




---

**Economic Commission for Europe**
**Inland Transport Committee**
**World Forum for Harmonization of Vehicle Regulations**
**Working Party on Lighting and Light-Signalling**
**Eighty-fourth session**

Geneva, 26-30 April 2021

**Report of the Working Party on Lighting and Light-Signalling on its eighty-fourth session\***
**Contents**

	<i>Paragraphs</i>	<i>Page</i>
I. Attendance.....	1	3
II. Adoption of the agenda (agenda item 1) .....	2–5	3
III. 1998 Agreement – UN Global Technical Regulations: Development (agenda item 2)	6	3
IV. 1997 Agreement – Rules: Development (agenda item 3).....	7	3
V. Simplification of lighting and light-signalling UN Regulations (agenda item 4)....	8–16	3
A. Activities of the Informal Working Group "Simplification of the Lighting and Light-Signalling Regulations".....	8	4
B. UN Regulation No. 148 (Light-signalling devices) .....	9	4
C. UN Regulation No. 149 (Road illumination devices).....	10–11	4
D. UN Regulation No. 150 (Retro-reflective devices).....	12–13	4
E. Simplification of UN Regulations Nos. 48, 53, 74 and 86 .....	14–16	4
VI. UN Regulations Nos. 37 (Filament lamps), 99 (Gas discharge light sources), 128 (Light emitting diodes light sources) and the Consolidated Resolution on the common specifications of light source categories (agenda item 5) .....	17–20	5
VII. UN Regulation No. 48 (Installation of lighting and light-signalling devices) (agenda item 6).....	21–29	6
A. Proposals for amendments to the latest series of amendments .....	21–25	6
B. Proposals for new series of amendments to UN Regulation No. 48 .....	26–29	6
VIII. Other UN Regulations (agenda item 7) .....	30–31	7
A. UN Regulation No. 86 (Installation of lighting and light-signalling devices		

---

\* The present document was not edited before being sent to the United Nations translation services.



	for agricultural vehicles) .....	30	7
	B. UN Regulations Nos. 149 (Road illumination devices) .....	31	7
IX.	Other business (agenda item 8) .....	32–36	7
	A. Development of the International Whole Vehicle Type Approval .....	32–33	7
	B. Amendments to the Convention on Road Traffic (Vienna, 1968) .....	34–35	7
	C. Obsolete transitional provisions .....	36	8
X.	New business and late submissions (agenda item 9) .....	37	8
XI.	Direction of future work of GRE (agenda item 10).....	38 – 40	8
XII.	Provisional agenda for the next session (agenda item 11).....	41	9
Annexes			
	I. List of informal documents issued in connection with the session.....		10
	II. Decisions adopted under silence procedure.....		12
	III. GRE informal groups .....		14

## I. Attendance

1. The Working Party on Lighting and Light-Signalling (GRE) held its eighty-fourth session from 26 to 30 April 2021 in Geneva.<sup>1</sup> The meeting was chaired by Mr. Timo 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) (TRANS/WP.29/690, ECE/TRANS/WP.29/690/Amends. 1 and 2): Australia, China, Cyprus, Czechia, Finland, France, Germany, Hungary, India, Italy, Japan, Latvia, Netherlands, Poland, Republic of Korea, Russian Federation, South Africa, Spain, United Kingdom of Great Britain and Northern Ireland. An expert from the European Commission (EC) participated. Experts from the following non-governmental organizations also took part in the session: European Agricultural Machinery Association (CEMA), International Association of Body and Trailer Building Industry (CLCCR), European Association of Automotive Suppliers (CLEPA), International Automobile Federation (FIA), 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/2021/1, Informal documents GRE-84-01, GRE-84-21, GRE-84-23, GRE-84-31

2. GRE considered and adopted the agenda (ECE/TRANS/WP.29/GRE/2021/1), as reproduced in GRE-84-01 together with the informal documents distributed during the session. GRE also noted the running order proposed by the Chair (GRE-84-21) and the virtual meeting participation guidelines (GRE-84-31).

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 November 2020 and March 2021 sessions of WP.29 (GRE-84-23).

5. The secretariat drew the attention of GRE to the stricter UNECE policy on copyright/intellectual property issues according to which the submitter of a document (including a presentation) would be invited to confirm that publication of the document on the UNECE website and further use would not violate any copyright/intellectual property rights and that the submitter would agree to hold UNECE harmless of any copyright/intellectual property claims concerning this document (GRE-84-23).

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

6. The Chair recalled that, subject to decisions of policy-making bodies (see para. 39 below), light-signalling functions of automated/autonomous vehicles might become a subject of a new UN GTR.

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

7. No proposals were considered under this item.

<sup>1</sup> GRE experts participated remotely. On 28 and 30 April 2021, simultaneous interpretation was provided into the official UNECE languages.

## **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-84-20

8. GRE took note of the progress report of the Informal Working Group "Simplification of the Lighting and Light-Signalling Regulations" (IWG SLR) (GRE-84-20).

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

*Documentation:* Informal documents GRE-84-13 and GRE-84-14

9. The expert from IWG SLR introduced a draft new series of amendments to UN Regulation No. 148 (GRE-84-13 and GRE-84-14). Following a brief discussion, GRE invited all experts to provide comments to IWG SLR and requested IWG SLR to finalize the proposal as a working document for the next GRE session.

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

*Documentation:* ECE/TRANS/WP.29/GRE/2021/7, Informal documents GRE-84-15, GRE-84-16 and GRE-84-28

10. The expert from IWG SLR proposed inserting in UN Regulation No. 45 a missing reference to UN Regulation No. 149 (ECE/TRANS/WP.29/GRE/2021/7). GRE adopted the proposal and requested the secretariat to submit it for consideration and vote at the November 2021 sessions of WP.29 and AC.1 as draft Supplement 12 to the 01 series of amendments to UN Regulation No. 45.

11. The expert from IWG SLR presented a draft new series of amendments to UN Regulation No. 149 (GRE-84-15 and GRE-84-16). The expert from Poland pointed out that the proposed photometric requirements were design-oriented and expressed other concerns (GRE-84-28). GRE invited its experts to provide feedback to IWG SLR and requested IWG SLR to consider these comments, finalize the proposal and to submit it as a working document to the next GRE session.

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

*Documentation:* Informal documents GRE-84-04, GRE-84-17 and GRE-84-18

12. The expert of IWG SLR introduced a proposal with the aim to re-align the requirements of the UN Regulation No. 150 with those of the frozen UN Regulations No. 3, 27, 69, 70 and 104 (GRE-84-04). GRE adopted the proposal and mandated the secretariat to submit it for consideration and vote at the November 2021 sessions of WP.29 and AC.1 as draft Supplement 4 to UN Regulation No. 150.

13. The expert from IWG SLR presented a draft new series of amendments to UN Regulation No. 150 (GRE-84-17 and GRE-84-18). GRE invited experts to provide comments to IWG SLR and requested IWG SLR to finalize the proposal and to submit it as a working document to the next GRE session.

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

*Documentation:* ECE/TRANS/WP.29/GRE/2020/8/Rev.2, Informal documents GRE-84-05, GRE-84-06, GRE-84-07, GRE-84-08, GRE-84-09, GRE-84-10

14. The expert from IWG SLR tabled a revised proposal for a new series of amendments to UN Regulation No. 48 that introduces new requirements for headlamp levelling and allows manual levelling only for off-road vehicles (ECE/TRANS/WP.29/GRE/2020/8/Rev.2). The expert from Poland suggested amendments for the initial downward inclination (GRE-84-37). The experts from France and the United Kingdom of Great Britain and Northern Ireland made further comments.

15. GRE noted diverging positions on the proposed aiming diagram and manual levelling for off-road vehicles. GRE remained optimistic that a consensus could be reached and requested IWG SLR to convene 1-2 additional separate meetings with the aim to reconcile the different positions and to prepare a revised proposal for the next session.

16. The experts of IWG presented draft proposals for Supplements to different series of amendments to UN Regulations Nos. 48, 53, 74 and 86 (GRE-84-05, GRE-84-06, GRE-84-07, GRE-84-08, GRE-84-09, GRE-84-10). Following a brief exchange of views, GRE invited all experts to provide comments to IWG SLR and requested IWG SLR to finalize the proposals as working documents for the next GRE session.

## **VI. UN Regulation Nos. 37 (Filament lamps), 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/2020/15/Rev.1,  
ECE/TRANS/WP.29/GRE/2020/16/Rev.1,  
ECE/TRANS/WP.29/GRE/2020/17,  
ECE/TRANS/WP.29/GRE/2021/3, Informal documents GRE-83-15,  
GRE-84-02, GRE-84-03, GRE-84-12, GRE-84-32 and GRE-84-35

17. GRE took note of the progress report of the Task Force on Substitutes and Retrofits (TF SR) (GRE-84-12).

18. The expert from TF SR introduced an updated set of proposals for amendments to the Consolidated Resolution on the common specification of light source categories (R.E.5) and to UN Regulations Nos. 37 and 128 which introduce Light Emitting Diode (LED) replacement light sources (ECE/TRANS/WP.29/GRE/2020/15/Rev.1 as amended by GRE-84-32, ECE/TRANS/WP.29/GRE/2020/16/Rev.1 as amended by GRE-84-32, ECE/TRANS/WP.29/GRE/2020/17 and ECE/TRANS/WP.29/GRE/2021/3). GRE also noted equivalence criteria (GRE-83-15), a study on introducing LED replacement light sources into UN Regulation No. 37 (GRE-84-02) and an equivalence report for the C5W light source category (GRE-84-03).

19. Several experts supported the proposed package and posed clarifying questions. The expert from France pointed out that, in case the package was adopted, the Type Approval Authorities and Technical Services would not be in a position to verify compliance of LED replacement light sources without vehicle compatibility listings. The expert of FIA urged the Contracting Parties to adopt the proposals and pointed out their benefits for the consumers, environment, economy, and traffic safety (GRE-84-35).

20. Subject to abstention of France, GRE adopted the above proposals and requested the secretariat to submit it for consideration and vote at the November 2021 sessions of WP.29 and AC.1 as draft Supplement 48 to the 03 series of amendments to UN Regulation No. 37, draft Supplement 11 to UN Regulation No. 128 and draft amendment 7 to the Consolidated Resolution on the common specification of light source categories (R.E.5). GRE also requested the secretariat to publish GRE-83-15 on the UNECE website as a reference document.

## **VII. UN Regulation No. 48 (Installation of lighting and light-signalling devices) (agenda item 6)**

### **A. Proposals for amendments to the latest series of amendments**

*Documentation:* ECE/TRANS/WP.29/GRE/2020/4/Rev.1,  
ECE/TRANS/WP.29/GRE/2020/5/Rev.1,  
ECE/TRANS/WP.29/GRE/2021/5, ECE/TRANS/WP.29/GRE/2021/8,  
Informal documents GRE-84-24, GRE-84-25, GRE-84-26, GRE-84-27, GRE-84-36 and GRE-84-38-Rev.1

21. The expert of GTB introduced revised proposals for amendments to UN Regulations Nos. 48 and 149 on road projections of driver assistance symbols as well as supporting material (ECE/TRANS/WP.29/GRE/2020/4/Rev.1, GRE-84-24, GRE-84-25, GRE-84-26, GRE-84-27 and GRE-84-38-Rev.1). During an in-depth discussion, experts from Contracting Parties generally supported the concept but expressed several concerns over the proposed technical requirements. The expert from Japan presented their list of outstanding issues (GRE-84-36).

22. GRE requested GTB and OICA to liaise with all experts concerned with the aim to submit a revised proposal to the next session. GRE also invited other experts from Contracting Parties to send their comments to GTB and OICA and to take part in preparatory online meetings to be organized by GTB.

23. GRE noted that the revised proposal that allows the use of manufacturer logos inside the illuminant surface of a signalling lamps (ECE/TRANS/WP.29/GRE/2020/5/Rev.1) would be postponed to the next session, due to the ongoing work on the proposal. In the interim, GRE reiterated its request to type approval authorities to refrain from granting type approvals to lamps with such logos.

24. The expert of GTB proposed to clarify the determination of the apparent surface (ECE/TRANS/WP.29/GRE/2021/5). GRE adopted the proposal and requested the secretariat to submit it for consideration and vote at the November 2021 sessions of WP.29 and AC.1 as draft Supplement 7 to the 03 series, draft Supplement 20 to the 04 series, draft Supplement 15 to the 05 series, draft Supplement 15 to the 06 series, draft Supplement 2 to the 07 series and as part of the future 08 (see para. 27 below) series of amendments to UN Regulation No. 48.

25. The expert from Germany proposed to clarify the installation requirements of the foremost side-marker lamps (ECE/TRANS/WP.29/GRE/2021/8). GRE adopted this proposal and requested the secretariat to submit it for consideration and vote at the November 2021 sessions of WP.29 and AC.1 as draft Supplement 15 to the 06 series, draft Supplement 2 to the 07 series and as part the future 08 (see para. 27 below) series of amendments to UN Regulation No. 48.

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

*Documentation:* ECE/TRANS/WP.29/GRE/2021/4, ECE/TRANS/WP.29/GRE/2021/2,  
Informal documents GRE-84-22, GRE-84-29, GRE-84-30, GRE-84-33  
and GRE-84-34

26. The expert from the Special Interest Group tabled a proposal for a new series of amendments that defines the switching conditions of various lamps and the variable intensity of rear lamps in conjunction with traffic conditions (ECE/TRANS/WP.29/GRE/2021/4 and GRE-84-22).

27. GRE agreed to remove the square brackets in the document and to keep the text inside. GRE adopted the proposal and requested the secretariat to submit it for consideration and vote at the November 2021 sessions of WP.29 and AC.1 as a new 08 series of amendments to UN Regulation No. 48. Following the adoption, the expert from OICA expressed the view that the adopted transitional provisions were too short for the industry.

28. The expert from Japan presented a draft new series of amendments that introduces park conditions and an answer-back signal in the scope of UN Regulation No. 48 (ECE/TRANS/WP.29/GRE/2021/2, GRE-84-29 and GRE-84-30). The expert from OICA posed questions on the proposal (GRE-84-33) and the experts from Japan provided their replies (GRE-84-34). Several experts made further remarks on the functionalities of answer-back signals and the proposed selection of lamps for such signals.

29. The Chair concluded that the proposal would need fine-tuning. To make progress and prepare a revised proposal for the next session, GRE agreed to establish a Special Interest Group (SIG) on these topics, which would be co-chaired by the experts from Finland and the Netherlands while OICA would act as Secretary. GRE noted that the first meeting of SIG was planned to take place on 7 June 2021.

## **VIII. Other UN Regulations (agenda item 7)**

### **A. UN Regulation No. 86 (Installation of lighting and light-signalling devices for agricultural vehicles)**

*Documentation:* ECE/TRANS/WP.29/GRE/2020/7/Rev.1

30. GRE addressed a revised proposal for a new series of amendments by the experts from CEMA that improved lateral lighting on vehicles, which were longer than 4.6 m, and took into account asymmetric vehicles designs. Subject to deletion of "between" in paragraph 6.12.1., GRE adopted ECE/TRANS/WP.29/GRE/2020/7/Rev.1 and requested the secretariat to submit it for consideration and vote at the November 2021 sessions of WP.29 and AC.1 as a new 02 series of amendments to UN Regulation No. 86.

### **B. UN Regulation No. 149 (Road illumination devices)**

*Documentation:* ECE/TRANS/WP.29/GRE/2021/6

31. The expert of GTB proposed to insert missing text (ECE/TRANS/WP.29/GRE/2021/6). GRE adopted the proposal and requested the secretariat to submit it for consideration and vote at the November 2021 sessions of WP.29 and AC.1 as draft Supplement 4 to UN Regulation No. 149.

## **IX. Other business (agenda item 8)**

### **A. Development of the International Whole Vehicle Type Approval**

*Documentation:* Informal documents GRE-84-20 and GRE-84-23

32. GRE was informed about the status of the International Whole Vehicle Type Approval (IWVTA) and noted that the latest 02 series of amendments to UN Regulation No. 0 on IWVTA had comprised UN Regulations Nos. 148, 149 and 150.

33. The expert of IWG SLR and the secretariat briefed GRE on the progress of the electronic Database for the Exchange of Type Approval documentation (DETA) and that WP.29 had invited IWG SLR and IWG DETA to develop a proposal related to the use of DETA in the context of Unique Identifier (GRE-84-20 and GRE-84-23).

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

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

35. GRE also noted that the Inland Transport Committee (ITC), at its recent session in February 2021, had approved the WP.1 decision to establish a new Group of Experts tasked with drafting a new legal instrument on the use of automated vehicles in road traffic.

### **C. Obsolete transitional provisions**

*Documentation:* Informal document GRE-80-06

36. The expert from the Netherlands sought GRE guidance on the issue of old, possibly obsolete transitional provisions in former series of amendments to UN Regulations (GRE-80-06). GRE considered different approaches and decided to keep such old provisions in later series for the sake of record. GRE noted that, according to the revised 1958 Agreement, each series of amendments and Supplements to it constitute "a version of a UN Regulation" and that Contracting Parties may opt for application of former versions. Thus, different series of amendments to the same UN Regulation may be considered independent from each other and Supplements to the latest series do not automatically apply to previous series.

### **X. New business and late submissions (agenda item 9)**

*Documentation:* Informal document GRE-83-53

37. Based on GRE-84-39-Rev.2, GRE adopted a list of main decisions (Annex II) in accordance with silence procedure.

### **XI. Direction of future work of GRE (agenda item 10)**

*Documentation:* ECE/TRANS/WP.29/2021/1, Informal documents GRE-84-11 and GRE-84-19

38. The Chairman recalled that the following GRE priorities had been included in the draft WP.29 Programme of Work (ECE/TRANS/WP.29/2021/1):

- Stage 2 of the simplification of lighting and light-signalling UN Regulations with the aim to become future proof and technology neutral, with performance-based and objective test requirements.
- Further development of the installation UN Regulations Nos. 48, 53, 74 and 86.
- improvements and clarifications including visibility and glare (headlamps, headlamp levelling, direction indicators, daytime running lamps, rear position lamps, etc.).
- Further development of EMC requirements (UN Regulation No. 10).
- Suitable application of the 'Unique Identifier' ('UI') for the lighting UN Regulations.

39. The expert from the Task Force on Autonomous Vehicle Signalling Requirements (TF AVSR) reported on their progress (GRE-84-19). He also mentioned a recent EC study on the effects of automation on road user behaviour and performance.<sup>2</sup> GRE noted that a policy decision on the signalling requirements of autonomous vehicles fell in the scope of the Working Party on Automated/Autonomous and Connected Vehicles (GRVA) and its Informal Working Group on Functional Requirements of Automated/Autonomous Vehicles (IWG FRAV). GRE invited its Chair to contact the GRVA and IWG FRAV Chairs and to seek guidance on light-signalling requirements for autonomous vehicles. GRE agreed that the activities of TF AVSR would be put on hold until such guidance was received.

40. GRE was informed that the Task Force (TF) on Electromagnetic Compatibility (EMC) resumed its activities. GRE took note of the TF EMC status report (GRE-84-11), including the additional input from the expert from the Netherlands, and recalled that UN Regulation

---

<sup>2</sup> <https://op.europa.eu/en/publication-detail/-/publication/6d947c46-140d-11eb-b57e-01aa75ed71a1/language-en>



No. 10 was included in the list of GRE priorities. GRE experts were invited to participate in the TF EMC activities.

## **XII. Provisional agenda for the next session (agenda item 11)**

41. GRE noted that the next session had been scheduled for the week from 26 to 29 October 2021 and that the deadline for submission of working documents would be on 3 August 2021. GRE agreed to keep the same structure of the provisional agenda, subject to adding a new item on UN Regulation No. 10, deleting item 8 (c) "Obsolete transitional provisions" and moving item 9 to become a sub-item of item 8 "Other business".

## Annex I

### List of informal documents issued in connection with the session

Informal documents GRE-84-...

<i>No.</i>	<i>(Author) Title</i>	<i>Follow-up</i>
1	(secretariat) Updated provisional agenda for the eighty-fourth session of GRE	a
2	(TF SR) Study on LED replacement light sources introduction into UN Regulation No. 37	f
3	(TF SR) LED replacement light sources equivalence report for C5W	f
4	(IWG SLR) Proposal for Supplement [4] to the original series of amendments to UN Regulation No. 150	a
5	(IWG SLR) Proposal for a Supplement to the 06 and 07 series of amendments to UN Regulation No. 48	c
6	(IWG SLR) Proposal for a Supplement to the 03, 04 and 05 series of amendments to UN Regulation No. 48 (Installation of lighting and light-signalling devices)	c
7	(IWG SLR) Proposal for a Supplement to the 01 series of Amendments to UN Regulation No. 53	c
8	(IWG SLR) Proposal for a Supplement to the 02 and 03 series of Amendments to UN Regulation No. 53	c
9	(IWG SLR) Proposal for a Supplement to the 01 and 02 series of Amendments to UN Regulation No. 74	c
10	(IWG SLR) Proposal for a Supplement to the 01 series of Regulation No. 86	c
11	(TF EMC) Status report	f
12	(TF SR) Status report	f
13	(IWG SLR) Presentation to support the draft proposal for a new series of amendments to UN Regulation No. 148 (GRE-84-14)	c
14	(IWG SLR) Draft consolidated proposal for the 01 series of amendments to UN Regulation No. 148	c
15	(IWG SLR) Presentation to support the draft consolidated proposal for the 01 series of amendments to UN Regulation No. 149 (GRE-84-16)	c
16	(IWG SLR) Draft consolidated proposal for the 01 series of amendments to UN Regulation No. 149	c
17	(IWG SLR) Presentation to support the draft consolidated proposal for the 01 series of amendments to UN Regulation No. 150 (GRE-84-18)	c
18	(IWG SLR) Draft consolidated proposal for the 01 series of amendments to UN Regulation No. 150	c
19	(TF AVSR) Status report	f
20	(IWG SLR) Progress report	f
21	(Chair) Running order	a
22	(OICA) Supporting document to ECE/TRANS/WP.29/GRE/2021/4	b
23	(secretariat) General information and WP.29 highlights	f
24	(GTB) Proposal for improvements to document ECE/TRANS/WP.29/GRE/2020/4/Rev.1	e
25	(GTB) Road projections as a new and intuitively understandable human-machine interface	d

<i>No.</i>	<i>(Author) Title</i>	<i>Follow-up</i>
26	(GTB) Investigation on headlights with high-resolution projection modules	d
27	(GTB) Real driving benefits and research findings with digital light functions	d
28	(Poland) Scientific expert opinion on the proposed changes to UN Regulation No. 149 (GRE-84-16)	d
29	(Japan) Proposal to amend document ECE/TRANS/WP.29/GRE/2021/2	e
30	(Japan) Proposal to amend document ECE/TRANS/WP.29/GRE/2021/2	e
31	(secretariat) Virtual meeting participation guidelines (Webex)	f
32	(IEC) Proposal for improvement of document ECE/TRANS/WP.29/GRE/2020/15/Rev.1 and for correction of document ECE/TRANS/WP.29/GRE/2020/16/Rev.1	b
33	(OICA) Questions and concerns from OICA regarding documents GRE-84-29 and GRE-84-30 from Japan	e
34	(Japan) Japan's answers to the document GRE-84-33 submitted by the experts from OICA	e
35	(FIA) Joint position on the UNECE type-approval of automotive LED replacement light sources	f
36	(Japan) Concerns on ECE/TRANS/WP.29/GRE/2020/4/Rev.1	d
37	(Poland) Proposal for amendments to ECE/TRANS/WP.29/GRE/2020/8/Rev.2	d
38-Rev.1	(OICA) Proposal to amend ECE/TRANS/WP.29/GRE/2020/4/Rev.1	e
39-Rev.2	(secretariat) Revised draft list of main decisions	b

*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 silence procedure

<i>Decision No.</i>	<i>Agenda Item</i>	<i>Decision</i>
1	1	GRE adopted the provisional agenda ECE/TRANS/WP.29/GRE/2021/1 together with informal documents listed in GRE-84-01.
2	6 (b)	GRE agreed to remove square brackets in ECE/TRANS/WP.29/GRE/2021/4 and to keep the text inside. GRE adopted the proposal and requested the secretariat to submit it for consideration and vote at the November 2021 sessions of WP.29 and AC.1 as a new 08 series of amendments to UN Regulation No. 48.
3	4 (a)	GRE took note of the IWG SLR progress report (GRE-84-20).
4	4 (c)	GRE adopted ECE/TRANS/WP.29/GRE/2021/7 and requested the secretariat to submit it for consideration and vote at the November 2021 sessions of WP.29 and AC.1 as a new Supplement to UN Regulation No. 45.
5	4 (d)	GRE adopted GRE-84-04 and requested the secretariat to submit it for consideration and vote at the November 2021 sessions of WP.29 and AC.1 as a new Supplement to UN Regulation No. 150.
6	4 (b), (c), (d) and (e)	GRE noted draft proposals to UN Regulations Nos. 48, 53, 74, 86, 148, 149 and 150 (GRE-84-05, GRE-84-06, GRE-84-07, GRE-84-08, GRE-84-09, GRE-84-10, GRE-84-13, GRE-84-14, GRE-84-15, GRE-84-16, GRE-84-17 and GRE-84-18) as well as comments by Poland (GRE-84-28) and encouraged other GRE experts to provide comments to IWG SLR. GRE requested IWG SLR to finalize the proposals and to submit them as working documents to the next GRE session.
7	6 (a)	GRE discussed at length the proposals in ECE/TRANS/WP.29/GRE/2020/4/Rev.1, GRE-84-24 and GRE-84-38-Rev.1. GRE experts generally supported the concept but expressed several concerns over the proposed technical details. GRE requested GTB and OICA to liaise with the experts concerned with the aim to submit a revised proposal to the next session. GRE also invited other experts from Contracting Parties to send their comments to GTB and OICA and to take part in preparatory online meetings to be organized by GTB.
8	6 (a)	GRE noted that ECE/TRANS/WP.29/GRE/2020/5/Rev.1 would be postponed to the next session, due to the ongoing work on the proposal.
9	6 (a)	GRE adopted ECE/TRANS/WP.29/GRE/2021/5 and requested the secretariat to submit it for consideration and vote at the November 2021 sessions of WP.29 and AC.1 as a new Supplement to the 03, 04, 05, 06, 07 and the future 08 (see decision 2 above) series of amendments to UN Regulation No. 48.
10	6 (a)	GRE adopted ECE/TRANS/WP.29/GRE/2021/8 and requested the secretariat to submit it for consideration and vote at the November 2021 sessions of WP.29 and AC.1 as a new Supplement to the 06, 07 and the future 08 (see decision 2 above) series of amendments to UN Regulation No. 48.
11	6 (b)	GRE considered the proposals in ECE/TRANS/WP.29/GRE/2021/2, GRE-84-29 and GRE-84-30 and noted questions and answers in GRE-84-33 and GRE-84-34. Several experts made further comments. To make progress and prepare a revised proposal for the next session, GRE agreed to establish a Special Interest Group (SIG) which would be co-chaired by the experts from Finland and the Netherlands, while OICA would act as Secretary. GRE noted that the first meeting of SIG was planned to take place on 7 June 2021.
12	10	GRE took note of the TF EMC status report (GRE-84-11), including the additional input from the expert from the Netherlands, and recalled that UN Regulation No. 10 is included in the list of GRE priorities.
13	8 (b)	GRE was informed about considerations of the Global Forum for Road Traffic Safety (WP.1) at its recent session (March 2021) on the GRE/WP.1 common issues.
14	8 (c)	GRE considered different approaches towards obsolete transitional provisions in former series of amendments to UN Regulations (GRE-80-06) and decided to keep them in later series for the sake of record. GRE noted that, according to the revised 1958 Agreement, each series of amendments and Supplements to it constitute "a version of a UN Regulation" and that Contracting Parties may opt for application of former versions.

		Thus, different series of amendments to the same UN Regulation may be considered independent from each other and Supplements to the latest series do not automatically apply to previous series.
15	7 (b)	GRE adopted ECE/TRANS/WP.29/GRE/2021/6 and requested the secretariat to submit it for consideration and vote at the November 2021 sessions of WP.29 and AC.1 as a new Supplement to UN Regulation No. 149.
16	5	GRE took note of the TF SR status report (GRE-84-12).
17	5	Subject to one abstained Contracting Party, GRE adopted a set of proposals on LED replacement light sources (ECE/TRANS/WP.29/GRE/2020/15/Rev.1 as amended by GRE-84-32, ECE/TRANS/WP.29/GRE/2020/16/Rev.1 as amended by GRE-84-32, ECE/TRANS/WP.29/GRE/2020/17 and ECE/TRANS/WP.29/GRE/2021/3) and requested the secretariat to submit it for consideration and vote at the November 2021 sessions of WP.29 and AC.1 as new Supplements to UN Regulations Nos. 37 and 128 and an amendment to the Consolidated Resolution on the common specification of light source categories (R.E.5). GRE also requested the secretariat to publish GRE-83-15 on the UNECE website as a reference document.
18	4 (e)	GRE resumed its consideration of a new series of amendments to UN Regulation No. 48 on headlamp levelling (ECE/TRANS/WP.29/GRE/2020/8/Rev.2 and GRE-84-37) and noted diverging positions on the proposed aiming diagram and manual levelling for off-road vehicles only. GRE remained optimistic that a consensus could be reached and requested IWG SLR to convene 1-2 additional separate meetings with the aim to reconcile the different positions and to prepare a revised proposal for the next session.
19	7 (a)	Subject to deletion of "between" in paragraph 6.12.1., GRE adopted ECE/TRANS/WP.29/GRE/2020/7/Rev.1 and requested the secretariat to submit it for consideration and vote at the November 2021 sessions of WP.29 and AC.1 as a new 02 series of amendment to UN Regulation No. 86.
20	10	GRE took note of the TF AVSR status report (GRE-84-19) and invited the GRE Chair to contact the GRVA and FRAV Chairs and to seek guidance on light-signalling requirements for autonomous vehicles. GRE agreed that the activities of TF AVSR would be put on hold until such guidance was received.
21	9	GRE adopted a list of main decisions at its 84th session (GRE-84-39-Rev.2).

**Annex III****GRE informal groups**

---

<i>Informal group</i>	<i>Chair(s) and Co-Chair(s)</i>	<i>Secretary</i>
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

---