

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

30th meeting

22-24 May 2019

CLEPA Headquarters
Cours Saint-Michel 30g, Brussels

REPORT

| | | Documents |
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| 1. | Welcome and opening remarks Mr. Rovers, substituting Mr. Loccufier who was not able to attend this session, opened the meeting 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 new documents. A revised agenda, reflecting the agreed modifications, was circulated as document SLR-30-04/Rev.1. | SLR-30-04/Rev.1 |
| 4. | Approval of the reports of the previous sessions - Report 28 th meeting - Brussels, 25-27 February 2019 - Report 29 th meeting - Brussels, 27-29 March 2019 The approval of the reports was postponed to the next session. | SLR-28-19 SLR-29-10 |
| 5. | Necessary corrections to the new UN Regulations - UN Regulation No. [148] / LSD Following a brief introduction by Mr. Schwenkschuster, the SLR agreed to submit document SLR-30-14 to the 82 nd GRE session as an official proposal. - UN Regulation No. [149] / RID Mr. Bauckhage introduced document SLR-30-01 pointing out the urgency of the identified corrections, especially those to the Table 8. The SLR agreed that the corrections to the Table 8 and, if possible, also to the Table 13 should be treated as a matter of urgency and instructed Mr. Puglisi to contact | SLR-30-14 SLR-30-01 |

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| | <p>the GRE Secretariat for guidance in order to find the most appropriate way to quickly introduce these corrections.</p> <p>Following a brief introduction by Mr. Langhammer, the SLR agreed to submit document SLR-30-16 to the 82nd GRE session as an official proposal.</p> <p>- UN Regulation No. [150] / RRD</p> <p>Mr. Ewald reported that the text of R-150 currently does not include the existing provisions in Reg. 3, Par. 4.1.2. He announced that, for the next SLR session, he would provide a proposal for corrigendum to R-150 with the purpose to reinsert such provisions inadvertently forgotten.</p> | <p>SLR-30-16</p> |
| <p>6.</p> | <p>Light Source proposal concerning LSD and RID Regulations</p> <p>Mr. Schlager reported on the main feedback received during GRE-81 concerning the SLR requests for advice on light sources. He informed that GRE agreed that all technologies should be allowed for all functions. While requirements should be common for all technologies, the test requirements could be technology-specific. GRE furthermore agreed that the combination of different light source technologies should be possible for all functions.</p> <p>Mr. Schlager recalled that the main paragraphs to be amended in R-149 (RID) concerning light sources are Par. 4.5.1. and Par. 4.6. and a draft of the proposed amendments can be found in document SLR-29-05. He explained that the test procedures are not technology neutral and, for this reason, they would be moved to an Annex while the function-specific requirements would remain in the main regulatory text.</p> <p>Mr. Goldbach commented that the proposed approach of separating requirements from testing seems to be complicated.</p> <p>Mr. Plathner briefly introduced document SLR-30-02 explaining the work done further to the outcome of discussion at the last session (see SLR-29-06) concerning the difference among approved Light Sources, Light Source Modules and Non-replaceable Light Sources.</p> <p>Following the light sources debate in the context of the RID Regulation, Mr. Schlager produced a discussion document (circulated as SLR-30-22) based on the current minimum safety requirements, in order not to exclude any present technology.</p> <p>Mr. Schlager and Mr. Plathner, with the assistance of Mr. Langhammer, Mr. Bauckhage and Mr. Bluseau, will prepare for SLR-31 an updated proposal based on document SLR-30-22. The discussion will resume at the 31st SLR session in July 2019 based on the new proposal.</p> | <p>SLR-29-05</p> <p>SLR-30-02</p> <p>SLR-30-22</p> |
| <p>7.</p> | <p>Progress on Stage 2 simplification</p> <p>- UN Regulation No. [148] / LSD</p> <p>Mr. Bauckhage introduced document SLR-30-12 providing a comprehensive status report concerning the Stage 2 simplification for the LSD Regulation.</p> <p>The SLR agreed in principle to delete Par. 5.x.3 concerning “Colour”. No final conclusion was taken on “Failure provisions”. GTB will provide examples about the three possible options, i.e. 1. make reference to the relevant paragraph; 2. copy the whole text each time; 3. remove paragraph because redundant. A final confirmation on both subjects is expected for the 31st SLR session.</p> | <p>SLR-30-12</p> |

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| <p>The SLR furthermore agreed to delete Par. 5.4.2.2. (copy-paste error) in slide 5. It was also endorsed the proposed deletion, in slides 8 and 9, of the text indicated in red colour.</p> <p>Further to the introduction by Mr. Bauckhage of document SLR-30-13 concerning Side Parking Lamps, the SLR agreed in principle to delete such lamps, pending final confirmation at SLR-31. To this end all CPs, as well as OICA, IMMA and CEMA, were requested to be ready to confirm (or not) such a decision at the 31st SLR session. If SLR will confirm its decision to delete Side Parking Lamps, a collective amendment will be prepared for GRE-82 addressing UN Regulations Nos. 48, 53, 74, 86 and 148.</p> | <p>SLR-30-13</p> |
| <p>- UN Regulation No. [149] / RID</p> <p>Mr. Blusseau provided a detailed status report concerning the Stage 2 simplification for the RID Regulation based on document SLR-30-11.</p> <p>In response to the concerns expressed by Mr. Targosinski about the low visibility distance, Mr. Blusseau pointed out the improvement of the range and the width of the light on the road with similar glare values as currently in UN Regulation No. 123.</p> <p>Mr. Langhammer explained that it would not be possible to further increase the visibility distance of the passing beam without increasing glare.</p> <p>Mr. Grigorescu briefly introduced document SLR-30-15/Rev.1 (Rev. of SLR-29-02/Rev.1) explaining that it reflects the latest status of the work done with Annexes 5 and 6 to the new RID Regulation, including verification of all the cross-references. He recalled that the proposal was based on document SLR-28-04/Rev.1.</p> <p>Support for document SLR-28-04/Rev.1 was expressed by the representatives of The Netherlands, France and Germany. Considering the positive input from CPs, and lack of negative feedback, the SLR approved document SLR-30-15/Rev.1.</p> <p>Mr. Langhammer will prepare, on the basis of SLR-30-15/Rev.1, a draft updated text of the R-149 (RID) by introducing the amendments concerning the CoP provisions (see SLR-29-07 and 08). This document will be finally reviewed at the SLR-31 and, once adopted, will become the new RID baseline document (<i>see item 8 of this Report</i>). The next steps agreed by the SLR will be the introduction of technology neutral provisions for light sources and the updated beam patterns. The goal is to present at the GRE-82 in October an informal RID text including all these draft amendments.</p> | <p>SLR-30-11</p> <p>SLR-30-15/Rev.1</p> |
| <p>- UN Regulation No. [150] / RRD</p> <p>Mr. Ewald, on the basis of document SLR-30-19, provided a complete status report on the work done with the simplification of the RRD text. He informed that paragraphs 5.1. to 5.3. and paragraphs 5.4. to 5.8. will be combined as well as the tables for reflectors and for markings.</p> <p>SLR members were invited to study document SLR-30-19 and provide comments to Mr. Ewald by 14 June 2019. Based on the feedback received, Mr. Ewald will prepare an updated version of R-150 for consideration at the 31st SLR session in July 2019.</p> | <p>SLR-30-19</p> |

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| 8. | <p>Baseline document for draft UN Regulation No. [149] / RID</p> <p>Mr. Puglisi introduced document SLR-30-03 pointing out that the purpose of this massive Excel file is to serve as a tool for producing an updated baseline document for the RID Regulation. He explained that this Excel file gathers all the available draft proposals to amend the RID Regulation with the aim to allow identifying inconsistencies and errors.</p> <p>The SLR reviewed document SLR-30-15/Rev.1 in the context of the summary of draft proposals showed by document SLR-30-03 and agreed to proceed with the RID Regulation following a sequential step-by-step approach. To this end Mr. Langhammer offered to prepare, on the basis of SLR-30-15/Rev.1, a draft updated text of the R-149 (RID) by introducing the amendments concerning the CoP provisions (see SLR-29-07 and 08). This document will be finally reviewed at the SLR-31 and, once adopted, will become the new RID baseline document.</p> <p>The next steps agreed by the SLR will be the introduction of technology neutral provisions for light sources and the updated beam patterns. The final goal will be to present at the GRE-82 in October an informal RID text including all these draft amendments.</p> | SLR-30-03 |
| 9. | <p>Resume discussion on where CoP requirements should be located in LSD and RRD, based on the work done for RID (see SLR-29-07 and 08)</p> <p>The SLR briefly resumed the discussion concerning where the CoP requirements should be located and agreed that for R148 (LSD) there is no need to change the current CoP requirements. Concerning R150 (RRD), Mr. Ewald will provide some feedback at the SLR-31 session in July 2019.</p> | |
| 10. | <p>Resume discussion on “Factors influencing glare” (see SLR-27-10/Rev.1 and GRE-68-38, 39 and 40)</p> <p>- Presentation by Dr. Locher regarding “Visibility and Glare”</p> <p>Mr. Locher introduced document SLR-30-20 providing a detailed overview on his studies concerning glare in the light tunnel as well as in the laboratory. He reported that headlamp misalignment seems to be one of the main issues as it brings too high illuminance in the eye of the oncoming drivers. If headlamps are correctly adjusted, no significant differences in disability glare were noticed. He pointed out that meeting the legal requirements is fundamental to keep a good visual performance.</p> <p>Mr. Locher informed that further studies are planned with higher values to consider new headlamp prototypes with extremely small light emitting areas. He explained that to reduce the discomfort glare it could be useful to reduce the colour temperature but other aspects should also be considered such as the luminance and the size of the apparent surface.</p> <p>The SLR thanked Mr. Locher for sharing the outcome of his studies and invited him to be involved again with the SLR for future discussions on this important subject.</p> <p>- Letter from a citizen regarding the issue of glare received by the EC</p> <p>The SLR took note of the document SLR-28-05, in particular concerning the suggestions to use blue filters for headlamps and to reduce the level of brightness for DRL.</p> | <p>SLR-30-20</p> <p>SLR-28-05</p> |

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| <p>11.</p> | <p>Resume discussion on “performance based” and what is meant by “performance”</p> <p>- GTB Response to the comments from Poland</p> <p>The SLR took note of document SLR-30-07, where GTB responded to the comments from Poland (doc. SLR-28-11) concerning the discussion on the compromise between visibility and glare.</p> <p>Mr. Targosinski introduced document SLR-30-18, explaining the most important points addressed in the paper.</p> <p>- Polish concrete examples of amendment to existing Regulations on the basis of SLR-28-11/Rev.1</p> <p>Mr. Targosinski introduced document SLR-30-17, providing detailed explanations of his draft proposal for performance oriented photometric requirements for RID. He informed that the proposal, based on the general positions expressed in previous documents produced by Poland, takes also into account dynamic/adaptive possibilities (see text in green colour).</p> <p>The SLR took note of the explanations provided and agreed to resume the discussion at the next session.</p> | <p>SLR-30-07</p> <p>SLR-30-18</p> <p>SLR-30-17</p> |
| <p>12.</p> | <p>Headlamp levelling; review GRE/2019/03 taking into account the “red box” (GRE-81-21) and solve the text in square brackets</p> <p>For lack of time, this item was postponed to the next SLR session.</p> | <p>SLR-30-21</p> |
| <p>13.</p> | <p>Guidance from GRE after SLR Report to GRE-81 (doc. GRE-81-19)</p> <p>- Polish response to the SLR request for guidance</p> <p>Mr. Targosinski introduced document GRE-81-22 providing additional clarifications for all the questions from Poland, concerning the approach being taken by the SLR, with regards to the Stage 2 simplification of the RID Regulation.</p> <p>During the extensive debate on this document, Mr. Targosinski questioned the need for 16 beam patterns if the basic passing beam would be enough. Mr. Blusseau clarified that the basic “C” passing beam is the best compromise while the “V”, “E” and “W” passing beams, which are optional, are the best for the specific cases (mission related).</p> <p>Mr. Targosinski also commented that with a random check of points in the illumination area, instead of checking fix points, there would be no holes in the lighting distribution. Mr. Grigorescu pointed out that the scenario described in slide 15 is theoretical as it would be very difficult, in reality, to see holes in passing beams fulfilling the proposed illumination requirements. Mr. Blusseau observed that the random check of points would not be acceptable because not repeatable.</p> <p>At the end of the long debate, touching upon documents GRE-81-22, SLR-30-11 and SLR-30-17, the SLR invited Mr. Targosinski, Mr. Blusseau and Mr. Grigorescu to continue the discussion offline with the aim, if possible, to find a compromise solution to be proposed at the SLR-31.</p> | <p>GRE-81-22</p> |

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| | <p>Unique Identifier and its impact/usage in LSD/RID/RRD Regulations (doc. GRE-81-20) - DETA draft Guidelines for application of the Unique Identifier (UI) - DETA initial draft Unique Identifier (UI) – Q&A</p> <p>Mr. Rovers briefly introduced document SLR-30-06 pointing out that it is only an initial draft shared by the DETA group for collecting feedback from SLR in view of the next DETA session.</p> <p>14. The SLR studied carefully the document and proposed its input as indicated in document SLR-30-06/Rev.1. Mr. Puglisi will send this document to the DETA Secretariat as SLR input for the next DETA session.</p> <p>The SLR furthermore agreed on the need to identify new “SLR ambassadors” for participating in DETA meetings. Mr. Grigorescu and Mr. Bauckhage accepted to take this role (pending availability). In order to reduce travelling costs, Mr. Puglisi will investigate if participation to DETA via WebEx would be feasible.</p> | <p>SLR-30-05 SLR-30-06</p> |
| <p>15.</p> | <p>Input from CEMA on RID, R86 and other simplification related matters - Feedback on SLR activities regarding agricultural vehicles - Draft proposal to amend R86</p> <p>Mr. Vermeulen, based on document SLR-30-09, provided a synthesis of the initial feedback from CEMA on the SLR activities having an impact on agricultural vehicles.</p> <p>Mr. Vermeulen also introduced document SLR-30-10, explaining the main contents of the CEMA proposal to amend the UN Regulation No. 86. He informed that the proposal is intended to align the requirements of Reg. 86 with the present requirements of Annex XII to Regulation (EU) 2015/208.</p> <p>The SLR thanked CEMA for sharing its proposal to amend R86 and stressed the importance to continue this useful exchange also in the future.</p> <p>Additionally, the question concerning the possible deletion of the side parking lamp was recalled by Mr. Bauckhage. Mr. Vermeulen said that for CEMA the deletion seems to be acceptable, at least from his point of view, since they do not use it. In order to formalize the answer, CEMA was requested to officially respond to SLR on this specific question.</p> <p>Concerning the question in the justification No. 11, the SLR has found quite strange that the “class E” would still be acceptable as currently indicated in the CEMA proposal. According to the proposal for Suppl. 1 to the 01 series of amendments to R86 (doc. WP.29/2018/110/Rev.1), adopted by WP.29 in March 2019, the “class E” is not indicated in the text. However, the SLR recommended Mr. Vermeulen to address the question from CEMA to Mr. Ewald for further details.</p> | <p>SLR-30-09 SLR-30-10</p> |
| <p>16.</p> | <p>Updated list of potential candidate functions for GTRs</p> <p>For lack of time, this item was postponed to the next SLR session.</p> | <p>SLR-27-02/Rev.1</p> |
| <p>17.</p> | <p>Any Other Business</p> <p>There was no other business for discussion.</p> | |

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| <p>18.</p> | <p>Next meeting(s)</p> <p>The SLR agreed the following meeting schedule:</p> <ul style="list-style-type: none"> ➤ 31st SLR meeting – Brussels (BE) on 3-5 July 2019 ➤ 32nd SLR meeting – Tokyo (JP) on 3-5 September 2019 ➤ 33rd SLR meeting – Brussels (BE) on 9-11 October 2019 ➤ 34th SLR meeting – Brussels (BE) on 4-6 November 2019 ➤ 35th SLR meeting – Brussels (BE) on 11-13 December 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>19.</p> | <p>Closure</p> <p>Mr. Rovers thanked all the participants for their fruitful contribution and closed the meeting.</p> | |

Annex 1 to SLR-30-23

Participation at 30th SLR meeting 22-24 May 2019

| IN PERSON | WEBEX/TELEPHONE |
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| Mr. Derwin ROVERS (NL) | |
| Mr. Aleksander LAZAREVIC (EC, SLR Vice-Chair) – 23 May only | Mr. Lukas SCHWENKSCHUSTER (GTB) – 22 May only |
| Mr. Davide PUGLISI (GTB, SLR Secretary) | Mr. Thomas GOLDBACH (OICA) |
| Mr. Philipp PLATHNER (IEC) | Mr. Varun KUMAR (IMMA) |
| Mr. Frédéric HAY (CLEPA) | Mr. Tomasz TARGOSIŃSKI (PL) – 22, 23 May only |
| Mr. Gert LANGHAMMER (CLEPA) | Mr. Maxim BIERBACH (DE) |
| Mr. Thomas BAUCKHAGE (CLEPA) | Ms. Julia BRAEUTIGAM (DE) – 23, 24 May only |
| Mr. Takahiro KOYAMA (JP) | Mr. Jürgen EWALD (CLEPA) – 22 May only |
| Mr. Walter SCHLAGER (IEC) | Mr. Jürgen LOCHER (CLEPA) – 23 May only |
| Mr. Thomas VERCAMMEN (IMMA) – 23 May only | Mr. Subrat DASH (IMMA) |
| Mr. Pere HERNANDEZ (IMMA) | |
| Mr. Beny GRIGORESCU (GTB) | |
| Ms. Aurélie BERTHEL (OICA) | |
| Mr. Antoine PAMART (FR) | |
| Mr. Thomas SCHRAMM (OICA) | |
| Mr. Eric BLUSSEAU (CLEPA / GTB) | |
| Mr. Antoon VERMEULEN (CEMA) – 24 May only | |

Apologies from:

- Mr. Erik VANDERVREKEN (CLEPA)
- Mr. Michel LOCCUFIER (BE, SLR Chair)
- Mr. Karl MANZ (DE)
- Mr. Rainer KRAUTSCHEID (DE)
- Mr. Geoff DRAPER (GTB)
- Mr. Jean-Marc PRIGENT (OICA)