Simplification of the UN Lighting and Light-signalling Regulations

Progress report on the Stage 1 and Stage 2 and harmonization with Chinese simplification of GB standards
Workload and meeting pace

23 meetings held until now:

I. 11 September 2014 in Brussels (BE)
II. 23 October 2014 in Geneva (CH)
III. 14 January 2015 in Brussels (BE)
IV. 13 April 2015 in Geneva (CH)
V. 13 October 2015 in Brussels (BE)
VI. 5-6 November 2015 in Brussels (BE)
VII. 15-16 December 2015 in Brussels (BE)
VIII. 13-14 January 2016 in Brussels (BE)
IX. 29 February & 1 March 2016 in Brussels (BE)
X. 14-15 April 2016 in Brussels (BE)
XI. 9-10 June 2016 in Brussels (BE)

XII. 5-7 September 2016 in Brussels (BE)
XIII. 5-7 October 2016 in Brussels (BE)
XIV. 5-7 December 2016 in Brussels (BE)
XV. 21-23 February 2017 in Brussels (BE)
XVI. 22-24 March 2017 in Brussels (BE)
XVII. 16-18 May 2017 in Tokyo (JP)
XVIII. 13-15 June 2017 in Brussels (BE)
XIX. 12-14 July 2017 in Brussels (BE)
XX. 4-6 October 2017 in Brussels (BE)
XXI. 18-21 December 2017 in Brussels (BE)
XXII. 29 Jan / 1 Feb 2018 in Shenzhen (CN)
XXIII. 4-6 April 2018 in Brussels (BE)

Next meetings:

SLR-24 on 30 May / 1 June 2018 in Brussels (BE)
SLR-25 on 24-26 September 2018 in Brussels (BE)
Simplification to be delivered in two stages

**STAGE 1**
“Editorial simplification”

- REDUCE 41 UN REGULATIONS TO 14 + 1 RESOLUTION
- Provide a structure that limits to a minimum the number of parallel amendments necessary to achieve a regulatory change
- Reduce the number of active/non-frozen regulations
- Reduce the administrative burden (caused by maintenance of Regulations) on the Contracting Parties, the UNECE secretariat (and associated UN services) and the affected industrial sector

**STAGE 2**
“Performance based / Technology neutral”

- REWRITE THE NEW REGULATIONS WITH UPDATED PERFORMANCE BASED TECHNICAL REQUIREMENTS SUITABLE FOR THE FUTURE
- Reduce ambiguity in the provisions to provide consistent interpretation
- Define the essential requirements in performance (technology neutral) terms to provide opportunities for innovation
- Determine whether the current regulatory text presents barriers to innovation and whether safety considerations are addressed
- Develop, as far as possible, performance-based and technology-neutral requirements to ensure freedom for technical innovation within a framework of safety principles
GRE Regulations after Stage 1 of simplification

**R xxx (NEW 1)**
Light Signalling Devices

**R xxx (NEW 2)**
Road Illumination Devices

**R xxx (NEW 3)**
Retro-Reflective Devices

**NOT ON SLR AGENDA FOR STAGE 1**
R37, (R2), R99, R128, Resolution

* Definitions and other minor editorial adjustments / synchronisation will be addressed
Regulations in parenthesis are frozen already.

Already adopted by GRE-75
SLR “Stage 1”
The complete package

NEW SIMPLIFIED UN REGULATIONS
- Light Signalling Devices (LSD) → (GRE/2018/02)
- Road Illumination Devices (RID) → (GRE/2018/03)
- Retro-Reflective Devices (RRD) → (GRE/2018/04)

+ GRE-79-10
+ GRE-79-14

UPDATE REFERENCE TO DEVICE REGS.
- R48, series 03, 04, 05 and 06 of amendments
  (GRE/2018/30, ..../08, ..../07, ..../06)
- R53, series 01 and 02 of amendments
  (GRE/2018/17, GRE/2018/15)
- R74, series 01 of amendments
  (GRE/2018/14)
- R86, series 00 and 01 of amendments
  (GRE/2018/10, GRE/2018/09)

+ GRE-79-13

Reorganized and grouped definitions
R48-06, R53-02, R74-01, R86-01
(GRE/2018/13, GRE-79-08, GRE-79-09, GRE/2018/12)

Use of “Change Index” and its definition
- R48-06 + Coll. Amd. for R53-02, R74-01 and R86-01
  (GRE/2018/16, GRE/2018/18, GRE-79-11, GRE-79-12)
SLR “Stage 2”
and harmonization with
Chinese simplification of GB standards
CHINESE SIMPLIFICATION OF GB STANDARDS

**SIGNAL LIGHTING**

- GB 4599-2007 汽车用灯丝灯泡前照灯
  Headlamp with filament lamps
- GB 21259-2007 汽车用气体放电光源前照灯
  Headlamp with gas-discharge light sources
- GB 25991-2010 汽车用LED前照灯
  Headlamp with LED/LED module(s)
- GB 4660-2016 机动车用前雾灯配光性能
  Front fog lamps
- GB/T 30036-2013 汽车用自适应前照明系统
  Adaptive Front-Lighting System for Motor Vehicle
- GB/T 30511-2014 汽车用前照灯配光性能
  Cornering lamps

**FRONT LIGHTING**

<table>
<thead>
<tr>
<th>标准号NO.</th>
<th>标准名称Name</th>
<th>UN ECE</th>
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<tbody>
<tr>
<td>GB 5920-XXXX</td>
<td>汽车及挂车前位灯、后位灯、示宽灯和制动手灯配光性能</td>
<td>R7</td>
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<tr>
<td>GB 15235-2007</td>
<td>汽车及挂车倒车灯配光性能</td>
<td>R23</td>
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<td>GB 11554-2008</td>
<td>机动车和挂车用后雾灯配光性能</td>
<td>R38</td>
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<td>GB 17509-2008</td>
<td>汽车及挂车转向信号灯配光性能</td>
<td>R6</td>
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<td>GB 18408-2015</td>
<td>汽车及挂车后车牌板照明装置配光性能</td>
<td>R4</td>
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<tr>
<td>GB 18409-2013</td>
<td>汽车驻车灯配光性能</td>
<td>R77</td>
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<td>GB 18099-2013</td>
<td>机动车及挂车侧标志灯配光性能</td>
<td>R91</td>
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<tr>
<td>GB 23255-XXXX</td>
<td>汽车侧面行驶灯配光性能</td>
<td>R87</td>
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<tr>
<td>GB 13594-2009</td>
<td>特种车辆标志灯</td>
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**RETRO-REFLECTIVE DEVICES**

- GB 11564-2008 机动车复反射器（对应于ECE R3）
  “Retro reflector device for motor vehicles”
- GB 19151-2003 机动车用三角警告牌（对应于ECE R27）
  “Warning triangles for motor vehicle”
- GB 23254-2009 货车及挂车 车身反光标识（技术内容类似ECE R104）
  “Retro-reflective markings for trucks and trailers”
- GB 25990-2010 车辆尾部标志板（对应于ECE R69和ECE R70）
  “Rear-marking plates for vehicles and their trailers”
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!)

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

Simplify UN installation Regulations (48, 53, 74, 86) and harmonise with corresponding Chinese GB Standards.
Timeline for Stage 2
- Step 1 and Step 2 -

**Stage 2**

**Step 1**
- Today
  - March 2018

**Step 2**
- End of 2019
- Possibly
  - Mid-2024

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

**Window of Opportunity**

- **2017**
  - SLR 22 Shenzhen
  - Draft plan for Stage 2

- **2018**

- **2019**
  - Ongoing SLR Meetings
    - Meetings to be synchronised with GRE sessions

- **2020**
  - GRE 83 deadline
  - GRE Adoption
  - W29 Adoption
  - 09-2021 UN Entry into force

- **2021**
  - 12-2019 draft for approval
  - 06-2020 China Adoption
  - 12-2020 China Entry into Force