TPMSTI-16-07

16th session of the GRBP TF on

Tyre Pressure Monitoring System and Tyre Installation (TPMSTI), 16 June 2021

**ECONOMIC COMMISSION FOR EUROPE**

INLAND TRANSPORT COMMITTEE

World Forum for Harmonization of Vehicle Regulations (WP.29)

Working Party on Noise and Tyres (GRBP)

Task Force on Tyre Pressure Monitoring System and Tyre Installation (TPMSTI)

**Draft Report of the 16th meeting of the Task Force TPMSTI**

**Amendments to UN Regulation No 141**

**June 16, 2021**

**starting at 8:30 am ending at 11:30 am (CET)**

**Microsoft Teams only !**

|  |  |  |
| --- | --- | --- |
|  |  | Working Documents  \* Documents not yet available |
|  | Welcome and opening remarks |  |
|  | *The Chair of this Task Force Mr. Andreas Vosinis (DG-GROW) opened the 16th meeting of TF on TPMSTI, welcomed all participants and pointed out that the main task of this meeting, as it was for the last meeting, is to finalize the work on the new Annexes 7 and 8 and discuss the proposed corrections for the “Transitional Provisions” in Regulation No. 141.01 and No. 142.01 for being able to prepare the Working documents in June 2021 to be submitted to the 74th session of GRBP. If time is available, continue the work on the issues regarding CTIS and TPRS.* |  |
|  | Introduction of participants and organizations | TPMSTI-16-08\* |
|  | *All attendees agreed to share the information, which is available on the Attendance List, and to allow uploading of the list to the UNECE Website* |  |
|  | Adoption of the Agenda | [TPMSTI-16-01](https://wiki.unece.org/download/attachments/128419958/TPMSTI-16-01%20Draft%20Agenda%2016th%20meeting%20-%20UN%20R%20No%20141.docx?api=v2) |
|  | *The Agenda was adopted with an additional agenda item regarding TPMST-16-06: Haldex questions to UN R No. 141.01* | [TPMSTI-16-07](https://wiki.unece.org/download/attachments/128419958/TPMSTI-16-06%20R_No_141.01_Haldex%20Questions.pdf?api=v2) |
|  | Approval of the Draft Report of the 15th meeting of TPMSTI | [TPMSTI-15-07](https://wiki.unece.org/download/attachments/128419286/TPMSTI-15-07%20Draft%20Report%2015th%20meeting%20-%20UN%20R%20No%20141.docx?api=v2) |
|  | *The Draft report of the 15th meeting was presented. Due to the circumstance, that the Draft Report was finalized rather late, all experts were asked to give their comments to the Draft Report at the latest on Monday 21st of June. If no comments are received, the Draft Report has been approved.*  *No comments were received 🡺 The Draft Report of the 15th meeting is approved.* |  |
|  | (EC) – Proposal for amendments to UN Regulation No. 141   * Open issue: see below * Key elements / Planning * Working or Working document to be submitted to 74th session of GRBP, if needed |  |
|  | **Main open issue for UN Regulation No. 141**   * Review and elaborate a “TPMS Alternative procedure for type approving trailers” of category O3 and O4   **Work to be done at the 16th meeting**   * Continue the review of the work on Annex 7 and Annex 8   + “TPMS Alternative procedure for type approving trailers” of category O3 and O4   *The Group went through TPMSTI-15-02 Rev.1, which was the result of the review of the 15th meeting of this Task Force and discussed the open issues.*  *The Experts proposed*  *to rephrase §2.2. of Annex 7 as follows:*   * 1. If applicable the manufacturer(s) of ~~the~~ a ISO11992-2 Towed Vehicle ECU (Gateway ECU)~~Gateway~~ shall supply to the manufacturer of the TPMS / TPRS / CTIS an information document of the system(s) requiring performance verification to be submitted to the Technical Service by the manufacturer of the TPMS / TPRS / CTIS . This document shall contain at least the information defined in Appendix 2 to this Annex.   ~~If applicable the manufacturer of the ISO11992-2 Towed Vehicle ECU (Gateway ECU) shall supply to the Technical Service an information document of the Gateway system requiring performance verification. This document shall contain at least the information defined in Appendix 2 to this Annex~~  *To correct in §4.1. of Annex 7 the reference to the correct paragraph 3*   1. The following tests shall be conducted by the Technical Service on the vehicle(s) defined in paragraph 3. ~~1.2.~~ of this Annex for each TPMS / TPRS / CTIS configuration taking into consideration the application list defined in paragraph 1.4. of Appendix 1 and if applicable Appendix 2 to this Annex.   *to add If applicable the to § 3.4. of Annex 7 – Appendix 1*  3.4. If applicable the Electro-magnetic compatibility according to UN Regulation No. 10 as last amended by the … series of amendments  *to add* If applicable the *also to*   * *§3.3. of Annex 7 – Appendix 2* * *§3.4. of Annex 8 – Appendix 1* * *§3.6. of Annex 8 – Appendix 2*   *CLEPA will check internally, if they can agree on the proposed change to §2.2. of Annex 7 and present their decision at the 17th meeting.*  *All Experts agreed to the other changes mentioned above.*  *The document TPMSTI-15-02 Rev.1 was uploaded with the above mentioned changes as TPMSTI-16-05.*   * Finalize the proposal for amending   + “Transitional Provisions”     - TPMSTI-16-02 for No. 141.01 (see Paragraph 12)     - TPMSTI-16-03 for No. 142.01 (see Paragraph 10)   *The Group discussed whether the two Working documents should be sent as a “Corrigendum” or as a “Supplement” to GRBP. The Group agreed, that we need to seek advice and take contact with the secretary of GRBP. The Expert of EC will take care of this issue and prepare revised proposals, based on TPMSTI-16-02 and TPMSTI-16-03 for the 17th meeting.*  *The Expert form Japan wanted to get more information about the meaning of these two proposals.*  *As mentioned earlier, the Transitional Provisions in UN Regulation No. 141.01 and no. 142.01 are only valid for those vehicles, which were addressed by the Scope of UN Regulation No. 141.00 and No.142.00. For all other vehicle categories, which were only mentioned in the Scope of UN Regulation No. 141.01 and No. 142.01 the 01 Series of Amendments have to be treated as 00 Series of Amendments. For these kind of vehicles, there are no Transitional Provisions possible.*  *According to “E/ECE/TRANS/505/Rev.3 – Text of the 1958 Agreement \_ Article 1”*  “The term "applying a UN Regulation" indicates that a UN Regulation enters into force for a Contracting Party. When doing so, Contracting Parties have the possibility to keep their own national/regional legislation. If they wish, they **may substitute** their national/regional legislation by the requirements of the UN Regulations they are applying, **but they are not bound by the Agreement** to do so. However, Contracting Parties **shall accept**, as an alternative to the relevant part of their national/regional legislation, **UN type approvals granted pursuant to the latest version of UN Regulations** applied in their country/region. The rights and obligations of Contracting Parties applying a UN Regulation are detailed in the various articles of this Agreement.”  *Remark: The Secretary highlighted the text in black bold for better understanding.*   * Prepare a proposal to implement   + TPRS and CTIS into the requirements of paragraph 5.1.3. and paragraphs 5.2. to 5.6.   *The Experts from COL-VEN prepared a first proposal to show, how the implementation of the requirements on CTIS and TPRS could look like. In the document TPMSTI-16-04. (TPMSTI-16-04 Rev.1 is the same as TPMSTI-16-04, but including the explanation of the different colors used:* GREEN, RED & YELLOW*).*  *Text highlighted in* GREEN *is proposed to add, text in* RED *to eliminate and text in* YELLOW *is still not clear and needs further discussions.*  *The Group thanked the Experts for their work. The Expert from FL will have a closer look into the proposal internally. The Expert from NL expressed his support and willingness to work together with the other Experts on this proposal. The Expert from DE supported the proposal, but explained that he needs help of his colleagues, because he is not an expert on CTIS/TPRS.*  *The Experts from CLEPA will work on this proposal and try to solve the open questions (marked in yellow) together with the authors of the document.*  *All Experts agreed to continue the work, based on TPMSTI-16-04 Rev.1 at the 17th meeting.*  *.*   * Open questions to UN Regulation No. 141.01 by Haldex   *The Experts from Haldex sent questions to the Task force and asked for clarification (see TPMSTI-16-06).*  *Q1 regarding §5.5.*  Warning indication  Is there a plan to differentiate between warnings indication for incident and deflation over longer period, is there a plan to use braking system yellow or red lamp to indicate a major failure in TPMS?  *A1: There is no plan to introduce this into UN Regulation No. 141.01. It is understood, that the manufacturers already today take this into consideration.*  *Q2 regarding §8.2.*  The Type Approval Authority which has granted type approval, may at any time verify the conformity of production in each production facility. The normal frequency of these verifications shall be at least once per year.  Shall 8.2 be 8.1.1?  *A2: It could be changed, but the Task Force is of the opinion that this is not a major issue at this moment.*  *Q3 regarding §1.5.1. of Annex 3.*  What does "no possibility to set or reset the system" means? Can you provide more explanation and details on this usecase and the rational behind second chapter?  *A3: This is explained in §5.1.6. of UN Regulation No. 141.01*  *Q4 regarding §2.1. of Annex 3.*  Shall 1.4.2. reference be replaced with 1.5.2  *A4: no issue, this has already been corrected in the final version of UN Regulation No.141.01.*  *Q5 regarding §2.5.1./2. of Annex 3.*  Shall 220 kPa be applicable to M2, M3, N2, N3, O3 and O4 vehicles?  *A5: No, this is only valid for M1 and N1 vehicle equipped with tyres of Class C2. For the above mentioned vehicle categories part to of §2.5.2. is valid:*  For vehicles of category M2, M3, N2, N3, O3 and O4 deflate all tyres within 15 minutes of measuring the warm pressure as described in paragraph 2.4.3. above, until the deflated tyres are at Pwarm - 20 per cent plus a further deflation of 7 kPa, namely Ptest. Following a stabilisation period of between 5 and 10 minutes the pressure Ptest shall be rechecked and adjusted if necessary.  **Work to be done after the 16th meeting**   * *Based on the results of the discussion and the decisions at the 16th meeting prepare all necessary input to finalize the Working document to amend*   + *the Transitional Provisions of UN Regulation No. 141.01*   + *the Transitional Provisions of UN Regulation No. 142.01*   + *Annex 7 & Annex 8 to UN Regulation No. 141.01* * *and prepare the Informal document for the implementation of the requirements for CTIS & TPRS into the corresponding paragraphs of UN Regulation No. 141.01*   *for the 74th session of GRBP in September 2021.*  **Timeline Schedule**  To be decided at the 17th meeting of the Task Force on TPMSTI.   * + Deadline for Working Documents to be submitted to 74th session of GRBP: **June 23, 2021**   **Responsible:**  All experts of this Task Force | [TPMSTI-15-02 Rev.1](https://wiki.unece.org/download/attachments/128419286/TPMSTI-15-02%20Rev.1%20%28Sec%29%20revised%20TPMSTI-15-02%20during%2015th%20TF%20TPMSTI.docx?api=v2)  [TPMSTI-16-05](https://wiki.unece.org/download/attachments/128419958/TPMSTI-16-05%20%28Sec%29%20revised%20TPMSTI-15-02%20Rev.1%20during%2016th%20TF%20TPMSTI.docx?api=v2)  [….WP.29/2021/10/Rev.1](https://unece.org/sites/default/files/2021-02/ECE-TRANS-WP29-2021-010r1e.pdf)  [TPMSTI-15-03](https://wiki.unece.org/download/attachments/128419286/TPMSTI-15-03%20ECE-TRANS-WP29-2021-010-Rev.1e_TP_correction.docx?api=v2)  [TPMSTI-15-04](https://wiki.unece.org/download/attachments/128419286/TPMSTI-15-04%20ECE-TRANS-WP29-2021-011e_TP_correction.docx?api=v2)  [TPMSTI-16-02](https://wiki.unece.org/download/attachments/128419958/TPMSTI-16-02%20GRBP-2021-XXe%20%28TF%20TPMSTI%29%20UNR141_supplement1_proposal.docx?api=v2)  [TPMSTI-16-03](https://wiki.unece.org/download/attachments/128419958/TPMSTI-16-03%20GRBP-2021-XXe%20%28TF%20TPMSTI%29%20UN%20R142_supplement1_proposal.doc?api=v2)  [TPMSTI-14-02](https://wiki.unece.org/download/attachments/123667612/TPMSTI-14-02%20%28Japan%29%20Comments%20about%20TPRS-CTIS.docx?api=v2)  [TPMSTI-15-06](https://wiki.unece.org/download/attachments/128419286/TPMSTI-15-06%20%28DE-FL-NL%29%20Draft_Amendment_Provisions_TPRS_CTIS_Handout.docx?api=v2)  [TPMSTI-15-06 Rev.1](https://wiki.unece.org/download/attachments/128419286/TPMSTI-15-06%20Rev.1%20%28DE-FL-NL%29%20Draft_Amendment_Provisions_TPRS_CTIS_v2%20Reviewed%20by%20CLEPA.docx?api=v2)  [TPMSTI-16-04 Rev.1](https://wiki.unece.org/download/attachments/128419958/TPMSTI-16-04%20Rev.1%20%28CTIS%20%26%20TPRS%29%20ECE-TRANS-WP29-2021-010r1e%20COL-VEN%20PROPOSAL%20%28004%29.docx?api=v2)  [TPMSTI-16-06](https://wiki.unece.org/download/attachments/128419958/TPMSTI-16-06%20R_No_141.01_Haldex%20Questions.pdf?api=v2) |
|  | * All **GRBP experts** participating in this Task Force TPMSTI are asked to prepare their input to the two open issues for the 17th meeting and send their comments and proposals as agreed **above before 21st of June 2021** to the Secretary and the Chair of the Task Force:   [manfred.klopotek@scania.com](mailto:manfred.klopotek@scania.com)  [andreas.vosinis@ec.europa.eu](mailto:andreas.vosinis@ec.europa.eu) |  |
|  | Next meeting(s) (see Time schedule) |  |
| * **Official 17th session of TF TPMSTI:**   + **22 June 2021 from 10:00 am to 11:30 am CET** | | |
|  | Adjourn |  |
|  | *The Chair thanked the Experts for their fruitful discussion and their effort to solve the open issues regarding the alternative TA procedure for trailers, the additional work on CTIS & TPRS and the review of the Transitional Provisions for UN Regulation No. 141.01 and No. 142.01.* |  |

All documents will be available via the UNECE website for the Task Force on Tyre Pressure Monitoring System and Tyre Installation ([TPMSTI](https://wiki.unece.org/pages/viewpage.action?pageId=94047545)).