

GRE Task Force on Substitutes / Retrofits (TF S/R)**8th meeting**

10 December 2019, 10:30 – 16:00 CET

German Federal Ministry of Transport and Digital Infrastructure (BMVI)
 Robert-Schuman-Platz 1
 D-53175 Bonn
 Germany

DRAFT REPORT

		Documents
1	Welcome and opening remarks	
	The chairman opened the meeting and welcomed the participants.	
2	Organisational issues	
	The list of participants is shown seen in Annex 1	
2.1	Introduction of participants	
	The participants introduced themselves.	
3	Adoption of the agenda	TFSR-08-01rev1
	The agenda was approved.	
4	Approval of the report of the previous meeting	TFSR-07-07
	The report was approved.	
5	LED Substitutes for road illumination application	
	<p>The chairman gave a summary of the discussions at GRE82, both for LED substitutes and for the LED-extension of R37.</p> <p>Mr. Bailey commented that there were concerns raised at GRE82 regarding the next steps of the TF. After a short discussion it was clarified that this Task Force (TF S/R) had been assigned the task to work on the topic of extending R37 for LED technology, as also reflected in the GRE82 report. However it was also noted that any decision on the outcome of the work of this task force will be taken by GRE.</p> <p>There also followed a longer exchange about the general approach with the R37-extension and the aspects of “technical equivalence” and “legal / administrative equivalence”, which were then discussed in detail under agenda item 6.</p>	
5.0	Review of the discussion at GRE82	GRE-82-17rev2 Report GRE-82: item 23, 24, 25,
	The report of GRE82 was noted.	

5.1	Demonstration of halogen headlamps equipped with LED prototypes	TFSR-05-10
	No discussion	
5.2	R.E.5 H11/LED	(TFSR-05-06, H7/LED) TFSR-06-02 TFSR-07-02 GRE/2019/21
5.2.1	Sheet H11/LED/2 Footnote 3 – Temperature testing	GRE/2019/21 GRE-82-45
	<p>The chairman reminded about the concerns on footnote 3 raised during GRE82.</p> <p>Consequently the informal document GRE-82-45 was introduced by Mr. Plathner and reviewed by the group.</p> <p>There followed a discussion about “dual-approval” for substitutes and 60°C application cases.</p> <p>It was clarified that the concept of “substitutes with interlock” allowed the definition of different temperature “grades”, where the interlock will prevent “mis-use” of a “lower temperature grade” in a “higher temperature grade” application.</p> <p>It was confirmed that for the 60°C-version of the H11, as shown in GRE/2019/21 only the interlock for the “60°C version” was given, and not for any higher temperature levels.</p> <p>It was confirmed that, in case of a future “H11-80°C” version, the “80°C-version” must have a keying to avoid insertion of a “60°C-version” light source.</p> <p>It was suggested that a clarification on the interlock keying for different temperature-grades should be prepared.</p> <p>Mr. Bailey additionally proposed that the temperature specification should be written to be more prominent.</p> <p>The following action items were agreed</p> <p>Action 1: prepare an improved proposal for H11/LED with temperature testing in the category sheet text in a more prominent place (not only footnote).</p> <p>Action 2: prepare a clarification document to show the concept of “thermal grades”, where the interlock is shown that prevents mis-use of a “lower temperature grade” into a “higher temperature grade” application</p> <p>Mr. Schlager and Mr. Plathner offered to work on these two action items.</p>	
5.3	Mechanical keying, Interlock IEC 60061 H11/LED	(TFSR-05-05 H7/LED) TFSR-06-03 GRE-82-12
	noted	

5.4	Equivalence Criteria	TFSR-05-04 TFSR-06-04 TFSR-06-07 (rev of TFSR-05-04) TFSR-07-04 GRE-82-03
	noted	
5.5	Changes to Device Regulations – R149 (RID)	TFSR-05-03 TFSR-07-03 TFSR-07-03rev1 GRE/2019/19
	noted	
6	Introducing LED technology into R37	
6.0	Review the discussion at GRE-82	GRE-82-17rev2 GRE82 report: item 21, 22
	The discussion at GRE82 was noted, as well as the report.	
6.1	Changes to R37 – administrative items	TFSR-06-05rev1 TFSR-08-02
	<p>Mr. De Visser presented and explained document TFSR-08-02, were some background was given, as well as some outlook and open items for decision.</p> <p>Mr. Manz stated that the name “LED replacement light source” was preferred, whereas Mr. Bailey replied that also the term “retrofit light source” would be acceptable for him. It was agreed that, for the time being, at least while preparing the proposals, the term “LED replacement light source” should be used.</p> <p>Mr Bailey stated that he could not clearly understand the relationship between substitutes and this activity in R37.</p> <p>Mr. Goldbach suggested to work on the technical issues first, then come back to the administrative.</p> <p>The questions raised by Mr. De Visser were noted and it was agreed to postpone the discussion on administrative items and continue with the technical items.</p>	
6.2	Changes to R37 – technical items	TFSR-08-03
	<p>Mr. Schlager introduces document TFSR-08-03. The approach to address the technical topics, presented by Mr. Schlager, was confirmed by the group.</p> <p>Mr. Manz reminded that the testing should remain technology specific, keeping existing testing efforts for filament incandescent light sources unchanged.</p>	

	<p>Mr. Van Laarhoven confirmed that it needed to be clear during type approval if the device-under-test is an incandescent or LED light source, then the testing will be done accordingly.</p> <p>Mr Goldbach asked about the current activity in SAE on LED replacement light sources, and it was further noted that there was also in Korea and China national activity on this topics.</p> <p>These national experts should be invited to bring their input to the meeting.</p> <p>Mr. Plathner then introduced some additional slides on the technical details.</p> <p>These slides were discussed in detail and edited together on the screen.</p> <p>The outcome of the discussion is presented in document TFSR-08-03rev1.</p>	
6.2.1	Electrical	
	See item 6.2	
6.2.2	Thermal	
	See item 6.2	
6.3	Changes to R128 (if any)	
	No discussion	
6.4	Changes to RE5, first category	
	No discussion	
7	Next meeting(s)	
	A next meeting was agreed for 17 January 2020 by telephone / Skype, starting at 10:30	
8	Closure	
	The chairman thanked the participants and closed the meeting.	

K. Manz, P. Plathner

Annex 1: Participants

Name	CP / NGO
Mr. Manz	Chairman (DE)
Mr. Bailey	Vice-Chairman (UK)
Mr. Plathner	Secretary (IEC)
Mr. Schlager	IEC
Mr. Rovers	NL
Mr. De Visser	IEC
W. van Laarhoven	NL
Mr. Böttcher	ADAC / FIA
Mr. Goldbach	OICA
Mr. Neckenig	DE