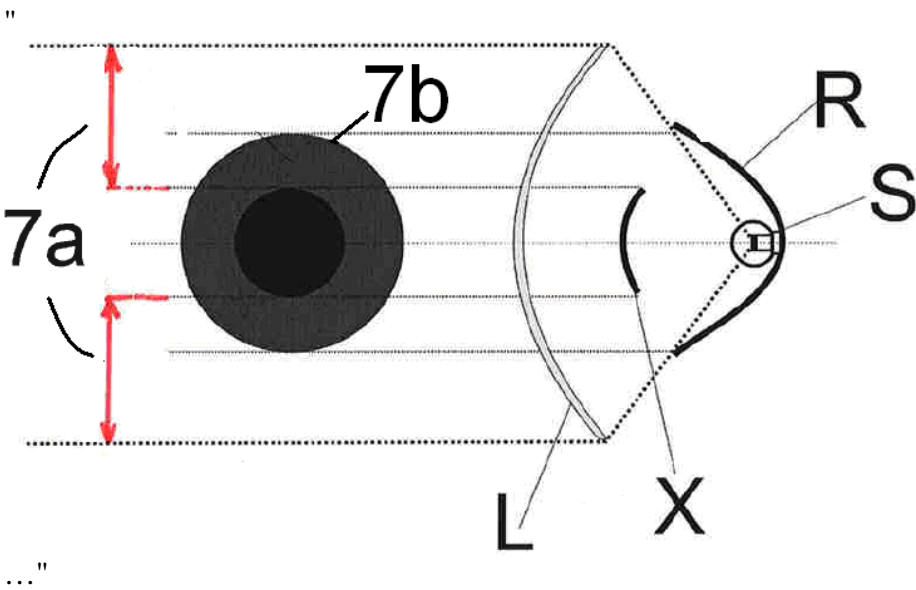
EXAMPLES OF LAMP SURFACES, AXES, CENTRES OF REFERENCE, AND ANGLES
OF GEOMETRIC VISIBILITY

~~Actual lamp construction may be different from the examples shown.~~

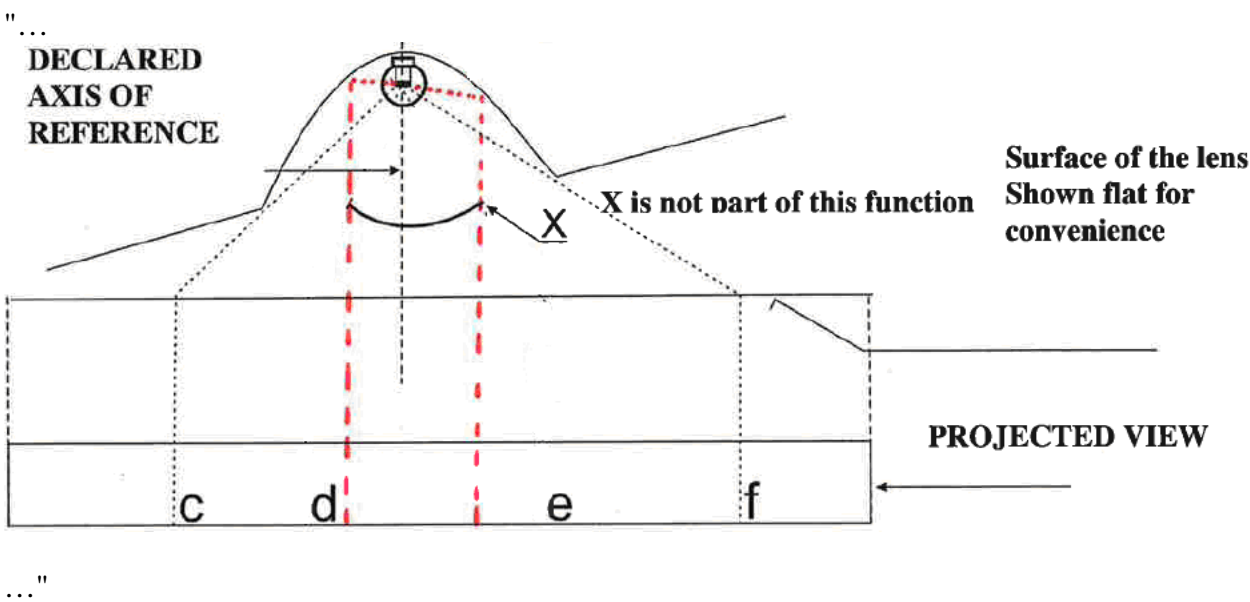
**These examples show some arrangements to aid the understanding of the provisions and are
not intended to be design restrictive.**

..."

Example 9:



Example D:



Annex IV

AMENDMENTS TO REGULATIONS Nos. 6 and 7

AMENDMENTS ADOPTED TO ECE/TRANS/WP.29/GRE/2009/19
(see para. 24 of the report)

A.1. PROPOSAL TO AMEND REGULATION No. 6 - (Direction indicators)

"...

Paragraph 6.4.3.1., amend to read:

"6.4.3.1. Throughout the fields....categories 1, 1a, 2a, 2b, ~~3, 4~~ towards the front and for those of category 2b by day...by night;"

....

Annex 4,

Paragraph 2, the title, amend to read:

"2. Table of standard light distribution in space for direction indicator lamps of categories 1, 1a, 1b, 2a, 2b, 3 and 4 (towards the front only)."

Paragraph 2.1.1., amend to read:

"2.1.1. in the direction $H = 0^\circ$ and $V = 0^\circ$ for categories 1, 1a, 1b, 2a, 2b, ~~3~~ and in the case of category ~~4~~ to the front only and in the case of category 5 in the angular area in the direction A as prescribed in Annex 1;"

A.2. PROPOSAL TO AMEND REGULATION No. 7 - **(Front and rear position (side) lamps, stop lamps and end-outline marker lamps)** (The following...

Paragraph 6.1., the table, amend to read:

"6.1:

	Minimum intensities cd	Maximum values in cd when used as		
		Single lamp	Lamp (single) marked "D" (para. 4.2.2.6.)	Total for the assembly of two or more lamps
6.1.1. Front position (side) lamps, front end-outline marker lamp	4	140	70	84
...

..."

Annex V

AMENDMENTS TO REGULATIONS Nos. 19, 98, 112, 113 and 123

AMENDMENTS ADOPTED TO ECE/TRANS/WP.29/GRE/2009/24
(see para. 27 of the report)

A.1. PROPOSAL TO AMEND REGULATION No. 19 - (Front fog lamps)

...

Paragraphs 1.1.2. to 1.1.2.4., amend to read:

"1.1.2. Test voltage

...

(f) Where ~~additional~~-signalling lamps are..."

A.2. PROPOSAL TO AMEND REGULATION No. 98 - (Headlamps with gas-discharge light sources).

....

Paragraph 1.1.1.2., amend to read:

"1.1.1.2. Test voltage

...

(f) Where ~~additional~~-signalling lamps are..."

A.3. REGULATION No. 112 - (Headlamps emitting an asymmetrical passing beam)

...

Paragraph 1.1.1.2., amend to read:

"1.1.1.2. Test voltage

...

(f) Where ~~additional~~-signalling lamps are..."

A.4. REGULATION No. 113 - (Headlamps emitting an symmetrical beams)

...

Paragraph 1.1.1.2., amend to read:

"1.1.1.2. Test voltage

...

(f) Where ~~additional~~-signalling lamps are..."

A.3. REGULATION No. 123 - (Adaptive front-lighting systems(AFS))

...

Paragraph 1.1.1.2., amend to read:

"1.1.1.2. Test voltage

...

(f) Where ~~additional~~-signalling lamps are..."

Annex VI

AMENDMENTS TO REGULATION No. 113

AMENDMENTS ADOPTED TO ECE/TRANS/WP.29/GRE/2008/35
(see para. 35 of the report)

"...

Insert a new paragraph 5.3.1., to read:

"5.3.1. It is possible to use ~~several~~ **two** filament light sources for the passing beam and **several filament light sources** for the driving beam."

Annex 4,Paragraph 1.2.1.3., amend to read:

"1.2.1.3. Measuring equipment

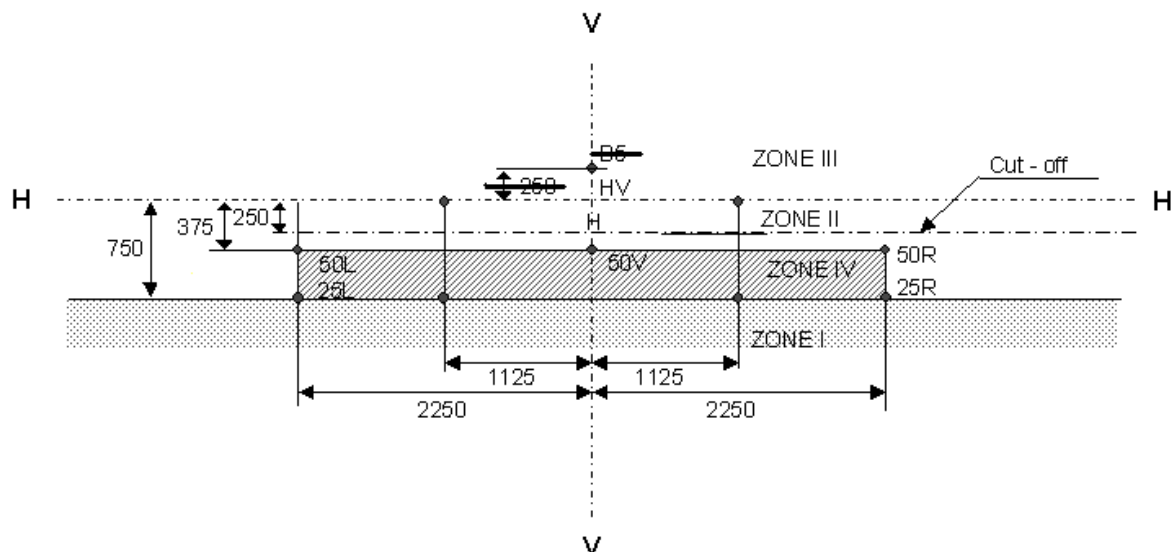
The measuring equipment shall be equivalent to that used during headlamp approval tests. **(A) standard** (étalon) filament lamp(s) shall be used for the photometric verification."

..."

AMENDMENTS ADOPTED TO ECE/TRANS/WP.29/GRE/2009/27
(see para. 35 of the report)

"...

Annex 3, Measuring Screen for Class B Headlamp, delete test point B5 and the dimension 250 mm to read:



...

Annex 4,

Introduction, amend to read:

"TESTS ON COMPLETE CLASS B HEADLAMPS

Once the photometric values have been measured according to the prescriptions of this Regulation, in the point for E_{\max} for driving beam and in points HV, 50R, 50L and ~~B50~~ for passing
....."

Paragraph 1.1.2.2., amend to read:

"1.1.2.2. Photometric test

....

For Class B headlamp:

Passing beam: 50R - 50L - ~~B50~~ - HV.

Driving beam: Point of E_{\max}

For Class C, D and E headlamp:"

Annex VII

AMENDMENTS TO REGULATION No. 45

ADOPTED ON THE BASIS OF GRE-61-07
(see para. 41 of the report)

Paragraph 7.1., amend to read:

- "7.1. The efficiency of the cleaner shall be tested in accordance with the requirements of Annex 4 to this Regulation. The cleaning efficiency at the points on the measuring screen which are specified below shall, after every cleaning period, amount to at least 70 per cent for the **principal** passing **beam** lamp and also 70 per cent for the optional driving lamp; in case of an AFS this provision applies to the photometric **test procedures** as defined in Annex 9 to Regulation No. 123 from those lighting units **in the neutral state** indicated in paragraph 6.1.1. above. **In the case of a headlamp (Regulation No. 98 or 112) providing bend lighting, the headlamp shall be set for the test in straight forward direction.**"

Annex VIII

AMENDMENTS TO REGULATION No. 98

ADOPTED ON THE BASIS OF GRE-61-21

(see para. 44 of the report)

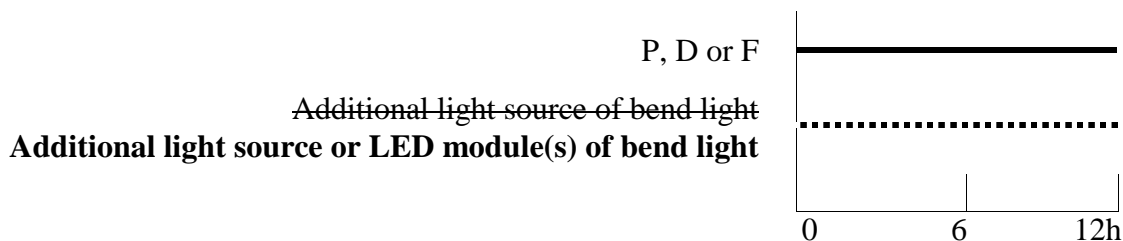
Annex 4, amend to read:

"....

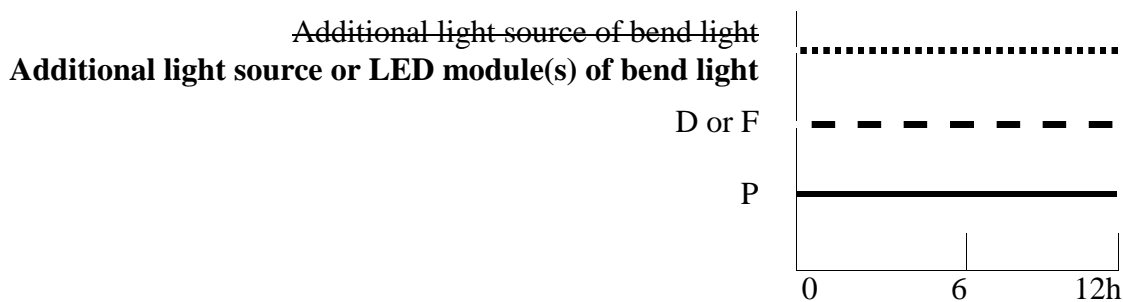
Abbreviations:	P:	passing beam lamp
	D:	driving beam lamp (D ₁ + D ₂ means two driving beams)
	F:	front fog lamp
		means a cycle of 15 minutes off and 5 minutes lit.
		means a cycle of 9 minutes off and 1 minutes lit
		means a cycle of 15 minutes lit and 5 minutes off

All following grouped headlamps and front fog lamps together with the added marking symbols are given as examples and are not exhaustive.

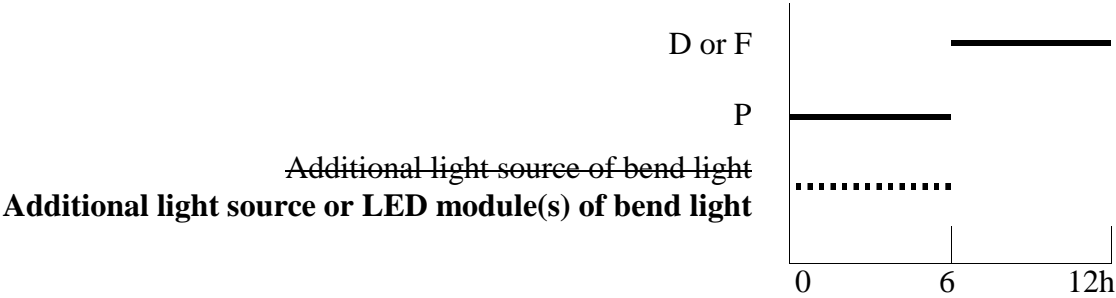
1. P or D or F (**DC** or **DR** or B)



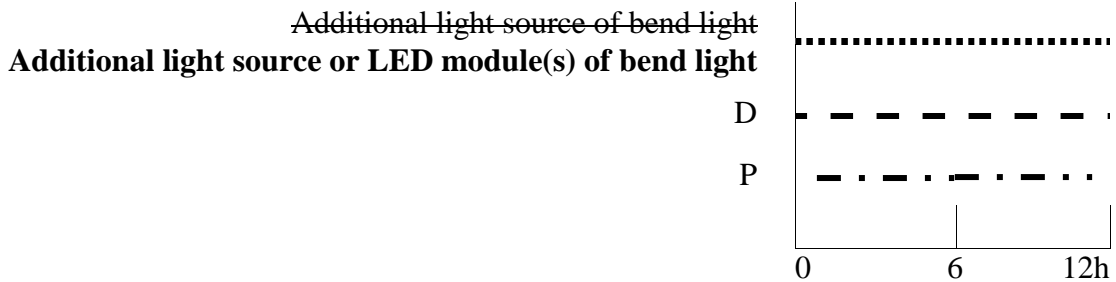
2. P+F (**DC B**) or P+D (**DCR**)



3. P+F (DC B/) or DC/B or P+D (DC/R)



4. P+D (DCR) with the same light source



..."
