

Informal document **GRPE-78-13e**
78th GRPE, 10-11 January 2019,
agenda item 3(b)

Status report of the **WLTP Informal Working Group**

Prepared by WLTP IWG

Content

1. Request for GRPE Approval
 - 1-1. Amendment 5 of GTR#15
 - 1-2. Amendment 2 of GTR#19
2. Review Overall Progress
3. Status of each TF
4. Outlook for GRPE-79

Seperate presentation:

Transposition into UN R (GRPE-78-14e)

1. Request for GRPE Approval

| Working Categories | Expected Actions reported during 77 th GRPE | Request for GRPE Approval |
|---|--|---|
| GTR15 Amendment5 (Type I under 23°C) | ✓ submit Working Document for approval | <ul style="list-style-type: none"> ➤ ECE/TRANS/WP.29/GRPE/2019/2 ➤ Informal Document : GRPE-78-21 Technical report : GRPE-78-03 |
| GTR19 Amendment2 (Evaporative Emission) | ✓ submit Working Document for approval | <ul style="list-style-type: none"> ➤ ECE/TRANS/WP.29/GRPE/2019/4 Technical report : GRPE-78-09 |
| Transposition to UNR | ✓ submit Informal Document for review | <ul style="list-style-type: none"> ➤ Postponed |
| Low Temp. Test (Type I under -7°C) | ✓ submit Informal Document for review | <ul style="list-style-type: none"> ➤ Postponed |

1-1. Amendment 5 of GTR 15

(Type I test under 23°C)

Working Document : ECE/TRANS/WP.29/GRPE/2019/2

Informal Documents : GRPE-78-21

→ Both documents will be merged and submitted for WP.29 review and approval (2019 June session)

Main Modifications/Improvements in Working Document

- ✓ reflection of Round Robin Test for gear shift point determination
- ✓ make more robust for road load measurement and wind tunnel method
- ✓ apply Vehicle_M concept to ICE vehicles

1-1. Amendment 5 of GTR 15

(Type I test under 23°C)

Main Modifications/Improvements in Working Document _cont.

- ✓ allow alternative procedure in case that practical errors have been identified during interpolation calculation
- ✓ make it clear REESS voltage measurement during REESS energy change-based correction procedure
- ✓ exempt the analysis of specific contaminants depending on the production process for hydrogen (fuel cell vehicles)

Main Modifications/Improvements in Informal Document

- ✓ make “predominant mode” definition more robust (also in line with EU reg.)
- ✓ allow break during coastdown measurement
- ✓ [Road load matrix family 3 ton issue]

1-2. Amendment 2 of GTR#19

(Evaporative Emission Test)

Working Document : ECE/TRANS/WP.29/GRPE/2019/4

Main Modifications/Improvements

- ✓ allow alternative emission calculation formula (US EPA has been adopting for decades)
- ✓ improve equipment calibration requirement (← some of equipment are missing)
- ✓ make family definition more robust (also in line with EU reg.)
- ✓ make it clear to install aged canister timing for robust procedure

Additional modification without document

- ✓ Annex 1 Paragraph 3 & 5.1.3.2. : **an** aged canister → **the** aged canister

2. Overall Progress

| | | 2018 | | | 2019 | | | | 2020 | | | |
|----------------------------|-------------------------|----------|----|----|------|----------|----|----|------|----------|------------|----|
| GRPE Meeting | | 77 | | | 78 | 79 | | 80 | 81 | | | |
| WLTP IWG Activities | Meeting | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 |
| | Overall Schedule | Original | | | | Phase_2b | | | | Phase_3 | | |
| | Likely | | | | | Phase_2b | | | | Phase_2b | Phase_2c ? | |

➤ Due to contradictory positions on a variety of item, completion of UNR and Low Temp TFs will be delayed by one or two GRPE sessions.

- UNR-WLTP
- Low Temp TF
- Remaining Open Issues
- OBD

depend on TF progress

➤ Due to non-urgent CP needs, MAC/other TFs will not be started until CPs provide a clear deadline.

if CPs request

- MAC
- others

➤ Phase3 activities (limits/fuel/others) are already on the table as a part of Transposition TF → may be skipped

3. Status of each TF

| TF | Status | Next Actions |
|--|---------------------------------------|---|
| Transposition to UNR | on going | plan to submit informal document @ 79 th GRPE, collaborate with other TFs |
| Cycle/Gear Shift /Drive Trace Indices(DTI) | on going | Cycle : re-open when HEV system power is available Gear Shift : re-open TF for tool management DTI : outcome will be incorporated into UNR TF |
| Low Temp. | on going | EC has strong demand to complete by the end of 2019 collaborate with SG EV |
| Evapo. | COMPLETED | NA (re-open per CP needs) |
| Durability | PENDING | EU propose to develop as regional basis WLTP IWG holds its decision |
| COP | on going | outcome will be incorporated into UNR TF |
| OBD | will re-open | working items and schedule will be reviewed again and clear future actions will be developed |
| New Open Issues | COMPLETED with a few exemption | CFD : on going under the sub-group 4WD Chassis : outcome will be incorporated into UNR TF |

4. Outlook for 79th GRPE session in May

| Working Categories | Expected Actions |
|---|--|
| GTR15 Amendment6, if ready | ✓ submit Informal Document for review |
| Transposition to UNR including durability and COP | ✓ submit Informal Document for review |
| Mandate | ✓ submit Informal Document to request for extension of mandate WLTP IWG for remaining Phase 2 activities and Phase 3 if needed |
| IWG Meeting | ✓ request full 1 day session including Transposition TF ✓ request half day session for SG-EV |