

**GRE Informal Working Group on
Simplification of the UN Lighting and Light Signalling Regulations (SLR)**

38th meeting

WebEx, 27-29 May 2020

REPORT

		Documents
1.	<p>Welcome and opening remarks</p> <p>Mr. Rovers, substituting Mr. Loccufier as Chairman, opened the meeting welcoming all the participants. He explained that, further to the postponement of the 83rd GRE session due to the COVID-19 pandemic, the SLR shall now focus its efforts to finalise the draft text of the new UN Regulations and the accompanying presentations for the October session of GRE.</p> <p>The Chairman additionally informed that, in order to take advantage of the time available during lockdown, since the last SLR session the “homework teams” have held six ad-hoc informal meetings via WebEx to make editorial progress with the three new Regulations. As agreed at the last SLR session, no decision was taken during these meetings, only recommendations for SLR-38.</p>	
2.	<p>Introduction of participants and organisations</p> <p>A list of all participants is available in Annex 1 to this Report. The Secretary informed that there had been many requests concerning the running order of various agenda items, which will be taken into account as much as possible.</p>	
3.	<p>Adoption of the agenda</p> <p>The agenda was adopted with the insertion of new documents. A revised agenda, reflecting the agreed modifications, was circulated as document SLR-38-16/Rev.1.</p>	SLR-38-16
4.	<p>Approval of the reports of the previous sessions</p> <ul style="list-style-type: none">- Report 35th meeting - Brussels, 11-13 December 2019- Report 36th meeting - Brussels, 8-10 January 2020- Report 37th meeting - Brussels, 2-5 March 20 <p>The Reports on the 35th and 36th meetings (documents SLR-35-22 and SLR-36-12 respectively) were approved by SLR. The approval of the last (37th) SLR report was postponed to the next session.</p>	SLR-35-22 SLR-36-12 SLR-37-16

5.	<p>GRE priorities and recurrent items</p> <p>The Chairman introduced a table, based on GRE-83-04, listing the GRE top priorities as follows: 1) Simplification Stage 2; 2) Installation Regulations; 3) EMC issues. In addition to that, the “Unique Identifier” item will also be mentioned but in square brackets since it is not only related to GRE.</p> <p>At the request from Mr. Schwenkschuster to clarify the purpose of this document, The Chairman explained that it was requested by WP.29 to all the GRs for a better allocation of the Secretariat’s time and resources among the GRs. He also recalled that this is a living document that will be regularly updated by GRE.</p> <p>The GRE top priority list (circulated as document SLR-38-27) was agreed and accepted by SLR. It will be made available to the GRE Chairman in view of the June AC.2 session. However, it will not replace the GRE informal document GRE-83-04 which provides a much more comprehensive indication of the current and future GRE activities.</p>	<p>GRE-83-04 SLR-38-27</p>
6.	<p>Format to submit to GRE the SLR proposals for the 01 series of amendments to UN Regulations Nos. 148, 149 and 150</p> <p>This item was not discussed for lack of time. It will stay on the agenda for the next SLR session.</p>	
7.	<p>SLR corrections to UN Regulations</p> <p>- UN Regulation No. 48</p> <p>The Secretary introduced document SLR-38-10 pointing out a number of inconsistencies that have been found among Supplements 11, 12 and 13 to the 06 series of amendments to UN Regulation No. 48.</p> <p>The participants discussed and improved the proposal as reflected in document SLR-38-10/Rev.1. OICA will review this document and will prepare for SLR-39 a revised proposal with the necessary corrections to R48-06.</p> <p>- UN Regulation No. 74</p> <p>Mr. Hernandez introduced document SLR-38-09 explaining that the Class B of R149 should have been introduced in R74 as part of SLR Stage 1, but it was inadvertently forgotten. He announced that IMMA will prepare a proposal for SLR-39, on the basis of SLR-38-09, that will cover both 01 and 02 series of amendments to R74. If approved by SLR-39, it will be sent to GRE-83 as an official document.</p> <p>- UN Regulation No. 148</p> <p>- Failure clarifications for R148-00</p> <p>Mr. Schwenkschuster introduced doc. SLR-38-06 pointing out that, as agreed at SLR-37, the proposal is based on Part A of document SLR-37-05/Rev.1 with the addition of the Justification. He recalled that the proposal was intended only to provide clarifications for failure provisions in R148 in order to ensure the uniform interpretation.</p> <p>The SLR agreed to amend doc. GRE/2020/09 to include the improvements in SLR-38-06. The revised document will be submitted to GRE-83 as GRE/2020/09/Rev.1.</p>	<p>SLR-38-10</p> <p>SLR-38-09</p> <p>GRE/2020/09 SLR-38-06</p>

	<p>- UN Regulation No. 149 - Correction of GRE/2020/10 - Missing examples in Annex 13 of R149-00</p> <p>The SLR reviewed the documents SLR-38-01 and SLR-38-18 and endorsed all the proposed corrections to R149, including the additional modifications suggested by the homework team. Some further improvements were agreed during the meeting, as reflected in documents SLR-38-01/Rev.1 and SLR-38-18/Rev.1.</p> <p>The SLR agreed to amend doc. GRE/2020/10 to include the corrections indicated in these revised documents. The updated proposal will be submitted to GRE-83 as GRE/2020/10/Rev.1.</p> <p>- UN Regulations Nos. 98 and 123 - Correction of GRE/2020/11</p> <p>Mr. Langhammer introduced a revised version of SLR-38-02 where the maximum intensity corresponding to the number 30 in Annex 2, Example 8, has been corrected to read “between 123,625 and 145,125”. This revised document, circulated as SLR-38-02/Rev.1, was based on the proposal to amend GRE/2020/11 to correct the error in the photometric stability test points in R123 (<i>for the similar correction to R149.00, see SLR-38-01</i>).</p> <p>The SLR, after having slightly improved the proposal as reflected in document SLR-38-02/Rev.2, decided to submit it to GRE-83 as GRE/2020/11/Rev.1</p> <p>- UN Regulation No. 150 - Chronological order of tests</p> <p>Mr. Ewald introduced document SLR-38-26/Rev.1 explaining that it was prepared to correct Tables 4, 6 and 8, concerning the chronological order of tests, where the references to the Annexes in the first column were by error still those from the old UN Regulation No. 3.</p> <p>The SLR agreed to amend doc. GRE/2020/12 to include the corrections introduced with document SLR-38-26/Rev.1. The updated proposal will be submitted to GRE-83 as GRE/2020/12/Rev.1.</p>	<p>GRE/2020/10 SLR-38-01 SLR-38-18</p> <p>GRE/2020/11 SLR-38-02</p> <p>GRE/2020/12 SLR-38-26/Rev.1</p>
<p>8.</p>	<p>Stage 2 / Step 1 Simplification – SLR package for GRE-83 - UN Regulations Nos. 48, 53, 74, 86 - R48 update with new RID beam in R149</p> <p>The SLR took note of the document SLR-38-07 summarising the impact that the 01 series of amendments to R149 will have to the installation Regulations. Ms. Berthel briefly introduced document SLR-38-23 explaining the proposed amendments to R48 that will be necessary with the introduction of the new beams in R149.01.</p> <p>The SLR discussed and commented the proposal during the meeting as reflected in document SLR-38-23/Rev.1.</p> <p>GTB, with the assistance of OICA, will improve document SLR-38-23/Rev.1 and its justification for SLR-39. IMMA and CEMA will draft similar amendments to R53, R74 and R86 respectively. Further to the adoption of the text by SLR-39, similar amendments will be prepared for the other (lower) series of amendments.</p>	<p>SLR-38-07 SLR-38-23</p>

<p>- UN Regulation No. 148 - Restructuring and Improvement of Par. 4.8.3.</p> <p>Mr. Schwenkschuster introduced document SLR-38-04/Rev.1 explaining the new structure of the requirements. This was endorsed by the SLR as indicated in the slide No.5 of the document.</p> <p>Mr. Schwenkschuster furthermore explained, on the basis of doc. SLR-38-03, how the actual text of the UN Regulation No. 148 will look like further to the restructuring of the requirements. The SLR discussed and improved the proposal during the meeting as reflected in document SLR-38-03/Rev.1.</p>	<p>SLR-38-03 + SLR-38-04/Rev.1</p>
<p>- Updated baseline document (Rev. of SLR-37-14) - Draft presentation of the main changes</p> <p>Mr. Schwenkschuster informed about the availability of an updated draft consolidated proposal for R148-01 (doc. SLR-38-20/Rev.1) and the associated draft presentation on the main changes (doc. SLR-38-19/Rev.1). The SLR discussed and commented the proposal (see Par. 3.1.2.4.) as reflected in document SLR-38-20/Rev.2. This document reflects all the latest changes, except for the restructuring of Par. 4.8.3. (see SLR-38-03/Rev.1). The amendments concerning the light sources have also not fully implemented yet (see SLR-35-05/Rev.1 and SLR-37-07/Rev.1).</p>	<p>SLR-38-20/Rev.1 SLR-38-19/Rev.1</p>
<p>- Discussion paper on Change Index (Table 2)</p> <p>Mr. Bauckhage introduced document SLR-38-05/Rev.1 explaining that it was intended as a discussion paper regarding the Table 2 “Change Index”.</p> <p>Mr. Langhammer argued that, in the case of R149, the changes in 01 series of amendments are of such a magnitude, that it may be considered having a change index “1” for all existing functions.</p> <p>Mr. Hay drew attention to the fact that it needs to be made clear which function is possible in which series of amendments. During the discussion it was observed that merely a dash “-“ would not be enough as indicator in the table. It must be explained, e.g. “<i>not (yet) possible in this series of amendments</i>”, “<i>no longer possible from this series of amendments</i>”.</p> <p>At the end of the debate, the SLR agreed to add the following Note after the Table 2 in the new device Regulations Nos 148, 149 and 150: <i>A dash “-“ means that this function is not available for type approvals according to the corresponding series of amendments.</i></p> <p>A revised document, reflecting the agreed modifications, was circulated as SLR-38-05/Rev.2.</p>	<p>SLR-38-05/Rev.1</p>
<p>- UN Regulation No. 149 - Updated baseline document (Rev. of SLR-37-04/Rev.1) - Options for Figures in Annex 4 - Editable Figures for Annexes 5 and 6 - System Approach for R149</p> <p>The SLR agreed to use, as a baseline document for discussion at SLR38, a commented version of SLR-38-11 which included the input on light source matters from Mr. Schlager.</p>	<p>SLR-38-11 SLR-38-24/Rev.1 SLR-38-25 SLR-38-22</p>

Mr. Blusseau introduced the GTB idea for “system approach” and its impact on the text of R149.01 (document SLR-38-22). He explained that a concrete draft proposal will be prepared for SLR-39.

The document reflecting the latest status of discussion at the SLR-38 and including the main observations made during the meeting and the main tasks assigned was circulated as SLR-38-11/Rev.1. In case of lack of negative comments (objections) by SLR-39, the 0.25° tolerance in Tables 16, 17 and 18 will be maintained.

The “R149 homework team” was asked to draft a presentation for SLR-39 explaining the most important modifications done until now, similar to what has been done for R148 with document SLR-38-19/Rev.1.

Documents SLR-38-24/Rev.1 and SLR-38-25 were not considered for lack of time. They will be addressed at the next SLR session.

- UN Regulation No. 150

Mr. Ewald informed that the latest draft consolidated document was still SLR-36-10/Rev.1. Nevertheless, he introduced an updated presentation explaining the most important modifications done (doc. SLR-38-08/Rev.1).

The SLR reviewed and improved the drawings in the last slide of the presentation. An updated version reflecting all the agreed changes was circulated as document SLR-38-08/Rev.2.

The updated consolidation under preparation will include all the modifications indicated in document SLR-38-08/Rev.2. The discussion on R150 will resume at the SLR-39 on the basis of an updated text to be provided by Mr. Ewald.

The SLR furthermore agreed to organise in the coming weeks some WebEx meetings involving the homework team leaders (Mr. Bauckhage, Mr. Langhammer, Mr. Ewald), the SLR officers (Mr. Loccufier, Mr. Lazarevic, Mr. Rovers, Mr. Puglisi) plus IMMA (Mr. Hernandez), CEMA (Mr. Tissier) and OICA (Mr. Prigent) to make editorial progress with the three new Regulations. No decision will be taken during these meetings, only recommendations for SLR-39.

Introduction of Scientific notation

- General remarks
- Changes to R148
- Changes to R149
- Changes to R150

SLR-38-12

SLR-38-13

SLR-38-14

SLR-38-15

Mr. Kooss informed that, as agreed at the last SLR session, GTB has produced a proposal to introduce the scientific notation in each of the new device Regulations (documents SLR-38-13, -14, -15). He also introduced document SLR-38-12 containing the general principles to be followed.

During the discussion, some minor improvements were agreed by SLR as reflected in document SLR-38-12/Rev.1.

	<p>Regarding the proposed changes to R150 (i.e. SLR-38-15), Mr. Ewald reported that several points needed to be corrected. The SLR agreed with the correction proposed as indicated in document SLR-38-15/Rev.1.</p> <p>An ad-hoc informal meeting via WebEx will be organised involving Mr. Kooss, Mr. van Laarhoven and the homework team leaders (Mr. Bauckhage, Mr. Langhammer, Mr. Ewald) as well as the Chairman and the Secretary. Revised proposals will be prepared for SLR-39.</p>	
9.	<p>Headlamp levelling</p> <p>- Revised SLR proposal for R48</p> <p>- Detailed justifications for SLR proposal</p> <p>Mr. Prigent informed that, due to the disruptions caused by the COVID-19 pandemic, OICA regretrfully was not able to deliver the proposal in time for this session.</p> <p>OICA will provide, if possible, for SLR-39 detailed justifications for the Headlamp levelling proposal (GRE/2020/8). This will be sent by SLR as an informal document to GRE-83.</p>	GRE/2020/8
10.	<p>Consequences, follow-up after light sources simplification</p> <p>This item was not discussed for lack of time. It will stay on the agenda for the next SLR session.</p>	SLR-17-03
11.	<p>How to apply the “frozen” UN Regulations – Replies from CPs</p> <p>Mr. Horii introduced document SLR-38-21 explaining that it was based on document SLR-32-19/Rev.1 with the addition of a new slide 8. He stressed that for Japan it is essential to keep consistency between the series number indicated on the approval number and the one shown on approval marking, as doing otherwise could cause confusion. Mr. Pamart shared the same view concerning the importance to keep consistency.</p> <p>The SLR observed that there is no need to change the moulding as the new series was only administrative in order to freeze the Regulations.</p> <p>The SLR agreed to integrate the slide in doc. SLR-35-20/Rev.2 in the SLR presentation to the next GRE with a direct question to all CPs whether there is an administrative need to request an “old/new” mix of approval number and marking. GRE will be asked by SLR to indicate in its minutes how to correctly apply the frozen Regulations.</p> <p>All SLR members were invited to seek feedback from old participants in GRE who might remember how this situation was managed when R8 and R20 had been frozen to introduce R112.</p>	SLR-38-21 SLR-35-20/Rev.2
12.	<p>Japanese Study on the Effects of Driver Assistance Projections on the Driver’s Perception of Nearby Traffic</p> <p>Mr. Horii introduced document SLR-38-17/Rev.1 explaining how the Japanese study on the reaction time has been carried out and the first results obtained. He informed that the test was static but, as a second step, Japan is considering to set up a dynamic test in the future.</p>	SLR-38-17/Rev.1

	<p>Mr. Pamart expressed interest to investigate the perception from other road users as well as the potential distraction on symbols seen in the same driving direction but from adjacent lanes.</p> <p>It was observed that this function is intended for the driver, nevertheless it should be considered what is the distraction that can be accepted for other road users. To this end Mr. Langhammer informed about the results of a TUD study which did show no distraction for other road users.</p> <p>All SLR members were invited to study the document SLR-38-17/Rev.1 and to provide further comments or suggestions to Japan by 3 July 2020.</p>	
13.	<p>Deletion of Parking Lamps; Proposals to amend UN Regulations Nos. 148, 48 (Par. 6.12.3.) and 86 (Par. 6.11.)</p> <p>This item was not discussed for lack of time. It will stay on the agenda for the next SLR session.</p>	
14.	<p>Unique Identifier, status update</p> <p>This item was not discussed for lack of time. It will stay on the agenda for the next SLR session.</p>	SLR-37-01
15.	<p>Any Other Business</p> <p>There was no other business for discussion.</p>	
16.	<p>Next meeting(s)</p> <p>The SLR agreed the following meeting schedule:</p> <ul style="list-style-type: none"> ➤ 39th SLR meeting – WebEx, on 7-10 July 2020 * ➤ 40th SLR meeting – WebEx, on 26-28 August 2020 ➤ 41st SLR meeting – WebEx, on 21-23 September 2020 <p>Due to COVID-19 pandemic, the next meetings most likely will be WebEx only. The 41st SLR session could be held in person in Brussels at CLEPA, depending on the COVID-19 evolution.</p> <p><i>* Note: the deadline for submission of official documents to the GRE-83 “postponed session” is 27 July 2020.</i></p>	
17.	<p>Closure</p> <p>The Chairman thanked all the participants for their fruitful contribution, despite the additional difficulties caused by the corona virus, and closed the meeting.</p>	

Participation at 38th SLR meeting WebEx, 27-29 May 2020

27 May 2020	28 May 2020	29 May 2020
Mr. Davide PUGLISI (GTB, SLR Secr)	Mr. Davide PUGLISI (GTB, SLR Secr)	Mr. Davide PUGLISI (GTB, SLR Secr)
Mr. Derwin ROVERS (NL, Act. Chair)	Mr. Derwin ROVERS (NL, Act. Chair)	Mr. Derwin ROVERS (NL, Act. Chair)
Ms. Aurélie BERTHEL (OICA)	Mr. Yoshiro AOKI (JP)	Ms. Aurélie BERTHEL (OICA)
Mr. Eric BLUSSEAU (GTB)	Ms. Aurélie BERTHEL (OICA)	Mr. Subrat DASH (IMMA)
Mr. Subrat DASH (IMMA)	Mr. Subrat DASH (IMMA)	Mr. Jürgen EWALD (CLEPA)
Mr. Jürgen EWALD (CLEPA)	Mr. Jürgen EWALD (CLEPA)	Mr. Beny GRIGORESCU (GTB)
Mr. Beny GRIGORESCU (GTB)	Mr. Manabu FUSHIMI (JP)	Mr. Frédéric HAY (CLEPA)
Mr. Frédéric HAY (CLEPA)	Mr. Beny GRIGORESCU (GTB)	Mr. Pere HERNANDEZ (IMMA)
Mr. Pere HERNANDEZ (IMMA)	Mr. Frédéric HAY (CLEPA)	Mr. Dieter KOOß (DE)
Mr. Dieter KOOß (DE)	Mr. Pere HERNANDEZ (IMMA)	Mr. Takahiro KOYAMA (JP)
Mr. Takahiro KOYAMA (JP)	Mr. Kousuke HORII (JP)	Mr. Gert LANGHAMMER (CLEPA)
Mr. Gert LANGHAMMER (CLEPA)	Ms. Yoko KATO (JP)	Mr. Jean-Marc PRIGENT (OICA)
Mr. Jean-Marc PRIGENT (OICA)	Mr. Dieter KOOß (DE)	Mr. Antoine PAMART (FR)
Mr. Antoine PAMART (FR)	Mr. Takahiro KOYAMA (JP)	Mr. Michael PERNKOPF (GTB)
Mr. Michael PERNKOPF (GTB)	Mr. Gert LANGHAMMER (CLEPA)	Mr. Walter SCHLAGER (IEC)
Mr. Philipp PLATHNER (IEC)	Mr. Jean-Marc PRIGENT (OICA)	Mr. Lukas SCHWENKSCHUSTER (GTB)
Mr. Walter SCHLAGER (IEC)	Mr. Antoine PAMART (FR)	Mr. Varun SHARMA (IMMA)
Mr. Lukas SCHWENKSCHUSTER (GTB)	Mr. Michael PERNKOPF (GTB)	Mr. Wilfried VAN LAARHOVEN (NL)
Mr. Varun SHARMA (IMMA)	Mr. Walter SCHLAGER (IEC)	
Mr. Wilfried VAN LAARHOVEN (NL)	Mr. Lukas SCHWENKSCHUSTER (GTB)	
	Mr. Varun SHARMA (IMMA)	
	Mr. Wilfried VAN LAARHOVEN (NL)	

Apologies:

Mr. Sebastian FAHR (OICA)
 Mr. Tomasz TARGOSIŃSKI (PL)
 Mr. Geoff DRAPER (GTB)
 Mr. Michel LOCCUFIER (BE, SLR Chair)
 Mr. Aleksander LAZAREVIC (EC, SLR Vice-Chair)