

GRE Task Force on Substitutes / Retrofits (TF S/R)**18th meeting**

11 July 2023, 12:00 – 14:10 CEST

[HERE is the link to the TEAMS meeting](#)

meeting-ID: 387 375 125 900

Passcode: zGTXMV

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REPORT

		Documents
1	Welcome and opening remarks	
	The chair opened the meeting and welcomed the participants.	
2	Organisational issues	
	Apologies: K. Manz, DE, co-chair D. Rovers, NL W. Van Laarhoven, NL	
2.1	Introduction of participants	
	The participants introduced themselves and were noted by the secretary: Ph. Bailey, UK, chair Ph. Plathner, IEC, secretary B. Böttcher, FIA J-M. Prigent, OICA B. Terburg, GTB, SAE M. Fischer, DE W. Schlager, IEC Au. Berthel, OICA M. Grainger, OICA Th. Targosinski, Poland R. Krautscheid, DE S. Strandell, Sweden J. Schug, GTB R. Bertram, IEC Th. Bauckhage, GTB	

3	Adoption of the agenda	TFSR-18-01rev1
	The agenda was approved	
4	Report of 17 th meeting	TFSR-17-04
	The report was reviewed on the screen and approved.	
5	Review of the discussion at GRE 88	GRE-88-13 Report GRE-88
	The discussions at GRE88 were noted.	
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
	<p>The document TFSR-17-05, documenting the laboratory demo in Aachen, was introduced by Mr Schug and reviewed and discussed in detail.</p> <p>The discussion focussed on:</p> <ul style="list-style-type: none"> - Basic principles of lights source interaction with reflector optics (pin-hole images) - Regulatory requirements for the combination of replaceable light sources and headlamps - Additional aspects of headlamp beam performance - LEDr 2-sided design performance <p>It was confirmed that the document TFSR-17-05 was a valid summary of the laboratory presentation.</p>	
6.1	Poland Comments	TFSR-16-03
	The document TFSR-16-03 was presented by Mr. Targosinski and the basic conclusions were noted.	
6.2	OICA questions / comments	TFSR-17-02
	<p>Mr. Grainger introduced document TFSR-17-02, with a focus on the open question:</p> <ul style="list-style-type: none"> - are ray files available for the light sources? <p>Mr. Schug replied that optical simulations were not the focus during the development of the H7-LEDr, since light source makers did not have access to the reflector CAD data.</p> <p>Therefore the focus was on goniometer measurements of the LEDr inside the headlamps, as also performed during the national approvals in e.g. Germany and France</p> <p>He informed that the ray files for the LED chips are generally available.</p> <p>Mr Plathner asked to clarify if H7 ray files were requested, of H7-LEDr products which had national approval or if ray files were requested according the proposed H11-bi-directional category sheet.</p> <p>He informed that the detailed requirements of the proposed H11-LEDr category sheet exceeded the requirements that were defined on light source level during the national approvals.</p>	.

	<p>There followed some discussion on the process and technical details of the H7-LEDr with national approval and the H11-LEDr UNECE category sheet proposal.</p> <p>It was further reminded that the requirements defined in the H11-LEDr category sheet proposal were sufficient to provide the relevant input for simulations of the performance in headlamps.</p>	
	<p>Mr. Böttcher had to leave early, and commented in the chat: “Looks like, we have the same discussions like two years ago. The consumer should be free to choose, which light source he may use. Of course, it has to fulfil the requirements by law.”</p>	
7	R.E.5	
7.1	H11 category sheet changes	TFSR-17-03 TFSR-18-02
	<p>Mr. Schlager introduced document TFSR-18-02, which showed in yellow highlight the proposed changes for a “ bi-directional configuration” compared to the existing (in force) “full equivalence configuration”. It was shown that changes were needed only on a few parameters, and many parameters could remain unchanged, e.g. the contrast requirements which control the glare parameters.</p>	
8	Next meeting(s)	
	<p>It was agreed to prepare an extended status report for GRE89, including an informal document with the proposed changes to the existing H11-LEDr category sheet.</p> <p>A next meeting, online only, was agreed for 4th October, from 12:00 to 15:00 CET.</p>	
9	Closure	
	The chair thanked the participants and closed the meeting.	

P. Plathner