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Working Party on Lighting and Light-Signalling

**REPORT OF THE WORKING PARTY ON LIGHTING AND LIGHT-SIGNALLING
ON ITS FIFTY-NINTH SESSION
(Geneva, 31 March – 4 April 2008)**

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I. ATTENDANCE

1. The Working Party on Lighting and Light-Signalling (GRE) held its fifty-ninth session from 31 (afternoon) March to 4 April 2008 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): Belgium; Canada; China; Czech Republic; Finland; France; Germany; Hungary; India; Italy; Japan; Luxembourg; Netherlands; Poland; Republic of Korea; Republic of South Africa; Russian Federation; Spain; 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 to 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.

II. ADOPTION OF THE AGENDA (Agenda item 1)

2. GRE inserted new agenda items 4(l), 4(m), 10(i), 10(j), 10(k) and 11(c) and adopted the agenda.

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; Informal document No. GRE-57-09 of Annex I to this report

3. GRE agreed to continue the consideration of this agenda item as an exchange of view on the basis of the holding pattern of gtr work ECE/TRANS/WP.29/GRE/2006/49 and informal document GRE-57-09.

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

4. The GRE chairman renewed his request for sponsors to develop new gtrs. He reminded that interest was shown by the experts to develop gtrs with regard to new headlamp beam combination, headlamp harmonized passing beam pattern for headlamps, new front fog-lamps and installation of lighting and light signaling devices on Motorcycles. He 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 32 to the 03 series of amendments (Agenda item 3(a))

Documentation: ECE/TRANS/WP.29/GRE/2008/14; ECE/TRANS/WP.29/GRE/2008/19; Informal documents Nos. GRE-59-38 and GRE-59-42 of Annex I to this report

5. GRE adopted ECE/TRANS/WP.29/GRE/2008/14, not amended, and ECE/TRANS/WP.29/GRE/2008/19, as amended below, and requested the secretariat to submit the adopted proposals to WP.29 and AC.1, for consideration at their November 2008 session, as draft Supplement 32 to the 03 series of amendments to Regulation No. 37.

Page 2, the list of sheets for filament lamps and their sequence, for P19W/1 to 3 read PR21W/1

Page 3, sheet PC16W/1, the figure, for Ø16.6 max. max read Ø16.6 max.

6. GRE agreed to resume consideration of GRE-59-38 and GRE-59-42 at its October 2008 session and requested the secretariat to distribute them with official symbols, pending technical reviews by the experts from IEC and GTB.

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))

7. GRE noted that the expert from Japan volunteered to prepare a revised proposal for the next GRE session in October 2008, taking into account the comments received during the fifty-eighth GRE session.

2. Operating voltage for lighting and light-signalling devices (Agenda item 4(b))

Documentation: Informal document No. GRE-59-32 of Annex I to this report

8. Referring to GRE-59-32, Mr. K. Manz (Germany), Chairman of the informal group, reported about the results of the second and third session of the operating voltage informal group (OVIG). He added that the proposal for amendments to Regulation No. 48 would be reviewed at the next OVIG meeting, particularly with regard to the voltage values at the terminals of devices.

3. Activation of the stop lamps by endurance brakes (Agenda item 4(c))

Documentation: Informal document No. GRE-59-04 of Annex I to this report

9. With regard to the requirements for generating the signal to activate stop lamps, GRE noted the decisions of WP.29 and AC.1 at their March 2008 sessions to adopt the provisions agreed by GRRF at its sixty-second session (ECE/TRANS/WP.29/2008/2), amending Regulation No. 13. Accordingly, the experts from OICA and CLEPA withdrew GRE-59-04 and GRE agreed to remove the item from the agenda of its next session.

4. Requirements for light-signalling lamps (Agenda item 4(d))

Documentation: ECE/TRANS/WP.29/GRE/2008/8; Informal documents Nos. GRE-59-26 and GRE-59-34 of Annex I to this report

10. GRE considered and adopted GRE-59-34 as reproduced in Annex II, superseding ECE/TRANS/WP.29/GRE/2008/8 and GRE-59-26. The secretariat was requested to submit the proposal to WP.29 and AC.1, for consideration at their November 2008 sessions, as draft Supplement 2 to the 04 series of amendments to Regulation No. 48.

5. Interpretation of paragraphs 5.7., 5.11. and 5.24. of the Regulation (possibility of switching OFF the position lamps in certain conditions) (Agenda item 4(e))

Documentation: ECE/TRANS/WP.29/GRE/2008/2; ECE/TRANS/WP.29/GRE/2008/7; Informal document No. GRE-59-09 of Annex I to this report

11. GRE considered and adopted ECE/TRANS/WP.29/GRE/2008/7 (superseding ECE/TRANS/WP.29/GRE/2008/2), amended by GRE-59-09 as reproduced in Annex II. The secretariat was requested to submit the proposal to WP.29 and AC.1, for consideration at their November 2008 sessions, as a part of (see para. 10) draft Supplement 2 to the 04 series of amendments to Regulation No. 48.

12. GRE also agreed to resume at its next session in October 2008 consideration of the deleted sentence from the proposal of paragraph 5.11.2. and the associated part of paragraph 5.7.1.1. The secretariat was requested to prepare a document with an official symbol to be considered under agenda item "Arrangement of electrical connections", pending proposals from the expert from India on geometric visibility concerning Regulations Nos. 19, 98 and 112.

6. Interpretation of paragraph 5.7. of the Regulation (possibility of reciprocally incorporated lamps with stop lamps) (Agenda item 4(f))

Documentation: Informal document No. GRE-59-09 of Annex I to this report

13. GRE noted concerns from some experts whether GRE-59-09 would resolve the issue. Accordingly GRE agreed that the amendments introduced by GRE-59-09 would be subject to revision by GRE at its October 2008 session to finalize the proposal to be submitted to

WP.29 and AC.1 for consideration at their November 2008 sessions as part of (see paras. 10 and 11) Supplement 2 to the 04 series of amendments to regulation 48.

7. Installation of daytime running lamps (Agenda item 4(g))

Documentation: ECE/TRANS/WP.29/GRE/2008/9

14. GRE considered and adopted ECE/TRANS/WP.29/GRE/2008/9 not amended and requested the secretariat to submit the proposal to WP.29 and AC.1, for consideration at their November 2008 sessions, as a part of (see paras. 10, 11 and 13) draft Supplement 2 to the 04 series of amendments to Regulation No. 48.

8. Proposals for Corrigendum 1 to the 04 series of amendments (Agenda item 4(h))

Documentation: ECE/TRANS/WP.29/GRE/2008/18; Informal documents Nos. GRE-59-02, GRE-59-10, GRE-59-11 and GRE-59-15 of Annex I to this report

15. GRE noted that WP.29 referred to its consideration GRE-59-11 (former WP.29-144-16 and superseded by GRE-59-15), reintroducing the transitional provisions of the 03 series of amendments to Regulation No. 48. Taking into account the comments of GRE-59-02, GRE-59-10 and GRE-59-15, GRE adopted ECE/TRANS/WP.29/GRE/2008/18, as amended by Annex II of this report. The secretariat was requested to submit the proposal to WP.29 and AC.1, for consideration at their June 2008 sessions, as draft Corrigendum 1 to the 04 series of amendments to Regulation No. 48 (see ECE/TRANS/WP.29/2008/77).

9. Daytime running lamps switching (Agenda item 4(i))

Documentation: ECE/TRANS/WP.29/2007/20/Rev.1/Amend.1; Informal documents Nos. GRE-59-06, GRE-59-22 and GRE-59-35 of Annex I to this report

16. Regarding the need for provisions concerning the automatic activation of dipped-beam headlamps, GRE noted that WP.29 and AC.1 would consider the proposal (ECE/TRANS/WP.29/2007/20/Rev.1/Amend.1) at their June 2008 sessions, subject to a possible review by GRE (ECE/TRANS/WP.29/1064, para. 55). Following the discussion, GRE invited the experts from OICA and CLEPA to consider all relevant documents (GRE-59-06 and GRE-59-35) and to prepare a consolidated proposal for the next GRE session. Accordingly, GRE agreed to remove ECE/TRANS/WP.29/2007/20/Rev.1/Amend.1 from the agenda.

17. GRE also considered GRE-59-22 introducing the allowance for daytime running lamps (DRL) to remain switched OFF under certain conditions. GRE adopted it as reproduced in Annex II of this report and requested the secretariat to submit the proposal to WP.29 and AC.1 for consideration at their November 2008 sessions, as a part of (see paras. 10, 11, 13 and 14) draft Supplement 2 to the 04 series of amendments to Regulation No. 48.

10. Clarifications on installation requirements (Agenda item 4(j))

Documentation: ECE/TRANS/WP.29/GRE/2008/20; ECE/TRANS/WP.29/GRE/2008/21; Informal documents Nos. GRE-59-07, GRE-59-14, GRE-59-18, GRE-59-25, GRE-59-27, GRE-59-36 and GRE-59-39 of Annex I to this report

18. The experts from OICA and India introduced GRE-59-18 and GRE-59-39, respectively, amending ECE/TRANS/WP.29/GRE/2008/20. Taking into account the comments received, GRE adopted ECE/TRANS/WP.29/GRE/2008/20, as amended by Annex II of this report. The expert from the Netherlands raised concern regarding the lack of constraint for horizontal light generated by the exterior courtesy lamps. The secretariat was requested to submit the proposal to WP.29 and AC.1, for consideration at their November 2008 sessions, as a part of (see paras. 10, 11, 13, 14 and 17) draft Supplement 2 to the 04 series of amendments to Regulation No. 48.

19. With regard to ECE/TRANS/WP.29/GRE/2008/21, GRE considered the comments tabled by the experts from OICA (GRE-59-25) and France (GRE-59-36). GRE considered and adopted ECE/TRANS/WP.29/GRE/2008/21, as amended by Annex II of this report. The secretariat was requested to transmit the proposal to WP.29 and AC.1, for consideration at their November 2008 sessions as draft Corrigendum 1 to Revision 4 of Regulation No. 48.

20. GRE considered a proposal tabled by the expert from CLCCR (GRE-59-07). The proposal met general approval. However, following the request of a study reservation by the experts from the EC, Germany and the Netherlands, GRE agreed to resume the discussion at the next session. GRE agreed to insert a footnote to "Incomplete vehicle" referring to the definition of Special Resolution 1 (S.R.1), Annex 1 para.6. For that purpose, GRE requested the secretariat to distribute the document with an official symbol, as amended during the discussion.

21. GRE considered GRE-59-14, tabled by the expert from OICA, to introduce allowances for replacement of conspicuity marking by reflective plates required for certain type of vehicles. The proposal did not receive the support of GRE. The expert from OICA withdrew GRE-59-14. GRE agreed to keep the item in the agenda pending a revised proposal.

22. GRE also considered GRE-59-27. The proposal did not receive the support of GRE. The expert from the Republic of Korea withdrew it.

11. Arrangement of electrical connections (Agenda item 4(k))

Documentation: ECE/TRANS/WP.29/GRE/2008/23; Informal document No. GRE-59-41 of Annex I to this report.

23. Regarding the electrical connections for front position lamps, GRE considered ECE/TRANS/WP.29/GRE/2008/23, together with comments (GRE-59-41) from the expert from India. GRE agreed to resume the discussion on the basis of a revised proposal including suitable provisions on minimum geometric visibility concerning Regulations Nos. 19, 98 and 112.

12. Proposal for a draft Regulation No. 48-H (Agenda item 4(l))

Documentation: Informal document No. GRE-59-03 of Annex I to this report

24. The expert from the Netherlands presented GRE-59-03. GRE experts were invited to send comments, if any, to the expert from the Netherlands not later than 1 June 2008, to allow him to consolidate a revised proposal for the next GRE session. GRE confirmed that the goal of this proposal was to establish common regulatory window for the European and North American markets, limiting the scope to M_1 and N_1 (having length ≤ 6 m and width ≤ 2 m), and then, as a second step, extending it to other categories of vehicles.

13. Presence of lamp (Agenda item 4(m))

Documentation: Informal document No. GRE-59-24/Rev.1 of Annex I to this report

25. GRE considered and adopted GRE-59-24/Rev.1, as reproduced in Annex II to this report. The secretariat was requested to submit the proposal to WP.29 and AC.1, for consideration at their November 2008 sessions, as a part of (see paras. 10, 11, 13, 14, 17 and 18) draft Supplement 2 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))

26. GRE was informed that the informal group on the "electronic database for type approval exchange of information" (DETA) met twice and that the report of the first session was available at the website:

<<http://www.unece.org/trans/main/wp29/wp29wgs/wp29gen/gen deta03.html> >.

27. GRE agreed to wait for the informal group's conclusion before considering the GTB proposals for simplification.

2. Collective amendments on colour specifications (Agenda item 5(b))

Documentation: Informal documents Nos. GRE-59-12 and GRE-59-43 of Annex I to this report

28. With regard to the introduction of colour specifications of passive lighting devices, GRE considered GRE-59-12. GRE agreed in principle on the proposal, and requested the secretariat to distribute it with the official symbol after the inclusion of Regulation No. 88 (Retro-reflective tyres for two-wheeled vehicles) into the collective amendments and editorial revision by the experts from Czech Republic and CLEPA.

29. With regard to the previous proposal on colour specifications adopted by WP.29 and AC.1 at their March 2008 sessions (ECE/TRANS/WP.29/2008/19), GRE adopted GRE-59-43, as reproduced in Annex II to this report. The secretariat was requested to submit the proposal to WP.29 and AC.1, for consideration at their June 2008 sessions, as draft Corrigendum 1 to Supplement 1 to the 04 series of amendments to Regulation No. 48 (see

ECE/TRANS/WP.29/2008/78).

3. Phantom light and colour washout phenomena in signalling and marking devices (Agenda item 5(c))

Documentation: Informal document No. GRE-59-21 of Annex I to this report

30. GRE noted a report (GRE-59-21) transmitted by the GRE Chairman for information. This report was prepared by the University of Michigan Transportation Research Institute (UMTRI) and deals with the effectiveness of clear-lens turn signals in direct sunlight..

4. Regulations Nos. 6, 7 and 38 (Agenda item 5(d))

31. GRE agreed to resume the discussion on this agenda item at its next session on the basis of new proposal from CLEPA regarding Regulations Nos. 7 and 38 only, in order to maintain the possibility of "R" or "F" markings of devices.

5. Regulations Nos. 69 and 70 (Agenda item 5(e))

32. GRE noted the lack of new proposals and agreed to remove this item from the agenda of its next October 2008 session.

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

Documentation: ECE/TRANS/WP.29/GRE/2008/3; Informal document No. GRE-59-23 of Annex I to this report

33. The expert from Germany introduced ECE/TRANS/WP.29/GRE/2008/3. In order to cover cases where filament lamps are used as non-replaceable light sources, the expert from Japan introduced GRE-59-23. The proposal received some comments concerning the clarity of wording and some technical aspects. GRE agreed to resume the discussion on this agenda item at its October 2008 session, on the basis of a revised proposal jointly prepared by the experts from Germany, Japan, OICA, CLEPA and IEC.

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

Documentation: ECE/TRANS/WP.29/GRE/2008/15; ECE/TRANS/WP.29/GRE/2008/16; ECE/TRANS/WP.29/GRE/2008/17; Informal documents Nos. GRE-59-37 and GRE-59-40 of Annex I to this report

34. The expert from France introduced ECE/TRANS/WP.29/GRE/2008/15, ECE/TRANS/WP.29/GRE/2008/16, ECE/TRANS/WP.29/GRE/2008/17 and GRE-59-37, aimed at introducing allowances on the visibility requirements. The proposals received some comments tabled by the expert from India (GRE-59-40). The expert from France volunteered to prepare revised proposals for the next GRE session, taking into account the comments received.

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

Documentation: ECE/TRANS/WP.29/GRE/2007/63; Informal documents Nos. GRE-59-29 and GRE-59-31 of Annex I to this report

35. GRE adopted GRE-59-29 and GRE-59-31, superseding ECE/TRANS/WP.29/GRE/2007/63, as reproduced in Annex III to this report. The secretariat was requested to submit the proposals to WP.29 and AC.1, for consideration at their November 2008 sessions, as Corrigendum 2 to the 03 series of amendments to Regulation No. 19.

E. Daytime running lamps (DRL) (Agenda item 7)

1. Regulation No. 87 (Daytime running lamps) (Agenda item 7(a))

Documentation: ECE/TRANS/WP.29/GRE/2007/10; ECE/TRANS/WP.29/GRE/2008/4; ECE/TRANS/WP.29/GRE/2008/11

36. The experts from Germany and IMMA reported that research on improved conspicuity of motorcycles was still in progress. The expert from Germany withdrew ECE/TRANS/WP.29/GRE/2007/10 awaiting the final outcomes of the above-mentioned research would be available.

37. Due to the decision agreed by GRE under agenda item 4(d) (see para. 10 above), the expert from France withdrew ECE/TRANS/WP.29/GRE/2008/4. For the same reason the expert from GTB withdrew ECE/TRANS/WP.29/GRE/2008/11.

2. Regulation No. 53 - Installation of DRL (Installation of lighting and light-signalling devices on L₃ categories of vehicles) (Agenda item 7(b))

Documentation: Informal document No. GRE-59-19 of Annex I to this report

38. GRE noted the report on a research study from Australia (GRE-59-19) transmitted for information purposes by the GRE Chairman.

F. Regulations Nos. 53 and 113 (Agenda item 8)

Documentation: ECE/TRANS/WP.29/GRE/2006/46/Rev.1; ECE/TRANS/WP.29/GRE/2006/47/Rev.1

39. With regards to Regulation No. 113, GRE agreed with the suggestion by the expert from the Netherlands to amend paragraph 47 of the report ECE/TRANS/WP.29/GRE/58 of the previous GRE session as follows:

".....GRE adopted ECE/TRANS/WP.29/GRE/2007/49, not amended. **GRE noted the concerns of the expert from the Netherlands.** The secretariat was requested"

40. GRE considered and adopted ECE/TRANS/WP.29/GRE/2006/46/Rev.1, as amended

by Annex IV to this report, and ECE/TRANS/WP.29/GRE/2006/47/Rev.1 not amended. The secretariat was requested to submit the proposals to WP.29 and AC.1, for consideration at their November 2008 sessions, as draft Supplement 10 to the 01 series of amendments to Regulation No. 53 and as draft Supplement 8 (Revision 2) to Regulation No. 113, respectively. As a consequence of the adoption of provisions on high-intensity discharge (HID) headlamps in Regulations Nos. 53 and 113, the insertion of category L₃ would be consequential in the amendment to Regulation No. 98 (see para. 49).

**G. Regulation No. 123 (Adaptive front-lighting systems (AFS) for motor vehicles)
(Agenda item 9)**

Documentation: ECE/TRANS/WP.29/GRE/2008/13; ECE/TRANS/WP.29/GRE/2008/25;
Informal document No. GRE-59-28 of Annex I to this report

41. GRE considered and adopted ECE/TRANS/WP.29/GRE/2008/13, not amended. Taking into account the comments from the expert from Germany (GRE-59-28), GRE adopted ECE/TRANS/WP.29/GRE/2008/25, as amended by Annex V to this report. The secretariat was requested to submit both proposals to WP.29 and AC.1, for consideration at their June 2008 sessions, as draft Supplement 3 to Regulation No. 123 (see ECE/TRANS/WP.29/2008/80).

H. New agenda items (Agenda item 10)

1. Regulations Nos. 4 and 48 (Agenda item 10(a))

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

42. GRE considered ECE/TRANS/WP.29/GRE/2008/5 and ECE/TRANS/WP.29/GRE/2008/6 concerning the provisions for the installation of self-illuminating rear registration plate. Several experts raised concerns about the proposals. GRE agreed to defer the discussion on this subject until the expert from Germany provides sample plates/illuminating devices during future sessions.

2. New draft Regulation for light-signalling devices (Agenda item 10(b))

Documentation: (ECE/TRANS/WP.29/2008/46); Informal document No. GRE-59-01 of Annex I to this report

43. GRE took note that WP.29 agreed at its March 2008 session to refer back to GRSG the draft proposal of Horizontal Regulation (ECE/TRANS/WP.29/2008/46) for consideration of technical and legal aspects (ECE/TRANS/WP.29/1066, para. 39).

44. GRE considered a proposal tabled by the expert from France (GRE-59-01) for a new consolidated Regulation that would gather mainly general administrative requirements which exist in different individual Regulations. Some experts acknowledged that the proposal could have administrative advantages, while others expressed concerns over transferring some requirements from individual Regulations into a consolidated one. GRE agreed to resume

discussions at its October 2008 session based on GRE-59-01 translated to English and requested the secretariat to distribute it with an official symbol.

3. Regulation No. 3 (Retro-reflecting devices) (Agenda item 10(c))

Documentation: ECE/TRANS/WP.29/2007/55; Informal document No. GRE-59-33 of Annex I to this report

45. GRE noted the decision of WP.29 at its November 2007 session (ECE/TRANS/WP.29/1064, para. 7) to refer back to GRE ECE/TRANS/WP.29/2007/55 for further consideration. GRE considered and adopted GRE-59-33 regarding Regulation No. 48, superseding ECE/TRANS/WP.29/2007/55, as reproduced in Annex II of this report. GRE also agreed that in the case of retro-reflectors consisting of more parts, one of them would be regarded for measurements to demonstrate compliance to type approval according to Regulation No. 3, while the other(s) part(s) was(were) acceptable as "additional retro-reflecting device(s)". The secretariat was requested to submit GRE-59-33 to WP.29 and AC.1, for consideration at their November 2008 sessions, as a part of (see paras. 10, 11, 13, 14, 17, 18 and 25) draft Supplement 2 to the 04 series of amendments to Regulation No. 48.

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

Documentation: ECE/TRANS/WP.29/GRE/2008/10

46. GRE adopted ECE/TRANS/WP.29/GRE/2008/10, not amended. The secretariat was requested to submit it to WP.29 and AC.1, for consideration at their November 2008 sessions as Corrigendum 1 to Revision 1 of Regulation No. 99.

5. Regulation No. 119 (Cornering lamps) (Agenda item 10(e))

Documentation: ECE/TRANS/WP.29/GRE/2008/12

47. GRE considered and adopted ECE/TRANS/WP.29/GRE/2008/12, as amended below and requested the secretariat to submit it to WP.29 and AC.1, for consideration at their November 2008 sessions as Supplement 4 to Regulation No. 119.

Page 3, paragraph 7.4., fourth line, for **manufacturer** read **applicant**

6. Conspicuity of motorcycles (Agenda item 10(f))

Documentation: Informal document No. GRE-59-20 of Annex I to this report

48. GRE welcomed a study on the conspicuity of motorcycles (GRE-59-20). The expert from IMMA stated the complexity of the issue. He advised to wait for a final outcome of research works in order to devise a proper solution.

7. Regulations Nos. 48, 98 and 112 (Agenda item 10(g))

Documentation: ECE/TRANS/WP.29/GRE/2008/22; Informal document No. GRE-59-13 of Annex I to this report

49. Taking into account GRE-59-13, GRE adopted ECE/TRANS/WP.29/GRE/2008/22, as amended by Annex VI to this report. The secretariat was requested to submit the proposal to WP.29 and AC.1, for their consideration at their November 2008 sessions as a part of (see paras. 10, 11, 13, 14, 17, 18, 25 and 45) draft Supplement 2 to the 04 series of amendments to Regulation No. 48, draft Supplement 11 to Regulation No. 98 and draft Supplement 10 to Regulation No. 112, respectively.

8. Regulation No. 74 (Installation of lighting and light-signalling devices for mopeds) (Agenda item 10(h))

Documentation: ECE/TRANS/WP.29/GRE/2008/24

50. GRE considered and adopted ECE/TRANS/WP.29/GRE/2008/24 not amended. The secretariat was requested to submit the proposal to WP.29 and AC.1, for their consideration at their November 2008 sessions as draft Supplement 6 to the 01 series of amendments to Regulation No. 74.

9. Regulation No. 65 (Special warning lamps) (Agenda item 10(i))

Documentation: Informal document No. GRE-59-05 of Annex I to this report

51. GRE noted the decision of WP.29 at its March 2008 session (ECE/TRANS/WP.29/1066, para. 37) to refer GRE-59-05, tabled by the expert from Switzerland, to GRE for further consideration. GRE considered and adopted it, as reproduced in Annex VII of this report. The secretariat was requested to submit it to WP.29 and AC.1, for their consideration at their June 2008 sessions, as draft Corrigendum 1 to Supplement 6 to Regulation No. 65 (see ECE/TRANS/WP.29/2008/79).

10. Regulation No. 45 (Headlamp cleaners) (Agenda item 10(j))

Documentation: Informal document No. GRE-59-08 of Annex I to this report

52. GRE considered GRE-59-08. Following the discussion, GRE agreed to resume consideration on this subject at its next session. The secretariat was requested to distribute it with an official symbol, as amended during the discussion.

11. Regulation No. 7 (Front and rear position (side) lamps, stop lamps and end-outline marker lamps)(Agenda item 10(k))

Documentation: Informal document No. GRE-59-30 of Annex I to this report

53. GRE considered and adopted GRE-59-30, as reproduced in Annex VIII of this report. The secretariat was requested to submit it to WP.29 and AC.1, for their consideration at their November 2008 sessions, as draft Supplement 15 to the 02 series of amendments to Regulation No. 7, pending further revision from the experts from France and Germany at the next GRE session in October 2008.

V. OTHER BUSINESS (Agenda item 11)

**A. Amendments to the Convention on Road Traffic (Vienna 1968)
(Agenda item 11(a))**

54. The expert from IMMA informed GRE that the small internal group of the Working Party on Road Traffic Safety (WP.1) had prepared a document to amend Annex 5 of the Vienna Convention, which had not yet been placed on the agenda of WP.1 for discussion. GRE agreed that WP.1 would be asked to urge conclusion on this issue in order to allow the use of newly-introduced, safety related technology in vehicles entering International Traffic.

B. Direction for future GRE work (Agenda item 11(b))

55. GRE agreed to streamline the decision making process on informal documents. Accordingly, a deadline for submission to the secretariat of informal documents commenting the official ones was set by the 15 August 2008, six weeks prior to the session. Informal documents received after that date, will be considered as a first exchange of view and then deferred to the next session with an official symbol. However, if a consensus of GRE is reached, late submission of informal documents may be adopted on an exceptional basis. GRE agreed to keep this item on the agenda for the next session to allow future exchange of views.

C. Regulation No. 53 (Visibility of adaptive front-lighting systems (AFS) for motorcycles and glare (Agenda item 11(c))

Documentation: Informal documents Nos. GRE-59-16 and GRE-59-17 of Annex I to this report

56. GRE considered GRE-59-16 and GRE-59-17 tabled by the expert from Japan. GRE agreed to resume consideration on this subject at the next session, pending a revised proposal complemented by the comments from the expert from IMMA.

VI. PROVISIONAL AGENDA FOR THE NEXT SESSION

57. GRE did not consider the provisional agenda for the sixtieth session of GRE, scheduled to be held from 1 to 3 October 2008. 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-59-...)

No.	Transmitted by	Agenda item	Language	Title	Follow-up
1.	France	10(b)	F	New draft Regulation for light-signalling devices	(b)
2.	EC	4(h)	E	Proposed amendments to ECE/TRANS/WP.29/2008/18	(c)
3.	Netherlands	4(l)	E	Proposal for a draft Regulation No. 48-H	(b)
4.	CLEPA - OICA	4(c)	E	Operation of Endurance Brakes and Illumination of Stop Lamps	(c)
5.	Switzerland	10(j)	E	Proposal for draft amendment to document ECE/TRANS/WP.29/2008/22 (Regulation No. 65)	(d)
6.	Netherlands	4(i)	E	Proposal for amendments to Regulation No. 48	(a)
7.	CLCCR	4(j)	E	Regulation No. 48 - Requirements for conspicuity markings	(b)
8.	Netherlands	10(j)	E	Proposal for draft corrigendum to Regulation No. 45 (Headlamp cleaners)	(b)
9.	Japan	4(f)	E	Proposed amendments to ECE/TRANS/GRE/2008/7 (Regulation No. 48)	(d)
10.	Japan	4(h)	E	Proposal for Corrigendum 1 to the 04 series of amendments to Regulation No. 48	(c)
11.	OICA	4(h)	E	Proposal for a draft corrigendum to the fourth series of amendments to Regulation No. 48	(c)
12.	Czech Republic - CLEPA	5(b)	E	Proposal for draft amendments to Regulations No. 3, 27, 69, 70, 104 and 48	()
13.	OICA	10(g)	E	Proposal for draft amendments to ECE/TRANS/WP.29/GRE/2008/22	(c)
14.	OICA	4(j)	E	Proposal for draft amendments to Regulation No. 48 - Requirements for conspicuity markings	(c)
15.	OICA	4(h)	E	Regulation No. 48 - Comments on the proposed Corrigendum 1 to the 04 series of amendments - Transitional Provisions	(c)
16.	Japan	11(c)	E	Proposal for draft amendments to Regulation No. 53 for headlamp corresponding to inclination	(a)
17.	Japan	11(c)	E	A study on motorcycle AFS visibility and glare	(c)

18.	OICA	4(j)	E	Regulation No 48 - Courtesy Lamp requirements - Proposal for draft amendments to ECE/TRANS/WP.29/GRE/2008/20	(c)
19.	GRE Chairman	7(b)	E	Australian document on "Motorcycle Conspicuity"	(c)
20.	GRE Chairman	10(f)	E	Japanese document on "Motorcycle Signature"	(c)
21.	GRE Chairman	5(c)	E	UMTRI report on "Phantom light"	(c)
22.	Canada	4(i)	E	Proposal for draft amendments to Regulation No. 48	(d)
23.	Japan	5(f)	E	Japanese comment on ECE/TRANS/WP.29/GRE/2008/3	(a)
24/ Rev.1	Japan	4(m)	E	Proposal for draft amendments to Regulation No. 48 - Presence of lamp	(d)
25.	OICA	4(j)	E	Regulation No. 48 - Replacement of light sources. Proposed amendments to document ECE/TRANS/WP.29/GRE/2008/21	(c)
26.	Italy	4(d)	E	Regulation No. 48 - Italian comments on document ECE/TRANS/WP.29/GRE/2008/8	(c)
27.	Republic of Korea	4(j)	E	Proposal for draft amendments to Regulation No. 48 - Bend lighting	(c)
28.	Germany	9	E	Regulation No. 123(AFS) - Proposal for draft corrigendum to ECE/TRANS/WP.29/GRE/2008/25	(c)
29.	Germany	6	E	Regulation No. 19 (front-fog lamps) - Proposal for draft corrigendum to the draft 03 series of amendments to Regulation No. 19	(d)
30.	Germany	10(l)	E	Regulation No. 7 (Front and rear position (side) lamps, stop lamps and end-outline marker lamps)-Proposal for Supplement 15 to the 02 series of amendments to Regulation No. 7	(d)
31.	Germany	6	E	Regulation No. 19 (front-fog lamps) - Proposal for draft amendments to Regulation No. 19	(d)
32.	Chairman of OVIG	4(b)	E	Status Report on the work of the Informal Group on Operating Voltage (OVIG)	(c)
33.	OICA/ CLEPA	10(c)	E	Regulation No 48 - Definition of a single lamp and retro-reflector	(d)

34.	OICA	4(d)	E	Regulation No 48 - Requirements for light-signalling lamps	(d)
35.	Canada	4(i)	E	Proposal for draft amendments to Regulation No. 48	(a)
36.	France	4(j)	E	Proposed amendments to ECE/TRANS/WP.29/GRE/2008/21	(c)
37.	France	5(g)	E	Complement to ECE/TRANS/WP.29/GRE/2008/15	(c)
38.	India	3(a)	E	India's comments on ECE Regulation No. 37	(b)
39.	India	4(j)	E	India's comments on new proposal for draft amendments to Regulation No. 48, ECE/TRANS/WP.29/GRE/2008/20	(c)
40.	India	5(g)	E	India's comments on new proposal for draft amendments to Regulation No. 48, ECE/TRANS/WP.29/GRE/2008/17	(a)
41.	India	4(k)	E	India's comments on new proposal for draft amendments to Regulation No. 48, ECE/TRANS/WP.29/GRE/2008/23	(c)
42.	India	3(a)	E	India's comments on ECE Regulation No. 37	(b)
43.	Secretariat	5(b)	E	Proposal for draft Corrigendum 1 to Supplement 1 to the series 04 of amendments to the Regulation No. 48 - (Installation of lights)	(d)

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
56-07	IMMA	11	E	Proposal for inclusion of high-intensity discharge (HID) headlamps in Regulation No. 113	(a)
56-22	Japan	4(g)	E	Japanese comments on paragraph 5.7. of Regulation No. 48 - (Reciprocally incorporated lamps of different colours)	(a)
57-09	India	2(a)	E	India's comments on proposed draft gtr	(a)
58-03	OICA			Proposal for draft amendments to Regulation No. 27	(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. 48

ADOPTED ON THE BASIS OF GRE-59-34

(see para. 10 of the report)

Paragraph 6.19.7., amend to read:

"6.19.7. Electrical connections

- 6.19.7.1. The daytime running lamps.....when the daytime running lamps are switched ON.
- 6.19.7.2. If the distance between the front direction-indicator lamp and the daytime running lamp is equal or less than 40 mm, the electrical connections of the daytime running lamp on the relevant side of the vehicle may be such that either
- (a) it is switched off or
 - (b) its luminous intensity is reduced during the entire period (both on and off cycle) of activation of a front direction-indicator lamp.
- 6.19.7.3. If a direction indicator lamp is reciprocally incorporated with a daytime running lamp, the electrical connections of the daytime running lamp on the relevant side of the vehicle shall be such that the daytime running lamp is switched off during the entire period (both on and off cycle) of activation of the direction-indicator lamp."

Insert a new paragraph 12.17., to read:

- "12.17. Paragraph 6.19.7.3. comes into force 30 months for vehicles of categories M₁ and N₁ and 48 months for vehicles of other categories after the date of entry into force of the 04 series of amendments."

AMENDMENTS ADOPTED TO ECE/TRANS/WP.29/GRE/2008/7

(see para. 11 of the report)

Insert a new paragraph 5.7.1.1., to read:

- "5.7.1.1. The photometric and

.....are switched ON, ~~except in the case where provisions of paragraph 5.11.2. are fulfilled.~~"

Paragraph 5.7.1.1. (former), renumber as paragraph 5.7.1.2. and amend to read:

"5.7.1.2. Stop lamps and direction indicator lamps are not permitted to be reciprocally incorporated. Where stop lamps and direction indicator lamps, are combined or grouped, any horizontal....."

.....

Paragraph 5.11., amend to read:

"

5.11.2. ~~However, when front or rear position lamps are reciprocally incorporated with another lamp/function, the respective front or rear position lamp may be switched OFF and substituted by another lamp/function within the common lamp body during the entire period of activation of the substituting lamp/function on the relevant side of the vehicle, provided that the substituting lamp/function meets the following requirements:~~

~~(a) geometric visibility of the respective position lamp; and~~

~~(b) minimum photometric values according to the angles of light distribution of the respective position lamp."~~

.....

AMENDMENTS ADOPTED TO ECE/TRANS/WP.29/GRE/2008/18

(see para. 15 of the report)

Paragraph 12., amend to read:

"

12.9. Notwithstanding **the provisions of** paragraph 12.7. or 12.8. **above**, approvals of ~~the~~ vehicle types to the preceding series of amendments to the Regulation which are not affected by the 03 series of amendments shall remain valid and Contracting Parties applying the Regulation shall continue to accept them.

.....

12.14. ~~ECE~~ Approvals granted

12.15. No Contracting Party applying this Regulation shall refuse national **or regional** type approval of a vehicle type approved to the 04 series of amendments to this Regulation.

12.16. Notwithstanding the transitional provisions above, Contracting Parties whose application of Regulation No.112 comes into force after the date of entry into

force of the 04 series of amendments to this Regulation are not obliged to accept approvals if the vehicle type to be approved does not meet the requirements of paragraphs 6.1.2. and 6.2.2. as amended by the 04 series of amendments to this Regulation with regard to Regulation No. 112."

ADOPTED ON THE BASIS OF GRE-59-22

(see para. 17 of the report)

Paragraph 6.19.7.1., amend to read:

"6.19.7.1. Electrical connections

The daytime running lamps shall be switched ON automatically when the device which starts and/or stops the engine is in a position which makes it possible for the engine to operate. However, daytime running lamps may remain off while the automatic transmission control is in the park or neutral position, while the parking brake is applied or after the propulsion system is activated but the vehicle was not set in motion for the first time.

The daytime running lamps shall switch OFF automatically when the front fog lamps or headlamps are switched ON, except when the latter are used to give intermittent luminous warnings at short intervals. 11/

Furthermore, the lamps referred to in paragraph 5.11. are not switched on when the daytime running lamps are switched ON."

AMENDMENTS ADOPTED TO ECE/TRANS/WP.29/GRE/2008/20

(see para. 18 of the report)

Insert a new paragraph 2.7.29., to read:

"2.7.29. **"Exterior Courtesy lamp"** means a lamp used to provide supplementary illumination ~~of the road~~ to assist the entry and exit of the vehicle driver and passenger **or in loading operations;**"

Paragraphs 5.10. to 5.10.2., amend to read:

"5.10. No red light **which could give rise to confusion** shall be emitted from a lamp as defined in paragraph 2.7. in a forward direction and no white light **which could give rise to confusion**, shall be emitted from a lamp as defined in paragraph 2.7. in a rearward direction. No account shall be taken of lighting devices fitted for the interior lighting of the vehicle. In case of doubt, this requirement shall be verified as follows:
....."

Paragraph 5.15., amend to read (inserting a new entry at the end):

"5.15. The colours of the light emitted by the lamps are the following:

.....

adaptive front-lighting systems (AFS): white.

Exterior courtesy lamp : white."

.....

6.24.9. Other requirements

The exterior courtesy lamp shall not be activated unless the vehicle is stationary and one or more of the following conditions is satisfied:

(a) the engine is stopped or

(b) a driver or passenger door is opened or

(c) a load compartment door is opened.

The provisions of paragraph 5.10. shall be met in all fixed ~~and transitional~~ positions of use."

AMENDMENTS ADOPTED TO ECE/TRANS/WP.29/GRE/2008/21

(see para. 19 of the report)

Paragraphs 5.23., amend to read:

"5.23. Lamps shall be fitted in a vehicle in such a way that the light source can be ~~simply and~~ correctly replaced by the driver at the roadside without the need for special tools, other than those provided with the vehicle by the manufacturer. The vehicle manufacturer shall provide with the vehicle a detailed description of the procedure for replacement. This paragraph is not applicable to:

....."

ADOPTED ON THE BASIS OF GRE-59-24/Rev.1

(see para. 25 of the report)

Paragraph 5.22., amend to read:

"5.22. With the exception of retro-reflectors, a lamp even bearing an approval mark is deemed not to be present when it cannot be made to operate by the sole installation of a light source **and/or a fuse "**

ADOPTED ON THE BASIS OF GRE-59-43
(see para. 29 of the report)

Paragraph 2.28.3., amend to read:

"2.28.3. "Amber" means

.....

with intersection points:

	x	y
A ₁ :	0.545	0.425
A ₂ :	0.560	0.440
A ₃ :	0.609	0.390
A ₄ :	0.597	0.390

"

ADOPTED ON THE BASIS OF GRE-59-33
(see para. 45 of the report)

Paragraph 5.7.2.1., amend to read:

"5.7.2.1. Either the total area of the projection of the distinct parts on a plane tangent to the exterior surface of the transparent material and perpendicular to the reference axis shall occupy not less than 60 per cent of the smallest quadrilateral circumscribing the said projection, or the distance between two adjacent/tangential distinct parts shall not exceed 15 mm when measured perpendicularly to the reference axis
This requirement shall not apply to a retro-reflector."

Annex III

AMENDMENTS TO REGULATION No. 19

ADOPTED ON THE BASIS OF GRE-59-29

(see para. 35 of the report)

Insert a new paragraph 14.1.3., to read:

"14.1.3. As from 36 months after the date of entry into force of the 03 series of amendments, Contracting Parties applying this Regulation shall grant approvals for a new type of front fog lamp only if front fog lamps meet the requirements of Class F3 of this Regulation as amended by to the 03 series of amendments."

Paragraphs 14.1.3 to 14.1.4.2. (former), renumber as paragraphs 14.1.4. to 14.1.5.2.

Insert new paragraphs 14.1.6. to 14.1.6.1., to read:

"14.1.6. As from 60 month after the date of entry into force of the 03 series of amendments, Contracting Parties applying this Regulation shall refuse to grant any extensions of approvals if the front fog lamps do not meet the requirements of Class F3 of this Regulation as amended by the 03 series of amendments.

14.1.6.1. Contracting Parties applying this Regulation shall continue to issue approvals for front fog lamps on the basis of the 03 series and the 02 series of amendments to this Regulation, provided that the fog lamps are intended as replacements for fitting to vehicles in use."

ADOPTED ON THE BASIS OF GRE-59-31
(see para. 35 of the report)

Paragraph 6.4.3., amend to read.

"6.4.3. When so adjusted, the front fog lamp shall meet the photometric requirements of column I or column II in the table below:

Designated Lines or Zones	Vertical position * above h+ below h-	Horizontal position * Left of v: - Right of v: +	Luminous Intensity in cd		To Comply
			I	II	
Point 1, 2(**) Point 3, 4(**) Point 5, 6(**) Point 7, 10(**) Point 8, 9(**)	+60° +40° +30° +20° +20°	± 45° ± 30 ± 60 ± 40 ± 15	60* cd max	90* cd max	all points
Line 1**	+ 8°	- 26° to + 26°	80* cd max	120* cd max	all line
Line 2**	+ 4°	- 26° to + 26°	100* cd max	150* cd max	all line
Line 3	+ 2°	- 26° to + 26°	160*cd max	160*cd max	all line
Line 4	+ 1°	- 26° to + 26°	240*cd max	240*cd max	all line
Line 5	0°	- 10° to + 10°	320*-cd max	320*-cd max	all line
Line 6***	- 2.5°	- 10° to + 10°	2 400 cd min	2 400 cd min	all line
Line 7***	- 6.0°	- 10° to + 10°	<50% of max. on line 6	<50% of max. on line 6	all line
Line 8L and R ***	-1.5° to - 3.5°	- 22° and + 22°	1000 cd min	1000 cd min	One or more points
Line 9Land R ***	-1.5° to - 4.5°	- 35° and + 35°	400 cd min	400 cd min	One or more points
Zone D ***	- 1° to - 3 °	- 10° to + 10°	8000cd max	8000cd < I _{max} ≤ 12500cd	whole zone
* The co-ordinates are specified in degrees for an angular web with a vertical polar axis. ** see paragraph 6.4.3.1. *** see paragraph 6.4.3.2.					

Paragraph 6.43.2., amend to read:

"6.4.3.2. At the request of the applicant, two front fog lamps constituting a matched pair corresponding to paragraph 4.2.2.5. may be tested separately. In this case the specified requirements for lines 6, 7, 8 ,9 and the Zone D in the table in paragraph 6.4.3. apply to half the sum of readings of the right-hand and left-hand side front fog lamp."

Annex IV

AMENDMENTS TO REGULATION No. 53

AMENDMENTS ADOPTED TO ECE/TRANS/WP.29/GRE/2006/46/Rev.1

(see para. 40 of the report)

Insert new paragraphs 2.21. to 2.25., to read:

"

~~2.23. "Mass in running order" means the sum of the unladen vehicle mass and rider mass.~~

~~2.24. "Rider mass" means the nominal mass of a driver that shall be 75 kg (subdivided into 68 kg occupant mass at the seat and 7 kg luggage mass).~~

~~2.25. "Unladen vehicle mass" means the nominal mass of the vehicle as indicated by the manufacturer(s) including all factory fitted equipment for normal operation of that vehicle (e.g. fire extinguisher, tools, spare wheel), plus coolant, oils, 90 per cent of fuel and 100 per cent of other gas or liquids, as specified by the manufacturer."~~

.....

Insert a new paragraph 6.2.5.4., to read:

"6.2.5.4. The requirement in paragraph 6.2.5.3. shall be tested **on the vehicle** in the following conditions:

.....

Condition B (fully laden motorcycle):

....manufacturer for this loading condition.

Before making the measurements, the vehicle shall be rocked 3 times backwards and forwards."

.....

Paragraphs 11.1. to 11.4., amend to read:

"11.1. Subject to paragraph 11.4, as from the official date of entry into force of [Supplement 10] this Regulation as amended by [Supplement 10] to the 01 series of amendments.

11.2.of the [Supplement 10] to the 01 series of amendments to this Regulation.

11.3.of the [Supplement 10] to the 01 series of amendments to this Regulation.

11.4. The provisions of paragraphs 6.2.5.3 and 6.2.5.4 shall come into force as from 60 months after the date of entry into force of [Supplement 10] to the 01 series of amendments.

....."

Annex V

AMENDMENTS TO REGULATION No. 123

AMENDMENTS ADOPTED TO ECE/TRANS/WP.29/GRE/2008/25

(see para. 41 of the report)

.....

Annex 11, paragraphs 4.3.1. to 4.3.1.5., amend to read:

"4.3.1. Illuminance

- 4.3.1.1. For each existing class of passing beam and for the driving beam a photometric measurement shall be carried out after one minute of operation of the respective lighting units and for the following test points:**

Passing beam:	50V
Driving beam:	HV

- 4.3.1.2. Operation of the lighting units mentioned in paragraph 4.3.1.1. above shall then be continued until photometric stability has occurred; this condition is considered to be fulfilled if the variation of the illuminance for the test points indicated in paragraph 4.3.1.1. above is less than 3 per cent within any 15 minute period. After photometric stability has occurred, aiming for complete photometry shall be performed and the photometric values at all required test points shall be determined.**

- 4.3.1.3. The ratio between the photometric values measured after one minute of operation and those measured after photometric stability has occurred shall be calculated for the test points indicated in paragraph 4.3.1.1. above. This ratio shall then be applied to all other applicable test points to determine their photometric values after one minute of operation.**

- 4.3.1.4. The illuminance values determined after one minute of operation and after occurrence of photometric stability shall comply with applicable photometric requirements."**

4.3.2. Colour

.....

Annex VI

AMENDMENTS TO REGULATIONS Nos. 48, 98 and 112

AMENDMENTS ADOPTED TO ECE/TRANS/WP.29/GRE/2008/22

(see para. 49 of the report)

.....

Insert a new paragraph 5.2.1., to read:

"5.2.1. In the case of headlamps fitted with measures to prevent discomfort to other road-users in a country where traffic operates on the side of the road opposite to that of the country for which the headlamp was designed, such measures shall be achieved ~~using a simple procedure~~ by the vehicle user with the vehicle in the parked condition without the need for special tools (other than those provided with the vehicle 4/). **Detailed instructions shall be provided by the vehicle manufacturer with the vehicle.**

4/ This does not apply to dedicated objects that may be added to the exterior of the headlamp."

Insert a new paragraph 12.18., to read:

"12.18. Contracting Parties applying this regulation shall continue to grant approvals to vehicle types which do not meet the requirements of Supplement 2 to the 04 Series of amendments, if they are fitted with headlamps approved to Regulation No. 98 (prior to Supplement 9) or Regulation 112 (prior to Supplement 8)."

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

Paragraph 0., amend to read:

"0. SCOPE 1/

.....

.....of categories, M, N and L₃."

.....

Annex VII

AMENDMENTS TO REGULATION No. 65

ADOPTED ON THE BASIS OF GRE-59-05
(see para. 51 of the report)

Paragraph 1.1., amend to read:

"1.1. "special warning lamp" means a lamp emitting blue, red or amber light intermittently for use on vehicles. */

*/ Nothing in this regulation shall preclude the national authorities to prohibit the use of special warning lamps emitting red light intermittently for use on vehicles as defined in paragraph 2.1. of this Regulation."

Annex VIII

AMENDMENTS TO REGULATION No. 7

ADOPTED ON THE BASIS OF GRE-59-30

(see para. 53 of the report)

Paragraph 6.1., the table, delete the reference to footnote 4/ and footnote 4/

Insert new paragraphs 6.2. to 6.5., to read:

- "6.2. For an assembly of two or more lamps the total intensity shall not exceed the maximum value prescribed for a single lamp, multiplied by 1.4.
- 6.3. When an assembly of two or more lamps is deemed to be a single lamp it shall comply with the requirements for:
 - (a) maximum intensity;
 - (b) minimum intensity if one lamp has failed.
- 6.4. In case of failure of a single lamp the following provisions shall apply:
 - 6.4.1. A group of light sources, wired so that the failure of any one of them causes all of them to stop emitting light, shall be considered to be one light source.
 - 6.4.2. The lamp shall comply with the minimum intensity required when any one light source has failed. However, for lamps designed for only two light sources, 50 per cent of the minimum intensity in the axis of reference of the lamp shall be considered sufficient, provided that a note in the communication form states that the lamp is only for use on a vehicle fitted with an operating tell-tale which indicates when any one of these two light sources has failed;
- 6.5. When all light sources are illuminated the maximum intensity specified for a single lamp may be exceeded provided that the single lamp is not marked "D" and the maximum intensity specified for an assembly of two or more lamps is not exceeded."

Paragraphs 6.2. to 6.6. (former), renumber as paragraphs 6.7. to 6.11.

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