

**Request to GRPE for Approval  
of Prolongation of Mandate  
and  
Status Report of the  
WLTP Informal Working Group**

**Prepared by WLTP IWG**

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Seperate document:

**Transposition into UN R (GRPE-79-XXe)**

# 1. Actions List during 79<sup>th</sup> GRPE

| Working Categories                                | Expected Actions<br>(reported during 78 <sup>th</sup> session)  | Actions List  |
|---|---|---|
| GTR15 Amd#6,<br>if ready                          | ✓ submit Informal Document for review   | ➤ no action is required (postpone to 80 <sup>th</sup> GRPE session)   |
| Transposition to UNR including durability and COP | ✓ submit Informal Document for review   | ➤ <b>request for review</b> (no concrete text but provide the structure and basic concept, refer GRPE-79-XXe) |
| Mandate   | ✓ submit Informal Document to request for prolongation of mandate WLTP IWG for remaining Phase 2 activities and Phase 3 if needed | ➤ <b>request for approval</b> (refer to the following slides)   |

## 2. Request for Prolongation of Mandate (Summary)

|                           | 2019  | 2020  |
|---------------------------|---|---|
| <b>Phase2b Activities</b> | <b>Request for Approval</b>   |   |
|                           | <b>current Mandate</b><br>(source :<br>ECE/TRANS/WP.29/2016/73)                     |    |
| <b>Future Activities</b>  |   | ★<br>report tentative plan  |
|                           |  |   |
|                           |   | ★<br><b>Request for approval or guidance for future activities</b>                    |
|                           |   |  |

due to prioritization of UNR transposition, need for another 6 months to complete phase2b activities

**prolong till mid 2020**

★  
report tentative plan

develop concrete plan under WLTP IWG

★  
**Request for approval or guidance for future activities**

**start activities**

## 2-1. Current Mandate & Timeline of WLTP – Phase 2

source : ECE/TRANS/WP.29/2016/73 and adopted by WP.29/AC.3 at the 169<sup>th</sup> session

### 6. Scope of work in Phase 2 should cover:

- (a) Original items described in ECE/TRANS/WP.29/AC.3/26 and Add. 1
  - ✓ the work on the development of the test cycle and the test procedures,  
\*\*\*\*\* in an open way and in parallel with Phase 1 \*\*\*\*\*
  - ✓ the development test procedures for Off-Cycle Emission (OCE)
  - ✓ Mobile Air Conditioning (MAC)
- (b) Remaining issues from WLTP Phase 1b
- (c) Durability for ICE and EV
- (d) Evaporative emissions
- (e) Low ambient temperature emissions
- (f) Test procedure for emissions and fuel consumption from MAC
- (g) On-board diagnostics requirements
- (h) Develop criteria for ex-post assessing road load parameters
- (i) Other items.

## 7. In addition:

work for Transposition of GTR15 on WLTP into UNR annexed to the 1958 Agreement

### **III. Timeline**

8. The work of the IWG on WLTP Phase 2 should be completed by 2019. Phase 2 will be divided into Phases 2a (until June 2017) and 2b (until the end of 2019). The transposition of UN GTR No. 15 on WLTP into new Regulations annexed to the 1958 Agreement should ideally be finalized by the end of 2017 but the work may continue until the end of 2019 without a formal modification of this mandate, if needed due to circumstances.
9. A prolongation and extension of the mandate of the IWG on WLTP should be considered by GRPE in due time.

# 2-3. Overview of Working Items

| Scope of Work                      | Timeline (working doc in GRPE) | Possible future (related) work          |
|------------------------------------|--------------------------------|---|
| (a) Test Cycle                     | <b>DONE</b>                    |   |
| HEV system power <b>ADDED</b>      | → <b>EVE IWG</b>               | Transpose to GTR and UNR                |
| (a) Test Procedure @ 23°C          | <b>DONE</b>                    |   |
| (a) & (f) Mobile air conditioner   | not active                     | (if CP requested)                       |
| (a) Off cycle / RDE                | → <b>RDE IWG</b>               |   |
| (b) Maintenance on GTR#15&#19      | <b>June 2020 (Amd#6)</b>       | onwards                                 |
| (c) Durability of ICE              | January 2020                   |   |
| (c) Durability of Battery          | → <b>EVE IWG</b>               | Transpose to UNR                        |
| (d) Evaporative test procedure     | <b>DONE</b>                    |   |
| (e) Low temperature                | <b>June 2020</b>               | Transpose to UNR                        |
| (g) OBD                            | <b>June 2020</b>               | Transpose to UNR                        |
| (h) Criteria for ex-post road load | not active                     | (if CP requested)                       |
| (i) others                         |                                |   |
| In service conformity              | not active                     | (if agreed)                             |
| COP <b>ADDED</b>                   | January 2020                   |   |
| High altitude                      | not active                     | (if CP requested)                       |
| Crankcase, Idle emissions, , , ,   | not active                     | (if CP requested)                       |
| 7 Transposition into UNR           | January 2020                   | Maintenance & updates e.g. add new test |

# Requests to GRPE-79

By June 2020 most of the Phase 2a + 2b items currently under development will be finished (Working Documents to GRPE).

**Request: prolong WLTP Phase 2b mandate by an additional 6 months till mid 2020**

And inform WP.29 accordingly

**Request: agree with final work plan for period after mid 2020 to be presented in June 2020 GRPE (preview Jan 2020)**



### 3. Status of Sub-Group / Task Force

| TF                                   | Status   |
|--------------------------------------|--|
| UNR                                  | <ul style="list-style-type: none"> <li>✓ accelerate to reach agreement on a variety of item</li> <li>✓ still need to solve plenty of items</li> </ul>  |
| Durability                           | <ul style="list-style-type: none"> <li>✓ general requirement was agreed</li> <li>✓ pursue the assigned DF for diesel ICE in EU region</li> </ul>   |
| COP                                  | <ul style="list-style-type: none"> <li>✓ consider which elements need to be harmonized</li> <li>✓ collaborate with SG EV</li> </ul>  |
| Low Temp.                            | <ul style="list-style-type: none"> <li>✓ accelerate the discussion to meet the schedule</li> <li>✓ collaborate with SG EV</li> </ul>   |
| OBD                                  | <ul style="list-style-type: none"> <li>✓ has agreed to keep current R83 requirement with a modification of demo cycle (to WLTC)</li> </ul>   |
| Improvement of GTR15 and/or 19       | <ul style="list-style-type: none"> <li>✓ has agreed to modify ①gear shift description, ②CVS.</li> <li>✓ collaborate with SG EV for further improvement</li> </ul>  |
| Gear Shift /Drive Trace Indices(DTI) | <ul style="list-style-type: none"> <li>✓ Gear Shift : develop equivalent calculation programming codes to be used for compatible test benches and add them as appendices to GTR</li> <li>✓ DTI : has agreed to apply level1/2 concept</li> </ul> |
| CFD                                  | <ul style="list-style-type: none"> <li>✓ developing the clear criteria when applying the CFD method</li> </ul>   |

## 4. Outlook for 80<sup>th</sup> GRPE session in January 2020

| Working Categories   | Expected Actions  |
|----------------------|---|
| Transposition to UNR | ✓ submit <b>Working Documents</b> for approval                            |
| GTR15 Amendment6     | ✓ submit Informal Document for review                                     |
| Low Temp. procedure  | ✓ submit Informal Document for review                                     |
| OBD                  | ✓ submit Informal Document for review                                     |
| Mandate              | ✓ report tentative plan for future work                                   |
| IWG Meeting          | ✓ <b>request one and half day session for IWG meeting including SG-EV</b> |