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Working Party on Lighting and Light-Signalling

Eighty-fifth session

Geneva, 26-29 October 2021

Report of the Working Party on Lighting and Light-Signalling on its eighty-fifth session

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I. Attendance

1. The Working Party on Lighting and Light-Signalling (GRE) held its eighty-fifth session from 26 to 29 October 2021 in Geneva. The meeting was chaired by Mr. T. Kärkkäinen (Finland). Experts from the following countries participated in the work according to Rule 1 (a) of the Rules of Procedure of the World Forum for Harmonization of Vehicle Regulations (WP.29) (ECE/TRANS/WP.29/690/Rev.2): Australia, Belgium, Brazil, Canada, China, Cyprus, Czechia, Finland, France, Germany, Hungary, India, Italy, Japan, Latvia, Netherlands, Poland, Republic of Korea, Russian Federation, Serbia, South Africa, Spain, United Kingdom of Great Britain and Northern Ireland and United States of America. An expert from the European Commission (EC) participated. Experts from the following non-governmental organizations also took part in the session: European Association of Automotive Suppliers (CLEPA), International Automotive Lighting and Light Signalling Expert Group (GTB), International Electrotechnical Commission (IEC), International Motorcycle Manufacturers Association (IMMA), International Organization of Motor Vehicle Manufacturers (OICA), Society of Automotive Engineers (SAE).

II. Adoption of the agenda (agenda item 1)

Documentation: ECE/TRANS/WP.29/GRE/2021/9, Informal documents GRE-85-01, GRE-85-08, GRE-85-17, GRE-85-21

- 2. GRE considered and adopted the agenda (ECE/TRANS/WP.29/GRE/2021/9), as reproduced in GRE-85-01 together with the informal documents distributed during the session. GRE also noted the running order proposed by the Chair (GRE-85-08) and the guidelines on participation at virtual meeting (GRE-85-17).
- 3. The list of informal documents is contained in Annex I to this report. The list of GRE informal groups is reproduced in Annex III to this report.
- 4. GRE took note of the highlights of the June 2021 session of WP.29 (GRE-85-21).

III. 1998 Agreement – UN Global Technical Regulations: Development (agenda item 2)

5. No new information was reported under this item.

IV. 1997 Agreement – Rules: Development (agenda item 3)

6. No proposals were considered under this item.

V. Simplification of lighting and light-signalling UN Regulations (agenda item 4)

A. Activities of the Informal Working Group "Simplification of the Lighting and Light-Signalling Regulations"

Documentation: Informal document GRE-85-18

7. GRE took note of the progress report of the Informal Working Group "Simplification of the Lighting and Light-Signalling Regulations" (IWG SLR) (GRE-85-18).

¹ The meeting was held in a hybrid format. On 29 October 2021, simultaneous interpretation was provided into the official ECE languages.

B. UN Regulation No. 148 (Light-signalling devices)

Documentation: ECE/TRANS/WP.29/GRE/2021/11,

ECE/TRANS/WP.29/GRE/2021/13, Informal documents GRE-85-03,

GRE-85-09, GRE-85-11, GRE-85-13, GRE-85-30

8. The expert from IWG SLR introduced a number of clarifications and corrections (ECE/TRANS/WP.29/GRE/2021/11). GRE adopted this proposal, as amended by GRE-85-11, and requested the secretariat to submit it for consideration and vote at the March 2022 sessions of WP.29 and AC.1 as draft Supplement 4 to the original series of amendments to UN Regulation No. 148.

- 9. The expert from IWG SLR presented a draft new series of amendments to UN Regulation No. 148 (ECE/TRANS/WP.29/GRE/2021/13, GRE-85-03 and GRE-85-13). The expert from IEC proposed updating the references to standard IEC 60809 (GRE-85-09). GRE adopted the proposal, as amended by GRE-85-09 and GRE-85-13, and requested the secretariat to submit it for consideration and vote at the June 2022 sessions of WP.29 and AC.1 as draft 01 series of amendments to UN Regulation No. 148.
- 10. The expert from EC held the view that contracting parties should not be obliged to indefinitely accept type approvals issued to the preceding series of amendments. To introduce a deadline for such acceptance, he proposed an alternative transitional provision (GRE-85-30). Some GRE experts pointed out that the installation UN Regulations Nos. 48, 53, 74 and 86 would be more appropriate for that purpose, rather than the device UN Regulations Nos. 148, 149 and 150. GRE requested IWG SLR to consider the issue and to report back to GRE at its next session in April 2022.

C. UN Regulation No. 149 (Road illumination devices)

Documentation: ECE/TRANS/WP.29/GRE/2021/12,

ECE/TRANS/WP.29/GRE/2021/14, Informal documents GRE-85-04,

GRE-85-09, GRE-85-14, GRE-85-30

- 11. GRE considered clarifications and corrections that were prepared by IWG SLR (ECE/TRANS/WP.29/GRE/2021/12). GRE adopted the document and requested the secretariat to submit it for consideration and vote at the March 2022 sessions of WP.29 and AC.1 as draft Supplement 5 to the original series of amendments to UN Regulation No. 149.
- 12. The expert from IWG SLR introduced a proposal for a new series of amendments to UN Regulation No. 149 (ECE/TRANS/WP.29/GRE/2021/14, GRE-85-04 and GRE-85-14). The expert from IEC proposed updating the references to standard IEC 60809 (GRE-85-09). GRE adopted ECE/TRANS/WP.29/GRE/2021/14, as amended by GRE-85-09 and GRE-85-14, and requested the secretariat to submit it for consideration and vote at the June 2022 sessions of WP.29 and AC.1 as draft 01 series of amendments to UN Regulation No. 149.
- 13. For reasons mentioned at the previous session (GRE-84-28), the expert from Poland was not in a position to support the IWG SLR proposal. GRE also recalled the alternative transitional provision in GRE-85-30 and requested IWG SLR to consider it and to report back to GRE at its next session in April 2022 (see paragraph 10 above).
- The expert from Germany wondered if it would be acceptable to drive, for a limited time, with one headlamp (passing beam) of the matched pair, as defined in paragraph 4.18. of ECE/TRANS/WP.29/GRE/2021/14. He recalled that, under the current requirements for periodical technical inspections in the European Union (e.g. paragraph. 4.1.1 (a) of directive 2014/45/EU), a non-working headlamp was a minor defect which would not impede passing inspection. He added that footnote (a) to paragraph ECE/TRANS/WP.29/GRE/2021/14 might lead to an expectation that, in the worst-case scenario with one remaining headlamp of the matched pair, only 50 per cent of luminous intensity would be reached in some elements instead of 100 per cent for one headlamp. According to the expert, this could affect the assessment of roadside inspections and periodical technical inspections. GRE requested IWG SLR to address the question raised by the expert from Germany.

D. UN Regulation No. 150 (Retro-reflective devices)

Documentation: ECE/TRANS/WP.29/GRE/2021/15, Informal documents GRE-85-05,

GRE-85-15 and GRE-85-30

15. GRE addressed a proposal for a new 01 series of amendments to UN Regulation No. 150 that was prepared by IWG SLR ECE/TRANS/WP.29/GRE/2021/15 and GRE-85-05). GRE adopted the proposal, as amended by GRE-85-15, and requested the secretariat to submit it for consideration and vote at the June 2022 sessions of WP.29 and AC.1 as draft 01 series of amendments to UN Regulation No. 150. GRE recalled the alternative transitional provision in GRE-85-30 and requested IWG SLR to consider it and to report back to GRE at its next session in April 2022 (see paragraph 10 above).

E. Simplification of UN Regulations Nos. 48, 53, 74 and 86

Documentation: ECE/TRANS/WP.29/GRE/2020/8/Rev.2,

ECE/TRANS/WP.29/GRE/2021/16, ECE/TRANS/WP.29/GRE/2021/17, ECE/TRANS/WP.29/GRE/2021/19, ECE/TRANS/WP.29/GRE/2021/20, ECE/TRANS/WP.29/GRE/2021/21,

ECE/TRANS/WP.29/GRE/2021/22, Informal documents GRE-85-12,

GRE-85-19, GRE-85-23, GRE-85-24, GRE-85-29

- 16. The expert of IWG SLR proposed a new Supplement to the 06, 07 and 08 series of amendments to UN Regulation No. 48 which introduced an objective value to define the visibility of the red light towards the front and white light towards the rear of the vehicle. He also made further editorial corrections (ECE/TRANS/WP.29/GRE/2021/16). The expert from Germany suggested modifications (GRE-85-23).
- 17. GRE adopted ECE/TRANS/WP.29/GRE/2021/16, as amended by GRE-85-23, and requested the secretariat to submit it for consideration and vote at the June 2022 sessions of WP.29 and AC.1 as draft Supplement 16 to the 06 series of amendments, draft Supplement 3 to the 07 series of amendments and draft Supplement 1 to the 08 series of amendments to UN Regulation No. 48.
- 18. GRE considered a proposal for a Supplement to the 03, 04 and 05 series of amendments to UN Regulation No. 48 that introduced references to the headlamp classes and a performance-oriented criterion for the visibility of red light to the front and white light to the rear of the vehicle (ECE/TRANS/WP.29/GRE/2021/17, GRE-85-12).
- 19. Subject to reservation of the expert from Germany, GRE adopted ECE/TRANS/WP.29/GRE/2021/17 subject to the following amendments:
- those in GRE-85-12;
- removing the square brackets and keeping the text inside;
- adding paragraph 6.26.9.2 from ECE/TRANS/WP.29/GRE/2021/16 to parts I.B and I.C of ECE/TRANS/WP.29/GRE/2021/17.
- 20. GRE requested the secretariat to submit the proposal for consideration and vote at the June 2022 sessions of WP.29 and AC.1 as draft Supplement 8 to the 03 series of amendments, draft Supplement 21 to the 04 series of amendments and draft Supplement 16 to the 05 series of amendments to UN Regulation No. 48.
- 21. The expert from EC recalled the earlier discussion reflected in paragraph 10 above and requested that a draft transitional provision to UN Regulation No. 48 be developed, which would introduce a deadline for acceptance of type approvals issued to the preceding series of amendments.
- 22. GRE addressed proposals by IWG SLR for new supplements to the 01 series of amendments (ECE/TRANS/WP.29/GRE/2021/19) and to the 02 and 03 series of amendments (ECE/TRANS/WP.29/GRE/2021/20) to UN Regulation No. 53 that added

references to the headlamp classes. The expert from Germany tabled additional proposals (GRE-85-24). GRE invited the expert of Germany to convert GRE-85-24 into a working document for consideration at the next session.

- 23. Subject to reservation of the expert from Germany, GRE adopted ECE/TRANS/WP.29/GRE/2021/19 and requested the secretariat to submit them for consideration and vote at the June 2022 sessions of WP.29 and AC.1 as draft Supplement 23 to the 01 series of amendments to UN Regulation No. 53.
- 24. Subject to reservation of the expert from Germany, GRE also adopted ECE/TRANS/WP.29/GRE/2021/20 and requested the secretariat to submit it for consideration and vote at the June 2022 sessions of WP.29 and AC.1 as draft Supplement 6 to the 02 series of amendments and draft Supplement 3 to the 03 series of amendments to UN Regulation No. 53.
- 25. The expert from IWG SLR proposed introducing references to the headlamp classes into the 01 and 02 series of amendments to UN Regulation No. 74 (ECE/TRANS/WP.29/GRE/2021/21). GRE adopted the proposal and requested the secretariat to submit it for consideration and vote at the June 2022 sessions of WP.29 and AC.1 as draft Supplement 14 to the 01 series of amendments and draft Supplement 2 to the 02 series of amendments to UN Regulation No. 74.
- 26. The expert from IWG SLR also proposed introducing references to the headlamp classes into the 01 and 02 series of amendments to UN Regulation No. 86 (ECE/TRANS/WP.29/GRE/2021/22). GRE adopted the proposal and requested the secretariat to submit it for consideration and vote at the June 2022 sessions of WP.29 and AC.1 as draft Supplement 4 to the 01 series of amendments and draft Supplement 1 to the 02 series of amendments to UN Regulation No. 86.
- 27. GRE stressed that the adopted amendments to UN Regulations Nos. 48, 53, 74, 86, 148, 149 and 150, as reflected in paragraphs 9, 12, 15, 17, 20, 23–26, 31 and 33, should be submitted as a package to the June 2022 sessions of WP.29 and AC.1. GRE agreed to review these proposals at its next session in April 2022.
- 28. GRE noted that so far IWG SLR had not been able to reconcile different positions on the proposal for headlamp levelling (ECE/TRANS/WP.29/GRE/2020/8/Rev.2, GRE-85-19, GRE-85-29) and decided to revert to this issue at the next session.

VI. UN Regulation Nos. 37 (Filament light sources), 99 (Gas discharge light sources), 128 (Light emitting diodes light sources) and the Consolidated Resolution on the common specification of light source categories (agenda item 5)

Documentation: ECE/TRANS/WP.29/GRE/2021/24

29. The expert from GTB introduced a draft amendment to the Consolidated Resolution on the common specification of light source categories (R.E.5) (ECE/TRANS/WP.29/GRE/2021/24). GRE noted that there were no associated amendments to UN Regulations Nos. 37, 99 and 128. GRE adopted this proposal and requested the secretariat to submit it for consideration and vote at the March 2022 session of WP.29 as draft amendment 8 to R.E.5.

VII. UN Regulation No. 48 (Installation of lighting and lightsignalling devices) (agenda item 6)

A. Proposals for amendments to the latest series of amendments

Documentation: ECE/TRANS/WP.29/GRE/2020/5/Rev.2,

ECE/TRANS/WP.29/GRE/2021/18, Informal documents GRE-85-16, GRE-85-20, GRE-85-25, GRE-85-26, GRE-85-32, GRE-85-33

- 30. The expert of GTB introduced an updated proposal with the aim to allow for projection of driver assistance symbols, on the road ahead of the vehicle, as part of the adaptive driving beam. This proposal was submitted in a package with an amendment to UN Regulation No. 149 (ECE/TRANS/WP.29/GRE/2021/18, GRE-85-20). The experts from Japan and SAE suggested several modifications (GRE-85-25 and GRE-85-32). The expert from the United Kingdom of Great Britain and Northern Ireland pointed out challenges for the type approval authorities when approving the driver assistance projections.
- 31. GRE adopted ECE/TRANS/WP.29/GRE/2021/18, as amended by GRE-85-33 and subject to removal of square brackets, and requested the secretariat to submit it for consideration and vote at the June 2022 sessions of WP.29 and AC.1 as part of draft Supplement 16 to the 06 series of amendments, of draft Supplement 3 to the 07 series of amendments, of draft Supplement 1 to the 08 series of amendments and of the draft 01 series of amendments to UN Regulation No. 149.
- 32. The experts from France and Germany presented a revised proposal that allowed the use of manufacturer logos inside the illuminant surface of signalling lamps (ECE/TRANS/WP.29/GRE/2020/5/Rev.2, GRE-85-16 and GRE-85-26).
- 33. Subject to reservations of the expert from the Netherlands and EC, GRE adopted ECE/TRANS/WP.29/GRE/2020/5/Rev.2, as amended by GRE-85-26, and requested the secretariat to submit it for consideration and vote at the June 2022 sessions of WP.29 and AC.1 as part of draft Supplement 16 to the 06 series of amendments, of draft Supplement 3 to the 07 series of amendments, of draft Supplement 1 to the 08 series of amendments and of the draft 01 series of amendments to UN Regulation No. 148.

B. Proposals for new series of amendments to UN Regulation No. 48

Documentation: Informal documents GRE-85-28 and GRE-85-31

34. GRE took note of the first activities of the Special Interest Group (SIG) on park conditions and an answer-back signal (GRE-85-28). The expert from OICA raised a number of concerns and questions on the issue (GRE-85-31). GRE invited the SIG Co-Chairs (Finland and the Netherlands) to convene additional meetings of SIG with the aim to prepare a proposal for the next session of GRE.

VIII. Other UN Regulations (agenda item 7)

A. UN Regulation No. 10 (Electromagnetic compatibility)

Documentation: ECE/TRANS/WP.29/GRE/2021/10, Informal documents GRE-85-06, GRE-85-07, GRE-85-10

- 35. The expert from the Czechia, supported by the Task Force on Electromagnetic Compatibility (TF EMC), proposed to clarify the reference point determination for category L_6 and L_7 vehicles in paragraph 3.3. and to correct Figure 1 in Annex 4, Appendix (ECE/TRANS/WP.29/GRE/2021/10). GRE adopted the proposal, as amended by GRE-85-06, and requested the secretariat to submit it for consideration and vote at the March 2022 sessions of WP.29 as draft Supplement 2 to the 06 series of amendments to UN Regulation No. 10.
- 36. GRE took note of the TF EMC status report (GRE-85-10) as well as of the current working draft of a new series of amendments to UN Regulation No. 10 (GRE-85-07). GRE invited all experts to study the draft and send their comments to TF EMC. Given the importance of the EMC-related activities, GRE agreed that in 2022 TF EMC should be upgraded to an Informal Working Group on Electromagnetic Compatibility (IWG EMC). GRE invited experts from contracting parties to nominate a Chair for the future IWG EMC

and requested TF EMC to prepare draft Terms of Reference of IWG EMC for consideration at the next session.

B. UN Regulation No. 53 ((Installation of lighting and light-signalling devices for L₃ vehicles)

Documentation: ECE/TRANS/WP.29/GRE/2021/23, Informal document GRE-85-27

37. GRE considered a proposal that had been prepared by the expert from IMMA with the aim to clarify the electrical connection requirements for the white front position lamp reciprocally incorporated with the front direction indicator, in line with the corresponding provisions in UN Regulation No. 48 (ECE/TRANS/WP.29/GRE/2021/23). GRE adopted the proposal, as amended by GRE-85-27, and requested the secretariat to submit it for consideration and vote at the March 2022 sessions of WP.29 as draft Supplement 22 to the 01 series of amendments, draft Supplement 5 to the 02 series of amendments and draft Supplement 2 to the 03 series of amendments to UN Regulation No. 53.

IX. Other business (agenda item 8)

A. Development of the International Whole Vehicle Type Approval

Documentation: Informal document GRE-85-02

38. WP.29 noted that, at the WP.29 request, IWG SLR and IWG for the Database for the Exchange of Type Approval documentation (IWG DETA) had developed a proposal related to the use of DETA in the context of the Unique Identifier (UI) (GRE-85-02).

B. Amendments to the Convention on Road Traffic (Vienna, 1968)

39. GRE was informed about the considerations of the Global Forum for Road Traffic Safety (WP.1) at its recent session (September 2021) on the GRE/WP.1 common issues, including possible optical signals of autonomous vehicles.

C. Miscellaneous

Documentation: Informal documents GRE-85-35-Rev.1, GRE-85-36

- 40. At the request of GRE experts, the secretariat delivered a presentation on new UN Regulation No. 156 (Software updates) (GRE-85-36).
- 41. Based on GRE-85-35-Rev.1, GRE adopted a list of main decisions at its eighty-fifth session (Annex II).

X. Direction of future work of GRE (agenda item 9)

Documentation: Informal documents GRE-85-22, GRE-85-34, GRE-85-37, GRE-85-38

- 42. GRE took note of the status report of the Task Force on Autonomous Vehicle Signalling Requirements (TF AVSR) (GRE-85-34) and invited the GRE Chair to contact the Chair of the Working Party on Automated/Autonomous and Connected Vehicles (GRVA) with the aim to obtain guidance on potential light-signalling requirements for autonomous vehicles.
- 43. GRE considered a list of priority subjects under its consideration (GRE-85-22) and delivered comments. The Chair was requested to prepare a revised document and to transmit Table 1 to WP.29 for inclusion into the WP.29 Programme of Work for 2022–2023. GRE encouraged all experts to propose new items for Table 2 of the potential work items.

44. The experts of GTB briefed GRE about their ongoing activities on reducing the power consumption in existing lighting functions without compromising safety (GRE-85-37) and on signalling road projection (GRE-85-38).

XI. Provisional agenda for the next session (agenda item 10)

45. GRE noted that the next session had been scheduled from 26 to 29 April 2022 and that the deadline for submission of working documents would be on 31 January 2022. GRE agreed to keep the same structure of the provisional agenda.

XII. Election of officers (agenda item 11)

46. In compliance with Rule 37 of the Rules of Procedure (ECE/TRANS/WP.29/690/Rev.2), GRE elected unanimously Mr. T. Kärkkäinen (Finland) as Chair and Mr. D. Rovers (Netherlands) as Vice-Chair for the sessions of GRE scheduled in the year 2022.

Annex I

List of informal documents issued in connection with the session

Informal documents GRE-85-...

No.	(Author) Title	Follow-up
1	(secretariat) Updated provisional agenda for the eighty-fifth session of GRE	a
2	(IWG DETA) Proposal for extension of DETA to improve the use of the Unique Identifier for UN Regulations	d
3	(IWG SLR) Presentation of the draft proposal for the new 01 series of amendments to UN Regulation No. 148 (ECE/TRANS/WP.29/GRE/2021/13)	b
4	(IWG SLR) Presentation of the draft proposal for the new 01 series of amendments to UN Regulation No. 149 (ECE/TRANS/WP.29/GRE/2021/14)	b
5	(IWG SLR) Presentation of the draft proposal for the new 01 series of amendments to UN Regulation No. 150 (ECE/TRANS/WP.29/GRE/2021/15)	b
6	(Czechia) Correction of document ECE/TRANS/WP.29/GRE/2021/10	b
7	(TF EMC) Working draft of a new 07 series of amendments to UN Regulation No. 10	e
8	(Chair) Running order	a
9	(IEC) Proposal for updating the reference to IEC 60809 in ECE/TRANS/WP.29/GRE/2021/13 and ECE/TRANS/WP.29/GRE/2021/14	b
10	(TF EMC) Status report	f
11	(IWG SLR) Addition to ECE/TRANS/WP.29/GRE/2021/11	b
12	(IWG SLR) Correction of errors in ECE/TRANS/WP.29/GRE/2021/17	b
13	(IWG SLR) Correction of errors in ECE/TRANS/WP.29/GRE/2021/13	b
14	(IWG SLR) Correction of errors in ECE/TRANS/WP.29/GRE/2021/14	b
15	(IWG SLR) Correction of errors in ECE/TRANS/WP.29/GRE/2021/15	b
16	(France and Germany) Manufacturer's logo: size versus visual acuity	b
17	(secretariat) Virtual meeting participation guidelines (Webex)	f
18	(IWG SLR) Progress report	f
19	(Poland) Proposal for amendments to ECE/TRANS/WP.29/GRE/2020/8/Rev.2	d
20	(GTB) Revision of official document ECE/TRANS/WP.29/GRE/2021/18	b
21	(secretariat) General information and WP.29 highlights	f
22-Rev.1	(Chair) Subjects under consideration by GRE	b
23	(Germany) Additional proposal to ECE/TRANS/WP.29/GRE/2021/16	b
24	(Germany) Additional proposals to ECE/TRANS/WP.29/GRE/2021/19 and ECE/TRANS/WP.29/GRE/2021/20	c
25	(Japan) Amendments to informal document GRE-85-20	b

No.	(Author) Title	Follow-up
26	(France and Germany) Clarification on the scope of allowed logos in ECE/TRANS/WP.29/GRE/2020/5/Rev.2	
27	(UK and IMMA) Proposal to amend ECE/TRANS/WP.29/GRE/2021/23	b
28	(SIG) Highlights of SIG discussions	f
29	(Poland) Justification for GRE-85-19	d
30	(EC) Proposal to amend ECE/TRANS/WP.29/GRE/2021/13, ECE/TRANS/WP.29/GRE/2021/14 and ECE/TRANS/WP.29/GRE /2021/15	d
31	(OICA) Questions and concerns regarding documents GRE/2021/2, GRE-84-29 and GRE-84-30 from Japan	d d
32	(SAE) Proposal for improvement of "lane keeping assist warning" display	b
33	(GTB) Amendments to ECE/TRANS/WP.29/GRE/2021/18	b
34	(TF AVSR) Status report	f
35-Rev.	1 (secretariat) Draft list of main decisions	b
36	(secretariat) Presentation of UN Regulation No. 156	f
37	(GTB) How to reduce power consumption in existing lighting functions without reducing safety	f
38	(GTB) Signalling Road Projection	f

Notes:

- a Endorsed or adopted without amendment.
- b Endorsed or adopted with amendments.
- c Resume consideration on the basis of a document with an official symbol.
- d Kept as a reference document/continue consideration.
- e Revised proposal for the next session.
- f Consideration completed or to be superseded.
- g Withdrawn.

Annex II

Decisions adopted under the silence procedure

Decision No.	Agenda Item	Decision
1	1	GRE adopted the provisional agenda ECE/TRANS/WP.29/GRE/2021/9 together with informal documents listed in GRE-85-01.
2	4 (a)	GRE took note of the IWG SLR progress report (GRE-85-18).
3	4 (b)	GRE adopted ECE/TRANS/WP.29/GRE/2021/11, as amended by GRE-85-11, and requested the secretariat to submit it for consideration and vote at the March 2022 sessions of WP.29 and AC.1 as a new supplement to the original series of amendments to UN Regulation No. 148.
4	4 (b)	GRE adopted ECE/TRANS/WP.29/GRE/2021/13, as amended by GRE-85-09 and GRE-85-13, and requested the secretariat to submit it for consideration and vote at the June 2022 sessions of WP.29 and AC.1 as a draft new 01 series of amendments to UN Regulation No. 148. GRE noted the alternative proposal for a transitional provision in GRE-85-30 and requested IWG SLR to consider it and to report back to GRE at its next session in April 2022.
5	4 (c)	GRE adopted ECE/TRANS/WP.29/GRE/2021/12 and requested the secretariat to submit it for consideration and vote at the March 2022 sessions of WP.29 and AC.1 as a new supplement to the original series of amendments to UN Regulation No. 149.
6	4 (c)	GRE adopted ECE/TRANS/WP.29/GRE/2021/14, as amended by GRE-85-09 and GRE-85-14, and requested the secretariat to submit it for consideration and vote at the June 2022 sessions of WP.29 and AC.1 as a draft new 01 series of amendments to UN Regulation No. 149. GRE noted the alternative proposal for a transitional provision in GRE-85-30 and requested IWG SLR to consider it and to report back to GRE at its next session in April 2022.
7	4 (d)	GRE adopted ECE/TRANS/WP.29/GRE/2021/15, as amended by GRE-85-15, and requested the secretariat to submit it for consideration and vote at the June 2022 sessions of WP.29 and AC.1 as a draft new 01 series of amendments to UN Regulation No. 150. GRE noted the alternative proposal for a transitional provision in GRE-85-30 and requested IWG SLR to consider it and to report back to GRE at its next session in April 2022.
8	4 (e)	GRE adopted ECE/TRANS/WP.29/GRE/2021/16, as amended by GRE-85-23, and requested the secretariat to submit it for consideration and vote at the June 2022 sessions of WP.29 and AC.1 as a draft Supplement to the 06, 07 and 08 series of amendments to UN Regulation No. 48.
9	4 (e)	Subject to one abstention, GRE adopted ECE/TRANS/WP.29/GRE/2021/17 with the following amendments: - GRE-85-12; - removing of square brackets and keeping the text inside; - adding paragraph 6.26.9.2 from ECE/TRANS/WP.29/GRE/2021/16 to parts I.B and I.C of ECE/TRANS/WP.29/GRE/2021/17. GRE requested the secretariat to submit the proposal for consideration and vote at the June 2022 sessions of WP.29 and AC.1 as a draft Supplement to the 03, 04 and 05 series of amendments to UN Regulation No. 48.
10	4 (e)	GRE adopted ECE/TRANS/WP.29/GRE/2021/19 and ECE/TRANS/WP.29/GRE/2021/20 and requested the secretariat to submit them for consideration and vote at the June 2022 sessions of WP.29 and AC.1 as draft Supplement to the 01 and, respectively, 02 and 03 series of amendments to UN Regulation No. 53.
11	4 (e)	GRE invited the expert of Germany to convert GRE-85-24 into a working document for consideration at the next session.

Decision No.	Agenda Item	Decision
12	4 (e)	GRE adopted ECE/TRANS/WP.29/GRE/2021/21 and requested the secretariat to submit it for consideration and vote at the June 2022 sessions of WP.29 and AC.1 as a draft Supplement to the 01 and 02 series of amendments to UN Regulation No. 74.
13	4 (e)	GRE adopted ECE/TRANS/WP.29/GRE/2021/22 and requested the secretariat to submit it for consideration and vote at the June 2022 sessions of WP.29 and AC.1 as a draft Supplement to the 01 and 02 series of amendments to UN Regulation No. 86.
14	4 (e)	GRE noted that so far IWG SLR had not been able to reconcile different positions on the proposal for headlamp levelling (ECE/TRANS/WP.29/GRE/2020/8/Rev.2, GRE-85-19, GRE-85-29) and decided to revert to this issue at the next session
15	6 (a)	GRE adopted ECE/TRANS/WP.29/GRE/2021/18, as amended by GRE-85-33 and subject to removal of square brackets, and requested the secretariat to submit it for consideration and vote at the June 2022 sessions of WP.29 and AC.1 as a draft Supplement to the 06, 07 and 08 series of amendments to UN Regulation No. 48 and part of the new draft 01 series of amendments to UN Regulation No. 149.
16	6 (a)	GRE adopted ECE/TRANS/WP.29/GRE/2020/5/Rev.2, as amended by GRE-85-26, and requested the secretariat to submit it for consideration and vote at the June 2022 sessions of WP.29 and AC.1 as a draft Supplement to the 06, 07 and 08 series of amendments to UN Regulation No. 48 and part of the new draft 01 series of amendments to UN Regulation No. 148.
17	6 (b)	GRE took note of the first activities of the Special Interest Group (SIG) on park conditions and an answer-back signal (GRE-85-28), together with the concerns and questions of OICA on the issue (GRE-85-31). GRE invited the SIG Co-Chairs (Finland and the Netherlands) to convene additional meetings of SIG with the aim to prepare a proposal for the next GRE session.
18	7 (b)	GRE adopted ECE/TRANS/WP.29/GRE/2021/23, as amended by GRE-85-27, and requested the secretariat to submit it for consideration and vote at the March 2022 sessions of WP.29 as a draft Supplement to the 01, 02 and 03 series of amendments to UN Regulation No. 53.
19	7 (a)	GRE adopted ECE/TRANS/WP.29/GRE/2021/10, as amended by GRE-85-06, and requested the secretariat to submit it for consideration and vote at the March 2022 sessions of WP.29 as a draft Supplement 2 to the 06 series of amendments to UN Regulation No. 10.
20	7 (a)	GRE took note of the TF EMC status report (GRE-85-10)
21	5	GRE adopted ECE/TRANS/WP.29/GRE/2021/24 and requested the secretariat to submit it for consideration and vote at the March 2022 session of WP.29 as an amendment to the Consolidated Resolution on the common specification of light source categories (R.E.5).
22	9	GRE took note of the TF AVSR status report (GRE-85-34) and invited the GRE Chair to contact the GRVA Chair with the aim to obtain guidance on potential light-signalling requirements for autonomous vehicles.
23	9	GRE considered a list of priority subjects under its consideration (GRE-85-22) and delivered comments. The Chair was requested to prepare a revised document and to transmit Table 1 to WP.29 for including into the WP.29 Programme of Work for 2022–2023. GRE encouraged all experts to propose new items for inclusion in Table 2 of potential work items.
24	11	GRE elected unanimously Mr. T. Kärkkäinen (Finland) as Chair and Mr. D. Rovers (Netherlands) as Vice-Chair for the sessions of GRE scheduled in the year 2022.
25	8 (c)	GRE adopted a list of main decisions at its eighty-fifth session (GRE-85-35-Rev.1).

Annex III

GRE informal groups

Informal group	Chair(s) and Co-Chair(s)	Secretary
Simplification of the Lighting and Light- Signalling UN Regulations (SLR)	Mr. Derwin Rovers (Netherlands) Phone: +31 79 345 8230 Email: drovers@rdw.nl Mr. Aleksander Lazarevic (EC) Phone: +32 2 298 54 89 Fax: +32 2 296 96 37 Email: aleksander.lazarevic@ec.europa.eu	Mr. Davide Puglisi (GTB) Phone: +39 011 562 11 49 Fax: +39 011 53 21 43 Email: secretary@gtb-lighting.org