

GRE Task Force on Substitutes / Retrofits (TF S/R)**13th meeting**

24 September 2020, 13:00 – 17:00 CEST

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Conference-ID: 340 100 656#

DRAFT REPORT

		Documents
1	Welcome and opening remarks	
	Mr. Bailey, the vice-chair of the group, opened the meeting. It was noted that Mr. Manz, the chair, was not able to join and Mr. Bailey agreed to chair the meeting.	
2	Organisational issues	
	Apologies were received from: Mr. van Laarhoven, NL Mr. Versluijs, IEC	
	A screen-sharing was set-up using MS TEAMS.	
2.1	Introduction of participants	
	The participants briefly introduced themselves. The list of participants was noted by the secretary, see Annex 1. Mr Gonzalez (e-mail : contact@smartbrakebulb.com) was noted to participate as a guest without CP or NGO affiliation	
3	Adoption of the agenda	TFSR-13-01rev1
	The agenda was confirmed, with the addition of GRE-83-05 under agenda item 6.1. Mr. Terburg announced an input to agenda item 6.1.1. on the results of a humidity test on a headlamp.	
4	Approval of the report of the previous meeting	TFSR-12-05
	The report was approved. The open items, which were transferred from the 12 th TFSR meeting to this 13th meeting were noted: - Discussion on type definition / approval numbers in case of external electronics - Equivalence document	

	- Equivalence report It was noted that these open topics were addressed by the new TFSR-13-documents under agenda item 6.	
5	LED Substitutes for road illumination application	
	It was noted that due to the postponement of GRE83 in April, the whole agenda item 5 was pending, waiting for discussion at GRE83 in October. It was agreed to await GRE feedback for agenda item 5.	
5.0	Review of the discussion at GRE82	GRE-82-17rev2 Report GRE-82: item 23, 24, 25
5.1	Demonstration of halogen headlamps equipped with LED prototypes	TFSR-05-10
5.2	R.E.5 H11/LED/6	(TFSR-05-06, H7/LED) TFSR-06-02 TFSR-07-02 GRE/2019/21 GRE/2020/6
5.3	Mechanical keying, Interlock (for reference) IEC 60061 H11/LED/6	(TFSR-05-05 H7/LED) TFSR-06-03 GRE-82-12
5.4	Equivalence Criteria (for reference)	TFSR-05-04 TFSR-06-04 TFSR-06-07 (rev of TFSR-05-04) TFSR-07-04 GRE-82-03
5.5	Changes to Device Regulations – R149 (RID)	TFSR-05-03 TFSR-07-03 TFSR-07-03rev1 GRE/2019/19
6	Introducing LED technology into R37 (LEDr)	
6.0	Review the discussion at GRE-82	GRE-82-17rev2 GRE82 report: item 21, 22
	The relevant sections of the report of GRE82 was noted.	
6.1	Changes to R37	TFSR-06-05rev1 TFSR-08-02 TFSR-10-02 TFSR-11-03 TFSR-12-02 TFSR-12-02rev1 TFSR-12-02rev2 TFSR-12-02rev3 GRE/2020/15 GRE-83-05 TFSR-13-02rev1 TFSR-13-03rev1

		GRE-83-11 GRE-83-12
	<p>Document GRE/2020/15 and GRE-83-05 were noted. Mr. De Visser introduced document TFSR-13-02, which addressed the necessary changes to introduce “high-efficiency LEDr” and “additional electronics”.</p> <p>The document was reviewed together on the shared screen, paragraph-by-paragraph, focussing on the new, red, text.</p> <p>During the discussion, Mr. De Visser made, online, some editorial changes to the document. These are shown in document TFSR-13-02rev1 and TFSR-13-03rev1.</p> <p>It was agreed to submit these two documents as informal documents to GRE83.</p>	
6.1.1	Overview of technical items (for reference)	TFSR-08-03rev4 TFSR-11-02rev1 TFSR-13-08
	<p>Mr. Terburg informed that a humidity test according SAE J575 had been performed on a headlamp equipped with an H11 LEDr in order to investigate possible effects on humidity accumulation in the headlamp due to the reduced power consumption of an LEDr. This presentation, with the test description and results, was distributed after the meeting with document number TFSR-13-08. It was noted that the headlamp equipped with an LEDr had passed the humidity test successfully. Mr. Terburg explained that the humidity behaviour was a result of the construction of the headlamp. e.g. the design of vents and drain holes, and not a result of the light source power, or the type of light generating technology.</p> <p>Mr. De Visser informed that, according to his experience also from general lighting outdoor luminaires, less power in a light source will result in less severe temperature cycles. This will lead to less “humidity pumping” effect and consequently, less moisture being sucked into the lamp.</p> <p>Mr. Terburg confirmed, when asked by Mr. Bailey, that this test was done on a new headlamp, and after a brief exchange it was concluded that testing of used headlamps would not provide significantly additional information.</p>	
6.1.2	Discussion on type-definition and approval number in case of additional (external) electronics	TFSR-13-07rev1 GRE-83-14

	<p>Document TFSR-13-07 was introduced by Mr. Plathner and it was reviewed together on the screen.</p> <p>Some ideas, how to improve the presentation, were developed together on the shared screen. (after the meeting distributed with document number TFSR-13-07rev1, including some editorial improvements)</p> <p>It was agreed to submit this extended explanation document to GRE83 as informal document, so that GRE experts could better understand the related proposals for R37.</p>	
6.3	Changes to R128	<p>TFSR-10-03</p> <p>TFSR-11-04</p> <p>TFSR-12-03</p> <p>TFSR-12-03rev1</p> <p>GRE/2020/17</p>
	Document GRE/2020/17 was noted.	
6.4	Changes to RE5	<p>TFSR-10-04</p> <p>TFSR-11-05</p>
6.4.1	First category proposal(s) – H11 LEDr	<p>TFSR-12-04</p> <p>TFSR-12-04rev2</p> <p>GRE/2020/16</p> <p>TFSR-13-04rev1</p> <p>GRE-83-13</p>
	<p>Document TFSR-13-04 was introduced by Mr. De Visser and reviewed together on the shared screen.</p> <p>The definitions for “AE device” was reviewed together and slightly edited, see TFSR-13-04rev1.</p> <p>In addition, two small editorial clarifications for footnotes 8 and 10 on Sheet H11_LEDr/2 were discussed and agreed.</p> <p>It was agreed to submit this amended document to GRE83 as informal document.</p>	
6.4.1.1	H11 LEDr equivalence report	<p>TFSR-13-06</p> <p>GRE-83-16</p>
	<p>Mr. Plathner introduced document TFSR-13-06, which was reviewed together on the shared screen.</p> <p>It was agreed to submit this document to GRE83 as informal document.</p>	
6.5	Demonstration with LEDr prototypes	
	No demonstration, because it was an online-meeting only.	
6.6	Equivalence Criteria document (for reference)	<p>TFSR-13-05</p> <p>GRE-83-15</p>
	<p>Mr. Schlager introduced document TFSR-13-05 paragraph-by-paragraph, which was shown on the shared screen. He focussed on the highlighted sections, which were additions compared to the work done on LED substitutes.</p>	

	<p>Mr. Kooss commented on the use of the word “should” throughout the document and Mr. Schlager confirmed that “should” is being used in the whole document, because it was a guidance document for GRE, and not a “regulatory” text.</p> <p>It was clarified that such a guidance document is intended to be used by the submitter and by GRE as a reference in case a proposal for a new LEDr category is submitted to GRE.</p> <p>It was confirmed that the final decision about accepting such a category sheet proposal will always be done by GRE.</p> <p>There was a review of the vehicle study included in the document and it was confirmed that this study can be used for other low beam categories, but that additional studies may be necessary for e.g. a proposal for a category for stop lamps applications</p> <p>It was agreed to submit this document to GRE83 as informal document.</p>	
7	Next meeting(s)	
	A next meeting was scheduled for 20 November, starting at 13:00 CET, to be held online by telephone / MS TEAMS	
8	Closure	
	The chair thanked the participants and closed the meeting.	

P. Plathner

Annex 1: Participants (noted by the secretary)

Name	CP / NGO
Ph. Plathner (secretary)	IEC
A. De Visser	IEC
B. Böttcher	FIA
D. Rovers (partly)	NL
W. Schlager	IEC
T. Torma	GTB
Ph. Bailey (vice-chair)	UK
B. Terburg	GTB
D. Kooß (partly)	GTB
Th. Goldbach (partly)	OICA
F. Gonzales	Public guest
L. Schwenkschuster (partly)	GTB