



**Economic and Social
Council**

Distr.
GENERAL

ECE/TRANS/WP.29/GRE/57
6 July 2007

Original: ENGLISH

ECONOMIC COMMISSION FOR EUROPE

INLAND TRANSPORT COMMITTEE

World Forum for Harmonization of Vehicle Regulations

Working Party on Lighting and Light-Signalling

**REPORT OF THE WORKING PARTY ON LIGHTING AND LIGHT-SIGNALLING
ON ITS FIFTY-SEVENTH SESSION
(Geneva, 26 – 30 March 2007)**

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I. ATTENDANCE

1. The Working Party on Lighting and Light-Signalling (GRE) held its fifty-seventh session from 26 to 30 March 2007 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; Czech Republic; Finland; France; Germany; Hungary; India; Italy; Japan; Luxembourg; Netherlands; Norway; Poland; Republic of Korea; Republic of South Africa; Russian Federation; Spain; Sweden; Ukraine; United Kingdom; United States of America. An expert from the European Commission (EC) participated. Experts from the following non-governmental organizations also participated: American Motorcyclist Association (AMA); International Organization of Motor Vehicle Manufacturers (OICA); European Association of Automobile Suppliers (CLEPA); Federation of European Motorcyclists' Associations (FEMA); International Electrotechnical Commission (IEC); International Motorcycle Manufacturers Association (IMMA). Upon the special invitation of the Chairman, the experts from the Comité de Liaison des Constructeurs de Carosseries et Remorques (CLCCR) and the Working Party "Brussels 1952" (GTB) participated.

II. DEVELOPMENT OF NEW GLOBAL TECHNICAL REGULATIONS (gtrs)

A. A gtr on installation of lighting and light-signalling devices (Agenda item 1.1)

Documentation: ECE/TRANS/WP.29/GRE/2006/49; Informal document No. GRE-57-9 of Annex I to this report

2. GRE was informed about the decision by the Executive Committee (AC.3) of the 1998 Agreement that the informal group had been dissolved as no common agreement could be found on the draft gtr (ECE/TRANS/WP.29/GRE/2006/49). GRE noted that AC.3 would continue to exchange views on the possible development of that gtr (ECE/TRANS/WP.29/1056, para. 96.). GRE also noted India's comments (GRE-57-9) on the draft gtr and agreed to remove this subject from the agenda.

3. GRE welcomed the offer by the expert from the Netherlands to save at least the work on which a consensus had been found and to prepare a new proposal on harmonized requirements for installation of lighting and light-signalling devices (Regulation No. 48-H) under the 1958 Agreement.

B. Development of further gtrs (Agenda item 1.2)

4. The Chairman invited GRE experts to reflect on the possibilities to develop further gtrs in the area of lighting and light-signalling, such as harmonized passing beam pattern for headlamps, front fog lamps, Adaptive Front-Lighting Systems (AFS) and installation of lighting and light-signalling devices on motorcycles.

III. 1958 AGREEMENT: AMENDMENTS TO EXISTING UNECE REGULATIONS

A. Regulation No. 10 (Electromagnetic compatibility) (Agenda item 2)

Documentation: ECE/TRANS/WP.29/GRE/2006/51 and Amend.1

5. The expert from Germany introduced ECE/TRANS/WP.29/GRE/2006/51/Amend.1 suggesting the deletion of self-certification provisions from ECE/TRANS/WP.29/GRE/2006/51. He stated that these provisions were derived from the European Union (EU) Directive 2004/104/EC and were aimed at avoiding the double testing of aftermarket equipment within the EU. He concluded that such requirements were superfluous in Regulation No. 10 since double testing of those components was not possible under the 1958 Agreement.

6. As no agreement could be found on the deletion of paragraph 3.2.9. and Annex 3C of ECE/TRANS/WP.29/GRE/2006/51, GRE agreed to keep the corresponding text in square brackets and to leave the final decision to WP.29. The experts from France, India and OICA requested to extend the transitional period from 36 to 60 months. GRE adopted ECE/TRANS/WP.29/GRE/2006/51, as amended by Annex II to this report, and requested the secretariat to submit the amended proposal to WP.29 and AC.1, for consideration at their November 2007 sessions, as draft 03 series of amendments to Regulation No. 10.

B. Regulation No. 37 (Filament lamps) (Agenda item 3)

1. Editorial corrections (Agenda item 3.1)

Documentation: ECE/TRANS/WP.29/GRE/2006/34

7. GRE adopted ECE/TRANS/WP.29/GRE/2006/34, not amended. The secretariat was requested to submit it to WP.29 and AC.1, for consideration at their June 2007 sessions, as draft Corrigendum 1 to Supplement 25 to the 03 series of amendments to Regulation No. 37.

2. Provisions for new filament lamp categories (Agenda item 3.2)

Documentation: ECE/TRANS/WP.29/GRE/2006/35; ECE/TRANS/WP.29/GRE/2007/13; ECE/TRANS/WP.29/GRE/2007/14; Informal document No. GRE-57-3 of Annex I to this report

8. Regarding the introduction of new filament light source categories H15 and HS6, GRE considered ECE/TRANS/WP.29/GRE/2006/35 and ECE/TRANS/WP.29/GRE/2007/13 taking into account the corrections proposed in GRE-57-3. GRE noted that contact designations in the lamp of category H15 were indicated to ensure the correct wiring inside the light source and that in future those lamps could also be used for other functions. GRE adopted ECE/TRANS/WP.29/GRE/2006/35, as amended below, and requested the secretariat to submit the proposal to WP.29 and AC.1, for consideration at their June 2007 sessions, as draft Supplement 29 to the 03 series of amendments to Regulation No. 37.

Page 3, sheet H15/1, figure 3, for diameter "Ø 30.0" read "Ø 31.5".

9. GRE also adopted ECE/TRANS/WP.29/GRE/2007/13, as amended below, and requested the secretariat to submit the amended proposal to WP.29 and AC.1, for consideration at their November 2007 sessions, as draft Supplement 30 to the 03 series of amendments to Regulation No. 37.

Page 3, sheet HS6/1, figure 1, correct to read:

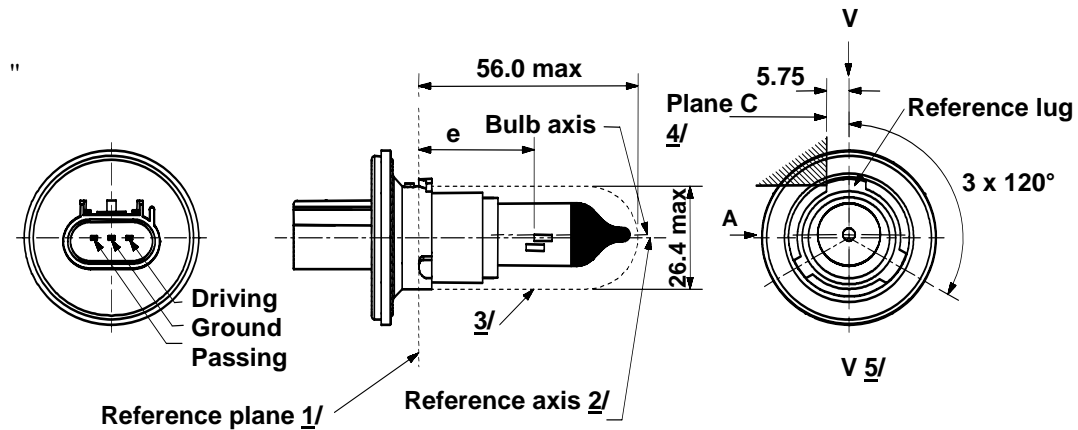


Figure 1 - Main drawings"

10. GRE considered and adopted ECE/TRANS/WP.29/GRE/2007/14, not amended. The secretariat was requested to submit it to WP.29 and AC.1, for consideration at their November 2007 sessions, as a part (see para. 9.) of draft Supplement 30 to the 03 series of amendments to Regulation No. 37.

3. Values for a reference luminous flux (Agenda item 3.3)

Documentation: ECE/TRANS/WP.29/GRE/2006/36

11. GRE considered and adopted ECE/TRANS/WP.29/GRE/2006/36, not amended. The secretariat was requested to submit it to WP.29 and AC.1, for consideration at their November 2007 sessions, as a part (see paras. 9. and 10.) of draft Supplement 30 to the 03 series of amendments to Regulation No. 37.

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

1. Automatic activation of the hazard warning signal (Agenda item 4.1)

Documentation: ECE/TRANS/WP.29/GRE/2006/57; ECE/TRANS/WP.29/GRE/2007/2

12. The expert from Japan withdrew ECE/TRANS/WP.29/GRE/2006/57 and volunteered to prepare a new proposal for consideration at the next GRE session in October 2007.

13. The expert from Germany introduced ECE/TRANS/WP.29/GRE/2007/2 proposing allowance of additional lamps for the hazard warning signal. The expert from CLEPA supported the proposal. However, the experts from France, Italy, the Netherlands and the EC opposed the proposal. GRE agreed to remove the document from the agenda.

2. Operating voltage for lighting and light-signalling devices
(Agenda item 4.2)

Documentation: ECE/TRANS/WP.29/GRE/2007/3; Informal document No. GRE-57-7 of Annex I to this report

14. The Chairman informed GRE about the consent of WP.29 to establish the informal group on operating voltage issues (OVIG) for lighting and light-signalling devices (ECE/TRANS/WP.29/1052, para. 27.). Referring to GRE-57-7, the expert from Germany reported about the results of the preparatory meeting of OVIG. GRE elected Mr. K. Manz (Germany) as Chairman of the informal group. Mr. O. Fontaine (OICA) volunteered to take over the function as Secretary of the group.

15. Mr. Manz introduced ECE/TRANS/WP.29/GRE/2007/3 proposing the terms of reference and the rules of procedure for the informal group. GRE adopted the document, as reproduced in ECE/TRANS/WP.29/GRE/2007/3/Rev.1.

3. Activation of the stop lamps by endurance brakes (Agenda item 4.3)

Documentation: Informal document No. GRE-57-8 of Annex I to this report

16. GRE noted that the Working Party on Brakes and Running Gear (GRRF) had agreed in principle on the requirements for the generation of a signal for the stop lamp activation in vehicles equipped with endurance brakes (GRE-57-8). GRE was of the opinion that the duration of the relevant signal should be equal to the time of endurance brake activation or 4 seconds, whichever is less. GRE invited the expert from Germany to prepare a proposal for amendments to Regulation No. 13, for consideration at the next GRRF session in September 2007.

4. Requirements for light-signalling lamps (Agenda item 4.4)

Documentation: ECE/TRANS/WP.29/GRE/2006/8; ECE/TRANS/WP.29/GRE/2007/21; ECE/TRANS/WP.29/GRE/2007/22; ECE/TRANS/WP.29/GRE/2007/31

17. In order to clarify the installation provisions for side direction-indicators, GRE considered ECE/TRANS/WP.29/GRE/2006/8 and, as an alternative proposal, ECE/TRANS/WP.29/GRE/2007/31. GRE rejected ECE/TRANS/WP.29/GRE/2007/31 and adopted ECE/TRANS/WP.29/GRE/2006/8, not amended. The secretariat was requested to submit the proposal to WP.29 and AC.1, for consideration at their November 2007 sessions, as draft Supplement 4 to the 03 series of amendments to Regulation No. 48.

18. GRE considered ECE/TRANS/WP.29/GRE/2007/21 the conspicuity of front direction-indicator lamps located close to daytime running lamps (DRL). The experts from Germany, France and CLEPA urged for a quick adoption of the proposal. However, a number of delegates preferred to insert into the document appropriate transitional provisions. GRE invited the experts from GTB and OICA to prepare a revised proposal, for consideration at the next session.

19. GRE considered ECE/TRANS/WP.29/GRE/2007/22 proposing to reduce the minimal installation height of certain lamps for low floor semi-trailers. The experts from the Netherlands and the United Kingdom expressed concerns about lowering the existing safety level. Following the discussion, GRE invited the experts from Japan and CLCCR to jointly prepare a new proposal for consideration at the next session, taking into account the concerns addressed.

5. Requirements for fog lamps (Agenda item 4.5)

Documentation: ECE/TRANS/WP.29/GRE/2006/18; ECE/TRANS/WP.29/GRE/2007/28; ECE/TRANS/WP.29/GRE/2007/32; Informal document No. GRE-57-4 of Annex I to this report

20. GRE considered and adopted ECE/TRANS/WP.29/GRE/2007/28, not amended. The secretariat was requested to submit it to WP.29 and AC.1, for consideration at their November 2007 sessions, as a part (see para. 17.) of draft Supplement 4 to the 03 series of amendments to Regulation No. 48.

21. Taking into account the comments of GRE-57-4, GRE also considered ECE/TRANS/WP.29/GRE/2006/18 and ECE/TRANS/WP.29/GRE/2007/32. GRE adopted ECE/TRANS/WP.29/GRE/2006/18, as amended by Annex III to this report. The secretariat was requested to submit the proposal to WP.29 and AC.1, for consideration at their November 2007 sessions, as a part (see paras. 17. and 20.) of draft Supplement 4 to the 03 series of amendments to Regulation No. 48.

6. Provisions for the installation of end-outline marker lamps (Agenda item 4.6)

Documentation: ECE/TRANS/WP.29/GRE/2006/20; ECE/TRANS/WP.29/GRE/2006/22; ECE/TRANS/WP.29/GRE/2007/23; ECE/TRANS/WP.29/GRE/2007/33; Informal document No. GRE-57-10 of Annex I to this report

22. GRE had an exchange of views on ECE/TRANS/WP.29/GRE/2007/23 regarding the geometric visibility of end-outline marker lamps. The proposal did not receive an agreement.

23. Taking into account GRE-57-10, GRE considered ECE/TRANS/WP.29/GRE/2007/33 superseding ECE/TRANS/WP.29/GRE/2006/20 and ECE/TRANS/WP.29/GRE/2006/22. GRE adopted ECE/TRANS/WP.29/GRE/2007/33, as reproduced in Annex III to this report. The secretariat was requested to submit the proposal to WP.29 and AC.1, for consideration at their November 2007 sessions, as a part (see paras. 17., 20. and 21.) of draft Supplement 4 to the 03 series of amendments to Regulation No. 48.

7. Definitions (Agenda item 4.7)

Documentation: ECE/TRANS/WP.29/GRE/2006/37; ECE/TRANS/WP.29/GRE/2007/30; ECE/TRANS/WP.29/GRE/2007/36

24. GRE considered and adopted ECE/TRANS/WP.29/GRE/2006/37 and ECE/TRANS/WP.29/GRE/2007/36, both not amended. The secretariat was requested to submit the proposals to WP.29 and AC.1, for consideration at their November 2007 sessions, as a part (see paras. 17., 20., 21. and 23.) of draft Supplement 4 to the 03 series of amendments to Regulation No. 48. The expert from Italy questioned the need to exempt devices for indirect vision from the determination of the total length of vehicles and volunteered to prepare a concrete proposal for consideration at the next GRE session.

25. GRE adopted ECE/TRANS/WP.29/GRE/2007/30, as reproduced in Annex III to this report, and requested the secretariat to submit the proposal to WP.29 and AC.1, for consideration at their November 2007 sessions, as a part (see paras. 17., 20., 21., 23. and 24.) of draft Supplement 4 to the 03 series of amendments to Regulation No. 48.

8. Interpretation of paragraph 5.7. of the Regulation (Agenda item 4.8)

Documentation: Informal document No. GRE-56-22 of Annex I to this report

26. GRE considered GRE-56-22, tabled by Japan, raising the need to clarify admissible colour combinations in reciprocally incorporated lamps. The experts from the Netherlands and CLEPA underlined the urgency to amend the definition of reciprocally incorporated lamps. The expert from GTB informed GRE that the GTB Working Group on Photometry was addressing this issue. He volunteered to prepare a concrete proposal for consideration at the next session. GRE agreed to keep GRE-56-22 on its agenda.

9. Electrical connection provisions for cornering lamps (Agenda item 4.9)

Documentation: ECE/TRANS/WP.29/GRE/2006/38; Informal document No. GRE-57-5 of Annex I to this report

27. The expert from the Czech Republic presented ECE/TRANS/WP.29/GRE/2006/38 proposing the insertion of operating conditions for the cornering lamps during rearward drive. Taking into account GRE-57-5, GRE adopted the proposal, 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 2007 sessions, as a part (see paras. 17., 20., 21., 23., 24. and 25.) of draft Supplement 4 to the 03 series of amendments to Regulation No. 48.

10. Colour of the rearmost side retro-reflector (Agenda item 4.10)

Documentation: ECE/TRANS/WP.29/GRE/2006/52

28. GRE considered and adopted ECE/TRANS/WP.29/GRE/2006/52, not amended. The secretariat was requested to submit it to WP.29 and AC.1, for consideration at their November 2007 sessions, as a part (see paras. 17., 20., 21., 23., 24., 25. and 27.) of draft Supplement 4 to the 03 series of amendments to Regulation No. 48.

11. Presence of lamp (Agenda item 4.11)

Documentation: ECE/TRANS/WP.29/GRE/2007/4

29. The expert from Italy introduced ECE/TRANS/WP.29/GRE/2007/4 proposing to update the conditions for determining the presence of a lamp. The document received some comments. The expert from Italy volunteered to prepare a revised proposal for consideration at the next session.

12. Proposal for a draft corrigendum (Agenda item 4.12)

Documentation: ECE/TRANS/WP.29/GRE/2007/5

30. GRE considered and adopted ECE/TRANS/WP.29/GRE/2007/5 regarding the automatic deactivation of DRL when the front fog lamps are activated. The secretariat was requested to submit the proposal to WP.29 and AC.1, for consideration at their November 2007 sessions, as a part (see paras. 17., 20., 21., 23., 24., 25., 27. and 28.) of draft Supplement 4 to the 03 series of amendments to Regulation No. 48.

13. Proposals for the 04 series of amendments (Agenda item 4.13)

Documentation: ECE/TRANS/WP.29/2006/88; ECE/TRANS/WP.29/2007/15;
ECE/TRANS/WP.29/2007/20; ECE/TRANS/WP.29/GRE/2007/35;
ECE/TRANS/WP.29/GRE/2007/37; Informal documents Nos. GRE-57-17, GRE-57-19,
GRE-57-20, GRE-57-21 and GRE-57-22 of Annex I to this report

31. The Chairman informed GRE that WP.29 would consider the GRE proposal for the 04 series of amendments (ECE/TRANS/WP.29/2006/88) at its November 2007 session. GRE noted with concerns that the European Community had submitted directly to WP.29 a new proposal (ECE/TRANS/WP.29/2007/20) aimed at superseding the GRE proposal and including provisions for the mandatory automatic switching of dipped-beam headlamps in combination with automatic activation of DRL. GRE also noted that the text of footnote 8/ in paragraph 6.19. of the new proposal was identical to that proposed by Japan in ECE/TRANS/WP.29/2007/15.

32. GRE proceeded with the consideration of GRE-57-17, GRE-57-20 and GRE-57-21, commenting the provisions of ECE/TRANS/WP.29/2007/20. The expert from OICA stated that it would not be possible to fulfil the requirements of ECE/TRANS/WP.29/2007/20 since (due to the windscreen configuration) the sensor technology for an automatic switching of the dipped-

beam headlamps was not available for trucks and buses (coaches). He added that the existing systems were still under development at the present time and a proper functioning in all ambient conditions, e.g. daytime fog, could not be ensured. GRE agreed in principle with GRE-57-22, tabled by OICA, for the dipped-beam headlamp switching conditions. GRE requested the experts from the EC and OICA to further develop this proposal and to submit a further proposal to WP.29 and AC.1, as an alternative to ECE/TRANS/WP.29/2007/20, for consideration at their November 2007 sessions, subject to a final review in the next GRE session in October 2007.

33. GRE considered GRE-57-19, superseding ECE/TRANS/WP.29/GRE/2007/35, permitting the deactivation of automatic DRLs. GRE adopted the proposal, as reproduced in Annex III to this report. The secretariat was requested to submit the proposal to WP.29 and AC.1, as a complementary proposal to the proposal prepared by the EC and OICA (see para. 32. above), for consideration at their November 2007 sessions.

34. GRE recalled that ECE/TRANS/WP.29/2007/20 also contained a proposal to remove Class A headlamps. In order to facilitate the consideration of that proposal at WP.29, GRE agreed on the need to separate those requirements from the remaining part the document. For that purpose, the secretariat was invited to submit a new proposal, based on ECE/TRANS/WP.29/2007/20 without paragraphs 2.7.25., 6.2.7., 6.19. (including footnote 8/), 6.19.1. and 6.19.7., to WP.29 and AC.1, for consideration at their November 2007 sessions, as a separate proposal for the 04 series of amendments.

35. GRE had an exchange of views on ECE/TRANS/WP.29/GRE/2007/37, but the proposal did not receive the support of GRE.

14. Conspicuity markings (Agenda item 4.14)

Documentation: ECE/TRANS/WP.29/GRE/2007/24

36. Regarding the visibility of white light towards the rear of a vehicle, GRE considered and adopted ECE/TRANS/WP.29/GRE/2007/24, as reproduced in Annex III to this report. The secretariat was requested to submit the proposal to WP.29 and AC.1, for consideration at their November 2007 sessions, as a part (see paras. 17., 20., 21., 23., 24., 25., 27., 28. and 30.) of draft Supplement 4 to the 03 series of amendments to Regulation No. 48.

15. Requirements for headlamps (Agenda item 4.15)

Documentation: ECE/TRANS/WP.29/GRE/2007/25

37. GRE considered ECE/TRANS/WP.29/GRE/2007/25 aiming at reducing the glare of HID headlamps. However, the proposal did not receive the support of GRE.

D. Collective amendments (Agenda item 5)

1. Simplification of the approval markings (Agenda item 5.1)

38. GRE was informed that, at the March 2007 session of WP.29, the representative of Germany had given a presentation, on the European Type Approval Exchange System (ETAES) that could serve as a basis for the development of the electronic database for type approval exchange of information (DETA) in the framework of the 1958 Agreement. GRE welcomed that initiative and noted that WP.29 would resume its consideration of this issue in June 2007.

2. Collective amendments on colour specifications (Agenda item 5.2)

Documentation: ECE/TRANS/WP.29/GRE/2006/25; Informal document No. GRE-57-12 of Annex I to this report

39. GRE considered ECE/TRANS/WP.29/GRE/2006/25 on colour specification requirements, taking into account the comments by India (GRE-57-12). The expert from OICA was of the opinion that Regulation No. 48 should not contain colour specifications (definitions). Following the discussion, GRE invited the experts from the United Kingdom and OICA to jointly prepare an updated proposal for consideration at the next session.

3. Phantom light and colour washout phenomena in signalling and marking devices (Agenda item 5.3)

40. The Chairman of the GTB Working Group on Photometry informed GRE about the ongoing tests on colour washout phenomena. He invited GRE experts to send him information regarding the possible danger of phantom lighting effects. He announced his intention to provide for the next GRE session detailed information on the development of an appropriate test procedure.

4. Regulations Nos. 69, 70 and 104 (Agenda item 5.4)

Documentation: ECE/TRANS/WP.29/GRE/2006/39; ECE/TRANS/WP.29/GRE/2006/40; Informal documents Nos. GRE-57-15 and GRE-57-16 of Annex I to this report

41. The expert from CLEPA withdrew GRE-57-15 and GRE-57-16 and, with the agreement of the expert from India, volunteered to prepare, for consideration at the next GRE session, new proposals aligning the proposed amendments to Regulations Nos. 69 (ECE/TRANS/WP.29/GRE/2006/39) and 70 (ECE/TRANS/WP.29/GRE/2006/40) with the current provisions of Regulation No. 104.

5. Regulations Nos. 19 and 37 (Agenda item 5.5)

Documentation: ECE/TRANS/WP.29/GRE/2007/6; ECE/TRANS/WP.29/GRE/2007/17;
Informal document No. GRE-57-2 of Annex I to this report

42. GRE considered and adopted ECE/TRANS/WP.29/GRE/2007/6, not amended. The secretariat was requested to submit the proposal to WP.29 and AC.1, for consideration at their June 2007 sessions, as draft Corrigendum 1 to Supplement 11 to the 02 series of amendments to Regulation No. 19 and as draft Corrigendum 1 to Supplement 27 to the 03 series of amendments to Regulation No. 37.

43. GRE also considered and adopted ECE/TRANS/WP.29/GRE/2007/17, not amended. The secretariat was requested to submit the proposal to WP.29 and AC.1, for consideration at their June 2007 sessions, as a part (see para. 8.) of draft Supplement 29 to the 03 series of amendments to Regulation No. 37.

44. The expert from GTB introduced GRE-57-2 reflecting the updated text of Annex 1 (list of categories of filament lamps) to Regulation No. 37. GRE agreed to resume consideration of this subject at its next session. The secretariat was requested to distribute GRE-57-2 with an official symbol.

6. Regulations Nos. 4, 6, 7, 19, 23, 38, 50, 77, 87, 91, 98, 112, 113, 119 and 123
(Agenda item 5.6)

Documentation: ECE/TRANS/WP.29/GRE/2007/16

45. The expert from GTB introduced ECE/TRANS/WP.29/GRE/2007/16 proposing amendments the Regulations to specify correctly the references to filament lamps and gas-discharge light sources. GRE adopted the document with amendments to the proposed texts to Regulation No. 98 (see below) and to Regulation No. 112 (see Annex IV). The secretariat was requested to submit the adopted proposals to WP.29 and AC.1, for consideration at their November 2007 sessions, as draft Supplements to the corresponding fifteen Regulations.

Regulation No. 98, paragraph 2.1.7., amend to read:

"2.1.7. the category of light source as listed in Regulation No. 37 or No. 99 and their series of amendments in force at the time of application for type approval.
For a distributed lighting system "

E. Regulation No. 4 (Illumination of rear registration plates) (Agenda item 6)

Documentation: ECE/TRANS/WP.29/GRE/2006/53

46. GRE considered and adopted ECE/TRANS/WP.29/GRE/2006/53, not amended. The secretariat was requested to submit the proposal to WP.29 and AC.1, for consideration at their November 2007 sessions, as draft Corrigendum 2 to Supplement 10 to Regulation No. 4.

F. Regulations Nos. 6 and 48 (Agenda item 7)

Documentation: ECE/TRANS/WP.29/GRE/2006/55; ECE/TRANS/WP.29/GRE/2006/56;
Informal document No. GRE-57-18 of Annex I to this report

47. Regarding the tell-tale activation conditions in case of malfunction of direction indicators equipped with multiple light sources, GRE considered ECE/TRANS/WP.29/GRE/2006/55. Following the discussion, the experts from GTB and OICA introduced GRE-57-18, superseding ECE/TRANS/WP.29/GRE/2006/55. The expert from the Netherlands expressed his concern about the 50 per cent failure provisions for the activation of the tell-tale, especially with regard to the periodical technical inspections. GRE adopted, with abstention of the Netherlands, ECE/TRANS/WP.29/GRE/2006/55 as reproduced in Annex V to this report. The secretariat was requested to submit the proposal to WP.29 and AC.1, for consideration at their November 2007 sessions, as draft Supplement 16 to the 01 series of amendments to Regulation No. 6.

48. GRE also considered and adopted ECE/TRANS/WP.29/GRE/2006/56, as amended by Annex III to this report. The secretariat was requested to submit it to WP.29 and AC.1, for consideration at their November 2007 sessions, as a part (see paras. 17., 20., 21., 23., 24., 25., 27., 28., 30. and 36.) of draft Supplement 4 to the 03 series of amendments to Regulation No. 48.

G. Regulation No. 19 (Front fog lamps) (Agenda item 8)

Documentation: ECE/TRANS/WP.29/GRE/2006/19 and Corr.1

49. The expert from GTB presented ECE/TRANS/WP.29/GRE/2006/19 and Corr.1 inserting into the Regulation new provisions for a class "F3" fog lamp. He confirmed that requirements for class "B" fog lamps were not changed. GRE adopted ECE/TRANS/WP.29/GRE/2006/19 and Corr.1, as amended by Annex VI to this report, and requested the secretariat to submit the amended proposal to WP.29 and AC.1, for consideration at their November 2007 sessions, as draft 03 series of amendments (Revision 5) to Regulation No. 19.

H. Regulations Nos. 98 and 112 (Agenda item 9)

Documentation: ECE/TRANS/WP.29/GRE/2006/9/Rev.1; ECE/TRANS/WP.29/GRE/2006/10;
ECE/TRANS/WP.29/GRE/2007/7; ECE/TRANS/WP.29/GRE/2007/8

50. Regarding the definition and sharpness of the "cut-off" for dipped-beam headlamps, GRE considered and adopted ECE/TRANS/WP.29/GRE/2006/9/Rev.1 and ECE/TRANS/WP.29/GRE/2006/10, both documents as amended below. The secretariat was requested to submit the amended proposals to WP.29 and AC.1, for consideration at their November 2007 sessions, as draft Supplement 9 to Regulation No. 98 and draft Supplement 8 to Regulation No. 112.

Throughout the text of both proposals, for dipped beam read passing beam.

51. Regarding the adaptation of dipped-beam headlamps for use in a country with opposite traffic, GRE considered ECE/TRANS/WP.29/GRE/2007/7 and ECE/TRANS/WP.29/GRE/2007/8. The experts from Italy, Japan and the Russian Federation questioned the need for such amendments and did not support the proposals. The expert from the United Kingdom announced to prepare a proposal to insert into Regulation No. 48 new provisions for occulting headlamps lens area.

52. GRE adopted ECE/TRANS/WP.29/GRE/2007/7, as amended below. The secretariat was requested to submit the amended proposal to WP.29 and AC.1, for consideration at their November 2007 sessions, as a part (see para. 50.) of draft Supplement 9 to Regulation No. 98.

Inserted new paragraph 5.4., amend to read:

"5.4. Illumination configuration for different traffic conditions

5.4.1. In the case of headlamps

5.4.2. Following the application "

53. GRE also adopted ECE/TRANS/WP.29/GRE/2007/8, as amended below, and requested the secretariat to submit the proposal to WP.29 and AC.1, for consideration at their November 2007 sessions, as a part (see para. 50.) of draft Supplement 8 to Regulation No. 112.

Inserted new paragraph 5.8., amend to read:

"5.8- Illumination configuration for different traffic conditions

5.8.1- In the case of headlamps

5.8.2. Following the application of this(these) measure(s) the following requirements regarding illumination shall be met:

(a) points 50 L (for right-hand traffic) or 50 R (for left-hand traffic) at least **three** lux;

(b) point B 50 R (for right-hand traffic) or B 50 L (for left-hand traffic) not more than one lux."

I. Regulations Nos. 98, 112 and 113 (Agenda item 10)

Documentation: ECE/TRANS/WP.29/GRE/2007/18; ECE/TRANS/WP.29/GRE/2007/19;
ECE/TRANS/WP.29/GRE/2007/20

54. GRE considered and adopted ECE/TRANS/WP.29/GRE/2007/18, as amended below. The secretariat was requested to submit the amended proposal to WP.29 and AC.1, for consideration at their November 2007 sessions, as a part (see paras. 50. and 52.) of draft Supplement 9 to Regulation No. 98.

The proposal to delete paragraph 5.4.4., shall be removed.

55. GRE considered and adopted ECE/TRANS/WP.29/GRE/2007/19, as amended below. The secretariat was requested to submit the amended proposal to WP.29 and AC.1, for consideration at their November 2007 sessions, as a part (see paras. 50. and 53.) of draft Supplement 8 to Regulation No. 112.

The proposal to delete paragraph 5.9.4., shall be removed.

56. GRE also considered and adopted ECE/TRANS/WP.29/GRE/2007/20, as amended below, and requested the secretariat to submit the amended proposal to WP.29 and AC.1, for consideration at their November 2007 sessions, as draft Supplement 6 to Regulation No. 113.

The proposal to delete paragraph 5.8.4., shall be removed.

J. Regulation No. 112 (Headlamps emitting asymmetrical beams) (Agenda item 11)

Documentation: ECE/TRANS/WP.29/GRE/2006/41

57. The expert from GTB withdrew ECE/TRANS/WP.29/GRE/2006/41.

K. Regulations Nos. 48 and 112 (Agenda item 12)

Documentation: ECE/TRANS/WP.29/GRE/2006/15; ECE/TRANS/WP.29/GRE/2006/16

58. The expert from GTB introduced ECE/TRANS/WP.29/GRE/2006/15 and ECE/TRANS/WP.29/GRE/2006/16 regarding reduced illumination of headlamps under certain conditions. However, the proposals did not receive the support of GRE. The expert from France stated that those proposals were important for energy saving and CO₂ emission reduction. He volunteered to prepare new proposals for consideration at the next session.

**L. Light-emitting diode (LED) modules for road illumination devices
(Agenda item 13)**

**1. Regulation No. 48 (Installation of lighting and light-signalling devices)
(Agenda item 13.1)**

Documentation: ECE/TRANS/WP.29/GRE/2006/42 and Corr.1;
ECE/TRANS/WP.29/GRE/2007/15; Informal documents Nos. GRE-57-6 and GRE-57-13 of Annex I to this report

59. GRE considered ECE/TRANS/WP.29/GRE/2006/42 and Corr.1, and ECE/TRANS/WP.29/GRE/2007/15, taking into account the comments by OICA (GRE-57-6). Following the discussion, the expert from the Netherlands withdrew GRE-57-13. The expert from Germany announced to prepare, for the next session, a new proposal on the mandatory installation of automatic levelling devices for all passing beam headlamps, regardless of the type of a light source.

60. GRE adopted both documents ECE/TRANS/WP.29/GRE/2007/15 and ECE/TRANS/WP.29/GRE/2006/42, not amended, and Corr.1, as amended below. The secretariat was requested to submit the proposals to WP.29 and AC.1, for consideration at their November 2007 sessions, as a part (see paras. 17., 20., 21., 23., 24., 25., 27., 28., 30., 36. and 48.) of draft Supplement 4 to the 03 series of amendments to Regulation No. 48.

Paragraph 6.2.8.2., amend to read:

"6.2.8.2. A visual tell-tale whether flashing "

2. Regulation No. 98 (Headlamps with gas-discharge light sources)
(Agenda item 13.2)

Documentation: ECE/TRANS/WP.29/GRE/2006/43 and Corr.1

61. GRE considered and adopted ECE/TRANS/WP.29/GRE/2006/43 and Corr.1, as amended below. The secretariat was requested to submit the proposal to WP.29 and AC.1, for consideration at their November 2007 sessions, as a part (see paras. 50., 52., and 54.) of draft Supplement 9 to Regulation No. 98.

Page 7, paragraph 4., amend to read:

"4. SPECIFIC REQUIREMENTS AND TESTS"

3. Regulation No. 112 (Headlamps emitting an asymmetrical passing beam)
(Agenda item 13.3)

Documentation: ECE/TRANS/WP.29/GRE/2007/12

62. GRE considered and adopted ECE/TRANS/WP.29/GRE/2007/12, as amended by Annex IV. The secretariat was requested to submit the amended proposal to WP.29 and AC.1, for consideration at their November 2007 sessions, as a part (see paras. 50., 53. and 55.) of draft Supplement 8 to Regulation No. 112.

M. Regulations Nos. 50 and 53 (Agenda item 14)

Documentation: ECE/TRANS/WP.29/GRE/2006/4; ECE/TRANS/WP.29/GRE/2006/48;
Informal document No. GRE-56-24 of Annex I to this report

63. The experts from India and Japan withdrew their documents GRE-56-24 and ECE/TRANS/WP.29/GRE/2006/4.

64. GRE considered and adopted ECE/TRANS/WP.29/GRE/2006/48, not amended. The secretariat was requested to submit the proposal to WP.29 and AC.1, for consideration at their November 2007 sessions, as draft Supplement 8 to the 01 series of amendments to Regulation No. 53.

N. Regulation No. 53 (Installation of lighting and light-signalling devices on L₃ category vehicles) (Agenda item 15)

1. Lamp definitions (Agenda item 15.1)

Documentation: ECE/TRANS/WP.29/GRE/2006/45

65. GRE considered and adopted ECE/TRANS/WP.29/GRE/2006/45, not amended. The secretariat was requested to submit the proposal to WP.29 and AC.1, for consideration at their November 2007 sessions, as a part (see para. 64.) of draft Supplement 8 to the 01 series of amendments to Regulation No. 53.

2. Installation of daytime running lamps (Agenda item 15.2)

Documentation: ECE/TRANS/WP.29/GRE/2007/9

66. GRE considered ECE/TRANS/WP.29/GRE/2007/9 amending the installation requirements for DRLs on motorcycles. The proposal received some comments. The expert from IMMA informed GRE about ongoing research projects by Germany and IMMA. GRE agreed to resume consideration on this subject at its next session, awaiting the research results.

O. Regulations Nos. 53 and 113 (Agenda item 15.3)

Documentation: ECE/TRANS/WP.29/GRE/2006/46; ECE/TRANS/WP.29/GRE/2006/47;
Informal document No. GRE-57-11 of Annex I to this report

67. With regard to the provisions of high-intensity discharge (HID) symmetrical passing beam headlamps, GRE considered ECE/TRANS/WP.29/GRE/2006/47 and ECE/TRANS/WP.29/GRE/2006/46, taking into account the comments by India (GRE-57-11). The experts from Germany, the Netherlands, Sweden and the EC requested to mandate the installation of automatically adjustable headlamp levelling devices. The experts from IMMA and CLEPA informed GRE that, at the present time, such devices for motorcycles were not yet commercially available. Thus, several delegates preferred to allow the installation of manual headlamp levelling devices during a transitional period. GRE invited the expert from IMMA to prepare a revised proposal for consideration at the next session.

P. New agenda items (Agenda item 17)

1. Regulation No. 98 (Headlamps with gas-discharge light sources)
(Agenda item 17.1)

Documentation: ECE/TRANS/WP.29/GRE/2006/50

68. GRE considered and adopted ECE/TRANS/WP.29/GRE/2006/50, not amended. The secretariat was requested to submit the proposal to WP.29 and AC.1, for consideration at their November 2007 sessions, as a part (see paras. 50., 52., 54. and 62.) of draft Supplement 9 to Regulation No. 98.

2. Regulation No. 23 (Reversing lights) (Agenda item 17.2)

Documentation: ECE/TRANS/WP.29/GRE/2006/54

69. GRE considered and adopted ECE/TRANS/WP.29/GRE/2006/54, as amended below. The secretariat was requested to submit the amended proposal to WP.29 and AC.1, for consideration at their November 2007 sessions, as draft Supplement 14 to Regulation No. 23.

Paragraph 6.5., amend to read:

"6.5. In the case of intensities shall not be exceeded. 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."

3. Regulation No. 87 (Daytime running lamps) (Agenda item 17.3)

Documentation: ECE/TRANS/WP.29/GRE/2007/10; ECE/TRANS/WP.29/GRE/2007/11; ECE/TRANS/WP.29/GRE/2007/38; Informal document No. GRE-57-14 of Annex I to this report

70. GRE considered ECE/TRANS/WP.29/GRE/2007/38. However, the proposal did not receive the support of GRE.

71. GRE agreed to defer consideration of ECE/TRANS/WP.29/GRE/2007/10 awaiting the final decision on the installation of DRLs on motorcycles (see para. 66. above).

72. Taking into account GRE-57-14, GRE adopted ECE/TRANS/WP.29/GRE/2007/11, as amended below. The secretariat was requested to submit the proposal to WP.29 and AC.1, for consideration at their June 2007 sessions, as draft Supplement 11 to Regulation No. 87. The Chairman invited GRE experts to prepare similar proposals for aligning the text of other relevant UNECE Regulations.

Paragraph 7.4., amend to read:

"7.4. In the case of a lamp containing shall not be exceeded.

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."

4. Regulation No. 104 (Retro-reflective markings) (Agenda item 17.4)

Documentation: ECE/TRANS/WP.29/GRE/2007/26; ECE/TRANS/WP.29/GRE/2007/34

73. GRE considered and adopted ECE/TRANS/WP.29/GRE/2007/26, as amended below. The secretariat was requested to submit the amended proposal to WP.29 and AC.1, for consideration at their November 2007 sessions, as draft Supplement 5 to Regulation No. 104.

Annex8, paragraph 1.3., correct "tables 1 and 2" to read "table 1".

74. GRE also considered and adopted ECE/TRANS/WP.29/GRE/2007/34, not amended. The secretariat was requested to submit the proposal to WP.29 and AC.1, for consideration at their November 2007 sessions, as draft Corrigendum 1 to Supplement 4 to Regulation No. 104.

5. Regulation No. 7 (Front and rear position (side) lamps, stop lamps and end-outline marker lamps) (Agenda item 17.5)

Documentation: ECE/TRANS/WP.29/GRE/2007/27

75. GRE considered and adopted ECE/TRANS/WP.29/GRE/2007/27, not amended. The secretariat was requested to submit the proposal to WP.29 and AC.1, for consideration at their June 2007 sessions, as draft Corrigendum 1 to Supplement 12 to the 02 series of amendments to Regulation No. 7.

6. Regulation No. 3 (Retro-reflecting devices) (Agenda item 17.6)

Documentation: ECE/TRANS/WP.29/GRE/2007/29

76. GRE considered and adopted ECE/TRANS/WP.29/GRE/2007/29, not amended. The secretariat was requested to submit the proposal to WP.29 and AC.1, for consideration at their November 2007 sessions, as draft Supplement 11 to the 02 series of amendments to Regulation No. 3.

IV. ELECTION OF OFFICERS (Agenda item 18)

77. In compliance with Rule 37 of the Rules of Procedure (TRANS/WP.29/690), GRE called for the election of officers on 26 March 2007 morning. The representatives of the Contracting Parties, present and voting, re-elected unanimously Mr. M. Gorzkowski (Canada) as Chairman for the GRE sessions scheduled for the year 2007.

V. OTHER BUSINESS (Agenda item 19)

A. Amendments to the Convention on Road Traffic (Vienna 1968)
(Agenda item 19.1)

78. The expert from IMMA informed GRE that the Working Party on Road Traffic Safety (WP.1) decided at its fifty-first session to establish a legal expert group within WP.1 in order to analyse the possibilities for ensuring the compatibility of the existing Annex 5 to the Vienna Convention with the Regulations annexed to the 1958 Agreement (ECE/TRANS/WP.1/108, paras. 19. to 22.). GRE agreed to resume consideration on this subject at its next session.

B. Direction for future GRE work (Agenda item 19.2)

79. The Chairman referred to the ongoing work concerning the establishment of DETA database (see para. 38. above) and invited GRE experts to reflect on possible merging of several Regulations in order to simplify type approval markings. He suggested the revised Regulation No. 19 (see para. 49. above) as a potential candidate for development of a new gtr.

C. Tribute to Mme. G. Bonneau-Poirier

80. GRE noted that Mme. Geneviève Bonneau-Poirier (France) took her retirement at the end of 2006. GRE expressed, in-absentia, its appreciation to Mme. Bonneau-Poirier for her fruitful and professional contributions during all the years in GRE and wished her a long and happy retirement.

VI. AGENDA FOR THE NEXT SESSION

81. GRE did not consider the provisional agenda for the fifty-eight session of GRE, scheduled from 1 to 5 October 2007. 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-57-...)

No.	Transmitted by	Agenda item	Language	Title	Follow-up
1.	Chairman	-	E	Proposed running order of the 57th GRE agenda (ECE/TRANS/WP.29/GRE/2007/1)	(c)
2.	GTB	5.5.	E	Proposal for draft amendments to Regulation No. 37 (Filament lamps)	(b)
3.	IEC	3.2.	E	Proposal for draft amendments to Regulation No. 37 (Filament lamps)	(d)
4.	OICA	4.5.	E	OICA's comments on ECE/TRANS/WP.29/GRE/2006/18	(c)
5.	OICA	4.9.	E	OICA's comments on ECE/TRANS/WP.29/GRE/2006/38	(d)
6.	OICA	13.1.	E	OICA's comments on ECE/TRANS/WP.29/GRE/2006/42	(c)
7.	Germany	4.2.	E	Report on the preparatory meeting of the informal group on operating voltage (OVIG)	(c)
8.	Secretariat	4.3.	E	Requirements for the illumination of stop lamps for vehicles equipped with endurance brakes	(c)
9.	India	1.1.	E	India's comments on proposed draft gtr	(c)
10.	India	4.6.	E	India's comments on ECE/TRANS/WP.29/GRE/2006/20 and ECE/TRANS/WP.29/GRE/2006/22	(c)
11.	India	16.	E	India's comments on ECE/TRANS/WP.29/GRE/2006/46	(c)
12.	India	5.2.	E	India's comments on ECE/TRANS/WP.29/GRE/2006/25	(c)
13.	Netherlands	13.1.	E	Proposal for draft amendments to Regulation No. 48	(c)
14.	France	17.3.	E	Comments by France on ECE/TRANS/WP.29/GRE/2007/11	(d)
15.	CLEPA	5.4.	E	CLEPA's comments on ECE/TRANS/WP.29/GRE/2006/39	(c)
16.	CLEPA	5.4.	E	CLEPA's comments on ECE/TRANS/WP.29/GRE/2006/40	(c)
17.	Italy	4.13.	E	Considerations and proposals of Italy concerning ECE/TRANS/WP.29/2007/20	(c)
18.	GTB/OICA	7.	E	Proposed amendments to ECE/TRANS/WP.29/GRE/2006/55	(d)
19.	United Kingdom	4.13.	E	Proposed amendments to ECE/TRANS/WP.29/GRE/2007/35	(d)

20.	OICA	4.13.	E	OICA's concerns about an automatic switching of the dipped beam headlamps according to ECE/TRANS/WP.29/2007/20, produced by the European Community	(c)
21.	OICA	4.13.	E	OICA's concerns about daytime running lamps	(c)
22.	OICA	4.13.	E	Proposed amendments to paragraph 6.2.7. of ECE/TRANS/WP.29/2007/20	(c)

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
56-22	Japan	4.8.	E	Japanese comments on paragraph 5.7. of Regulation No. 48 - (Reciprocally incorporated lamps of different colours)	(a)
56-24	India	14.	E	India's comments on proposal for draft amendments to Regulation No. 50 - (Rear-registration number plate illumination devices)	(c)

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. 10

AMENDMENTS ADOPTED TO ECE/TRANS/WP.29/GRE/2006/51 (see para. 6. of the report)

Table of contents, list of annexes, insert square brackets for the reference to Annex 3C.

Text of the Regulation,

Insert square brackets for paragraph 3.2.9.

Paragraph 5.3.1., the reference to footnote 1/ and footnote 1/, renumber as footnote 2/ and amend to read:

"2/ 1 for Germany, 2 for France, 3 for Italy, 4 for the Netherlands, 5 for Sweden, 6 for Belgium, 7 for Hungary, 8 for the Czech Republic, 9 for Spain, 10 for Serbia, 11 for the United Kingdom, 12 for Austria, 13 for Luxembourg, 14 for Switzerland, 15 (vacant), 16 for Norway, 17 for Finland, 18 for Denmark, 19 for Romania, 20 for Poland, 21 for Portugal, 22 for the Russian Federation, 23 for Greece, 24 for Ireland, 25 for Croatia, 26 for Slovenia, 27 for Slovakia, 28 for Belarus, 29 for Estonia, 30 (vacant), 31 for Bosnia and Herzegovina, 32 for Latvia, 33 (vacant), 34 for Bulgaria, 35 (vacant), 36 for Lithuania, 37 for Turkey, 38 (vacant), 39 for Azerbaijan, 40 for The former Yugoslav Republic of Macedonia, 41 (vacant), 42 for the European Community (Approvals are granted by its Member States using their respective ECE symbol), 43 for Japan, 44 (vacant), 45 for Australia, 46 for Ukraine, 47 for South Africa, 48 for New Zealand, 49 for Cyprus, 50 for Malta, 51 for the Republic of Korea, 52 for Malaysia, 53 for Thailand, 54 and 55 (vacant) and 56 for Montenegro. Subsequent numbers shall be assigned to other countries in the chronological order in which they ratify or accede to the Agreement Concerning the Adoption of Uniform Technical Prescriptions for Wheeled Vehicles, Equipment and Parts which can be Fitted and/or be Used on Wheeled Vehicles and the Conditions for Reciprocal Recognition of Approvals Granted on the Basis of these Prescriptions, and the numbers thus assigned shall be communicated by the Secretary-General of the United Nations to the Contracting Parties to the Agreement."

Paragraph 12.4., replace "36 months" by "48 months".

Insert square brackets for Annex 3C.

Annex 4, paragraph 1.2., amend to read:

" the test shall be performed according to CISPR 12 (**amendment 1**, fifth edition 2001)."

Annex 4, paragraph 2.2., amend to read:

" The **horn, electric** window motors, **etc.** are excluded because they are not used continuously."

Annex III

AMENDMENTS TO REGULATION No. 48

AMENDMENTS ADOPTED TO ECE/TRANS/WP.29/GRE/2006/18
(see para. 21. of the report)

Paragraph 6.3.6.2.1., amend to read:

"6.3.6.2.1. In the case **of a front fog lamp with (a) light source(s) having a total objective luminous flux, which exceeds 2,000 lumen**, the requirements of paragraph 6.3.6.1.2.2. shall be automatically satisfied under all the loading conditions of Annex 5 of this Regulation."

ADOPTED TEXT BASED ON ECE/TRANS/WP.29/GRE/2007/33
(see para. 23. of the report)

Paragraph 6.13.2., amend to read:

"6.13.2. Number

Two visible from the front and two visible from the rear.

Optional: additional lamps may be fitted as follows:

- (a) two visible from the front;
- (b) two visible from the rear."

Paragraph 6.13.4.2., amend to read:

"6.13.4.2. In height:

....

Rear: At the maximum height compatible with the requirements relating to the width, design and operational requirements of the vehicle and to the symmetry of the lamps.

Both optional and mandatory (as applicable) lamps to be fitted as far separated in height as practicable and compatible with design/operational requirements of the vehicle and symmetry of the lamps."

Paragraph 6.13.4.3., amend to read:

"6.13.4.3. In length, no special requirement.

The additional lamps visible from the front, as specified in paragraph 6.13.4.2., as close as practicable to the rear. However, the distance between the additional lamps and the rear of the vehicle shall not exceed 400 mm."

Paragraph 6.13.9., amend to read:

"6.13.9. Other requirements

Provided that all other requirements are met, the mandatory lamps, visible from the front and the mandatory lamps visible from the rear on the same side of the vehicle may be combined into one device.

Two of the lamps visible from the rear may be grouped, combined or reciprocally incorporated in accordance with paragraph 5.7.

The position of an end-outline marker lamp "

ADOPTED TEXT BASED ON ECE/TRANS/WP.29/GRE/2007/30
(see para. 25. of the report)

Paragraph 2.16.1., amend to read:

"2.16.1. "A single lamp" means:

- (a)
- (b) any assembly of two independent lamps, whether identical or not, having the same function, both approved as type "D" lamp and installed so that:
 - (i) the projection of their apparent surfaces in the direction of the reference axis occupies not less than 60 per cent of the smallest quadrilateral circumscribing the projections of the said apparent surfaces in the direction of the reference axis, or
 - (ii) the distance between two adjacent/tangential distinct parts does not exceed 15 mm when measured perpendicularly to the reference axis, or
- (c) any assembly of two independent retro-reflectors, whether identical or not, that have been approved separately and are installed in such a way that:
 - (i) the projection of their apparent surfaces in the direction of the reference axis occupies not less than 60 per cent of the smallest quadrilateral circumscribing the projections of the said apparent surfaces in the direction of the reference axis, or
 - (ii) the distance between two adjacent/tangential distinct parts does not exceed 15 mm when measured perpendicularly to the reference axis."

ADOPTED TEXT BASED ON ECE/TRANS/WP.29/GRE/2006/38

(see para. 27. of the report)

Paragraph 6.20.7., amend to read:

"6.20.7. Electrical connections

The cornering lamps must be so connected that they cannot be activated unless the main-beam headlamps or the dipped-beam headlamps are switched ON at the same time.

- 6.20.7.1. The cornering lamp on one side of the vehicle may only be switched ON automatically when the direction indicators on the same side of the vehicle are switched ON and/or when the steering angle is changed from the straight-ahead position towards the same side of the vehicle.

The cornering lamp shall be switched OFF automatically when the direction indicator is switched OFF and/or the steering angle has returned in the straight-ahead position.

- 6.20.7.2. When the reversing lamp is switched ON, both cornering lamps may be switched on simultaneously, independently from the steering wheel or direction indicator position. In this case, the cornering lamps shall be switched OFF when the reversing lamp is switched OFF."

ADOPTED TEXT BASED ON ECE/TRANS/WP.29/GRE/2007/35

(see para. 33. of the report)

Paragraph 6.19.7., amend to read:

"6.19.7. 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.

The daytime running lamps shall at short intervals.

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

- 6.19.7.1. It shall be possible to activate and deactivate the automatic switching ON of daytime running lamps. The means to fulfil this requirement shall not be accessible during the normal condition of use of a vehicle. Tools may be required to access or operate these means."

Annex 1, insert a new item 10.6., to read:

"10.6. Description of the device used to satisfy paragraph 6.19.7.1. and method to verify its status."

ADOPTED TEXT BASED ON ECE/TRANS/WP.29/GRE/2007/24
(see para. 36. of the report)

Paragraph 5.10.2., amend to read:

"5.10.2. For the visibility of white light towards the rear of the vehicle, with the exception of white 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/2006/56
(see para. 48. of the report)

Paragraph 6.5.8., amend to read:

"6.5.8. Tell-tale

Operating tell-tale these direction indicator lamps.

It shall be activated by the signal produced according to paragraph 6.4.2. of Regulation No. 6 **or another suitable way**.

If a motor vehicle is equipped "

Annex IV

AMENDMENTS TO REGULATION No. 112

AMENDMENTS ADOPTED TO ECE/TRANS/WP.29/GRE/2007/16 AND
ECE/TRANS/WP.29/GRE/2007/12 (see paras. 45. and 62. of the report)

Paragraph 1.3.7., amend to read:

"1.3.7. The category of filament lamp used and/or the **LED module** specific identification code(s)."

Paragraph 2.1.5., amend to read:

"2.1.5. the category of the filament lamp(s) used, as listed in Regulation No. 37 **and its series of amendments in force at the time of application for type approval**, and/or the light source module specific identification code(s) for LED modules, if available."

Paragraph 5.3., amend to read (including the deletion of the reference to footnote 7/ and footnote 7/):

"5.3. The headlamp shall be equipped with:

5.3.1. filament lamp(s) approved according to Regulation No. 37. Any Regulation No. 37 filament lamp may be used, provided that no restriction on the **use** is made **in Regulation No. 37 and its series of amendments in force at the time of application for type approval.**"

Paragraph 5.4., renumber as paragraph 5.3.1.1. and amend to read (the reference to footnote 8/ and footnote 8/ renumber as footnote 7/):

"5.3.1.1. **The design of the device shall be such that** the filament lamp can be fixed in no other position but the correct one. 7/"

Paragraph 5.5., renumber as paragraph 5.3.1.2. and amend to read:

"5.3.1.2. The filament lamp holder shall conform to the characteristics given in IEC Publication **60061**. The holder data sheet relevant to the category of filament lamp used, applies."

Paragraph 6.1.5., delete (two times) the word "alone".

Paragraph 6.3.2., amend to read:

"6.3.2. Independent on whether LED module(s) or filament light source(s) are used to produce the principal passing **beam, it is** possible to use several filament light sources,

provided that these light sources are listed in Regulation No. 37, or LED modules for each individual driving beam."

Annex 9, paragraph 4., amend to read:

"4. **SPECIFIC REQUIREMENTS AND TESTS**"

Annex V

AMENDMENTS TO REGULATION No. 6

ADOPTED TEXT BASED ON ECE/TRANS/WP.29/GRE/2006/55

(see para. 47. of the report)

Insert a new paragraph 2.2.4., to read:

"2.2.4. for a direction indicator lamp of categories 1, 1a, 1b, 2a and 2b, information regarding the signal according to paragraph 6.4.2. below."

Paragraph 2.2.4. (former), renumber as paragraph 2.2.5.

Paragraph 6.1., the table, delete the reference to footnote 3/ and footnote 3/.

Paragraph 6.5.2. (b), the reference to footnote 4/ and footnote 4/, renumber as footnote 3/.

Paragraph 7.1.3., the reference to footnote 5/ and footnote 5/, renumber as footnote 4/.

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

"6.2. For an assembly of two or more direction indicator lamps the total intensity shall not exceed the maximum value prescribed for a single lamp, multiplied by 1.4. This shall not apply to lamps of category 2a.

6.3. When an assembly of two or more direction indicator 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 single lamp of categories 1, 1a, 1b, 2a and 2b, 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. A signal for activation of the tell-tale prescribed in paragraph 6.5.8. of Regulation No. 48 shall be produced if:

- (a) any one light source has failed, or
- (b) in the case of a lamp designed for only two filament light sources, the intensity in the axis of reference is less than 50 per cent of the minimum intensity, or
- (c) as a consequence of a failure of one or more light sources, the intensity in one of the following directions as indicated in Annex 4 to this Regulation is less than the minimum intensity required:
 - (i) $H=0^\circ, V=0^\circ$

(ii) $H=20^\circ$ to the outside of the vehicle, $V=+5^\circ$

(iii) $H=10^\circ$ to the inside of the vehicle, $V=0^\circ$.

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 6.6. to 6.10.

Annex 2,

Item 9., amend to read (including the insertion of a reference to a new footnote 3/ and a new footnote 3/):

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

3/ For direction indicator lamps of categories 1, 1a, 1b, 2a and 2b, information regarding the signal according to paragraph 6.4.2."

Annex VI

AMENDMENTS TO REGULATION No. 19

AMENDMENTS ADOPTED TO ECE/TRANS/WP.29/GRE/2006/19 and Corr.1
(see para. 49. of the report)

Amend the title, to read:

"UNIFORM PROVISIONS CONCERNING THE APPROVAL OF POWER-DRIVEN
VEHICLE FRONT FOG LAMPS"

Page 3, before paragraph 1., insert a new paragraph 0., to read (including the insertion of a reference to a new footnote 2/ and footnote 2/):

"0. SCOPE:

This Regulation applies to front fog lamps for vehicles of categories L₃, L₄, L₅, L₇, M, N, and T. 2/

2/ As defined in Annex 7 to the Consolidated Resolution on the Construction of Vehicles (R.E.3) (document TRANS/WP.29/78/Rev.1/Amend.2 as last amended by Amend.4)."

Page 4, insert a new paragraph 1.5., to read:

"1.5. References made in this Regulation to standard (étalon) light sources and to Regulations No. 37 and 99 shall refer to Regulations No. 37 and 99 and their series of amendments in force at the time of application for type approval."

Page 5, paragraph 2.3.1., amend to read:

"2.3.1. a brief technical specification including the category of filament lamp used as listed in Regulation No. 37 and its series of amendments in force at the time of application for type approval, even if the filament lamp cannot be replaced;"

Page 5 paragraph 2.4.1., amend to read:

"2.4.1. a brief technical specification including the category of the light source(s) used; this (these) light source category(ies) shall be listed in Regulation No. 37 or Regulation No. 99 and their series of amendments in force at the time of application for type approval, even if the light source cannot be replaced;"

Page 7, paragraph 3.2., the reference to footnote 2/ and footnote 2/, renumber as footnote 3/.

Page 9, paragraph 4.2.1.1., the reference to footnote 3/ and footnote 3/, renumber as footnote 4/ and amend to read:

"4/ 1 for Germany, 2 for 49 for Cyprus, 50 for Malta, **51 for the Republic of Korea, 52 for Malaysia, 53 for Thailand, 54 and 55 (vacant) and 56 for Montenegro.** Subsequent numbers shall be assigned to"

Pages 12 and 13, paragraphs 5.5. and 5.6., amend to read:

"5.5. In the case of the use of replaceable light sources:

- (i) **the light source's holder shall conform to the characteristics given in IEC Publication No. 60061. The holder data sheet relevant to the category of light sources used applies;**
- (ii) the light source shall fit easily into the front **fog lamp**;
- (iii) **the design of the device shall be such that** the light source(s) can be fixed in no **other** position but the correct one.

5.6. In the case of Class B, the front **fog lamp** shall be equipped with one filament lamp approved according to Regulation No. 37 **even if the filament lamp cannot be replaced.** Any Regulation No. 37 filament lamp may be used, provided that no restriction on the **use is made in Regulation No. 37 and its series of amendments in force at the time of application for type approval.**"

Page 13 paragraph 5.7.1., amend to read:

"5.7.1. one or more replaceable light sources approved according to Regulation No. 37 or Regulation No. 99 **and their associated series of amendments in force at the time of application for type approval.**"

Page 14, paragraph 5.12., the reference to footnote 4/ and footnote 4/, renumber as footnote 5/.

Page 19, paragraph 6.4.4.2. (i), amend to read:

"(i) an active electronic light source control gear is incorporated into the front **fog lamp function system**"

Page 20, paragraph 8., the reference to footnote 5/ and footnote 5/, renumber as footnote 6/.

Page 21, paragraph 10.2.

For paragraph 11.1. read paragraph 10.1.

Page 22, paragraph 10.4.3.

For paragraph 11.4.2. read paragraph 10.4.2.

Page 25, Annex 1, item 10.1., the list of lamp classes

Correct to read B, B/, BPL, B/PL, **F3, F3/, F3PL**, F3/PL

Page 25, Annex 1, item 13.

For 3/ read 2/

Page 37, Annex 3, the text pertaining to Figure 14.

For a fog lamp approved in Japan read a **front** fog lamp approved in Japan

Page 55, Annex 6 – Appendix 2, paragraph 2., the table, the fourth column

For 24 °C read (two times) 24 degrees

Page 70, Annex 9, paragraph 3.2.

For paragraph 2.1. read paragraph **3.1.**

Page 76, Annex 12, paragraph 3.1.3.1.

For paragraph 6.6. read paragraph **6.4.**

Page 77, Annex 12, paragraph 4.1.

For paragraphs 4.2.1. to 4.2.3. read paragraphs **4.3.1.** and **4.3.2.**

Page 78, Annex 12, paragraph 4.5.1.

For (λ) (unit: nm) read λ (unit: nm)
