Economic Commission for Europe
Inland Transport Committee
World Forum for Harmonization of Vehicle Regulations
Working Party on Lighting and Light-Signalling
Sixty-sixth session
Geneva, 4–6 October 2011

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

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I. Attendance

1. The Working Party on Lighting and Light-Signalling (GRE) held its sixty-sixth session from 4 to 6 October 2011 in Geneva, under the chairmanship of Mr. M. Gorzkowski (Canada). Experts from the following countries participated in the work following Rule 1(a) of the Rules of Procedure of the World Forum for Harmonization of Vehicle Regulations (WP.29) (TRANS/WP.29/690 and Amend. 1): Austria; Canada; China; Czech Republic; Finland; France; Germany; Hungary; India; Italy; Japan; Latvia, Luxembourg, Netherlands; Norway; Poland; Republic of Korea; Russian Federation; Spain; Sweden, Turkey and United Kingdom of Great Britain and Northern Ireland. An expert from the European Commission (EC) participated. Experts from the following non-governmental organizations also took part in the session: European Association of Automobile Suppliers (CLEPA); International Association of the Body and Trailer Building Industry (CLCCR); International Electrotechnical Commission (IEC); International Motorcycle Manufacturers Association (IMMA); International Organization of Motor Vehicle Manufacturers (OICA) and Society of Automotive Engineers (SAE). Upon the special invitation of the Chair, the experts from the Working Party "Brussels 1952 (GTB)" participated.

II. Adoption of the agenda (agenda item 1)

Documentation: ECE/TRANS/WP.29/GRE/2011/31
Informal document GRE-66-12-Rev.1

2. GRE adopted the agenda proposed for the session (ECE/TRANS/WP.29/GRE/2011/31 as amended by GRE-66-12-Rev.1). GRE agreed to insert new agenda items 4(e) and 16(g) to 16(j).

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

3. GRE noted that proposals on this subject were awaited and agreed to defer discussion to its March 2012 session.

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

Documentation: ECE/TRANS/WP.29/GRE/2011/36
Informal document GRE-66-01

4. GRE considered ECE/TRANS/WP.29/GRE/2011/36 from the GTB expert introducing new light source category H17 into Regulation No. 37. GRE adopted ECE/TRANS/WP.29/GRE/2011/36, as amended below, and requested the secretariat to submit it to WP.29 and to the Administrative Committee of the 1958 Agreement (AC.1) at their March 2012 sessions, as draft Supplement 39 to the 03 series of amendments to Regulation No. 37.

Page 4, the table, fifth row, correct to read:

<table>
<thead>
<tr>
<th>( \alpha )</th>
<th>max. 40°</th>
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5. After consideration, GRE requested the secretariat to upload, as reference document on the GRE website, GRE-66-01 on the GTB internal process for introducing and evaluating new light source categories.

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

A. Proposal for Supplement 9 to the 04 series of amendments

Documentation: ECE/TRANS/WP.29/GRE/2011/49  
ECE/TRANS/WP.29/GRE/2011/53  
ECE/TRANS/WP.29/GRE/2011/62

6. GRE considered ECE/TRANS/WP.29/GRE/2011/49 from the GTB expert introducing the vehicle speed as a criterion for operating adaptive stop-lamps. GRE noted a number of comments and agreed to reconsider this document at its March 2012 session, possibly with a demonstration by GTB on vehicles complying with ECE/TRANS/WP.29/GRE/2011/49 requirements.

7. GRE considered ECE/TRANS/WP.29/GRE/2011/62 by the expert from Germany together with ECE/TRANS/WP.29/GRE/2011/53 by the experts from the United Kingdom and CLEPA, both on the conspicuity marking of commercial vehicles. GRE could not reach a final decision on these proposals and agreed to reconsider this issue at its next session on the basis of a joint revised proposal by the experts from Germany, United Kingdom, CLEPA and all interested experts (Focal point: Mr. Mainz - karl.manz@kit.edu).

8. GRE agreed to remove from the agenda the issue raised by the expert from the Netherlands concerning the way to avoid inadvertent changes to the colour allowed for front positions lamps in Regulation No 48.

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

9. GRE recalled its request to the experts from GTB and OICA to carry out a complete review and update of the full transitional provisions of Regulation No. 48 with the objective to simplify and clarify the text (see ECE/TRANS/WP.29/GRE/65, para. 9).

C. Proposal for Supplement 1 to the 05 series of amendments

Documentation: ECE/TRANS/WP.29/GRE/2011/32  
ECE/TRANS/WP.29/GRE/2011/63  
Informal document GRE-66-17

10. The expert from Poland presented GRE-66-17 superseding ECE/TRANS/WP.29/GRE/2011/32, taking into consideration real visibility distance and glaring according to headlamp Regulations. GRE noted a number of comments and agreed to consider again, at its next session, GRE-66-17 with an official symbol or a revised proposal by the expert from Poland.

11. The expert from Canada introduced ECE/TRANS/WP.29/GRE/2011/63 clarifying the conditions for simultaneous illumination of marking lamps and daytime running lamps. GRE adopted ECE/TRANS/WP.29/GRE/2011/63, not amended, and requested the secretariat to submit the proposal to WP.29 and to AC.1 at their November 2011 sessions, as part of draft Supplement 2 to the 05 series of Regulation No. 48 (see also para. 22).
D. Proposal for Corrigendum 5 to Revision 6

Documentation: ECE/TRANS/WP.29/GRE/2011/53

12. GRE agreed to consider ECE/TRANS/WP.29/GRE/2011/53 under item 4.(a) of the agenda (see para. 7).

E. Other proposals for amendments to Regulation No. 48


13. The expert from Japan introduced GRE-66-02 correcting some cross references in Supplement 7 to the 04 series of amendments to Regulation No. 48. GRE requested the secretariat to correct these cross reference, as reproduced below, when issuing Supplement 7 to the 04 series of amendments to Regulation No. 48.

Paragraph 6.3.6.2.1., last line

For paragraph 6.3.6.1.2.1. read paragraph 6.3.6.1.2.2.1.

Paragraph 6.3.6.2.3, last line

For paragraph 6.3.6.1.2.1. read paragraph 6.3.6.1.2.2.1.

14. The expert from GTB withdrew GRE-66-06.

15. The expert from Japan introduced GRE-66-07 clarifying that a tailgate of a truck, which is open and is not locked, is in a “a fixed position”. GRE invited the expert from Japan to prepare a revised proposal with a better wording, for consideration at the next March 2012 session of GRE.

VI. Collective amendments (agenda item 5)

A. Simplification of the approval markings

16. The expert from GTB informed GRE about the work progress of the DETA informal group (Database for the Exchange of Type Approval documentation). He recalled that before starting the extensive work of amending all the relevant lighting and signalling regulations, it was necessary to seek a commitment that all Contracting Parties to the 1958 agreement would adopt and operate the DETA system.

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

17. GRE agreed to resume consideration of this agenda item at its next session on the basis of a concrete proposal from Germany.

C. Regulations Nos. 19, 112, 113 and 123

Documentation: ECE/TRANS/WP.29/GRE/2011/37

18. GRE considered ECE/TRANS/WP.29/GRE/2011/37 by the expert from GTB removing the materials for lenses and coating in the definition of types. GRE agreed in principle with this proposal but noted that other lighting Regulations should also be
amended. GRE invited the experts from GTB to prepare a collective amendment to all the Regulations concerned, for consideration at its March 2012 session.

D. Regulations Nos. 98 and 123

Documentation: ECE/TRANS/WP.29/GRE/2011/38

19. GRE considered ECE/TRANS/WP.29/GRE/2011/38 by the expert from GTB simplifying the photometric test requirements. GRE adopted ECE/TRANS/WP.29/GRE/2011/38, not amended, and requested the secretariat to submit it to WP.29 and AC.1 for consideration at their March 2012 sessions, as part of draft Supplement 3 to the 01 series of Regulation No. 98 (see paras. 20, 27 and 35) and as part of draft Supplement 3 to the 01 series of Regulation No. 123 (see paras. 20, and 39).

E. Regulations Nos. 98, 112 and 123

Documentation: ECE/TRANS/WP.29/GRE/2011/39

20. GRE considered ECE/TRANS/WP.29/GRE/2011/39 by the expert from GTB clarifying the heat test requirements. GRE adopted ECE/TRANS/WP.29/GRE/2011/39, as amended below, and requested the secretariat to submit it to WP.29 and AC.1, for consideration at their March 2012 sessions, as part of draft Supplement 3 to the 01 series of Regulation No. 98 (see paras. 19, 27, and 35), as part of draft Supplement 3 to the 01 series of Regulation No. 112 (see paras. 27 and 37) and as part of draft Supplement 3 to the 01 series of Regulation No. 123 (see paras. 19 and 39).

Annex 4, new paragraph 2.2.2., fourth indent, amend to read:

"After this period of one hour, the headlamp type shall be considered as acceptable if the absolute value $\Delta r$ measured on this sample meets the requirements in paragraph 2.2.1. above."

The formula at the end of paragraph 2.2.2., should be deleted.

F. Regulations Nos. 23 and 48

Documentation: ECE/TRANS/WP.29/GRE/2011/33
ECE/TRANS/WP.29/GRE/2011/59
ECE/TRANS/WP.29/GRE/2011/60
ECE/TRANS/WP.29/GRE/2011/61
Informal documents GRE-66-08, GRE-66-09 and GRE-66-10

21. The Chair of the task force on courtesy lamps introduced ECE/TRANS/WP.29/GRE/2011/60 superseding ECE/TRANS/WP.29/GRE/2011/33 and introducing manoeuvring lamps into Regulation No. 23. After discussion, OICA withdrew GRE-66-08. GRE adopted ECE/TRANS/WP.29/GRE/2011/60 as amended in Annex II and requested the secretariat to submit it to WP.29 for consideration at its March 2012 session as draft Supplement 18 to Regulation No. 23.

22. The Chair of the task force on courtesy lamps introduced ECE/TRANS/WP.29/GRE/2011/59 on the installation of manoeuvring lamps. The expert from OICA proposed, in GRE-66-09, to adopt ECE/TRANS/WP.29/GRE/2011/59 as a Supplement to Regulation No. 48. GRE adopted ECE/TRANS/WP.29/GRE/2011/59, as amended below, and requested the secretariat to submit it to WP.29 for consideration at its
March 2012 session as part of draft Supplement 2 to the 05 series of Regulation No. 48 (see also para. 11. One supplement but two documents to be prepared separately).

New paragraph 6.26.7., second indent, amend to read:

"The manoeuvring lamp(s) shall be activated automatically for slow manoeuvres up to 10 km/h provided that one of the following conditions is fulfilled:"

23. The Chair of the task force on courtesy lamps introduced ECE/TRANS/WP.29/GRE/2011/61 on the installation of courtesy lamps. It was noted that the transitional provisions in ECE/TRANS/WP.29/GRE/2011/61 might be in conflict with other transitional provisions in Regulation No. 48 and that these provisions would be reviewed in a further step as requested in para. 9 of this report. GRE did not support GRE-66-10 from OICA. GRE adopted ECE/TRANS/WP.29/GRE/2011/61, as amended by Annex III, and requested the secretariat to submit it to WP.29 and AC.1, for consideration at their March 2012 sessions, as draft 06 series to Regulation No. 48.

G. Regulations Nos. 4, 6, 7, 23, 38, 50, 77, 87, 91 and 119

Documentation: ECE/TRANS/WP.29/GRE/2011/6
ECE/TRANS/WP.29/GRE/2011/7
ECE/TRANS/WP.29/GRE/2011/8
ECE/TRANS/WP.29/GRE/2011/9
ECE/TRANS/WP.29/GRE/2011/10
ECE/TRANS/WP.29/GRE/2011/11
ECE/TRANS/WP.29/GRE/2011/12
ECE/TRANS/WP.29/GRE/2011/13
ECE/TRANS/WP.29/GRE/2011/14
ECE/TRANS/WP.29/GRE/2011/15
ECE/TRANS/WP.29/2010/44 and Corr.1
ECE/TRANS/WP.29/2010/110

24. GRE agreed to keep all the GRE proposals on the agenda for its next session awaiting the final adoption by WP.29/AC.1 of the draft Regulation on Light Emitting Diodes (LED) light sources (ECE/TRANS/WP.29/2010/44, ECE/TRANS/WP.29/2010/44/Corr.1 and ECE/TRANS/WP.29/2010/110) (see also ECE/TRANS/WP.29/GRE/65, para. 23).

H. Regulations Nos. 53 and 113

25. GRE agreed to defer the discussion of this issue to its March 2012 session pending the proposal from IMMA allowing the type approval and installation of additional light source type headlamps for motorcycles.
I. Regulations Nos. 19 and 48

Documentation: ECE/TRANS/WP.29/GRE/2011/58
ECE/TRANS/WP.29/2011/77
ECE/TRANS/WP.29/1091

26. Following the request of WP.29 to review ECE/TRANS/WP.29/2011/77 (ECE/TRANS/WP.29/1091, para. 60), the GRE Chair presented ECE/TRANS/WP.29/GRE/2011/58 superseding ECE/TRANS/WP.29/2011/77, clarifying the transitional provisions of Regulation No. 19 and moving installation provisions for front-fog lamps into Regulation No. 48. GRE adopted ECE/TRANS/WP.29/GRE/2011/58, not amended and requested the secretariat to submit it to WP.29 for consideration at its November 2011 session as draft Supplement 3 to 04 series to Regulation No. 19 and draft Supplement 8 to the 04 series to Regulation No. 48.

J. Regulation Nos. 98 and 112

Documentation: ECE/TRANS/WP.29/GRE/2011/52

27. GRE considered ECE/TRANS/WP.29/GRE/2011/52 from the GTB expert correcting the UV radiation requirements of LED modules and clarifying that they were of the "low UV" type. GRE adopted ECE/TRANS/WP.29/GRE/2011/52, not amended, and requested the secretariat to submit it to WP.29 and AC.1 for consideration at their March 2012 sessions, as part of draft Supplement 3 to the 01 series of Regulation No. 98 (see paras. 19, 20 and 35) and as part of draft Supplement 3 to the 01 series of Regulation No. 112 (see paras. 20 and 37).

K. Regulation Nos. 74 and 113

Documentation: ECE/TRANS/WP.29/GRE/2011/34
ECE/TRANS/WP.29/GRE/2011/65

28. The expert from Germany presented ECE/TRANS/WP.29/GRE/2011/65 superseding ECE/TRANS/WP.29/GRE/2011/34 and introducing Class A and B headlamps with LED. GRE adopted ECE/TRANS/WP.29/GRE/2011/65, as amended below, and requested the secretariat to submit it to WP.29 and AC.1 for consideration at their March 2012 sessions, as draft Supplement 7 to the 01 series of Regulation No. 74 and as part of draft Supplement 1 to the 01 series of Regulation No. 113 (see para. 38).

Paragraph 5.3.2.3. of Regulation No. 113, amend to read:

"5.3.2.3. The total objective luminous flux of all LED modules producing the passing beam shall be measured as described in paragraph 5. of Annex 12. The following minimum and maximum limits shall apply:

<table>
<thead>
<tr>
<th>Headlamps Class A</th>
<th>Headlamps Class B</th>
<th>Headlamps Class C</th>
<th>Headlamps Class D</th>
</tr>
</thead>
<tbody>
<tr>
<td>Passing beam minimum</td>
<td>150 lumen</td>
<td>350 lumen</td>
<td>500 lumen</td>
</tr>
<tr>
<td>Passing beam maximum</td>
<td>900 lumen</td>
<td>1000 lumen</td>
<td>2 000 lumen</td>
</tr>
</tbody>
</table>
VII. Draft Horizontal Reference Document for light-signalling devices (agenda item 6)

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

29. The GRE Chair introduced GRE-66-13 and GRE-66-14 as examples of use for the draft Horizontal Reference Document for light-signalling devices. He urged GRE experts to contribute to finalizing the proposal (ECE/TRANS/WP.29/GRE/2008/32) of the informal group on this subject chaired by France. GRE agreed to resume discussion on this agenda item at its March 2012 session.

VIII. Regulation No. 19 (Front fog lamps) (agenda item 7)

Documentation: ECE/TRANS/WP.29/GRE/2011/40
ECE/TRANS/WP.29/GRE/2011/41
ECE/TRANS/WP.29/GRE/2011/42
ECE/TRANS/WP.29/GRE/2011/47
Informal document GRE-66-18


Paragraph 6.4.1.4., amend to read:

"6.4.1.4. In the case of LED modules:

All measurements on front fog lamps equipped with LED module(s) shall be made at 6.3 V, 13.2 V or 28.0 V respectively, if not otherwise specified within this Regulation. LED modules operated by an electronic light source control gear shall be measured with the input voltage as specified by the applicant, or with a supply and operating device which replace this control gear for the photometric test. The relevant input parameters (e.g. duty cycle, frequency, pulse shape, peak voltage) shall be specified and stated in the communication form, item 10.6., in Annex 1 to this Regulation.

The measured luminous intensity values shall be multiplied by a factor 0.7 prior to the check for compliance."

Annex 5, paragraph 1.1.2.5., renumber as paragraph 1.1.2.(g).
IX. Regulation No. 27 (Advance warning triangle) (agenda item 8)

Documentation: ECE/TRANS/WP.29/GRE/2011/46

31. GRE considered ECE/TRANS/WP.29/GRE/2011/46 tabled by the expert from GTB to update the test requirements. A number of experts wondered whether parts of private standards covered by copyrights could be reproduced in a Regulation. The GRE Chair agreed to seek guidance from WP.29 at its November 2011 session. GRE agreed to consider again ECE/TRANS/WP.29/GRE/2011/46 at its next session.

X. Regulation No. 65 (Special warning lamps) (agenda item 9)


32. GRE considered GRE-66-15 by the GTB expert superseding ECE/TRANS/WP.29/GRE/2011/50 and clarifying the requirements on partial systems. GRE also considered ECE/TRANS/WP.29/GRE/2011/43 by the GTB expert clarifying the type approval provisions. GRE adopted GRE-66-15 as reproduced in Annex IV and ECE/TRANS/WP.29/GRE/2011/43 not amended, and requested the secretariat to submit them to WP.29 and AC.1 for consideration at their March 2012 sessions as draft Supplement 8 to Regulation No. 65.

33. The SAE expert introduced ECE/TRANS/WP.29/GRE/2011/48 clarifying the execution of the design and test requirements. GRE noted a number of comments and agreed to reconsider ECE/TRANS/WP.29/GRE/2011/48 at its next session.

XI. Regulation No. 70 (Rear-marking plates for heavy duty vehicles) (agenda item 10)


34. The expert from GTB presented ECE/TRANS/WP.29/GRE/2011/51 on the simulated rainfall test requirements. The experts from Czech Republic and CLEPA introduced GRE-66-11 amending the scope of Regulation No. 70. GRE adopted ECE/TRANS/WP.29/GRE/2011/51 and GRE-66-11, both as reproduced in Annex V, and requested the secretariat to submit them to WP.29 and AC.1 for consideration at their March 2012 session as draft Supplement 8 to the 01 series to Regulation No. 70.

XII. Regulation No. 98 (Headlamp with gas-discharge light sources) (agenda item 11)

Documentation: ECE/TRANS/WP.29/GRE/2011/44

35. GRE adopted ECE/TRANS/WP.29/GRE/2011/44 proposed by the expert from GTB to correct the test voltage requirements. GRE requested the secretariat to submit ECE/TRANS/WP.29/GRE/2011/44, not amended, to AC.1 and WP.29, for consideration at
their March 2012 sessions, as part of draft Supplement 3 to the 01 series of Regulation No. 98 (see paras. 19, 20 and 27).

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

Documentation: ECE/TRANS/WP.29/GRE/2011/35
ECE/TRANS/WP.29/GRE/2011/45
ECE/TRANS/WP.29/GRE/2011/54
ECE/TRANS/WP.29/GRE/2011/55
ECE/TRANS/WP.29/GRE/2011/64

36. GRE considered ECE/TRANS/WP.29/GRE/2011/35 by the expert from the People's Republic of China improving the test of resistance of lenses material to atmospheric agents. GRE noted a number of comments, requested GTB to carefully review this proposal and agreed to reconsider this issue at its next session.

37. GRE adopted three proposals tabled by the expert from GTB: ECE/TRANS/WP.29/GRE/2011/45 amending the conformity of production requirements, ECE/TRANS/WP.29/GRE/2011/54 amending the photometric requirements in the case of a LED module operating with electronic control gear and ECE/TRANS/WP.29/GRE/2011/55 revising the definition of "LED Modules". The secretariat introduced ECE/TRANS/WP.29/GRE/2011/64 correcting an editorial error in the 01 series of amendments. GRE adopted ECE/TRANS/WP.29/GRE/2011/45, ECE/TRANS/WP.29/GRE/2011/54, ECE/TRANS/WP.29/GRE/2011/55 and ECE/TRANS/WP.29/GRE/2011/64, all not amended, and requested the secretariat to submit them to WP.29 and AC.1 for consideration at their March 2012 session as part of draft Supplement 3 to the 01 series of Regulation No. 112 (see para. 20 and 27).

XIV. Regulation No. 113 (Headlamps emitting a symmetrical passing beam) (agenda item 13)

Documentation: ECE/TRANS/WP.29/GRE/2011/56

38. GRE considered ECE/TRANS/WP.29/GRE/2011/56 by the GTB expert revising the definition of "LED Modules". GRE adopted ECE/TRANS/WP.29/GRE/2011/56, not amended, and requested the secretariat to submit it to WP.29 and AC.1 for consideration at their March 2012 session as part of draft Supplement 1 to the 01 series of amendments of Regulation No. 113 (see para. 28).

XV. Regulation No. 123 (Adaptive front-lighting systems (AFS)) (agenda item 14)

Documentation: ECE/TRANS/WP.29/GRE/2011/57

39. GRE considered ECE/TRANS/WP.29/GRE/2011/57 proposed by the GTB expert to revise the definition of "LED Modules". GRE adopted ECE/TRANS/WP.29/GRE/2011/57, not amended, and requested the secretariat to submit it to WP.29 an AC.1 for consideration at their March 2012 session as part of draft Supplement 3 to the 01 series of amendments of Regulation No. 123.
XVI. **Conspicuity of motorcycles (agenda item 15)**

40. GRE agreed to keep this item in the agenda of the next session awaiting new proposals on this subject.

XVII. **Other business (agenda item 16)**

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

*Documentation: ECE/TRANS/WP.29/2011/47  
ECE/TRANS/WP.1/2011/4  
Informal document GRE-66-16*

41. GRE noted that the Working Party on Road Traffic safety (WP.1) would consider ECE/TRANS/WP.1/2011/4 based on ECE/TRANS/WP.29/2011/47 at its next session on 19-21 March 2012 in Geneva. GRE noted that most of the changes introduced to ECE/TRANS/WP.29/2011/47 in ECE/TRANS/WP.1/2011/4, as shown in GRE-66-16 were editorial.

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

*Documentation: ECE/TRANS/WP.29/2011/114  
ECE/TRANS/WP.29/2011/90  
ECE/TRANS/WP.29/1091/Add.1*

42. GRE noted that WP.29 had adopted, at its June 2011 session, the guidelines on establishing requirements for high-priority warning signals (ECE/TRANS/WP.29/2011/90) as an annex to the report (ECE/TRANS/WP.29/1091/Add.1). The secretariat reported that the public consultation on the strategic package on ITS deployment had been completed and that upon consolidation of all the comments, the strategic package would be complemented by a road map (ECE/TRANS/WP.29/2011/114) to be considered by WP.29 at its November 2011 session and by the Inland Transport Committee (ITC) at its February 2012 session.

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

*Documentation: ECE/TRANS/WP.29/2011/146*

43. The secretariat informed GRE that WP.29 would consider, at its November 2011 session, ECE/TRANS/WP.29/2011/146 on its role on “pillar 3” of the decade of action for road safety 2011-2020 dealing with “safer vehicles”.

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

44. The secretariat informed GRE that the IWVTA informal group intended to revise the 1958 Agreement to make it more attractive to emerging countries. GRE noted that the target was to present, at the November 2011 session of WP.29, an interim report showing a possible road map, for a possible adoption of the revision of the 1958 Agreement by WP.29 at its June 2012 session.
E. **Guidance on extension and revisions of approvals**

*Documentation:* ECE/TRANS/WP.29/2010/111  
Informal documents WP.29-153-26 and WP.29-153-27  

45. GRE noted that WP.29 had adopted ECE/TRANS/WP.29/2010/111 and had removed WP.29-153-26 and WP.29-153-27 from its agenda. GRE agreed to remove this topic from the agenda.

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


46. GRE noted that ECE/TRANS/WP.29/2011/48/Rev.1, superseding ECE/TRANS/WP.29/2011/48 and ECE/TRANS/WP.29/2011/48/Add.1, could be adopted at the November 2011 session of WP.29 and that further amendments linked to the revision of the 1958 Agreement, presently discussed by the IWVTA group, could be incorporated in a second step. GRE agreed to remove this topic from the agenda.

G. **Proposal for amendments to Regulation No. 50 (Position, stop, direction indicator lamps for mopeds and motorcycles)**

*Documentation:* Informal document GRE-66-03  

47. The expert from Japan introduced GRE-66-03 correcting an error introduced in Revision 2 of Regulation No. 50. GRE adopted GRE-66-03 as reproduced in Annex VI and requested the secretariat to submit it to WP.29 an AC.1 for consideration at their March 2012 session as draft Corrigendum 1 to Revision 2 of Regulation No. 50.

H. **Proposal for amendments to Regulation No. 10 (Electromagnetic compatibility)**

*Documentation:* Informal document GRE-66-04  

48. The expert from Japan introduced GRE-66-04 correcting the 04 series of amendments to Regulation No. 10. GRE agreed to consider again this proposal at its March 2012 session and requested the secretariat to make GRE-66-04 available with an official symbol.

I. **Proposal for amendments to Regulation No. 119 (Cornering lamps)**

*Documentation:* Informal document GRE-66-05  

49. The expert from GTB introduced GRE-66-05 clarifying Regulation No. 119. GRE adopted GRE-66-05 as reproduced in Annex VII and requested the secretariat to submit it to WP.29 an AC.1 for consideration at their March 2012 session, as draft Supplement 1 to the 01 series of amendments to Regulation No. 119.
J. Proposal for amendments to Regulation No. 121 (Identification of controls, tell-tales and indicators)

Documentation: ECE/TRANS/WP.29/GRSG/2010/20  
                  ECE/TRANS/WP.29/GRSG/79

50. Following the request from the Working Party on General Safety (GRSG) (ECE/TRANS/WP.29/GRSG/79, para. 31), GRE proposed to delete items 45 and 47 from ECE/TRANS/WP.29/GRSG/2010/20. Furthermore it was proposed using "Automatic main-beam switching" instead of "Automatic upper beam switching" in item 46. The secretariat was requested to inform GRSG about this GRE position.

XVIII. Direction for future GRE work (agenda item 17)

A. Work tasks of GRE

51. No document was provided under this agenda item.

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


52. The GTB experts gave presentations about the programme of work of the GTB task forces (GRE-66-19, GRE-66-20 and GRE-66-21).

XIX. Election of officers (agenda item 18)

53. In compliance with Rule 37 of the Rules of Procedure (TRANS/WP.29/690 and Amend.1), GRE called for the election of officers. The representatives of the Contracting Parties, present and voting, re-elected unanimously Mr. M. Gorzkowski (Canada) as Chair of the GRE sessions scheduled for the year 2012.

XX. Provisional agenda for the next session

54. GRE did not consider the provisional agenda for the sixty-seventh session of GRE, scheduled to be held from 26 (a.m.) to 29 (p.m.) March 2012. It was agreed that the Chair, with the secretariat, would propose a draft agenda. GRE noted that the deadline for submission of official documents to the UNECE secretariat was 30 December 2011, twelve weeks prior to the session.
Annex I

List of informal documents considered during the session

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

<table>
<thead>
<tr>
<th>No.</th>
<th>(Author) Title</th>
<th>Follow-up</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>(GTB) Proposal to update ECE/TRANS/WP.29/GRE/2009/32</td>
<td>(f)</td>
</tr>
<tr>
<td>2</td>
<td>(Japan) Proposal for Corrigendum 1 to Supplement 7 to the 04 series of amendments to Regulation No. 48 (Installation of lighting and light-signalling devices)</td>
<td>(a)</td>
</tr>
<tr>
<td>3</td>
<td>(Japan) Proposal for Corrigendum 1 to Supplement 12 to the 00 series of amendments of Regulation No. 50 (Position, stop, direction indicator lamps for mopeds and motorcycles)</td>
<td>(a)</td>
</tr>
<tr>
<td>4</td>
<td>(Japan) Proposal for Corrigendum to the 04 series of amendments to Regulation No. 10 (Electromagnetic compatibility)</td>
<td>(c)</td>
</tr>
<tr>
<td>5</td>
<td>(GTB) Proposal for Corrigendum to Supplement 4 to the 00 series and to the 01 series of Regulation No. 119 (Cornering lamps)</td>
<td>(a)</td>
</tr>
<tr>
<td>6</td>
<td>(GTB) Proposal for Corrigendum to ECE/TRANS/WP.29/2011/98 based on ECE/TRANS/WP.29/GRE/2011/20 - (Proposal for Supplement 8 to the 04 series of amendments to Regulation No. 48)</td>
<td>(e)</td>
</tr>
<tr>
<td>7</td>
<td>(Japan) Proposal for Corrigendum 2 to Supplement 5 to the 04 series of amendments to Regulation No. 48 (Installation of lighting and light-signalling devices)</td>
<td>(e)</td>
</tr>
<tr>
<td>8</td>
<td>(OICA) Proposal for amendments to ECE/TRANS/WP.29/GRE/2011/60 - Regulation No. 23 (Reversing lamps)</td>
<td>(f)</td>
</tr>
<tr>
<td>9</td>
<td>(OICA) Proposal for amendments to document ECE/TRANS/WP.29/GRE/2011/59 – Regulation No. 48 (Installation of lighting and light-signalling devices)</td>
<td>(a)</td>
</tr>
<tr>
<td>10</td>
<td>(OICA) Proposal for amendments to ECE/TRANS/WP.29/GRE/2011/61 – Regulation No. 48 (Installation of lighting and light-signalling devices)</td>
<td>(f)</td>
</tr>
<tr>
<td>11</td>
<td>(Czech Republic and CLEPA) Proposal for Corrigendum 1 to Rev.1 of Regulation No. 70 (Rear marking plates for heavy and long vehicles)</td>
<td>(b)</td>
</tr>
<tr>
<td>12-Rev. 1</td>
<td>(Secretariat) New documents to the provisional Agenda</td>
<td>(f)</td>
</tr>
<tr>
<td>13</td>
<td>(Canada) Draft in progress of Regulation No. 87 adopted to the HRD environment</td>
<td>(d)</td>
</tr>
<tr>
<td>14</td>
<td>(Canada) Draft in progress for the Horizontal Reference Document</td>
<td>(d)</td>
</tr>
<tr>
<td>15</td>
<td>(GTB) Proposal for Supplement 8 to the 00 series of amendments to Regulation No. 65</td>
<td>(a)</td>
</tr>
<tr>
<td>16</td>
<td>(Secretariat) Amendments to the Convention on Road Traffic (Vienna 1968) - ECE/TRANS/WP.1/2011/4 vs ECE/TRANS/WP.29/2011/47</td>
<td>(f)</td>
</tr>
<tr>
<td>17</td>
<td>(Poland) Proposal for Supplement 1 to the 05 series of amendments –</td>
<td>(c)</td>
</tr>
<tr>
<td>No.</td>
<td>(Author) Title</td>
<td>Follow-up</td>
</tr>
<tr>
<td>-----</td>
<td>-------------------------------------------------------------------------------</td>
<td>-----------</td>
</tr>
<tr>
<td>18</td>
<td>(France) Proposal for corrigendum to the 04 series of amendments – Regulation No. 19 (Front fog lamps)</td>
<td>(a)</td>
</tr>
<tr>
<td>19</td>
<td>(GTB) GTB Working Group light Sources - Status September 2011</td>
<td>(f)</td>
</tr>
<tr>
<td>20</td>
<td>(GTB) Automotive Front Lighting - Roadmap GTB Front Lighting WG</td>
<td>(f)</td>
</tr>
<tr>
<td>21</td>
<td>(GTB) The GTB Glare and Visibility Study</td>
<td>(f)</td>
</tr>
<tr>
<td>22</td>
<td>(Secretariat) Summary of decisions on documents considered at the 66th session of GRE and follow-up</td>
<td>(f)</td>
</tr>
</tbody>
</table>

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

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

**Notes:**

(a) Submitted with no change to WP.29 for consideration.
(b) Submitted with changes to WP.29 for consideration.
(c) Resume consideration on the basis of an official document.
(d) Kept as reference document/continue consideration.
(e) Revised proposal for the next session
(f) Consideration completed or to be superseded.
Annex II

Amendments to Regulation No. 23

Amendments to ECE/TRANS/WP.29/GRE/2011/60 are shown in bold characters (see para. 21 of the report).

Paragraph 0, the text of footnote 1, amend to read:

"1 As defined in the Consolidated Resolution on the Construction of Vehicles (R.E.3.), document ECE/TRANS/WP.29/78/Rev.2, para. 2"

New paragraph 1.2., footnote * should be deleted

New paragraph 1.4. (former paragraph 1.3.), amend to read:

"1.4. "Reversing/manoeuvring lamps of different types" .... .... change of type."

New paragraph 6.2.2., second line, remove the square brackets around "0.5"

Paragraph 11., amend to read:

"11. Production definitively discontinued

If the holder of the approval completely ceases to manufacture a type of reversing lamp or manoeuvring lamps approved in accordance with this Regulation, ...."

Annex 2.
Delete the amendments to Figures 1 to 3

New Figure 4, amend to read:

"Figure 4
Marking for a manoeuvring lamps

\[
\begin{align*}
\text{ML} & \quad \uparrow \ a/3 \\
\text{E}_1 & \quad \uparrow \ a/2 \\
\text{002440} & \quad \uparrow \ a/3
\end{align*}
\]

\(a = 5 \text{ mm min}\)

The device bearing the approval mark shown above is a manoeuvring lamp approved in Germany (E1) pursuant to Regulation No. 23 under approval number 2440.

The approval number indicates that the approval was granted in accordance with the requirements of Regulation No. 23 in its original form.
Note: The approval number and additional symbol shall be placed close to the circle and either above or below the letter “E” or to the left or right of that letter. The digits of the approval number and of the production serial number shall be on the same side of the letter “E” and face the same direction. The use of Roman numerals as approval numbers should be avoided so as to prevent any confusion with other symbols.”
Annex III

Amendments to Regulation No. 48

Adopted amendments to ECE/TRANS/WP.29/GRE/2011/61 are shown in bold (see para. 23 of the report).

**Paragraph 4.2., amend to read:**

"4.2. An approval number shall be assigned to each type approved. Its first two digits (at present 06, corresponding to the 06 series of amendments) shall indicate the series …"

**Paragraphs 6.24. to 6.24.3., amend to read:**

"6.24. Exterior courtesy lamp

6.24.1. Presence

Optional on motor vehicles

6.24.2. Number

Two, however further exterior courtesy lamps to illuminate steps and/or door handles are permitted. Each door handle or step shall be illuminated by not more than one lamp.

6.24.3. Arrangement

No special requirement, however the requirements of paragraph 6.24.9.3. apply"

**Paragraphs 6.24.9. and 6.24.9.1., amend to read:**

"6.24.9. Other requirements

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

(a) The engine …

…"

**Paragraphs 6.24.9.3, amend to read:**

"6.24.9.3. The technical service shall, to the satisfaction of the authority responsible for type-approval, perform a visual test to verify that there is no direct visibility of the apparent surface of the exterior courtesy lamps, if viewed by an observer moving on the boundary of a zone on a transverse plane 10 m from the front of the vehicle, a transverse plane 10 m from the rear of the vehicle, and two longitudinal planes 10 m from each side of the vehicle; these four planes to extend from 1 m to 3 m above and parallel to the ground as shown in Annex 13.

At the request of the applicant and with the consent of the Technical Service this requirement may be verified by a drawing or simulation."

**Annex 1, new paragraph 9.27., amend to read:**

"9.27. Exterior courtesy lamps: yes/no 1/"
"Annex 2

Arrangements of approval marks

Model A

(See paragraph 4.4. of this Regulation)

\[
\begin{array}{c}
\text{a} = 8 \text{ mm min.} \\
\text{The above … Regulation No. 48 as amended by the 06 series of amendments. The approval number indicates that the approval was granted in accordance with the requirements of Regulation No. 48 as amended by the 06 series of amendments.}
\end{array}
\]

Model B

(See paragraph 4.5. of this Regulation)

\[
\begin{array}{c}
\text{a} = 8 \text{ mm min.} \\
\text{The above … Regulation No. 48 as amended by the 06 series of amendments and Regulation No. 33 still in its original form.} \\
\end{array}
\]

"Annex 13, amend to read:

"Annex 13

Observing area towards the apparent surface of manoeuvring and exterior courtesy lamps"
Annex IV

Amendments to Regulation No. 65

GRE-66-15 superseding ECE/TRANS/WP.29/GRE/2011/50 adopted as follows. The changes to the Regulation are shown in bold characters (see para. 32 of the report).

Paragraph 1.1.1., amend to read:

"1.1.1. "Rotating or stationary flashing lamp means" a special warning lamp emitting light intermittently all around its vertical axis (Category T or HT)."

Insert a new paragraph 1.1.4., to read:

"1.1.4. "Half bar" means a special warning lamp with one or more optical systems emitting light intermittently from 135° left to 135° right relative to its horizontal reference axis, which is intended to be mounted on either the front or the rear of the vehicle."

Paragraph 1.8., amend to read:

"1.8. Reference axis of the special warning lamp means:

For a rotating or stationary flashing lamp (Category T), a vertical axis passing through the reference centre of the lamp;

For a directional flashing lamp (Category X) or a half bar (Category HT), a horizontal axis parallel to the median longitudinal plane of the vehicle.

The manufacturer of the special warning lamp shall indicate the position of the special warning lamp in relation to the reference axis."

Paragraph 4.4.1.3., amend to read:

"4.4.1.3. "T", "HT" or "X" according to the category of the unit, followed by "A" or "B" or "R" according to the colour of the unit (see paragraph 2.1. above)."

Paragraph 5.7., amend to read:

"5.7. A rotating or flashing special warning lamp device of Category T or of Category HT may consist of more than one optical system. In this case the requirements of Annex 5, paragraph 8. must be met. The lamp manufacturer must supply mounting information to ensure that the various units are correctly mounted on a vehicle."

Annex1, item 1, amend to read:

"1. Special warning lamp/rotating/stationary flashing lamp/directional flashing lamp/ complete bar/ half bar /blue/amber/red 2"

Annex 2, insert new examples of approval marks h) and i), to read:

"Annex 2

Examples of approval marks..."
g) Example for the specification of individual separate units comprising a special warning lamp of (Category T) "Rotating or stationary flashing lamp".

("identification mark" / n)

in a case of four units e.g.: (1/4) or (front left/4)

h) A half bar of a special warning lamp indicates that it has been approved in Germany (E1) under approval number 00815. The approval number shows that the approval was granted in accordance with the requirements of the Regulation in its original form and that it is a blue rotating or stationary flashing special warning lamp of class 1 (HTB 1).

i) A half bar of a special warning lamp indicates that it has been approved in Germany (E1) under approval number 00816. The approval number shows that the approval was granted in accordance with the requirements of the Regulation in its original form and that it is a amber rotating or stationary flashing special warning lamp of class 2 (HTA 2).

Annex 5, paragraph 7.2. (including the table), amend to read:

"7.2. The effective luminous intensities ($J_e$) within the relevant vertical angles for a special warning lamp (Category T) or (Category HT) shall be as specified in the table below:"

---

---
<table>
<thead>
<tr>
<th>Category T or Category HT</th>
<th>Colour</th>
<th>blue</th>
<th>amber</th>
<th>red</th>
</tr>
</thead>
<tbody>
<tr>
<td>Minimum value of the effective luminous intensity $J_e$, within the specified vertical angles and a horizontal angle of 360° around the reference axis</td>
<td>0° by day</td>
<td>120</td>
<td>230</td>
<td>120</td>
</tr>
<tr>
<td></td>
<td>0° by night</td>
<td>50</td>
<td>100</td>
<td>50</td>
</tr>
<tr>
<td>(a) In the case of Category T, a horizontal angle of 360° around the reference axis</td>
<td>± 4° by day</td>
<td>60</td>
<td>-</td>
<td>60</td>
</tr>
<tr>
<td></td>
<td>± 4° by night</td>
<td>25</td>
<td>-</td>
<td>25</td>
</tr>
<tr>
<td>(b) In the case of Category HT, a horizontal angle of minimum ± 135° relative to its horizontal reference axis</td>
<td>± 8° by day</td>
<td>-</td>
<td>170</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>± 8° by night</td>
<td>-</td>
<td>70</td>
<td>-</td>
</tr>
<tr>
<td>Maximum value of the effective luminous intensity $J_e$</td>
<td>Inside ± 2° by day</td>
<td>1 700</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Inside ± 2° by night</td>
<td>700</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Inside ± 8° by day</td>
<td>1 500</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Inside ± 8° by night</td>
<td>600</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Outside the above areas by day</td>
<td>1 000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Outside the above areas by night</td>
<td>300</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Annex V

Amendments to Regulation No. 70

ECE/TRANS/WP.29/GRE/2011/51 and GRE-66-11 adopted as follows. The changes to the Regulation are shown in bold characters (see para. 34. of the report).

Paragraph 1., amend to read:

1. Scope

This Regulation applies to rear marking plates for the following vehicles:

1.1. articulated vehicles of category M, classes II and III;
1.2. vehicles of categories N₂ with a maximum mass exceeding 7.5 tonnes and N₃, except tractors for semi-trailers;
1.3. vehicles of category O₁, O₂ and O₃ exceeding 8.0 m in length;
1.4. vehicles of category O₄.

1 Nothing in this Regulation shall prevent a party to the Agreement applying this Regulation from prohibiting the rear marking plates of certain class(es).
2 As defined in the Consolidated Resolution on the Construction of Vehicles (R.E.3.), document ECE/TRANS/WP.29/78/Rev.2, para. 2

Annex 8, paragraph 1.4.3, amend to read:

"1.4.3 The specimen shall then be subjected to simulated rainfall as described in paragraph 7.7. of EN 13422(2004) (Vertical road signs. Portable deformable warning devices and delineators. Portable road traffic signs. Cones and cylinders) and its coefficient of retro-reflection under this condition shall be not less than 90 per cent of the value obtained when measured in dry condition, as explained in paragraph 1.4.2. above.

It is possible to use nozzles other than those described in paragraph 7.7. of EN 13422(2004) provided that the same performance (e.g. water distribution on the surface of the test sample) of the simulated rainfall is achieved."
Annex VI

Amendments to Regulation No. 50

GRE-66-03 adopted as follows. The changes to the Regulation are shown in bold characters (see para. 47 of the report).

Annex 6, paragraph 4, amend to read:

"4. Measuring Procedure

Luminance measurements shall be made on a diffuse colourless surface with known diffuse reflection factor.1 The diffuse colourless surface shall have the dimensions of the registration plate or the dimension exceeding one measuring point. Its centre shall be placed in the centre of the positions of the measuring points.

This diffuse colourless surface(s) shall be placed in the position normally occupied by the registration plate and 2 mm in front of its holder.

Luminance measurements shall be made perpendicularly to the surface of the diffuse colourless surface with the tolerance of 5° in each direction at the points shown in paragraph 5. of this annex, each point representing a circular area of 25 mm in diameter.

The measured luminance shall be corrected for the diffuse reflection factor 1.0."

Annex VII

Amendments to Regulation No. 119

GRE-66-05 adopted as follows. The changes to the Regulation are shown in bold characters (see para. 49 of the report).

Existing paragraphs 8. to 8.2., delete and replace with a new paragraph 8., to read:

"8. Colour of light emitted

The colour of the light emitted inside the field of the light distribution grid defined in paragraph 2. of Annex 3 shall be white. For testing see Annex 4 to this Regulation. Outside this field, no sharp variations of colour shall be observed."

Annex 4, paragraph 1., amend to read:

"1) For checking the colorimetric characteristics, a source of light at a colour temperature of 2,856 K, corresponding to illuminant A of the international commission (CIE), shall be used. For lamps equipped with non-replaceable light sources (filament lamps and other), or light sources (replaceable or non-replaceable) operated together with an electronic light source control gear, the colorimetric characteristics should be verified with the light sources present in the lamp, in accordance with paragraph 7 of this Regulation."
### Annex VIII

#### GRE informal groups

<table>
<thead>
<tr>
<th>Informal group</th>
<th>Chair</th>
<th>Secretary</th>
</tr>
</thead>
<tbody>
<tr>
<td>New Regulation for light-signalling devices</td>
<td>Mr. C. Pichon (France)</td>
<td>GTB</td>
</tr>
<tr>
<td></td>
<td>Tel: +33 1 69801756</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Fax: +33 1 69801707</td>
<td></td>
</tr>
<tr>
<td></td>
<td>E-mail: <a href="mailto:christian.pichon@utac.com">christian.pichon@utac.com</a></td>
<td></td>
</tr>
</tbody>
</table>