

GRE Task Force on Substitutes / Retrofits (TF S/R)**19th meeting (online)**

4 October 2023, 12:00 – 14:30 CEST

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DRAFT REPORT

		Documents
1	Welcome and opening remarks	
	Mr. Bailey, the chair of the meeting, welcomed the participants and opened the online meeting.	
2	Organisational issues	
	A screen-sharing facility was used via TEAMS.	
2.1	Introduction of participants	
	<p>The participants were noted by the secretary:</p> <p>Ph. Plathner, IEC, secretary Ph. Bailey, UK, chair W. Schlager, IEC R. Krautscheid, Germany J-M. Prigent, OICA W. van Laarhoven, GTB B. Terburg, GTB, SAE W. Halbritter, IEC Au. Berthel, OICA Th. Targosinski, Poland D. Rovers, Netherland M. Fischer, Germany</p> <p>Apologies had been received from:</p> <p>K. Manz, Germany, chair Th. Bauckhage, CLEPA B. Böttcher, FIA</p>	
3	Adoption of the agenda	TFSR-19-01

	<p>The agenda was confirmed.</p> <p>It was noted that documents TFSR-19-02 und TFSR-19-03 were now available and had been distributed / uploaded before the meeting.</p>	
4	Report of 18 th meeting	TFSR-18-03
	The report was reviewed on the screen briefly and confirmed.	
5.1	Review of the discussion at GRE 88	GRE-88-13 Report GRE-88
	noted	
5.2	Presentation / status report at GRE 89	TFSR-19-02
	<p>Mr. Schlager introduced document TSFR-19-02, the draft status report to GRE89, page by page, in detail, and there followed a discussion on the content and also on editorial aspects.</p> <p>Mr. Rovers suggested to use the word “online meeting” instead of “telephone call” on page 2.</p> <p>He suggested to include H7-LEDr in the “next step” on page 15.</p> <p>Mr. Krautscheid supported to extend the “next steps” to include H7 LEDr.</p> <p>Mr. Prigent reminded that an H7-LEDr category sheet has not been discussed, and Mr. Plathner confirmed that the work in the TF S/R concentrated on H11-LEDr so far.</p> <p>Mr. Schlager explained that the H11-LEDr sheet had been developed already for full-photometric equivalence. And then the bi-directional approach was developed based on this existing category sheet.</p> <p>Mr. Schlager recommended to get first the H11-LEDr category adopted as a “carrier” by GRE, to justify the efforts for other categories like H7-LEDr.</p> <p>Mr. Plathner supported this recommendation and Mr. Rover agreed that the H7-LEDr work would be a next steps, after GRE approval of H11-LEDr.</p> <p>Mr. Bailey confirmed that the UK was also very interested that the H7-LEDr is included in the planning.</p> <p>Ms. Berthel recommended to explain the abbreviation LEA on page 5, and also explain the view A.</p> <p>She also suggested on Page 14, to indicate topics per page: mechanical specifications, etc.</p> <p>She also requested that on page 13 another bullet point is added on the changes in the “unregulated part of the beam”.</p> <p>Mr. Prigent requested that a birds-eye-view is inserted to visualize typical impact on the beam.</p> <p>Mr. Rovers commented that also power consumption reduction should be considered as an advantage of LED technology, taking</p>	

into account general CO2-reduction targets from ITC (Inland Transport Committee of UN).

Mr. Prigent replied that the power consumption of an LEDr could be as high as halogen lamps due to additional electronics.

Mr. Schlager supported the statement by Mr. Rovers and confirmed that LEDr have a big potential for power reduction and waste reduction, especially for high power / high usage functions like the low beam.

There followed some discussion about the need of additional electronics in some vehicles to overcome false error messages; however it was noted that even in those cases the power consumption of an LEDr was only 50% of the power consumption of a halogen lamp.

Mr. Prigent and Ms Berthel requested that this aspect is further discussed in a next meeting.

They also highlighted that the consumer needed to be informed about the use of such additional electronics.

The page 15 “next steps” was reviewed together on the screen, and it was agreed to add an additional bullet point to clarify that an H7-LEDr proposal should be developed after the approval at GRE-90 of the bi-directional extension of the H11-LEDr category sheet.

Mr. Plathner asked if the TFSR will continue to work on the further category sheets (e.g. H7-LEDr) after GRE-90 will have adopted the carrier H11-LEDr.

Mr. Bailey replied that he was open for e.g. developing H7-LEDr in the TFSR and also Mr. Rovers confirmed to be open for TFSR to work on it, or to proceed otherwise, e.g. via IEC. Mr. Schlager reminded the closure of TF S/R after the first full-equivalence categories (C5W, H11) had been adopted, combined with the publication of a guideline for developing further categories (GRE-83-15).

It was agreed that this topic of H7-LEDr and additional categories should be a topic for GRE90, when H11 LEDr bi-directional is approved.

Based on the page 12, there followed some discussion on how to visualize best the comparison of the two beams. The following options were discussed:

- Pictures from Aachen on the wall (~7 m) (shown on page 12)
- R112 tables of measured intensities
- birds-eye views
- simulation of “driver views” on the road

	<p>Mr. van Laarhoven explained that it is important “what the driver sees”. An image on a 10m wall, 25m wall or bird-eye-view always needs expertise to “interpret”.</p> <p>Mr. Krautscheid supported that the advantages of the LEDr-beam should be clearly shown.</p> <p>After some discussion, it was supported to provide some further images to provide re-assurance of the improved LEDr beam performance.</p> <p>Mr. Halbritter and Mr. Schlager offered to check available data to generate some additional images.</p>	
6	New equivalence approach for high-flux LEDr categories	
6.0	Basic technical considerations for bi-direction designs Including lab demo	TFSR-16-02 TFSR-17-05
	The extended lab demo report was noted, document TFSR-17-05.	
6.1	Poland Comments	TFSR-16-03
	No discussion	
6.2	OICA questions / comments	TFSR-17-02
	No discussion	
7	R.E.5	
7.1	H11 category sheet changes	TFSR-17-03 TFSR-18-02 TFSR-19-03 GRE-89-05
	<p>Mr. Schlager introduced document TFSR-19-03, where all changes to the existing H11 LEDr category sheet were marked.</p> <p>There were no comments.</p> <p>It was agreed to submit the document to GRE89 as informal document.</p> <p>Note by the secretary: this was distributed with document number GRE-89-05 after the meeting.</p>	
8	Next meeting(s)	
	A next meeting was provisionally confirmed for 7 December, to be decided whether online-only or hybrid.	
9	Closure	
	The chair thanked the participants and closed the meeting.	

P. Plathner