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
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- 23rd November 2018, OICA, Paris – face to face/WebEx
  - Discussions on a potential new concept to avoid dis-harmonisation 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

UNR83 09

UNR83 08

UNR83 07

Type 1 GTR15

Type 5 GTR15

Type 4 GTR19

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.).

Level 1

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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.

Level 2

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3 phase for OVC

3&4 phase for OVC

Under this concept the Level 1 elements (UN 83 08 and UNR WLTP 00) would not be applicable until Level 2 was in force.
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- \textbf{17\textsuperscript{th} 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 engined 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, ....)

Adapted from IWVTA-28-08.
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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