

REPORT OF THE WORKING PARTY ON LIGHTING AND LIGHT-SIGNALLING (GRE)
ON ITS INFORMAL MEETING, HELD IN FRANKFURT ON 2-4 July 2002

1. GRE held its informal meeting from 2 July to 4 July 2002 in Frankfurt, at the invitation of the German government, under the chairmanship of Mr. M. Gorzkowski (Canada). Experts from the following countries participated in the work: Canada; Czech Republic; France; Germany; Italy; Japan; Netherlands; Poland; United Kingdom. Experts from the following non-governmental organizations also participated: International Organization of Motor Vehicle Manufacturers (OICA); European Association of Automobile suppliers (CLEPA); Working Party "Brussels 1952" (GTB), including experts from the AFS Group; International Electrotechnical Commission (IEC).
2. The documents without a symbol distributed during the session are listed in the annex to this report.
3. At the beginning of the session GRE was welcomed by Mr. W. Kretschmann, Head of Section of the German Ministry of Transport, Construction and Housing. He expressed his appreciation of the work of GRE, especially in the field of improved safety for driving in the darkness and the development of the regulations regarding AFS.

ADAPTIVE FRONT-LIGHTING SYSTEM (AFS)

Documentation: TRANS/WP.29/GRE/2002/18; TRANS/WP.29/GRE/2002/19; informal documents Nos. 1, 5, 5bis, 5ter and 6 of annex 1 to this report.

4. GRE proceeded to a systematic reading of the draft Regulation on AFS (TRANS/WP.29/GRE/2002/18) and adopted the proposal with a number of technical and editorial amendments, which will be incorporated in a revised version (TRANS/WP.29/GRE/2002/18/Rev.1) to be established by the GTB/AFS expert and circulated by the Chairman as soon as possible after the informal meeting. GRE delegates were invited to send their eventual comments on this document directly to the GTB/AFS expert who would prepare a working document which would include the text of the draft and these comments and also indicate their origin. This would again be circulated by the Chairman to GRE delegates who would then have an opportunity for additional comments and exchange of views by e-mail. The consolidated version resulting from these contacts would be submitted to the secretariat and distributed as an informal document during the forty-ninth GRE session.
5. A number of items which concern substantial aspects of the draft Regulation and/or which require further consideration by GRE are set out below.

a) Adaptation of systems to different directions of traffic

As a consequence of comments by the expert from the United Kingdom, paragraph 5.4. was amended to reflect the solutions which can be provided by the manufacturer to cover the operation of a vehicle with AFS in a country having a direction of traffic different from that of the country of origin. Informal documents Nos. 5, 5bis and 5ter were also considered and it was agreed to include their substance in the revised version of the draft Regulation.

b) Provisions regarding an automatic levelling device

With regard to the requirements in paragraph 5.2.1.2. the expert from Italy proposed that the AFS draft Regulation should include the obligation to measure and to include in the communication the pertinent luminous flux values of an AFS which are used as a criterion for the mandatory installation of an automatic levelling device in the vehicle; this information would then be used in the type approval of the vehicle. GRE adopted this proposal; paragraph 6.5.6. and item 9.4. in annex 1 were introduced. Following comments by the expert from CLEPA, the value of 650 lm in item 9.4. of annex 1 was put in square brackets.

GRE noted that these requirements would only be necessary if manual levelling devices are allowed for AFS. In this context, the Chairman proposed to require automatic levelling for all vehicles with AFS; this approach was supported by the experts from the United Kingdom and CLEPA. It was agreed to take a decision on this issue during the discussion of the amendments to Regulation No. 48, paragraph 6.20.6.1.3.

c) Light source modules (LSM) and light-emitting diodes (LED)

The expert from CLEPA regretted that the draft Regulation did not include specific provisions for LED. GRE considered that the existing requirements for LSM were sufficient at this time.

d) Reference mark of maximum intensity (driving beam)

The expert from Germany suggested an improved sequence of the rounded off values for I_m in paragraph 6.2.3.1.3.; it was agreed to put these values in square brackets for later review by GRE.

e) Provisions concerning daytime running lamps

The expert from Germany reported that proposals for amendments to Regulation No. 87 had been introduced for discussion in GTB; he proposed to await the results and to amend paragraph 6.4., if necessary. It was agreed to put paragraph 6.4. in square brackets, pending a final decision by GRE.

f) Annex 3 - Passing beam photometric requirements

For clarification, GRE agreed to insert a reference to this annex under Part B. of the draft Regulation. The proposal by France regarding Note 4 to Table 1 (informal document No.1) was accepted. Japan entered a reservation regarding the minimum value of 3 lx in Table 1, line 13, for the Class V passing beam, and proposed to insert the same value as for the Class C passing beam, i.e. 6 lx.

g) Annex 4 - Tests for stability of photometric performance of systems in operation

The expert from Germany noted that this annex had been drafted using the conventional text, but that some concerns remained, in particular regarding the footnotes; he agreed to discuss this item with the AFS/GTB expert and eventually prepare a new proposal.

REGULATION No. 48 - AMENDMENTS CONCERNING THE AFS SYSTEMS

Documentation: TRANS/WP.29/GRE/2002/20; informal document No. 3 of annex 1 to this report.

6. GRE proceeded to a systematic reading of the draft amendments to Regulation No. 48 up to and including the amendments to paragraph 6.9.9.; this part of the proposal was adopted with a number of technical and editorial amendments, which will be incorporated in a revised version (TRANS/WP.29/GRE/2002/20/Rev.1) to be established by the GTB/AFS expert and circulated by the Chairman as soon as possible after the informal meeting. GRE delegates were invited to send their eventual comments on this document directly to the GTB/AFS expert who would prepare a working document which would include the text of the draft and these comments and also indicate their origin. This would again be circulated by the Chairman to GRE delegates who would then have an opportunity for additional comments and exchange of views by e-mail. The consolidated version resulting from these contacts would be submitted to the secretariat and distributed as an informal document during the forty-ninth GRE session.

7. A number of items which concern substantial aspects of the Regulation No. 48 amendments and/or which require further consideration by GRE are set out below.

a) Reference to type approval of AFS

GRE considered the explanatory note to paragraph 2.1.1. and decided that, in the case of AFS, a reference to type approval was necessary; paragraph 2.7.25. was amended accordingly.

b) Control signals

There was no final decision regarding the exact nature and path of possible signals for the AFS system control; the words "from the vehicle" in paragraph 2.7.25.4. were put in square brackets.

c) Single lamp

Proposals for an improved definition of "single lamp" are being discussed in GRE and GTB; GRE therefore recommended to leave paragraph 2.16. unchanged at this time.

d) Informal document No. 3

It was agreed that this informal document would be included in the working document mentioned in paragraph 6. above.

COORDINATE SYSTEM FOR PHOTOMETRIC REQUIREMENTS

Documentation: Informal document No. 4 of annex 1 to this report.

8. After the expert from Poland had introduced informal document No. 4 the Chairman noted that the proposals did not relate directly to AFS; he suggested to deal with this issue of photometric measurements as a separate item in GRE at a suitable time. GRE agreed to this procedure.

Annex 1

LIST OF DOCUMENTS DISTRIBUTED WITHOUT A SYMBOL DURING THE SESSION

No.	Transmitted by	Agenda item	Title
1	France	1.	Amendments to TRANS/WP.29/GRE/2002/18
2	withdrawn and replaced by No. 4		
3	Czech Republic	2.	Draft amendments to TRANS/WP.29/GRE/2002/20
4	Poland	3.	Proposal to change the coordinate system for photometric requirements
5	CLEPA	1.	Traffic-change device
5bis	CLEPA	1.	Traffic-change function
5ter	CLEPA	1.	Traffic-change function
6	Germany/Italy	1.	Adjustment devices
