Outcome SLR-22

Shenzhen (CN), 29 Jan – 1 Feb 2018
Installation of Functions

All functions shall not be detrimental for road safety (although they may not necessarily improve road safety, e.g. logo lights)

List of functions for road safety:
- Mandatory functions (including Autonomous mode ON/OFF and AV’s intention)
- Optional functions
  - Could improve safety (FFL, cornering, AFS, etc.)
  - Comfort lamp (exterior courtesy lamp, logo, signature lamps, etc.)

Every technical solution is allowed, provided that it fulfils certain requirements: switching conditions, colour, look, performance requirements / boundaries, etc.
Simplify UN installation Regulations (48, 53, 74, 86) and harmonise with corresponding Chinese GB Standards.

Improve the simplified UN device Regulations resulting from Stage 1 (i.e. LSD, RID and RRD) with regards to:

- technology neutral
- performance based requirements
- objectively testable provisions

Align all changes with the progress of the corresponding simplified Chinese GB Standards.

Minor amendments to installation will be necessary.

STAGE 2 = SIMPLIFIED REGULATIONS with technology neutral and performance based requirements

STEP 1
What realistically can be achieved by the end of 2019

STEP 2
What will be delivered afterwards (not because less important but because requiring more time!)

Simplify UN installation Regulations (48, 53, 74, 86) and harmonise with corresponding Chinese GB Standards.

Need to update SLR Terms of References!
Timeline for Stage 2
- Step 1 and Step 2 -

STAGE 2

Today
Feb 2018

STEP 1

End of 2019

STEP 2

Possibly
Mid-2024

Timing to be discussed according to the earliest date that a further update to GB4785 (installation) could be submitted for publication
Window of Opportunity – Synchronisation with Chinese GB Standards

Draft plan for Stage 2

GRE-83 deadline

Ongoing SLR Meetings
Meetings to be synchronised with GRE sessions

UNECE

SLR 20 | SLR 21 | SLR 22

2017 | 2018 | 2019 | 2020 | 2021

CHINA

Window of Opportunity

09-2021 UN Entry into force

GRE Adoption

W29 Adoption

12-2019 draft for approval

06-2020 China Adoption

12-2020 China Entry into Force

GRE 79 | GRE 80 | GRE 81 | GRE 82 | WP29 Nov 2020
**GRE IWG “SLR”**  
Stage 2 / Step 1 – Alignment of Regulations (RID)

<table>
<thead>
<tr>
<th>UN Regulations</th>
<th>GB Standards</th>
</tr>
</thead>
<tbody>
<tr>
<td>- RID performance in the context of speed</td>
<td>- introduce minimum requirements for RID</td>
</tr>
<tr>
<td>- requirements to AFS classes / ADB</td>
<td>- integrate AFS / ADB as beam variants</td>
</tr>
<tr>
<td>- new glare requirements</td>
<td>- independant of light source used</td>
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<tr>
<td>- Aligned headlight photometry for all light sources</td>
<td>- a new photometry for headlights</td>
</tr>
<tr>
<td></td>
<td>- delete front fog lamp class B</td>
</tr>
<tr>
<td></td>
<td>- align cornering lamp with new RID Regulation</td>
</tr>
<tr>
<td></td>
<td>- install two classes of low beam (speed)</td>
</tr>
</tbody>
</table>

Source: SLR-22-01  
**DEADLINE 12/19 (04/20)**

Source: SLR-22-03  
**DEADLINE 12/19 (06/20)**
UN Regulations

- review photometric requirements
- review cat 5 and 6 direction indicators
- apparent surface of DRL

GB Standards

- remove DI cat 3 and 4
- remove SM2 (SM1 only)
- unify Position Lamp geometric and photometric requirements
- redefine position of measuring points of license plate illuminating devices
- align vertical photometry requirements of cat. 5 and 6 DI
- reduce minimum value for RFL to 100 cd
- redefine light distribution of Reversing Lamp
- align photometry of DRL / DI / Position Lamp and Stop Lamp
- address glare of SL (minimum area or luminance)
- define requirements for decorative lamps

Source: SLR-22-01 Source: SLR-22-03

DEADLINE 12/19 (04/20) DEADLINE 12/19 (06/20)
**UN Regulations**

- unify test methods and test equipment
- environment: harmonize test methods, [but different requirements]
- Modification of photometric performance requirements to be considered
- Adjust some of the physical tests for all devices

**GB Standards**

- unify test methods and test equipment
- environment: harmonize test methods, but different requirements
- Adapt photometric performance requirements of IVA Class RR to the retro reflective marker
- add marker for explosive substance and chemical toxic substance
- increase the photometric performance requirements of Class II (to be adjusted to Class C of the new RRD Regulation)
- reduce options for rear marking plates
- Adjust some of the physical tests for all devices

*Source: SLR-22-01*

**DEADLINE 12/19 (04/20)**

*Source: SLR-22-03*

**DEADLINE 12/19 (06/20)**
GRE IWG “SLR”
Stage 2 / Step 2 – Harmonisation of Regulations (Installation)

UN Regulations
- Size of apparent surface of DRL
- single lamp definition
- definition of apparent surface
- red light to the front (white light rear)
- reconsider installation requirements
- vertical inclination of the cut-off
- „standard“ vehicle definition

Source: SLR-22-01

GB Standards

SAC/TC 114/SC 21 plans to start an “ad-hoc” activity in cooperation with GTB to develop text for the next release of GB4785. This will also be synchronized with the Stage 2 Step 2 activity of GRE IWG-SLR.

This activity will be started immediately within GTB to develop initial proposals that will be subsequently elaborated by IWG-SLR.

NOT CURRENTLY IN SCOPE

NO DEADLINE
### UN Regulations
- Autonomous driving needs
- Projection systems on the road
- Functions, not devices (system approach)

### GB Standards

**NOT CURRENTLY IN SCOPE**

**NO DEADLINE**

Source: SLR-22-01