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#### **Economic Commission for Europe**

**Inland Transport Committee** 

**World Forum for Harmonization of Vehicle Regulations** 

Working Party on Lighting and Light-Signalling

**Eighty-sixth session** 

Geneva, 26-29 April 2022

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

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#### I. Attendance

1. The Working Party on Lighting and Light-Signalling (GRE) held its eighty-sixth session from 26 to 29 April 2022 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, Canada, China, Czechia, Finland, France, Germany, Hungary, India, Israel, Italy, Japan, Latvia, Netherlands, Poland, Republic of Korea, Russian Federation, South Africa, Spain, United Kingdom of Great Britain and Northern Ireland, 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), Fédération Internationale de Motocyclisme (FIM), 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/2022/1, Informal documents GRE-86-01, GRE-86-08, GRE-86-09

- 2. GRE considered and adopted the agenda (ECE/TRANS/WP.29/GRE/2022/1), as reproduced in GRE-86-01 together with the informal documents distributed during the session. GRE also noted the running order proposed by the Chair (GRE-86-09).
- 3. The list of informal documents is contained in annex I. The list of GRE informal groups is reproduced in annex VI.
- 4. GRE noted the highlights of the November 2021 and March 2022 sessions of WP.29 (GRE-86-08).
- 5. GRE took note of statements by the experts of Japan, United Kingdom of Great Britain and Northern Ireland, United States of America and the European Commission related to their positions on the aggression of the Russian Federation against Ukraine (annex II). The experts of Australia, France, Germany, Italy and Poland supported these statements.

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

6. No information was reported under this item.

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

Documentation: Informal document GRE-86-04

7. The expert from the WP.29 Informal Working Group on Periodical Technical Inspections (IWG PTI) presented a concept on the whole life compliance of vehicles (GRE-86-04). GRE supported the proposed concept and agreed to follow-up on the project.

The meeting was held in a hybrid format with simultaneous interpretation into the official ECE 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 documents GRE-85-30, GRE-86-06, GRE-86-07, GRE-86-17

- 8. GRE noted the progress of the Informal Working Group "Simplification of the Lighting and Light-Signalling Regulations" (IWG SLR) (GRE-86-07). The expert of IWG SLR proposed amendments to the work plan and time schedule as contained in the Terms of Reference (GRE-86-06). GRE adopted these modifications, as contained in annex III, and extended the IWG SLR mandate until December 2025.
- 9. GRE recalled that, at its previous session, it had requested IWG SLR to consider an alternative transitional provision for the preceding series of amendments to allow for the phasing out of outdated lamps/devices (GRE-85-30). GRE noted that IWG SLR had agreed to specify in paragraph 6 "Individual specifications" of UN Regulation No. 48 (starting from the 09 series of amendments) which series of amendments of lamps/devices are required to be installed on vehicles for new type approvals, to enable phasing out of the installation of devices approved according to the previous series of amendments. While generally supporting this approach, GRE requested IWG SLR to take measures that would avoid a proliferation of new series of amendments to UN Regulation No. 48.
- 10. On behalf of the Informal Working Group on the electronic database for the exchange of type approval documentation (IWG DETA), the expert from France introduced their views on the use of the Unique Identifier (UI) (GRE-86-17). GRE reiterated its support to use UI as an alternative to traditional approval markings. GRE agreed that, for the sake of efficient application of UI in the context of simplified UN Regulations Nos. 148, 149 and 150, a summary document should be made available in DETA and that a template for the summary document should as soon as possible be introduced into these UN Regulations by means of a Supplement. GRE noted that IWG SLR volunteered to draft the summary document without delay, with the aim to have a proposal for the next session of GRE.

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

Documentation: Informal document GRE-86-03

11. The expert of IWG SLR mentioned clarifications and corrections to the draft 01 series of amendments to UN Regulation No. 148 (GRE-86-03). GRE noted that they had already been included in ECE/TRANS/WP.29/2022/92 that will be considered by WP.29 in June 2022.

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

Documentation: ECE/TRANS/WP.29/GRE/2022/4, ECE/TRANS/WP.29/GRE/2022/8

- 12. The expert of IWG SLR introduced clarifications and corrections for the 00 series of amendments to UN Regulation No. 149 (ECE/TRANS/WP.29/GRE/2022/8). GRE adopted the document and requested the secretariat to submit it for consideration and vote at the November 2022 sessions of WP.29 and AC.1 as draft Supplement 5 to the original series of amendments to UN Regulation No. 149.
- 13. The expert of IWG SLR also presented clarifications and corrections to the text of the draft 01 series of amendments to UN Regulation No. 149 (ECE/TRANS/WP.29/GRE/2022/4). GRE adopted the document and requested the secretariat to submit it for consideration and vote at the June 2022 sessions of WP.29 and AC.1 as an informal document to correct the draft 01 series of amendments to UN Regulation No. 149 (ECE/TRANS/WP.29/2022/93).

GRE recalled a question raised by the expert from Germany concerning footnote (a) to paragraph 5.2.2. in the draft 01 series of amendments to UN Regulation No. 149 (ECE/TRANS/WP.29/GRE/85, paragraph 14) and noted that it had been clarified by IWG SLR.

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

14. No documents were considered under this agenda item.

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

Documentation: ECE/TRANS/GRE/2020/8/Rev.2, Informal document GRE-86-07

15. The expert of IWG SLR reported on their work on a new series of amendments to UN Regulation No. 48 that introduces new requirements for headlamp levelling (GRE-86-07). GRE noted that IWG SLR was collecting anonymous vehicle levelling data for type approval and for conformity of production, with the aim to prepare an informal proposal for the GRE session in October 2022 and a formal document for the GRE session in April 2023. The expert from IWG SLR also invited those experts, who were not in a position to support the aiming diagram in ECE/TRANS/GRE/2020/8/Rev.2, to submit concrete alternative proposals for consideration.

# 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)

16. GRE noted that new proposals were expected to be submitted to the next session.

#### 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/2022/2, ECE/TRANS/WP.29/GRE/2022/5, Informal document GRE-86-05-Rev.2, GRE-86-16

- 17. The expert from GTB proposed to remove the minimum distance between the left and right front/rear position lamps (ECE/TRANS/WP.29/GRE/2022/2). The experts of Germany, Netherlands and the United Kingdom of Great Britain and Northern Ireland raised some issues. GRE invited GTB to discuss with these experts their concerns and decided to revert to the issue at the next session.
- 18. The expert from CLCCR proposed to allow the installation of manoeuvring lamps on trailers (ECE/TRANS/WP.29/GRE/2022/5). Following an in-depth discussion, GRE adopted the proposal, as amended by GRE-86-05-Rev.2 and requested the secretariat to submit it for consideration and vote at the November 2022 sessions of WP.29 and AC.1 as draft Supplement 17 to the 06 series, draft Supplement 4 to the 07 series and draft Supplement 2 to the 08 series of amendments to UN Regulation No. 48. GRE also noted that CLCCR would submit to the next session, further proposals on this topic (GRE-86-05-Rev.3) as a draft new series to UN Regulation No. 48. GRE invited all experts to send to CLCCR their comments, if any, by the end of May 2022.
- 19. GRE took note of GRE-86-16 submitted by the expert of OICA on using direction indicators to warn about unattended children left in cars. GRE was informed about the plans

of the European New Car Assessment Programme (Euro NCAP) to include detection of such children into its assessment programme as of 2025. GRE noted that this issue was under consideration by the Working Party on Passive Safety (GRSP) and that the Working Party on Noise and Tyres (GRBP) was starting a discussion on using the vehicle horn (UN Regulation No. 28) for the same purpose. GRE agreed that the frequency and pattern of the flashing of direction indicators need to be defined and invited all experts to send their ideas to OICA, with the aim to prepare a revised proposal for the next session. Given the involvement of various Working Parties, GRE held the view that coordination at the WP.29 and/or AC.2 would be necessary and requested the Chair to raise this topic at the June 2022 meetings of these bodies. GRE also pointed out that, until a coordinated and harmonized approach had been developed, it would be premature to include the relevant requirement into the car assessment programme. GRE invited its experts to convey this message to Euro NCAP.

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

Documentation: Informal documents GRE-86-10, GRE-86-11

- 20. GRE noted the progress of the Special Interest Group (SIG) on park conditions and an answer-back signal (GRE-86-10) as well as an approach proposed by the expert from Japan (GRE-86-11). GRE agreed that the requirements for lamps on vehicles in the parked condition would be introduced in two steps:
- Regulating current lighting functions under the parked condition by means of a new 09 series of amendments to UN Regulation No. 48. To avoid a proliferation of new series, GRE agreed that this new series should also include other amendment proposals that were in discussion, such as device transition provisions and headlamp levelling.
- Including the optional use of new lighting functions in the parked condition, by means of a Supplement to the 09 series.

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

#### A. UN Regulation No. 10 (Electromagnetic compatibility)

Documentation: ECE/TRANS/WP.29/GRE/2022/6, Informal documents GRE-86-02-Rev.1, GRE-86-18, GRE-86-19

21. GRE took note of the status report of the Informal Working Group on Electromagnetic Compatibility (IWG EMC) (GRE-86-19) and adopted its Terms of Reference and Rules of Procedure (GRE-86-02-Rev.1 and annex IV). GRE noted the current working draft of a new 07 series of amendments to UN Regulation No. 10 (GRE-86-18) and was informed that ECE/TRANS/WP.29/GRE/2022/6 had been withdrawn by IWG EMC.

## B. UN Regulation No. 53 ((Installation of lighting and light-signalling devices for L<sub>3</sub> vehicles)

Documentation: ECE/TRANS/WP.29/GRE/2022/3, Informal document GRE-86-15

22. The expert from Germany tabled a proposal for a new 04 series of amendments to UN Regulation No. 53 that aimed to improve road safety by deleting headlamps of Classes A and BS from this UN Regulation (ECE/TRANS/WP.29/GRE/2022/3). The expert from Czechia proposed modifications (GRE-86-15). Several experts made preliminary comments and pointed out that they would need more time to study the proposal. GRE invited all experts to send their comments to the authors, in order to prepare a revised document for consideration at the next session.

#### C. UN Regulation No. 65 (Special warning lamps)

Documentation: ECE/TRANS/WP.29/GRE/2022/7, Informal document GRE-86-14

23. The expert from Germany introduced a proposal for a new series of amendments to UN Regulation No. 65 (ECE/TRANS/WP.29/GRE/2022/7 and GRE-86-14). A few experts commented on the proposal. GRE invited the author to take these comments into consideration and to submit a revised proposal to the next session.

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

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

Documentation: Informal document GRE-86-17

24. GRE recalled its earlier discussion on the use of DETA in the context of the Unique Identifier (UI) (GRE-86-17, see paragraph 10 above).

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

- 25. GRE was informed that the Global Forum for Road Traffic Safety (WP.1), at its recent session in March 2022, had completed its review of the amendments to the Vienna Convention and requested that the secretariat create a final, formal document for a possible adoption at the next session. The Government of Italy declared that it intended to formally submit this amendment proposal to the Depository, the Secretary-General of the United Nations, for dissemination to all contracting parties.
- 26. GRE also noted that the International Federation of Pedestrians (IFP) had submitted to WP.1 an informal document outlining its position on the safety requirements for automated vehicles (AVs) to indicate their status and to communicate their intended actions. IFP opposed the introduction of signals (optical or audible) indicating AVs intended actions to pedestrians. At the same time, IFP was not opposed to signals indicating the status of the vehicle (whether the autonomous mode is on or not) as long as pedestrians were not expected to change their behaviour in the presence of this signal.

#### C. Miscellaneous

Documentation: Informal document GRE-86-20-Rev.1

27. Based on GRE-86-20-Rev.1, GRE adopted a list of main decisions at its eighty-sixth session (annex V).

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

Documentation: Informal documents GRE-86-12, GRE-86-13

28. The experts of the Task Force on Autonomous Vehicle Signalling Requirements (TF AVSR) briefed GRE on the WP.29 and AC.2 discussions on coordination of work on Automated Driving Systems (ADS), including the conditions, if any, under which an ADS external lighting signal should be activated (GRE-86-13). Pending recommendations of the Working Party on Automated/Autonomous and Connected Vehicles (GRVA) and AC.2 guidance on the issue, the experts of TF AVSR proposed reviewing UN Regulation No. 48 in the context of ADS with the aim to develop alternative switching of light signalling functions independent of the driver (GRE-86-12). GRE stressed the need to screen UN Regulation No. 48 to identify which amendments would be necessary to cater for ADS level 3 and below. GRE noted that TF AVSR would convene a kick-off meeting on this topic in June 2022 and encouraged all experts to participate.

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

- 29. GRE noted that the next session had been scheduled from 25 to 28 October 2022 and that the deadline for submission of working documents would be on 2 August 2022. GRE agreed that the provisional agenda for the next session should be restructured in major blocks as follows:
  - 1. Adoption of the Agenda.
  - 2. 1998 Agreement UN Global Technical Regulations: Development.
  - 3. 1997 Agreement Rules: Development.
  - 4. Simplification of Lighting and Light-Signalling UN Regulations.
  - 5. UN Regulations on Light Sources and the Consolidated Resolution on the Common Specification of Light Source Categories.
  - 6. Installation UN Regulations.
  - 7. Device UN Regulations.
  - 8. UN Regulation No. 10 (Electromagnetic Compatibility).
  - 9. Other UN Regulations.
  - 10. Other Business.
  - 11. Direction of Future Work of GRE.
  - 12. Provisional Agenda for the Next Session.
  - 13. Election of Officers.
- 30. The expert of SAE informed GRE that he would submit a new informal document on a recommended practice for decorative lamps under the new agenda item 10.

#### Annex I

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

Informal documents GRE-86-...

No.	(Author) Title	Follow-up
1	(secretariat) Updated provisional agenda for the eighty-sixth session of GRE	a
2-Rev.1	(IWG EMC) Terms of Reference and Rules of Procedure for the Informal Working Group on Electromagnetic Compatibility	b
3	(IWG SLR) Corrections to the draft 01 series of amendments to UN Regulation No. $148$	a
4	(IWG PTI) Proposal for a Framework Document on Vehicle Whole-Life Compliance (ECE/TRANS/WP.29/2021/148)	d
5-Rev.2	(CLCCR) Proposal for amendments to ECE/TRANS/WP.29/GRE/2022/5	b
5-Rev.3	(CLCCR) Further proposal for amendments to ECE/TRANS/WP.29/GRE/2022/5	e
6	(IWG SLR) Proposal to update the Terms of Reference of IWG SLR	a
7	(IWG SLR) Progress report	f
8	(secretariat) General information and WP.29 highlights	f
9	(Chair) Running order	a
10	(SIG) Status report	f
11	(Japan) Proposal for future approach towards Regulations on lamps under park condition	d
12	(Germany and Chair of TF AVSR) Proposal for changes of the original task of TF AVSR	f
13	(Germany and Chair of TF AVSR) Information from WP.29 with relevance to the TF AVSR	f
14	(Germany) Revision of ECE/TRANS/WP.29/GRE/2022/7	e
15	(Czechia) Proposal for amendment to ECE/TRANS/WP.29/GRE/2022/3	e
16	(OICA) Proposal for a new Supplement to the 06, 07 and 08 series of amendments to UN Regulation No. 48	d
17	(IWG DETA) Proposal for extension of DETA to improve the use of the Unique Identifier for UN Regulations	d
18	(IWG EMC) Working draft of a new 07 series of amendments to UN Regulation No. 10	c
19	(IWG EMC) Status report	f
20-Rev.1	(secretariat) 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.
- $f\quad Consideration\ completed\ or\ to\ be\ superseded.$
- g Withdrawn.

#### Annex II

#### Statements made by experts (in chronological order)

#### **United Kingdom of Great Britain and Northern Ireland**

The invasion of Ukraine violates international law and the UN Charter. As the UN Secretary-General has said, such unilateral measures conflict directly with the United Nations Charter - the use of force by one country against another is the repudiation of the principles that every country has committed to uphold.

As a Permanent Member of the UN Security Council, Russia has a particular responsibility to uphold international peace and security. Instead, it is violating the borders of another country and its actions are causing widespread suffering.

The UK stands united with partners in condemning Russia's outrageous attack on Ukraine as a clear breach of international law and the UN Charter.

While Russia continues to violate international law, human rights and multiple commitments to peace and security, we will work with our allies and partners across the multilateral system to condemn Russia's appalling actions and to isolate it on the international stage.

#### **European Commission**

At the outset let me express the EU and its MS' full solidarity with Ukraine and the Ukrainian people. The EU condemns in the strongest possible terms Russia's unprovoked and unjustified act of aggression against Ukraine, which grossly violates international law and the UN Charter, and undermines international security and stability. The EU demands that Russia immediately cease its military actions, withdraw all its troops from the entire territory of Ukraine and fully respect Ukraine's territorial integrity, sovereignty and independence within its internationally recognised borders and abide by UN General Assembly resolution titled "Aggression against Ukraine" supported by 141 states at the 11th emergency special session. The EU resolutely supports Ukraine's inherent right of self-defence and the Ukrainian armed forces' efforts to defend Ukraine's territorial integrity and population in accordance with Article 51 of the UN Charter. At all times Russia must respect its obligations under international law, including international humanitarian and human rights law, including with respect to the protection of civilians, women and children. Russia also needs to stop its disinformation campaign and cyber-attacks.

#### **United States of America**

The United States stands with the people of Ukraine as they fight to defend their country from Russia's forces. Vladimir Putin has chosen to launch a premeditated, unprovoked war that is bringing catastrophic loss of life, human suffering, and destruction of critical infrastructure and institutions. In response to Russia's aggression and in coordination with partners around the globe, the United States has resolved to impose severe economic costs on Russia, and we urge member states who have not yet done so to join us or adopt similarly restrictive measures. The Inland Transport Committee was crucial to rebuilding Europe after WWII and Russia's aggression seeks to reverse much of that progress by destroying civilian transport infrastructure.

#### Japan

The recent aggression by Russia against Ukraine is a clear violation of Ukraine's sovereignty and territorial integrity, a unilateral attempt to change the status quo by force, and an act that shakes the very foundations of the international order.

In addition, it has come to light that a series of cruel and inhumane acts by Russia have taken place not only in Bucha, near Kyiv, but also in various parts of Ukraine.

The killing of a large number of innocent civilians is a serious violation of international humanitarian law and constitutes an absolutely unforgivable war crime. Russia must be held accountable for such inhumane acts.

Japan stands with the people of Ukraine. We will help Ukraine people through providing humanitarian assistance as well as accepting Ukraine people who have evacuated from their home country.

#### **Annex III**

## Amendments to the Terms of Reference of the Informal Working Group "Simplification of the Lighting and Light-Signalling Regulations"

Section V "Work plan and time schedule", amend to read:

"…

STAGE 2	The overarching objective is to update and harmonize the technical requirements for lighting and light-signalling to be suitable for global implementation under the 1958 and 1998 Agreements.		
STAGE 2 STEP 1	Revise the technical requirements of UN Regulations Nos. 148, 149 and 150, to become technology neutral with performance-based and objective test requirements taking into account glare and visibility.  Amendments will also be required to UN Regulation No. 48 taking into account the work of IWG-VGL.		
	Informal submission to the eighty-third session of GRE	October 2020	
	Final consideration at the eighty-fifth session of GRE	October 2021	
	Adoption by WP.29	June 2022	
STAGE 2 STEP 2	Simplify and update the technical requirements of the UN installation Regulations (Nos. 48, 53, 74, 86), to become technology neutral with performance-based and objective test requirements.  Continue to work on amendments to UN Regulation No. 48 concerning headlamp levelling (in separate SLR meetings).		
	Informal submission to GRE	October 2023	
	Final consideration at GRE	October 2024	
	Adoption by WP.29	2025	

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#### **Annex IV**

## Terms of Reference and Rules of Procedure of the Informal Working Group on Electromagnetic Compatibility

#### I. Introduction

- 1. At its seventy-fourth session, GRE agreed to create a Task Force on Electromagnetic Compatibility (TF EMC), as suggested by the Chair and OICA, that would tackle the issues related to electromagnetic compatibility and possible inclusion in UN Regulation No. 10.
- 2. Since the first session of TF EMC in January 2016, no contracting party had expressed the wish to chair TF. OICA had taken the responsibility of the secretariat task until now.
- 3. At its eighty-fifth session in October 2021, 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).
- 4. GRE invited experts from contracting parties to nominate a Chair for the future IWG EMC (ECE/TRANS/WP.29/GRE/85, paragraph 36) and requested TF EMC to prepare its draft Terms of Reference for consideration at the next session of GRE in April 2022.
- 5. Germany had expressed their intention to chair IWG EMC and would nominate a candidate.

#### II. Objective

- 6. The objective of IWG is to review the current suite of electromagnetic compatibility requirements and to develop within the framework of UN Regulation No. 10 a proposal to:
  - (a) Ensure electromagnetic compatibility;
  - (b) Define the essential requirements in performance (technology neutral) terms to provide opportunities for innovation;
  - (c) Limit the measurement workload to a reasonable level;
  - (d) Update the references to standards if appropriate;
  - (e) Update the references to different vehicle categories;
  - (f) Adapt requirements to technical progress;
  - (g) Reconsider limits, frequency range, required test level and other significant aspects, as deemed necessary;
  - (h) Include provisions related to automated systems (e.g. advanced driver-assistance systems (ADAS), status, pass-fail criteria, post-test checking, ...);
  - (i) Consider an impact of software updates.

The proposal from IWG shall also seek to:

- (j) Reduce ambiguity in the requirements to provide consistent interpretation;
- (k) Reduce the administrative burden (caused by maintenance of regulations) on the Contracting Parties, UN Secretariat (and its associated services) and the affected industrial sector;
- (l) Reduce unnecessary regulatory burden on the industry.
- 7. IWG shall propose a new approach to reform the practice of multiple / collective amendments and may consider (but is not limited by) the consolidation of common requirements to improve the efficiency of the regulatory text.
- 8. In parallel to working on the objectives above, IWG shall:

- (a) Determine whether the current regulatory text presents barriers to innovation and whether (both current and anticipated) safety considerations are addressed;
- (b) Develop, as far as possible, performance-based and technology-neutral requirements to ensure freedom for technical innovation within a framework of safety principles;
- (c) If possible, review electromagnetic compatibility requirements in other UN Regulations, in cooperation with other Working Parties (GRs);
- 9. The key objective is to draft a proposal for a new series of amendments to UN Regulation No.10.

#### III. Operating principles

- 10. IWG EMC is a subgroup of GRE and is open to all participants of GRE, including contracting parties to the 1958 and 1998 Agreements and non-governmental organizations.
- 11. A Chair (Germany) and a Secretary (OICA) shall manage IWG.
- 12. The official language of IWG shall be English.
- 13. The IWG Secretary shall submit the agenda and related documents in a suitable electronic format in advance of all scheduled meetings. All documents shall be posted on the website (https://wiki.unece.org/pages/viewpage.action?pageId=29229615). IWG shall postpone discussion on any item or proposal, which has not been circulated at least five working days in advance of the scheduled meeting.
- 14. The IWG Secretary shall distribute the meeting minutes to the IWG members within fifteen working days after the meeting.
- 15. Decisions and proposals of the group shall be reached by consensus. When consensus cannot be reached, the IWG Chair shall present the different points of view to GRE. The Chair may seek guidance from GRE as appropriate.
- 16. Sessions shall be convened, in agreement with the majority of the participants, after IWG has been established at a constitutional meeting. Sessions may be virtual using webbased technology and shall be scheduled to meet the timeline for deliverables.
- 17. A provisional agenda shall be drafted by the secretariat in cooperation with the IWG participants. The first item of the provisional agenda for each session shall be its adoption.
- 18. The second item on the provisional agenda shall be the discussion on matters arising and adoption of the minutes of the previous session.
- 19. IWG EMC shall report to GRE on its activities and, in regard to paragraph 8 (c), may inform other Working Parties (GRs), in particular the Working Party on General Safety Provisions (GRSG), as appropriate.

#### IV. Work plan and time schedule

- 20. The aim of IWG EMC is to present an informal document for consideration at the eighty-sixth session of GRE in April 2022.
- 21. The key objective of IWG is to present a first formal document for consideration at the eighty-seventh session of GRE in October 2022 (deadline for submission by the end of July 2022), and for adoption by WP.29 in 2023.

#### Annex V

## Decisions adopted under the silence procedure

Decision No.	Agenda Item	Decision
1	1	GRE adopted the provisional agenda ECE/TRANS/WP.29/GRE/2022/1 together with informal documents listed in GRE-86-01.
2	1	GRE took note of statements by the experts of Japan, United Kingdom of Great Britain and Northern Ireland, United States of America and the European Commission related to their country's position on Russia's aggression against Ukraine (annex II to the report). The experts of Australia, France, Germany, Italy and Poland supported these statements.
3	4 (a)	GRE took note of the IWG SLR progress report (GRE-86-07).
4	4 (a)	GRE adopted modifications to the IWG SLR Terms of Reference (GRE-86-06) and extended the IWG SLR mandate until December 2025.
5	4 (b)	GRE noted that the clarifications and corrections to the draft 01 series of amendments to UN Regulation No. 148 (GRE-86-03) had been already included in ECE/TRANS/WP.29/2022/92 that will be considered by WP.29 in June 2022.
6	4 (c)	GRE adopted ECE/TRANS/WP.29/GRE/2022/8 and requested the secretariat to submit it for consideration and vote at the November 2022 sessions of WP.29 and AC.1 as draft Supplement 5 to the original series of amendments to UN Regulation No. 149.
7	4 (c)	GRE adopted ECE/TRANS/WP.29/GRE/2022/4 and requested the secretariat to submit it for consideration and vote at the June 2022 sessions of WP.29 and AC.1 as an informal document to correct the draft 01 series of amendments to UN Regulation No. 149 (ECE/TRANS/WP.29/2022/93).
8	4	GRE noted the views of IWG DETA on the use of UI (GRE-86-17) and reiterated its support to using UI as an alternative to traditional approval markings. GRE agreed that, for the sake of efficient application of UI in the context of simplified UN Regulations Nos. 148, 149 and 150, a summary document should be made available in DETA and that a template for the summary document should as soon as possible be introduced into these Regulations by means of a Supplement. GRE noted that IWG SLR volunteered to draft the summary document without
9	3	delay, with the aim to have a proposal for the next session of GRE.  GRE noted GRE-86-04 on the whole life compliance of vehicles and supported the proposed concept.
10	6 (a)	GRE considered ECE/TRANS/WP.29/GRE/2022/2 and noted issues raised by some experts. GRE invited GTB to discuss the expressed concerns with these experts. GRE decided to revert to the issue at the next session.
11	6 (a)	GRE adopted ECE/TRANS/WP.29/GRE/2022/5, as amended by GRE-86-05-Rev.2 and requested the secretariat to submit it for consideration and vote at the November 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. GRE also noted that CLCCR would submit to the next session further proposals on this topic (GRE-86-05-Rev.3) as a draft new series to UN Regulation No. 48. GRE invited all experts to send to CLCCR their comments, if any, by the end of May 2022.
12	6 (a)	GRE took note of GRE-86-16 on the using direction indicators to warn about unattended children left in cars. GRE was informed about the plans of Euro NCAP to include detection of such children into its assessment program as of 2025. GRE noted that this issue was under consideration of GRSP and that GRBP was starting a discussion on using the vehicle horn (UN Regulation No. 28) for the same purpose. GRE agreed that the frequency and pattern of flashing need to be defined and invited all experts to send their ideas to OICA, with the aim to prepare a revised proposal for the next session. Given the involvement of various GRs, GRE hold the view that coordination at the WP.29 and/or AC.2 would be necessary and requested the Chair to raise this topic at the June 2022 meetings of these bodies. GRE also pointed out that, before a coordinated and harmonized approach had been developed, it would be premature to include the relevant requirement into the car assessment program. GRE invited its experts to convey this message to Euro NCAP.
13	6 (b)	GRE took note of GRE-86-10 and GRE-86-11. GRE agreed that the requirements for lamps on vehicles in the parked condition would be introduced in two steps:

Decision No.	Agenda Item	Decision	
		(1) Regulating current lighting functions under the parked condition by means of a new 09 series of amendments to UN Regulation No. 48. To avoid proliferation of new series, GRE agreed that this new series should also include other amendment proposals being discussed, such as device transition provisions and headlamp levelling. (2) Including the optional use of new lighting functions in the parked condition, by means of a Supplement to the 09 series.	
14	10	GRE agreed that the provisional agenda for the next session should be restructured in major blocks as follows:  1. Adoption of the agenda. 2. 1998 Agreement – UN Global Technical Regulations: Development. 3. 1997 Agreement – Rules: Development. 4. Simplification of lighting and light-signalling UN Regulations. 5. UN Regulations on light sources and the Consolidated Resolution on the common specification of light source categories. 6. Installation UN Regulations. 7. Device UN Regulations. 8. UN Regulation No. 10 (Electromagnetic compatibility). 9. Other UN Regulations. 10. Other business. 11. Direction of future work of GRE. 12. Provisional agenda for the next session.	
1.5		13. Election of officers.	
15	7 (a)	GRE noted the status report of IWG EMC (GRE-86-19) and adopted its Terms of Reference (GRE-86-02-Rev.1).	
16	7 (a)	GRE noted that ECE/TRANS/WP.29/GRE/2022/6 was withdrawn by IWG EMC	
17	7 (b)	GRE addressed a proposal for a new 04 series of amendments to UN Regulation No. 53 (ECE/TRANS/WP.29/GRE/2022/3) and modifications in GRE-86-15. Several experts made preliminary comments and pointed out that they would need more time to study the proposal. GRE invited all experts to send their comments to the authors of the proposal (Germany and Czech Republic), in order to prepare a revised document for consideration at the next session.	
18	7 (c)	GRE discussed a proposal for a new series of amendments to UN Regulation No. 65 (ECE/TRANS/WP.29/GRE/2022/7 and GRE-86-14). A few experts commented on the proposal. GRE invited the author (Germany) to take these comments into consideration and to submit a revised proposal to the next session.	
19	9	GRE took note of WP.29 and AC.2 discussions on coordination of work on Automated Driving Systems (ADS), including the conditions, if any, under which an ADS external lighting signal should be activated (GRE-86-13). While awaiting GRVA recommendations and AC.2 guidance on the issue, GRE stressed the need to screen UN Regulation No. 48 to identify which amendments would be necessary to cater for ADS level 3 and below. GRE noted that TF AVSR would convene a kick-off meeting on this topic in June 2022 and encouraged all experts to participate.	
20	8 (c)	GRE adopted a list of main decisions at its 86th session (GRE-86-20-Rev.1).	

#### Annex VI

### **GRE** informal groups

Informal group	Chair(s) and Co-Chair(s)	Secretary
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