










<b>32<sup>nd</sup> WLTP Sub Group EV Meeting</b>	
<b>Date</b>	14 January 2020
<b>Time</b>	9:30 to 12:30 CET
<b>Title</b>	32 <sup>nd</sup> WLTP Sub Group EV Meeting – Minutes
<b>Location</b>	Geneva, Palais des Nations, Room IX

<b>0</b>	<b>Revision &amp; adoption of meeting minutes &amp; agenda</b>
	<ul style="list-style-type: none"> <li>- Meeting minutes of web-audio on 7 January 2020 <a href="#">01 WLTP SG EV Minutes 7 January 2020.pdf</a> → Adopted</li> <li>- Adoption of this agenda → Adopted</li> </ul>
<b>1</b>	<b>WLTP Low Temp Test Procedure Development for EVs: inputs</b>
	<p><u>EC's proposal on Low Temp test procedure for OVC-HEV &amp; NOVC-HEV</u> <a href="#">2020 01 14 OVC-HEV NOVC-HEV procedure proposal JRC V3</a></p> <p>Ricardo Suarez (JRC) presented and explained the proposal from the European Commission (DG GROW and JRC) that integrates the aspects from ACEA TF EV group's proposal that were considered appropriate for a robust procedure (comparable to Type 1) with the initial JRC proposal (presented in 2017) for OVC-HEV. Additionally, the updated proposal also includes the initial JRC proposal (presented in 2017) for NOVC-HEV. Input/comments received during the last web-audio on 7 January 2020 were reflected as well.</p> <p><u>ACEA's proposal on Low Temp test procedure for PEV &amp; OVC-HEV</u> <a href="#">200114 draft update proposal Low-Temperature-Test ACEA</a></p> <p>Matthias Nägeli (on behalf of ACEA TF EV group) presented and explained the proposal from ACEA EV for PEV and OVC-HEV including the concept of a “base procedure” (mandatory; w/o customer initiated preconditioning action) and an “additional procedure” (optional; to reflect effects of customer initiated actions). Due to time constraints and as agreed in SG EV web-audio on 11 December 2019, the focus shall be on the mandatory “base procedure” for now.</p> <p><u>EC's proposal on Type 6 Family</u> <a href="#">200114 Type 6 Family EC Proposal update.pdf</a></p> <p>Ricardo Suarez (JRC) presented and explained the proposal from the European Commission for ICE, NOVC-HEV and OVC-HEV Type 6 family building. It is a working draft document and further detailed discussion is needed, since there are elements in it that might have to be dealt with on a UNR level at a later stage.</p> <p>Family concept development for PEV is still an open point in need of resolving, i.e. proposals to be made in time (see agenda point 3).</p> <p>SG EV members are asked to provide feedback and/or indicate any questions either to the SG EV leading team or directly to the proposer(s), leading team of SG EV in copy.</p>

2	<b>WLTP Low Temp Test Procedure Development for EVs: discussion on open items</b>						
	<p><u>Overview of open items</u></p> <p>Latest status on topics "Under Discussion": See document <i>WLTP_Low_Temp_TF_Status_list_v2020-xx-yy.xlsx</i> on UNECE wiki <a href="https://wiki.unece.org/display/trans/Optional+annex+Low+T+-+Drafting">https://wiki.unece.org/display/trans/Optional+annex+Low+T+-+Drafting</a></p> <p><u>SG EV input for Low Temp Optional Annex in GTR#15</u></p> <p>Development of a Working Document (WD) for GTR#15 Amd#6 → WD-Deadline: <b>17 March 2020</b></p> <p>Working draft of Low Temp Optional Annex: <a href="#">200110 - Low Temp Annex based on ECE-TRANS-WP29-2019-62e.docx</a></p> <p>→ This working draft is consecutively updated by the drafting coordinator (Rob Gardner) according to proposals/discussions/agreements within the SG EV and the LowT TF.</p> <p><u>Documents supporting drafting of Low Temp Optional Annex</u></p> <p><i>Annex 8 draft structure overview for NOVC-/OVC-HEV &amp; PEV</i></p> <p><a href="#">PEV &amp; Hybrid drafting V2 JRCv2.xlsx</a></p> <p>Sam Tripathy (Renault) on behalf of the SG EV PEV drafting volunteers presented a working overview identifying sections of GTR#15 Annex 8 specific to PEV which need modifications for Low Temp. Following color code was introduced:</p> <table border="0"> <tr> <td></td> <td>No change</td> </tr> <tr> <td></td> <td>Minor revision or may need some revision</td> </tr> <tr> <td></td> <td>Major revision or additions</td> </tr> </table> <p>The document was further updated by Ricardo Suarez (JRC) for NOVC-/OVC-HEV specific sections including comments and suggested draft text.</p> <p><i>Annex 8 first working draft for PEV</i></p> <p><a href="#">PEV Low Temperature Test procedure draft V6.docx</a></p> <p>Due to time constraints, as it was first explained in the SG EV drafting group kick-off meeting on 3 December 2019, it was agreed that drafting preparation work should go on in parallel despite the lack of final agreement on all aspects of the test procedures.</p> <p>Therefore, in order to inform the group about the drafting preparation work, the SG EV PEV drafting volunteers provided a first working draft for PEV based on GTR#15 Annex 8. At this stage the document only contains the PEV part and the topics agreed (except Annex 4). Modifications/additions are added in <b>violet</b>. Obviously, this draft is work in progress and needs further modification</p> <p>→ The purpose of the abovementioned documents related to Annex 8 is to support the detailed discussion(s) and drafting of the Low Temp Optional Annex – all elements will then be transferred into one single document, i.e. the working draft of the Low Temp Optional Annex (handled and updated by the drafting coordinator Rob Gardner, Link: <a href="#">Optional annex Low T - Drafting</a>).</p>		No change		Minor revision or may need some revision		Major revision or additions
	No change						
	Minor revision or may need some revision						
	Major revision or additions						

<b>3</b>	<b>Planning of next meetings (scheduled dates see agenda point 4)</b>
	<p>In order to prepare the upcoming meetings, SG EV members were asked about their timeline for providing input/proposals/comments for the development of the Working Document (WD) for GTR#15 Amd#6.</p> <p>Cova Astorga (chair LowT TF) urged the group to discuss and conclude on input of SG EV to the Low Temp Optional Annex by the next face-to-face meeting, i.e. on 21 February 2020, in order to give the drafting coordinator the time needed for preparing the WD.</p> <p>JPN confirmed to be able to give feedback to SG EV by the f-2-f meeting in Brussels where Low Temp TF and SG EV will hold a joint meeting on 21 February, after the WLTP IWG intermediate meeting on 19-20 February 2020.</p> <p>Peter Bonsack (chair) proposed to split the discussion on the Low Temp topic between vehicle types, i.e. setting dates to discuss and conclude on test procedures for NOVC-HEV, OVC-HEV and PEV separately. This will require feedback from CP's and stakeholders in the upcoming web-audio meetings. SG EV group members were positive to be able to deliver the required feedback in such a manner.</p> <p>→ A schedule, indicating until when feedback is required for NOVC-HEV, OVC-HEV and PEV, respectively, and when which topics need to be discussed, will be proposed by the SG EV leading team and communicated to the group.</p>
<b>4</b>	<b>Next meetings (<a href="#">WLTP calendar</a>)</b>
	<p><u>WLTP SG EV web-audios and f-2-f meetings in Q1 2020 (after GRPE-80):</u></p> <p>27 January / 5 February / 13 February (web-audio; each from 09:00 to 12:00 CET)</p> <p>21 February 2020 (Brussels; face-to-face meeting in conjunction with LowT TF after WLTP IWG intermediate meeting on 19/20 February 2020 – details will follow)</p> <p>4 March / 11 March 2020 (web-audio; each from 09:00 to 12:00 CET)</p>
<b>5</b>	<b>AOB</b>
	<p><u>UNR WLTP informal document(s) development</u></p> <p>IWG on WLTP Proposal for a new 00 series of amendments (working document): <a href="#">ECE/TRANS/WP.29/GRPE/2020/3</a></p> <p>IWG on WLTP Proposal for a new 01 series of amendments (working document): <a href="#">ECE/TRANS/WP.29/GRPE/2020/4</a></p> <p>Discussion and final agreement on remaining open issues after WLTP-29:</p> <ul style="list-style-type: none"> <li>- Definition of "n/v ratio": Paragraph 3.2.28. → agreement to remove text "in a specific gear" Paragraphs 6.3.2.3. (g) &amp; 6.3.2.4. (h) → agreement that current text is ok</li> <li>- Adjustment of values: Paragraph 4.5.8. → agreement to reverse text to original text; topic can be added to postponed items</li> <li>- Calculation of final charge-depleting and charge-sustaining weighted values:</li> </ul>

Table A8/9, step 8 → agreement to keep EAER

- Calculation of final charge-depleting values for OVC-FCHVs:  
Table A8/X → No. to be defined; consistency check with other table updates
- Calculation of final charge-depleting and charge-sustaining weighted values:  
Table A8/Y → No. to be defined; consistency check with other table updates
- OVC-FCHV TA documentation:  
Annex A1 → updates checked and found to be ok

Overview of documents related to the transition into UNR WLTP:

All related documents of the UNR Transposition TF can be found in the UNECE wiki area: [15 - Documents for IWG#29](#)