



Transposition of GTR15 (WLTP) and GTR19 (Evap) into UN Regulations

Update for GRPE from WLTP Transposition Task Force January 2019

Post-77th GRPE Update

Task Force and WLTP IWG Meetings held:

25/06/18 (WebEx); 06/08/18 (WebEx); 20-21/09/18 (Tokyo); 05/11/18 (WebEx); 23/11/18 (Paris); 17/12/18 (WebEx); and 7-8/01/19 (Geneva)

Discussions on transposition also held at 28th Session of IWVTA (09/11/18, Geneva) (see IWVTA-28-08-rev.1 WLTP Transposition)

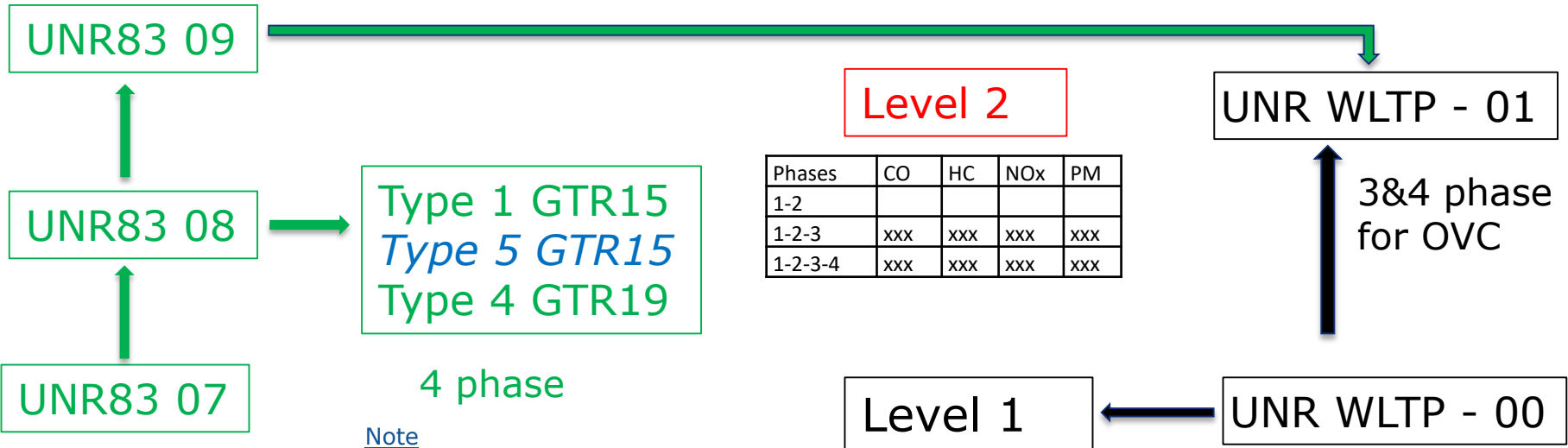
25th June – 9th November 2018

- **Worked on structure and content of draft text**
- **Approach 3 (one series of amendments to cover L1a, L1b & L2) reconsidered**
 - Discussed at 28th IWVTA Session - Mixed support/objection for Approach 3
- **Worked on structure and content of draft texts**
- **Inclusion/Exclusion of EU specific procedures (e.g. ATCT) re-discussed**
- **Different EU and JPN positions on durability → Task Force put 'on hold'**
- **Discussions on the 'need for'/'purpose of' Levels 1a & 1b**

Post-77th GRPE Update

- **23rd November 2018, OICA, Paris – face to face/WebEx**
 - **Discussions on a potential new concept to avoid disharmonisation in UNR WLTP by including Level 1a (Europe) in UNR 83 08 series (see schematic on next slide)**
 - **Matrix concept developed**
 - **Issue - Plug-in hybrids don't fit within the 3 phase (L1b)/4 phase (L1a) concept**
 - **European Commission proposal to extend timeline**
 - **More time needed for finalising the L2/L1 concept and for developing harmonised Conformity of Production and Durability requirements**
 - **Proposal to extend timeline by one GRPE session (i.e. Informal Documents for 79th GRPE and Working Documents for 80th GRPE)**

'Alternative concept discussed at 23rd Nov 2018 meeting



Type 1 GTR15
Type 5 GTR15
Type 4 GTR19

4 phase

Note
The Type 5 test was not included in the diagram developed during the meeting. However if a harmonised Type 5 test is developed to the timetable then it would also be included in UNR 83 08 series.

Under this concept the Level 1 elements (UN 83 08 and UNR WLTP 00) would not be applicable until Level 2 was in force

Level 2

Phases	CO	HC	NOx	PM
1-2				
1-2-3	xxx	xxx	xxx	xxx
1-2-3-4	xxx	xxx	xxx	xxx

Level 1

Phases	CO	HC	NOx	PM
1-2				
1-2-3	xxx	xxx	xxx	xxx
1-2-3-4				

Note
Under this concept, UNR83 08 series would be a complete 'copy and paste' of (EU) 2017/1151.
UNR 83 09 series would only include the (EU) 2017/1151 requirements which are not included in UNR-WLTP (e.g. Type 6, ISC, OBD, RDE etc.).

UNR WLTP - 01

3&4 phase for OVC

UNR WLTP - 00

3 phase for OVC

Notes
UNR WLTP 00 and 01 would use a harmonised test procedure – with some potential non-harmonised options in 00 (e.g. single-axis dyno).
00 and 01 series would both include a harmonised Type 5 test if developed in time.

Post-77th GRPE Update

- **17th December 2018 - WebEx**
 - **Japan supported the extension to the timeline**
 - **Japan strongly objected to including WLTP in UNR 83 – reasons:**
 - Having regional regulations in separate UNR (EU: R83, JPN: R-WLTP), “harmonisation” scheme will be collapsed. Therefore, UNR for WLTP based on GTRs should go to one single UNR.
 - Same requirement with separate UNR is against the concept of 1958 agreement.
 - The approach EC and Japan agreed before (= Approach 2) is not yet denied. There is no need to change scheme from the original to “discussion starter idea”

WLTP Transposition: Open issues

- **Different cycles (EU L-M-H-ExH), (Japan L-M-H)**
 - **Solutions exist for pure combustion engine vehicles and pure electric vehicles but OVC-HEV are still problematic as they require two separate tests (one for 4 phases, one for 3 phases)**
- **Reference Fuels**
- **Number of tests to demonstrate CO₂**
- **Limits for Drive Trace Indices (RMSSE: Japan 0.8 km/h; Europe 1.3 km/h)**
- **Usage of Daytime Running Lights**
- **Testing of 4WD vehicles**
- **Conformity of Production**
- **Utility Factors**
- **EU unique items (ATCT, Normalisation, Vehicle Type,)**

Post-77th GRPE Update

- **25th WLTP IWG – 7th/8th January 2019**
- Further discussion on approach and concept for transposition
 - Japan reconfirmed their position – to proceed with Approach 2.
- Discussed options within GTR15 and GTR19 and how to proceed
- Discussed the importance of developing the UNR within the timetable covered by the mandate for Phase 2 of IWG
- Introduction of initial report on gasoline reference fuel study
- Update on Conformity of Production Task Force
 - Timeline aligned with UNR WLTP
- Update on Durability Task Force
 - Proposal on way forward for Durability by European Commission

Revised Work plan

- **Developing Level 2 is top priority for Task Force**
 - **This will help to further highlight the main issues requiring resolution**
- **Obtain consensus on both the approach and the concept**
- **Continue to develop UNR WLTP and UNR 83 08 series regulatory texts**
- **Further discussion/agreement on Contracting Party options**
- **Proposal for a harmonised gasoline reference fuel**
- **Meetings**
 - **Dates for face to face and WebEx meetings to be decided**
- **Informal UNR WLTP and UNR 83 08 series for 79th GRPE, May 2019**
- **Working Documents for 80th GRPE, January 2020**



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