

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

**35<sup>th</sup> meeting**

11-13 December 2019

CLEPA Headquarters  
Cours Saint-Michel 30g, Brussels

**REPORT**

		<b>Documents</b>
<b>1.</b>	<b>Welcome and opening remarks</b> Mr. Rovers, substituting Mr. Loccufier who was not able to attend this session, opened the meeting welcoming all the participants.	
<b>2.</b>	<b>Introduction of participants and organisations</b> A list of all participants is available in Annex 1 to this Report.	
<b>3.</b>	<b>Adoption of the agenda</b> The agenda was adopted with the insertion of new documents. A revised agenda, reflecting the agreed modifications, was circulated as document SLR-35-02/Rev.1.  The SLR confirmed to allocate most of the morning session of the 2 <sup>nd</sup> day of meeting (i.e. 12 December 2019) to item 9 “Headlamp levelling”. This will facilitate the participation of Japanese experts via WebEx. The outcome of the dedicated ad-hoc meeting (workshop) held in Bonn on 28 November 2019 will be considered under item 9.	<b>SLR-35-02</b>
<b>4.</b>	<b>Approval of the reports of the previous sessions</b> - Report 32 <sup>nd</sup> meeting - Tokyo, 3-5 September 2019 - Report 33 <sup>rd</sup> meeting - Brussels, 9-11 October 2019 - Report 34 <sup>th</sup> meeting - Brussels, 4-6 November 2019  The Report on the 32 <sup>nd</sup> meeting (doc. SLR-32-22) was approved by SLR. The approval of the latest reports was postponed to the next session.	<b>SLR-32-22</b> <b>SLR-33-17</b> <b>SLR-34-12</b>
<b>5.</b>	<b>Consideration of GRE priorities for discussion</b> The SLR improved document SLR-34-06/Rev.2 by adding the following two topics of future work:	<b>SLR-34-06/Rev.2</b>

	<ul style="list-style-type: none"> <li>- “Apparent surface, new definition and possibly new measurements, to ensure better correlation with appearance of the lamp in reality” under the simplification cluster</li> <li>- “Amendments to avoid bypassing the approval to other UN Regulations” under the Regulatory development cluster / Reg. 10</li> </ul> <p>The SLR observed that this document is a living document and that it will be regularly amended. The updated document, reflecting the above modifications, was circulated as document SLR-34-06/Rev.3.</p> <p>Although this is still in a form of “list of work items”, it was agreed that, in the future SLR sessions, it will be further improved by assigning priorities and differentiating short/long term projects on the basis of what has been done by GRBP (doc. GRBP-70-10) and GRPE (doc. GRPE-80-04). Finally, this document will then be discussed at the 83<sup>rd</sup> GRE session.</p>	
6.	<p><b>Corrections to the new UN Regulations (00 series)</b></p> <p><b>- UN Regulation No. 148 / LSD</b></p> <p>Mr. Bauckhage introduced document SLR-35-01 pointing out that some of the proposed corrections apply to the 00 series while others to the 01 series.</p> <p>The SLR improved the text as reflected in document SLR-35-01/Rev.1. The part of this revised proposal concerning the 00 series will be sent to GRE-83 (after SLR-36) as Suppl. to the 00 series of amendments. The part concerning the 01 series will be included in the proposal to simplify the whole text of UN Regulation No. 148 (doc. SLR-35-09/Rev.1).</p> <p><b>- UN Regulation No. 149 / RID</b></p> <p>Mr. Langhammer reported that some inconsistencies and errors have been identified by Mr. Giottoli in Table 8 and Annex 7. He informed that they will prepare a proposal for consideration at SLR-36.</p> <p><b>- UN Regulation No. 150 / RRD</b></p> <p>Mr. Ewald introduced documents SLR-35-03 and SLR-35-10, both intended to correct and improve Annex 24.</p> <p>The SLR preferred the solution proposed in SLR-35-10, which was further improved during the meeting as reflected in document SLR-35-10/Rev.1. This document will be sent to GRE-83 (after SLR-36) as Suppl. to the 00 series of amendments.</p> <p>The SLR furthermore agreed that, in the 01 series of R150, it will be removed the “104R” from Fig. A24-III and the “27R” from Fig. A24-V.</p>	<b>SLR-35-01</b>
7.	<p><b>Stage 2 / Step 1 Simplification – SLR package for GRE-83</b></p> <p><b>- UN Regulation No. 48</b></p> <p>Mr. Blusseau introduced document SLR-35-11 explaining that the purpose of this proposal was a first attempt to define an “Auxiliary driving beam” further to its introduction in UN Regulation No. 149.</p> <p>During the discussion, it was observed that such devices would need a specific marking and that their number and switching conditions would need to be defined as well as the electrical connections.</p> <p>The SLR did not reach a conclusion. Additional work in R48 will be necessary in order to have a clearer understanding of the issue.</p>	<b>SLR-35-03, SLR-35-10</b>
		<b>SLR-35-11</b>

<p><b>- UN Regulation No. 148 / LSD</b> (<i>baseline doc. GRE-82-30</i>)</p> <p>Mr. Plathner introduced document SLR-35-05 explaining the main modifications introduced to Par. 4.3. and the new Annex 8 for testing.</p> <p>The SLR improved the text as reflected in document SLR-35-05/Rev.1. The discussion will resume at the next meeting.</p> <p>Mr. Bauckhage introduced the updated draft commented revision of R148 (document SLR-35-09) explaining the work done.</p> <p>With regards to the Polish proposal to amend Table 6 (i.e. GRE-82-10/Rev.1) Mr. Langhammer commented that it would not be easy to satisfy the proposed values because too close. The first general impression of SLR was that the proposed amendment by Poland would not be needed but equally it would not cause problems. The SLR agreed to take a final decision on this matter at the next session based on additional input and clarifications from Poland.</p> <p>The SLR improved the text as reflected in document SLR-35-09/Rev.1. This also includes the part of document SLR-35-01/Rev.1 concerning the 01 series of amendments to R148 (see item 6 of this Report). The discussion will resume at the next meeting.</p>	<p><b>SLR-35-05</b></p> <p><b>SLR-35-09</b></p>
<p><b>- UN Regulation No. 149 / RID</b> (<i>baseline doc. SLR-34-11</i>)</p> <p>The SLR agreed to use SLR-35-06 (based on the latest draft consolidated document SLR-34-11) as baseline document to review and improve the draft updated text of Reg. 149, including the proposed amendment concerning the light sources.</p> <p>Mr. Langhammer prepared a clean and corrected version of Tables 9 and 10 that was circulated as document SLR-35-18. This document was approved by SLR as well as the proposal, prepared by Mr. Bauckhage, to correct Par. 3.3.2.6.3. concerning the marking of modules (document SLR-34-09).</p> <p>Mr. Schlager explained the modifications introduced in Par. 4.5.3. as well as in Annexes 9 and 15 with regards to the light sources.</p> <p>The SLR considered document SLR-35-04 concerning light source flux and improved the text of the proposal as reflected in document SLR-35-04/Rev.1. The SLR expressed general support for this proposal, except for Mr. Targosinski who stated that Poland was not in favour.</p> <p>Mr. Hay introduced document SLR-35-07 regarding the “half of the sum” issue. The SLR improved the text as reflected in document SLR-35-07/Rev.1.</p> <p>Mr. Koyama introduced document SLR-35-08 explaining that it represents the result of an analysis of Par. 4 “General technical requirements”, except for light sources matters. The SLR agreed to reword and simplify the text of Par. 4.10. rather than deleting it as initially proposed (see doc. SLR-35-08/Rev.1).</p> <p>The SLR noted document SLR-35-12 from GTB, providing a list of the beams and their symbols in RID Stage 1 and 2. This document was considered a useful tool for the future work on Reg. 149.</p> <p>The SLR furthermore noted document SLR-35-17 submitted by Mr. Targosinski as a response to the GTB document SLR-33-13. Since the Polish document did not pertain to any concrete proposal for the discussion on the R149 Stage 2 simplification, it was decided not to consider it and spend the time on actual proposals.</p>	<p><b>SLR-34-09</b></p> <p><b>SLR-35-04</b></p> <p><b>SLR-35-06</b></p> <p><b>SLR-35-07</b></p> <p><b>SLR-35-08</b></p> <p><b>SLR-35-12</b></p> <p><b>SLR-35-17</b></p> <p><b>SLR-35-18</b></p>

	<p>The latest draft consolidated document reflecting the latest status of discussion was circulated as SLR-35-06/Rev.1. This includes the input from SLR-34-09 and SLR-35-18 and several other improvements agreed at SLR-35. The latest draft amendments concerning the light sources can be found at the end of this document.</p> <p>Documents SLR-35-04/Rev.1 (light source flux), SLR-35-07/Rev.1 (Half of sum) and SLR-35-08/Rev.1 (Revision of Par. 4) reflect the latest status of discussion of these proposals. The discussion will resume at the next meeting.</p> <p><b>- UN Regulation No. 150 / RRD (baseline doc. GRE-82-26)</b></p> <p>In addition to the agreed corrections and improvements to Annex 24 (see item 6 of this Report and doc. SLR-35-10/Rev.1), the SLR considered a proposal from Germany to reduce the minimum number of standard areas (circulated as document SLR-35-19).</p> <p>The discussion will resume at the SLR-36 based on an updated text provided by Mr. Ewald and including also the above German proposal. Any comments to the draft updated Reg. 150 shall be sent to Mr. Ewald.</p>	<b>SLR-35-19</b>
8.	<p><b>Consequences, follow-up after light sources simplification - Electronic light source control gear</b></p> <p>This item was not discussed due to lack of time. It will stay on the agenda for the next meeting.</p>	<b>SLR-17-03</b>
9.	<p><b>Headlamp levelling</b></p> <p><i>For information:</i></p> <ul style="list-style-type: none"> <li>- Japanese proposal to amend GRE-82-25</li> <li>- Requirements on dynamic headlamp levelling devices</li> <li>- Polish proposal to amend GRE-82-25</li> </ul> <p><b>- Minutes from ad-hoc meeting on 28 November 2019</b></p> <p>Mr. Goldbach went through document SLR-35-13/Rev.1, thus reporting on, and highlighting the main outcome of, the ad-hoc meeting and the open questions for SLR. Furthermore, he reported that dynamic Headlamp Levelling Devices (dHLD) had also been discussed, but it was concluded that this subject is not for SLR decision as it will be addressed at GRE-83 in April 2020.</p> <p><b>- Revised proposal, based on GRE-82-25, after ad-hoc meeting</b></p> <p><b>- Polish proposal for modified “BOX” according to PTI levelling uncertainty</b></p> <p>The SLR considered the revised proposal, resulting from the ad-hoc meeting (doc. SLR-35-16), in parallel with the Polish proposal for a modified levelling “box” (doc. SLR-35-15).</p> <p>Mr. Pamart stated that France was against the Polish proposal and observed that SLR should not reopen the discussion on the agreed parts. SLR should instead focus on the green dotted part of the diagram (i.e. for headlamp mounting height above 1.2 m) and on PTI.</p> <p>Mr. Rovers reported that The Netherlands shared similar position as France.</p>	<i>SLR-34-07</i> <i>SLR-34-01</i> <i>GRE-82-43</i> <b>SLR-35-13/Rev.1</b>  <b>SLR-35-16</b> <b>SLR-35-15</b>

	<p>Mr. Manz, after having initially expressed some support for the Polish proposal, informed that Germany supported the levelling box resulting from the ad-hoc meeting.</p> <p>Mr. Lazarevic reported that the EC would also be in favour of the “red box” as described in SLR-35-16.</p> <p>Mr. Pamart furthermore observed that fixing a limit for the initial aim will solve the problem with PTI tolerances. He also recalled that the “red box” was based on the Klettwitz study and that is an important factor that should be taken into account.</p> <p>A document showing the two diagrams superimposed (including information on the road illumination and glare) was drafted for consideration during the meeting. After the session Mr. Targosinski will circulate the document for information and reference purposes (see document SLR-36-01).</p> <p>Regarding the levelling box (Par. 6.2.6.1.2.), the SLR supported by majority (Poland against) the diagram proposed in document SLR-35-16.</p> <p>Concerning the manual option for levelling device (Par. 6.2.6.2.2.), Mr. Pamart recommended to keep both possibilities (automatic and manual) as he observed that the important point is to stay within the “box” regardless of the specific technological solution. He added that, in case of manual levelling the HMI/ergonomics of the device shall be improved (e.g. more visible location of the levelling control) as well as the communication to the driver (e.g. information on the dashboard similar to the “<i>Gear Shift Indicator</i>”).</p> <p>Mr. Targosinski shared the outcome of a Polish research on the driver awareness of manual levelling device (see document SLR-36-02).</p> <p>The SLR agreed, for the time being, not to delete the paragraph. It will stay in square brackets. It was also recognised that, in case the manual levelling option would finally be maintained, some work in conjunction with GRSG might be necessary for amending UN Regulation No. 121.</p> <p>Regarding the 2000 lm criterion for cleaning device (Par. 6.2.9. &amp; 6.22.9.1.) the representatives of France, Germany, Netherlands and Japan expressed the intention to keep such a criterium because, for the time being, there is no better alternative. Mr. Rovers commented that levelling is paramount to avoid glare while cleaning is a less powerful tool (certainly regarding glare, but also regarding visibility range).</p> <p>The SLR agreed to maintain the 2000 lm criterion for cleaning and observed that an amendment to UN Regulation No. 45 might be necessary as well in the future.</p>	
10.	<p><b>Application of current UN Regulations after entry into force of Stage 1</b></p> <p>SLR resumed the discussion on the series of amendment to be indicated in the approval number and in the approval marking based on the input provided by The Netherlands (doc. SLR-35-21, based on SLR-32-19/Rev.1).</p> <p>After a lengthy discussion on the correct series of amendment to be indicated in the approval number and in the approval marking, the SLR produced a slide summarising all the possible combinations.</p>	<p><b>SLR-32-19/Rev.1</b></p> <p><b>SLR-35-20</b></p> <p><b>SLR-35-21</b></p>

	<p>It was agreed to circulate such a slide as document SLR-35-20, asking all CPs to indicate in the right column their preference(s) and to provide additional comments, if any, in time for discussion at SLR-36.</p>	
	<p><b>Mounting provisions for secondary driving beams in R53 and R74</b></p> <p>Mr. Hernandez introduced document SLR-35-14 explaining that the proposal is aimed at reflecting in R53 and R74 the existing connection provisions for secondary driving beams, already laid down in Reg. 113.</p> <p>The SLR improved the text as reflected in document SLR-35-14/Rev.1.</p>	<b>SLR-35-14</b>
11.	<p>Mr. Hernandez will improve the justification of this document by adding some sketches of the possible configurations. IMMA will have to consider if a definition for “non-secondary driving beam” would be appropriate and will also check if all series of amendments to R53 and R74 shall be addressed.</p> <p>With regards to definitions and terminology, a consistency check with document GRE/2019/29 (Par. 2.7.6.) will be necessary. The discussion will resume at SLR-36 based on a final proposal from IMMA.</p>	
12.	<p><b>Deletion of side mounted Parking Lamps</b></p> <p>The SLR agreed to delete the side mounted parking lamps, but not as a matter of urgency. In addition to Reg. 148, Reg. 48 (Par. 6.12.3.) and Reg. 86 (Par. 6.11.) will also need to be amended. This topic will be kept on the agenda for being addressed at a later SLR session.</p> <p>Furthermore, it was agreed that, once the device Regulations will be close to finalization for Stage 2 Step 1, the pertinent associations (i.e. OICA for Reg. 48, IMMA for Regs. 53 and 74, CEMA for Reg. 86) will start the drafting of the necessary amendments to the installation Regulations.</p>	
13.	<p><b>Unique Identifier, status update</b></p> <p>Mr. Pamart reported on the outcome of the 36<sup>th</sup> DETA session on 7 November 2019 regarding the “Unique Identifier” subject. He informed that DETA seems to have understood the GRE issue after he delivered the same presentation made at GRE-82 (doc. GRE-82-31). GRE shall make a concrete proposal to extend the access rights as summarised in the presentation.</p> <p>The SLR agreed to make a clear presentation for the 180<sup>th</sup> WP.29 session in March 2020 to show what is needed (also with examples). This will be based on the “Option 2” of document WP.29-179-21. Mr. Bauckhage volunteered to draft such a presentation.</p>	
14.	<p><b>CEMA proposal to amend UN Regulation No. 86</b></p> <p>Mr. Tissier introduced document SLR-34-05, explaining that the purpose of the proposal was to align the requirements of UN Reg. 86 with the present requirements of Annex XII to Regulation (EU) 2015/208. He informed that CEMA will send this proposal to GRE-83 as a formal document.</p>	<b>SLR-34-05</b>
15.	<p><b>Updated list of potential candidate functions for GTRs</b></p> <p>Due to lack of time, this item was postponed to the next SLR session.</p>	<b>SLR-31-02</b>
16.	<p><b>Any Other Business</b></p> <p>There was no other business for discussion.</p>	

	<p><b>Next meeting(s)</b></p> <p>The SLR agreed the following meeting schedule:</p> <ul style="list-style-type: none"> <li>➤ <b>36<sup>th</sup> SLR meeting</b> – Brussels (BE) on 8-10 January 2020</li> <li>➤ <b>37<sup>th</sup> SLR meeting</b> – Brussels (BE) on 2-5 March 2020</li> </ul>	
17.	<p>Unless otherwise specified, the meetings in Brussels are held at the CLEPA Headquarters in Cours Saint-Michel 30g and WebEx connection is always provided. The starting time on the first day is 13:00 hrs and the finish time is 12:30 hrs on the last day of meeting.</p>	
18.	<p><b>Closure</b></p> <p>Mr. Loccufier thanked all the participants for their fruitful contribution and closed the meeting.</p>	

**Participation at 35<sup>th</sup> SLR meeting  
11-13 December 2019**

<b>IN PERSON</b>	<b>WEBEX/TELEPHONE</b>
Mr. Davide PUGLISI (GTB, SLR Secretary)	Mr. Gert LANGHAMMER (CLEPA)
Mr. Derwin ROVERS (NL)	Mr. Michael PERNKOPF (GTB) – 12 Dec
Mr. Pere HERNANDEZ (IMMA) – 12, 13 Dec	Mr. Tomasz TARGOSIŃSKI (PL) 11-12 Dec only
Mr. Jean-Marc PRIGENT (OICA)	Mr. Lukas SCHWENKSCHUSTER (GTB)
Mr. Wilfried VAN LAARHOVEN (NL) – 11, 12 Dec	Mr. Karl MANZ (DE)
Mr. Takahiro KOYAMA (JP)	Mr. Beny GRIGORESCU (GTB)
Mr. Frédéric HAY (CLEPA)	Mr. Kousuke HORII (JP) – 12 Dec a.m. only
Mr. Thomas BAUCKHAGE (CLEPA)	Mr. Manabu FUSHIMI (JP) – 12 Dec a.m. only
Ms. Aurélie BERTHEL (OICA) – 12, 13 Dec	Mr. Yoshiro AOKI (JP) – 12 Dec a.m. only
Mr. Walter SCHLAGER (IEC) – 12, 13 Dec	Mr. Teruyoshi FUJITA (JP) – 12 Dec a.m. only
Mr. Jürgen EWALD (CLEPA) – 11, 12 Dec	Ms. Kiyomi FUJIMOTO (JP) – 12 Dec a.m. only
Mr. Antoine PAMART (FR) – 11, 12 Dec	Mr. Varun SHARMA (IMMA)
Mr. Philipp PLATHNER (IEC) – 11, 12 Dec	Mr. Subrat DASH (IMMA)
Mr. Marco MANZINI (CEMA) – 12 Dec	Mr. Geoff DRAPER (GTB) – 12 Dec
Mr. Christophe TISSIER (CEMA) – 12 Dec	Mr. Philipp PLATHNER (IEC) – 13 Dec
Mr. Aleksander LAZAREVIC (EC) – 12 Dec	Mr. Thomas GOLDBACH (OICA)
	Mr. Eric BLUSSEAU (GTB) – 12 Dec
	Mr. Oliver BARTELS (DE) – 12 Dec
	Mr. Maxim BIERBACH (DE) – 12 Dec
	Mr. Marek ZÖLLER (DE) – 12 Dec

Apologies:

Mr. Michel LOCCUFIER (BE, SLR Chair)

Mr. Rainer KRAUTSCHEID (DE)