

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

28th meeting

25-27 February 2019

CLEPA Headquarters
Cours Saint-Michel 30g, Brussels

REPORT

		Documents
1.	Welcome and opening remarks Mr. Loccufier, Chairman of the Informal Working Group, opened the session welcoming all the participants.	
2.	Introduction of participants and organisations A list of all participants is available in Annex 1 to this Report.	
3.	Adoption of the agenda The agenda was adopted with the insertion of several new documents and some new items. A revised agenda, reflecting the agreed modifications, was circulated as document SLR-28-06/Rev.2.	SLR-28-06/Rev.2
4.	Approval of the reports of the previous sessions - Report 26 th meeting - Brussels, 24-26 September 2018 - Report 27 th meeting - Brussels, 10-12 December 2018 The reports were approved without changes. Mr. Grigorescu pointed out that only Reports can mention names of people because, in case of incorrect statements, they can be corrected at the subsequent session prior to their approval. All other documents are not subject to systematic revision and approval before being posted on the website and, once they are online, they remain there forever even if including errors or wrong statements. The SLR agreed that only Reports should include names of people to avoid incorrect attribution of comments or positions.	SLR-26-14 SLR-27-16

	<p>General update on Stage 2 progress for each new UN Regulation and progress report from “homework teams”</p> <p>Mr. Ewald reported on the progress of work for the new Regulation RRD on the basis of an Excel file (doc. SLR-28-17) which compared the various requirements of the different retro-reflective markings. He informed that a lot of work still has to be done and his target was to deliver a first complete draft RRD text with the proposed modifications for consideration at the 30th SLR session in May 2019.</p> <p>Mr. Blusseau introduced document SLR-28-13 pointing out the latest status of work within GTB. He explained the improvements introduced to the current RID text and the progress made in cooperation with IMMA, while he reported that from CEMA no feedback has been received yet. Mr. Puglisi was asked to contact again CEMA to renew their invitation to participate in SLR or, at least, to provide input.</p> <p>Mr. Blusseau informed that a status report and, if possible, some initial portions of the RID text with the proposed modifications will be provided for consideration at the next SLR session in March 2019 (e.g. those indicated in green colour in SLR-28-13, slide 21). GRE-76-04/Rev.1 shall be taken into account when preparing the tables for passing beam. A first complete draft RID document should be available for the SLR-30 session in May 2019.</p> <p>Mr. Bauckhage introduced document SLR-28-16 pointing out the main topics under consideration within GTB. He also informed that there are ongoing interactions with Chinese experts concerning rear fog and reversing lamps. He reported that the opening of D and Y lamps to all functions is another topic under consideration, in addition to new functions such as ADS lighting, AV signalling and road projections.</p> <p>Mr. Bauckhage informed that a status report and, if possible, some initial portions of the LSD text with the proposed modifications will be provided for consideration at the next SLR session in March 2019 (e.g. Restructuring of Par. 5 and the other points in SLR-28-16, slide 3). A first complete draft LSD document should be available for the SLR-30 session in May 2019.</p>	<p>SLR-28-17 (RRD)</p> <p>SLR-28-13 (RID)</p> <p>SLR-28-16 (LSD)</p>
<p>5.</p> <p>6.</p>	<p>IMMA clarifications and proposal for Stage 2 RID: Symmetrical Passing Beam and Classification</p> <p>Mr. Nakahira introduced document SLR-28-14 pointing out that it aimed to provide clarifications and answers to the questions raised to IMMA during the 27th SLR session. He explained that, while motorcycles and cars drive at comparable speed and on the same roads, motorcycles fundamentally behave in a different way on the road as they lean in corners. For this reason, a symmetrical beam pattern represents an advantage for visibility. Additionally, it has practically achieved harmonisation with US FMVSS108 motorcycle lower beam headlamp requirement.</p> <p>Concerning the other question, namely why the discrimination is based on cm³ (or kW) and not on speed, Mr. Nakahira explained that the current threshold of 125 cm³ is an outcome of the past simplification efforts and is well aligned with other regulations and traffic laws. He therefore recommended maintaining it for practical reason rather than for performance.</p> <p>The SLR thanked IMMA for the detailed explanation and agreed to continue the work on the RID Stage 2 taking the IMMA input into account.</p>	<p>SLR-28-14</p>

	<p>Polish comments to RID related discussions at SLR-27</p> <p>Further to the remarks of Mr. Grigorescu (see item 4 of this Report), Mr. Puglisi will amend document SLR-28-02 to state that it was based on the author's understanding (<i>the amended document was circulated after the meeting as SLR-28-02/Rev.1</i>).</p> <p>7. Mr. Targosinski introduced document SLR-28-02, explaining in details his comments to the RID related discussion at the 27th SLR session.</p> <p>The SLR decided to stop discussing this matter until a concrete proposal is available. Only at that point the participants will be invited to propose constructive and concrete counter proposals, if any, based on data and real experience.</p>	<p>SLR-28-02</p>
<p>8.</p>	<p>Resume discussion on “Factors influencing glare” (SLR-27-10/Rev.1)</p> <p>- Letter from a citizen regarding the issue of glare received by the EC The discussion of this document was postponed to the next SLR session.</p> <p>- Dutch input to SLR-27-10/Rev.1 Mr. Rovers briefly introduced document SLR-28-15 explaining the proposed priorities for the Stage 2.</p> <p>The participants discussed on the role of luminance due to the small size of Head Lamps while the public blames LED or HID for causing glare.</p> <p>Mr. Pernkopf reported about some ISAL studies presented by Mr. Locher, which showed no glare issues associated with small size of headlamps. According to these studies, glare seems largely depending on illuminance.</p> <p>The SLR agreed to invite Mr. Locher to attend one of the future SLR sessions to provide further details and updates on his studies.</p> <p>Due to different opinions on this proposal, the reference document will remain SLR-27-10/Rev.1. This item will stay on the agenda.</p>	<p>SLR-28-05</p> <p>SLR-28-15</p>
<p>9.</p>	<p>Compromise between visibility and glare</p> <p>- Polish suggestions</p> <p>The SLR studied in details the Polish suggestions to document SLR-28-03, circulated as document SLR-28-11. Due to the absence of Mr. Targosinski, it was not possible to ask clarifications during the meeting. The comments raised by the SLR were indicated on the document and Mr. Targosinski was invited to provide clarifications. The discussion will resume at the next session on the basis of the revised document.</p> <p><i>Note: the clarifications provided by Mr. Targosinski have been distributed as document SLR-28-11/Rev.1</i></p>	<p>SLR-28-03</p> <p>SLR-28-11</p>
<p>10.</p>	<p>Regulations 19, 98, 112, 113, 123 and RID cut-off sharpness positions and tolerances harmonisation</p> <p>Mr. Grigorescu introduced document SLR-28-04 explaining the outcome of his work to find a compromise solution to align the tolerances between type approval and CoP testing. He also pointed out the inconsistencies found.</p> <p>The SLR examined in details the comparison tables in document SLR-28-04 and discussed on whether keeping the current tolerances for type approval specific for the Left-Hand Traffic (LHT) and Right-Hand Traffic (RHT). It was agreed to further verify this (see doc. SLR-28-04/Rev.1) and decide at the next session.</p>	<p>SLR-28-04</p>

	<p>Draft new Annexes 5 and 6 for RID Mr. Grigorescu furthermore introduced document SLR-28-08, intended to propose revised Annexes 5 and 6 for the RID Regulation, reflecting all the harmonised requirements concerning lamp position and tolerances presented in SLR-28-04.</p> <p>The SLR examined line-by-line document SLR-28-08 and improved its contents. All the comments resulting from the discussion have been indicated on the text and circulated as document SLR-28-08/Rev.1.</p> <p>During the discussion it was acknowledged that the new UN Regulations should be consistent, if possible, concerning where the CoP requirements should be placed. To this end, the “homework teams” will check where the current CoP requirements are in the new Regulations: main body vs. Annexes (e.g. Annex 2 for RID and RRD whereas Annex 4 for LSD). The discussion will resume at the next session on the basis of the advice from the “homework teams” on how to improve the text, if necessary.</p> <p>Background of cut-off position tolerances for motorcycle headlamp Mr. Nakahira presented document SLR-28-18/Rev.1, intended to provide some background information and history on the cut-off position tolerances for motorcycle headlamps. He explained that, from a technology neutral point of view, Par. 4.1.2. in the new Annex 5 (see doc. SLR-28-08/Rev.1) should be removed.</p> <p>The SLR agreed to remove Par. 4.1.2. in the new Annex 5.</p> <p>SLR members were invited to study documents SLR-28-04/Rev.1 and SLR-28-08/Rev.1 and provide feedback to Mr. Grigorescu by 15 March 2019. The discussion will resume at the next (29th) SLR session on the basis of a revised proposal to be prepared by Mr. Grigorescu, taking into account the input received and the conclusions in doc. SLR-28-18/Rev.1 (slide 5).</p>	<p>SLR-28-08</p> <p>SLR-28-18/Rev.1</p>
<p>11.</p>	<p>Light Source proposal concerning LSD and RID Regulations on the basis of SLR-27-05 Mr. Schlager introduced document SLR-28-09 pointing out that the proposed approach for RID/LSD stage 2 concerning light sources can be summarised as follows:</p> <ul style="list-style-type: none"> ➤ <i>Technology-neutral requirements</i> ➤ <i>Lamp/function-dependent timing requirements</i> ➤ <i>Only testing stays technology-specific</i> <p>The SLR agreed to amend the slide 6 to indicate that the timing requirements shall be for “time critical” signals and illumination. This modification will be reflected in a revised document circulated as SLR-28-09/Rev.1.</p> <p>Mr. Plathner introduced the table in document SLR-28-12 concerning the time dependant testing requirements. Mr. Targosinski suggested considering a range of time instead of fixed values.</p> <p>The SLR invited Mr. Schlager and Mr. Plathner to prepare a proposal for consideration at the next (29th) SLR session, based on the approach indicated in slide 6 of doc. SLR-28-09/Rev.1 and taking also into account the discussion during SLR-28. Moreover, it was also agreed to ask advice to GRE, as part of the SLR report to GRE-81, whether the mixing of Light Sources should be possible for all functions or should be kept like today.</p>	<p>SLR-28-09 SLR-28-10</p> <p>SLR-28-12</p>

12.	<p>Updated list of potential candidate functions for GTRs</p> <p>Mr. Grigorescu briefly introduced SLR-27-02/Rev.1 recalling that the document was addressed at the last session with the intention to stimulate the discussion. He will group the topics in LSD, RID and RRD for information.</p> <p>The SLR agreed that “cargo lamps” should be added to the list. It was also observed that while ADS lighting would be the best candidate for a GTR, Virtual-Reality test in laboratory of ADB systems could also be of interest.</p> <p>Comparison between Chinese GB4785 and UN Regulation No. 48-06</p> <p>Ms. Berthel presented a comparison table between Reg. 48-06 and the latest Chinese GB 4785 installation standard (doc. SLR-28-01). She pointed out the installation requirements which are identical and those that have differences. In general, it was observed that there is a good compatibility between the two regulatory texts.</p> <p>SLR members were invited again to study document SLR-27-02/Rev.1 and to provide additional input, including functions which are not today in Reg. 48 (e.g. cargo lamp). The discussion will resume at the next session on the basis of the input received, however it was acknowledged that any meaningful discussion on GTRs shall necessarily involve also USA and China but both CPs are not active in the GRE-IWG SLR.</p>	<p>SLR-27-02/Rev.1</p> <p>SLR-28-01</p>
13.	<p>Outcome of DETA-ETRTO meeting on UI on 21 February 2019</p> <p>- The Unique Identifier and its impact/usage in LSD/RID/RRD</p> <p>Mr. Bauckhage briefly reported on the results of the meeting of the DETA Group of Interested Experts (GOIE) on Unique Identifier, held at ETRTO on 21 February 2019. He explained that the outcome of the meeting was successful for ETRTO, which led to amend the Guidelines for application of the Unique Identifier (doc. DETA-33-08).</p> <p>Mr. Prigent informed that OICA will attend the next DETA meeting and will provide some feedback to the SLR.</p> <p>The discussion on the impact/usage in LSD/RID/RRD will continue at the next session on the basis of a discussion document to be finalised by Mr. Bauckhage. Questions like “what markings will actually be replaced by the UI?”, “what is the need to have all the existing markings?”, “should some of the existing marking be maintained also with the UI?” will be addressed during SLR-29 and then brought to the attention to GRE, as necessary.</p>	<p>SLR-28-07</p>
14.	<p>Feedback from CEMA on RID, R86 and other simplification related matters</p> <p>No input was received from CEMA. This item will stay on the agenda.</p>	
15.	<p>Any Other Business</p> <p>- Supplements to existing Regulations that have an impact on extensions</p> <p>Mr. Bauckhage briefly informed about the problem identified by OICA in document WP.29-176-25 concerning the supplements’ entry into force.</p> <p>The SLR concluded that the best approach would be to combine amendments like in the case of the 07 series of amendments to UN Regulation No. 48.</p>	<p>WP.29-176-25</p>

<p>16.</p>	<p>Next meeting(s)</p> <p>The SLR agreed the following meeting schedule:</p> <ul style="list-style-type: none"> ➤ 29th SLR meeting – Brussels (BE) on 27-29 March 2019 ➤ 30th SLR meeting – Brussels (BE) on 22-24 May 2019 ➤ 31st SLR meeting – Brussels (BE) on 3-5 July 2019 ➤ 32nd SLR meeting – Tokyo (JP) on 3-5 September 2019 <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>	
<p>17.</p>	<p>Closure</p> <p>Mr. Loccufier thanked all the participants for their fruitful contribution and closed the meeting.</p>	

Annex 1 to SLR-28-19

Participation at 28th SLR meeting 25-27 February 2019

IN PERSON	WEBEX/TELEPHONE
Mr. Michel LOCCUFIER (BE, SLR Chair)	Mr. Phil BAILEY (UK)
Mr. Derwin ROVERS (NL)	Mr. Thomas GOLDBACH (OICA)
Mr. Davide PUGLISI (GTB, SLR Secretary)	Mr. Philipp PLATHNER (IEC)
Mr. Frédéric HAY (CLEPA)	Mr. Michael PERNKOPF (GTB)
Mr. Thomas BAUCKHAGE (CLEPA)	Mr. Tomasz TARGOSIŃSKI (PL) – 25-26 Feb
Mr. Jean-Marc PRIGENT (OICA)	Mr. Eric BLUSSEAU (CLEPA) – 26 Feb
Mr. Erik VANDERVREKEN (CLEPA)	Mr. Lukas SCHWENKSCHUSTER (GTB) – 27 Feb
Mr. Takahiro KOYAMA (JP)	Mr. Rainer KRAUTSCHEID (DE) – 26-27 Feb
Mr. Walter SCHLAGER (IEC)	Mr. Pere HERNANDEZ (IMMA)
Mr. Beny GRIGORESCU (GTB)	Mr. Subrat DASH (IMMA) – 26-27 Feb
Ms. Aurélie BERTHEL (OICA)	
Mr. Wilfried VAN LAARHOVEN (NL) – 26-27 Feb only	
Mr. Jürgen EWALD (CLEPA) – 25-26 Feb	
Mr. Gert LANGHAMMER (CLEPA)	
Mr. Kota NAKAHIRA (IMMA)	
Mr. Rainer KRAUTSCHEID (DE) – 25 Feb	
Mr. Masaru MAMIYA (IMMA)	
Mr. Thomas VERCAMMEN (IMMA) – 26 Feb	

Apologies from:

- Ms. Daniela LEVERATTO (IMMA)
- Mr. Aleksander LAZAREVIC (EC, SLR Vice-Chair)
- Mr. Antoine PAMART (FR)
- Mr. Geoff DRAPER (GTB)