C. Astorga welcomed the TF members, presented the agenda and the minutes from the previous meeting.

Minutes of previous telco: approved without any comment.

1/ Auxiliary devices: closing of activity 1

Ch. Petijean presented the document corresponding to the progress of activity 1:

Auxiliaries Sub-Group for LowTemp UN TF activities-CP-update-09sept2019.pdf
(doc available in CIRCA BC)

Comments received until date of telco are coming from EMPA, OICA. Only points n°3, 4, 9 & 10 to be discussed for final statement about inclusion. Ch.P. asked to send any further comment until the end of week 37. He will prepare a final doc with all comments for review and final decision @ Bern meeting. A new telco has been scheduled for the 20th of September. Progress need to be done before WLTP 28th in Bern.

2/ Modification of line 27 – Status list, on its version 2019-08-06)

Under request of EC, Chair has modified line 27 in document: WLTP_Low_Temp_TF_Status_list_v2019-08-06.xlsx

Line 27, It was written:

EC: For ICE/NOVC-HEV 1x WLTP test, emissions 3&4 phases. For OVC-HEV 1x 3 phases and 1x 4 phases WLTP (both CD & CS).

Line 27 now:

EC: For ICE/NOVC-HEV 1x WLTP test, emissions 3&4 phases. For OVC-HEV CD test: 1x 3 phases and 1x 4 phases WLTP and for CS test 1x 4 phases WLTP.

This change has been incorporated in the file that was used during telco and in the excel page corresponding to the EC presentation (06-08-2029).

Low_T_TF_27th Telco on _minutes- draft.docx
3/ Open issues from last telco

Chair reminded some issues of the status list which were mentioned in past telco:

- Line 27 [CD/ CS]
- Line 37 [fuels]
- Line 43 [Transfer to dynamometer]
- Issues on the CO\textsubscript{2} for customer information are also a matter of concern and need further discussion inside the TF as well as in the EV-SG. Input from CP is very necessary too.

Chair asked if further progress had been done to propose any change to the actual proposals. No comment on any of the aforementioned issues. Lines will be consider for drafting together with the rest of the items in the status list. Progress expected during WLTP 28\textsuperscript{th} Bern.

4/ Preparation of the meeting WLTP session 28\textsuperscript{th} of September: Contents LowT TF progress report; Main topics to be discussed in Bern on the 25\textsuperscript{th} of September & Progress in the decision making (preparation phase for drafting process)

“Labelling” of the lines in the status_list excel file as “ready for drafting”:

There is no agreement yet on how and when the list of issues should be labelled. Chair remarked again that this is an urgent topic and a priority in order to allow R. Gardner to start his work. He will need clear indications from TF to start the process in October.

A new version of the status list: WLTP_Low_Temp_TF_Status_list_v2019-09-09.xlsx has been prepared (and then loaded in CIRCA BC).

C. Astorga, as Chair of the WLTP Low TF and in her capacity and obligation of facilitating and boosting the work of this group, together with Peter Bonsack, who is representing CP CH in the TF and actively participating in the drafting process, have marked several issues in the column of ”status” as “Green or orange”, while the legend is the same as in the previous page dated on the 6th of August.

Chair asked all the TF members to read it carefully and think if there may be an agreement in what is green and therefore ready for drafting. Chair asked for an effort and to do as much work as necessary to allow turning the orange into green too.

Chair remarked that if we want to deliver the draft of GTR optional annex in time, one of the priorities in the TF is to give clear indications to the drafting coordinator on what is ready for drafting. R. Gardner will have very limited time to prepare the document "LowT GTR optional annex" and we have to be co-responsible.

Revision of the document will be done on Wednesday, 25\textsuperscript{th} of September during the WLTP – LowT TF f2t meeting in Bern.
If any modification is needed, it should be done using the following template and send it to Chair, cc. to Peter Bonsack, before the 22nd of September to allow preparing the agenda for our session on Wednesday 25th

<table>
<thead>
<tr>
<th>Row #xx</th>
<th>what</th>
<th>Who?</th>
<th>When</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>What is missing or needs further discussion</td>
<td>Commitment to provide further data or information to facilitate the conclusion</td>
<td>Expected time to provide the info</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>(Before Bern, 22nd Sept the latest)</td>
</tr>
</tbody>
</table>

This applies also to lines from 80 to the end of document “status list”, which would need to be addressed in the same way by the EV-SG

6/ SG EV contribution to WLTP Low Temp Test Procedure (Preparation of the WLTP Bern)

SG-EV short summary of the progress and proposals for the LowT TF (M. Nägeli)

1. Discussion of the procedure in general:
   - PEV:
     i. Discussion of Shortened Test Procedure at -7°C and Short Method (input coming from Bryan Roos – adjusted presentation) at -7°C
     ii. Discussion of the further proceeding with these two methods/procedures: open points, questions, concerns, etc.
   - OVC-HEVs:
     i. Confirmation that CD-test and CS-test need to be performed at -7°C

2. Discussion of specific points in the procedure
   - PEVs/OVC-HEVs: Preconditioning of the vehicle (important to have stable conditions at one point in the procedure as traction REESS temperature will have an effect on test result)

3. Discussion of a family concept
   - PEVs/OVC-HEVs: Family concept to reduce mandatory required testing burden

7/ Next Telco and meetings

When and how to start the drafting process: Telco after the 3rd week October (P. Bonsack / R. Gardner)

LoW_T_TF_27th Telco on _minutes- draft.docx
Chair confirmed that drafting coordinator will have the support and collaboration of a small group of members of the TF led by P. Bonsack (CH). List of members -who volunteered- is available and telco will be called after WLTP 28th by P. Bonsack).

[*] This serial number will be kept and updated by the chair of the TF following the evolution of the discussions, including date of modification.

All excel files containing the Low T TF status list will be saved and available in CIRCABC to track the evolution of the conversations and discussions inside the LowT TF.

All documents mentioned in this minutes can be found at CIRCA BC under:
(EUROPA > European Commission > CIRCABC > GROW > wltp > P > Low and realistic winter temperature TF)
List of participants:

Bart Thedinga (EC) B.T.
Bill Coleman (VW/OICA) B.C.
Carmel Ellul (?) C.E.
Cova Astorga (Chair) C.A.
Christophe Petitjean (CLEPA) C.P.
Didier Robart (Delphi/CLEPA) D.R.
Hans Matthiasson (Volvo/OICA) H.M.
Iddo Riemersma (EC) I.R.
Jochen Wiessner (Daimler AG)
Les Hill (Horiba) L.H.
Marcis Lakstigala (CLEPA) M.L.
Matthias Nägeli (VW/ACEA-EV/SG-EV) M.N.
Mayumi Marimoto (JPN/JAMA) M.M.
Noriyuki Ichikawa (JPN/JAMA/SG-EV) N.I.
Olle Berg (Volvo/OICA) O.B.
Pablo Mendoza (AECC) P.M.
Peter Bonsack (CH) P.B.
Pierre Cognet (PSA) P.C.
Ricardo Suarez-Bertoa (JRC) R.S.B.
Shumpei Miyazaki (JPN/MLIT) Sh.M.
Takahiro Haniu (JARI) T.H.
Y. Katsumata (Nissan) Y.K.
### 27\textsuperscript{th} Telco Low Temp Task force

#### Low Temp Task force Agenda

<table>
<thead>
<tr>
<th>Date</th>
<th>September 2019</th>
</tr>
</thead>
<tbody>
<tr>
<td>Time</td>
<td>Monday 9\textsuperscript{th} (9:00-11:00h)</td>
</tr>
</tbody>
</table>

**Informal Document**

- **Agenda**

- **Low Temp TF 2019-09-09** *(Doc TF LowT 27-01)*

**Room link** [https://ecwacs.webex.com/meet/mastorga-llorens](https://ecwacs.webex.com/meet/mastorga-llorens)

<table>
<thead>
<tr>
<th>Time</th>
<th>Agenda item</th>
<th>Lead/Contributions</th>
<th>Working Document</th>
</tr>
</thead>
<tbody>
<tr>
<td>9:00</td>
<td>Welcome and introduction Presentation of Agenda Minutes of 26\textsuperscript{th} telco (06/08/2019)</td>
<td>Coordinator / All</td>
<td>Agenda TF LowT 27-01 <em>(doc attached mail 05/09/2019)</em></td>
</tr>
<tr>
<td>9:10</td>
<td>Summary &amp; information on: LowT TF progress &amp; planning</td>
<td>Coordinator / All</td>
<td>minutes TF LowT 27-02 <em>(doc attached mail 05/09/2019)</em></td>
</tr>
<tr>
<td>9:15 – 9:45</td>
<td>Auxiliary devices; Closing of activity 1</td>
<td>Ch. Petitjean</td>
<td><em>(doc attached mail 06/09/2019)</em></td>
</tr>
<tr>
<td>9:45-10:15</td>
<td>Preparation of the meeting WLTP session 28\textsuperscript{th} of September: Contents LowT TF progress report Main topics to be discussed in Bern on the 25\textsuperscript{th} of September Progress in the decision making (preparation phase for drafting)</td>
<td>Coordinator / All</td>
<td></td>
</tr>
<tr>
<td>10:15-10:45</td>
<td>SG EV contribution to WLTP Low Temp Test Procedure (Preparation of the WLTP Bern) SG-EV short summary of the progress and proposals for the LowT TF</td>
<td>EV-SG team</td>
<td></td>
</tr>
<tr>
<td>10:45-11:00</td>
<td>Start the drafting process (when and how): Telco?</td>
<td>P. Bonsack / R. Gardner</td>
<td></td>
</tr>
</tbody>
</table>

**Next Telco and meetings**
<table>
<thead>
<tr>
<th>11:00</th>
<th>End of the meeting</th>
<th></th>
<th></th>
</tr>
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</table>