

**ECONOMIC COMMISSION FOR EUROPE**  
**INLAND TRANSPORT COMMITTEE**  
World Forum for Harmonization of Vehicle Regulations (WP.29)  
Working Party on Lighting and Light-Signalling (GRE)  
Informal Group on Group on Visibility, Glare and Levelling (VGL)

## **CONCLUSIONS MADE & APPROVED DURING THE 8<sup>th</sup> SESSION**

to be held at the **OICA (Organisation Internationale des Constructeurs Automobile)**, Paris,  
 from **Tuesday, 04<sup>th</sup> July at 09:30 to Wednesday, 05<sup>th</sup> July 2017 at 16:30**

|    |  | Working Documents   |
|----|--|---|
| 1. | Welcome and opening remarks                    |   |
| 2. | Introduction of participants and organisations | VGL-08-02   |
| 3. | Adoption of the agenda                         | VGL-08-01 <b>Rev.2</b>  |
| 4. | Adoption of the report of the previous session | VGL-07-09<br>(not available before the meeting)<br><b>VGL-08-08</b> |

The report is not yet available.

VGL-08-08 presented by Pauline Lejeune.

### **Conclusions from the previous 7<sup>th</sup> session approved during the 8<sup>th</sup> session:**

#### **A) Diagram:**

- new information was brought with the line 7 from the calculations done by M.Targosinski which confirmed that lines 1 & 2 can still be supported and will be an help for the justification of line 2  
 Poland supports Line 7 but not Line 2  
 NL, I, F, J, OICA support to keep Line 2 with additional justification from the Line 7
- either lines 3 (as derogation from practical reasons) & 4, or, line 8 or 9 according to the feedback from Industry to be decided at next meeting
- lower/upper edge in comparison with the centre of reference of headlamp: no change for the time being and to be followed for the next stage 2 of IWG VGL
- For N3G it was suggested to extend the current lines 2 & 4 – still under discussion
- The need of the 1,6% cut-off inclination range was explained by industry

#### **B) 2000lm Criteria:**

- Idea to have no criteria to choose the type of levelling device and to leave the decision to the manufacturer → justification has still to be worked

#### **C) Loading conditions:**

- Under any allowable loading conditions of M & N vehicles, the cut-off line must remain within the limit "box", if necessary using some levelling system
- For the time being we keep the current Annex 5 – according to the Italian proposal, this decision can be revised

The document **VGL-08-08 Rev.1** is adopted by the attendees of this 8<sup>th</sup> session.

|    |   |   |
|----|---|---|
| 5. | Last new diagram: <ul style="list-style-type: none"><li>- Feedbacks from attendees on the last new diagram</li><li>- Improvement of the justification</li></ul> | VGL-07-04<br><b>VGL-08-05</b><br><b>VGL-08-07</b><br><b>VGL-08-10</b><br><b>VGL-08-06</b> |
|----|---|---|

**VGL-08-05 (Poland) regarding the 1,6% tolerance:**

According to the interpretation of everyone:

- France, Italy, OICA think this document supports the 1,6% tolerance proposed by Industry. This document cannot be used to compare the 1,6% proposed for type-approval with all loading cases currently in Annex 5 / PTI for one loading case
- Poland thinks it shows that the tolerance could be less
- No conclusion

**VGL-08-07 (Poland) regarding to the low edge of apparent surface / center of reference:**

- Agreed §.6.2.4.2 should not be modified (because inconsistency with §.5.8)
- To be followed with the stage 2
- Justification of the diagram should take into account this point

**VGL-08-10 (OICA) regarding the improvement of the justification of the diagram:**

- OICA will contact Dieter Mattes (at least) to have additional information on the current 'black' box to help the justification
- Improvement of the justification to be continued (especially graphs, 1lm criteria, 'tolerance' wording to be replaced by 'limits' and/or 'range') + from last comments by Poland with document VGL-08-06 (Poland)
- Poland will provide justification of the Line 7 which will be added in the OICA justification
- OICA will do a final revision before making it public on the UNECE website

**Additional conclusions according to 8<sup>th</sup> session discussions on the diagram:**

- ~~All Contracting Parties support the blue box, considered as the consensus by the majority after the Warsaw meeting in January 2017, provided there is adequate justification (especially for the 1lm and 1,6% range)~~
- **a) Consensus regarding "blue box" is not reached yet.**
- **b) Most of participants are in favor to have present state of "blue box" as final result.**
- **c) Poland is in favor of one of the lines: green line 50m or 8 or 9 or 5 instead of the line 3**
- **d) Group is still awaiting for final justifications from OICA (especially for the 1lm and 1,6% range). According to the 8th session discussions, OICA will provide for next meeting an improved justification from the inputs and requests of all IWG VGL experts to be able to finish it at the 9th session.**
- If the justification is not enough, the line 1 could be moved from 0% to 0,2%. Then the line 3 will have also to be moved accordingly
- ~~According to the 8<sup>th</sup> session discussions, OICA will provide for next meeting an improved justification from the inputs and requests of all IWG VGL experts to be able to finish it at the 9<sup>th</sup> session~~
- ~~→ VGL-08-10 will be distributed to the attendees and available on the UNECE website~~

|     |  |                                     |
|-----|--|-------------------------------------|
|     | <p>on July 12, 2017</p> <p>→ Deadline for comments on the document VGL-08-10: July 25, 2017</p> <p>→ Deadline for improved justification: September 13, 2017</p>   |                                     |
| 6.  | Improvement of the justification to the non-criterion of decision for the type of levelling device   | VGL-08-11                           |
|     | <p>- The group discussed the 2000lm automatic levelling criterion and considers that it is not the proper one.</p> <p>No other criteria of decision for the type of levelling device seems to be appropriate and the 2000lm criteria can be removed and not replaced, provided that there are alternate safeguards to minimise the need for driver intervention to maintain the correct aim of headlamps with the following issues:</p> <ul style="list-style-type: none"> <li>▪ Reminder: Under any allowable loading conditions of a M or N vehicle, the cut off line must remain within the limit “box”, if necessary using some levelling system</li> <li>▪ Main concern remains the possible use of the manual levelling device at the discretion of the manufacturer</li> <li>▪ Several ideas to try to better control the use of the manual levelling device should be developed for instance with TPs prohibiting its use in xx years, or, additional requirements in the box, or, impose initial aiming</li> </ul> <p>- A report will be done to the next GRE October session and get feedback.</p> |                                     |
| 7.  | Conditions and process for loading → Discussion on counter-proposal from Italy   | VGL-08-03<br>VGL-08-04<br>VGL-08-12 |
|     | - The group supports not to change the Annex 5 of the current R48  |                                     |
| 8.  | Preparation of the Phase 2 ( <i>if enough time</i> )   |                                     |
| 9.  | Homework and preparations to next meeting  |                                     |
|     | <p>- <b>According to the 8<sup>th</sup> session discussions, OICA will provide for next meeting an improved justification from the inputs and requests of all IWG VGL experts to be able to finish it at the 9<sup>th</sup> session</b></p> <p>→ <b>VGL-08-10 will be distributed to the attendees and available on the UNECE website on July 12, 2017</b></p> <p>→ <b>Deadline for comments on the document VGL-08-10: July 25, 2017</b></p> <p>→ <b>Deadline for improved justification: September 13, 2017</b></p>  |                                     |
| 10. | Any Other Business   |                                     |
| 11. | Next steps   |                                     |
| 12. | Next meeting(s)  |                                     |
|     | September 28 (IWG VGL) + 29 (TF HS), 2017 in Darmstadt/Russelsheim<br>October 23, 2017 before GRE – to be confirmed  |                                     |
| 13. | Closure  |                                     |

Xxxxx: Rev.1 version – xxxx: Rev.2 version

Working documents listed in the agenda are available via the INTERNET:  
<https://www2.unece.org/wiki/pages/viewpage.action?pageId=26903055>