Status of the draft GTR

65th GRPE, 15-18 January 2013
A.1 to 3: Statement of technical rational and justification

To be done by DG-ENTR
01 A.1 to 3. Statement of technical rational and justification
02 B.1. Text of regulation_ Purpose
03 B.2. Text of application_Scope
04 B.3. Definitions
05 B.4. Symbols
06 B.5. Abbreviations
07 B.6. General and performance requirements
08 Annex 1 WLTP DHC Drive Cycle
09 Annex 2 Gear Selection, Shift Point Determination
10 Annex 3 Reference Fuels
11 Annex 4 Road and Dynamometer Load
12 Annex 5 Test Equipment and Calibrations
13 Annex 6 Test Procedures, test conditions
14 Annex 7 Calculations
15 Annex 8 Electrified Vehicles
16 Annex 9 Determination of System Equivalence

B.1. Text of regulation: purpose
Uploaded to CIRCABC
Open point: proposed text to be reviewed
B.2. Text of regulation: scope
Uploaded to CIRCABC
Open point: proposed text to be reviewed
B.3. Definitions
Not yet reviewed.
Work has started on these sections but have not been reviewed.
B.6. General and Performance Requirements

DC proposal uploaded to CIRCABC in January. This Section has not yet been reviewed.
Annex 1 WLTP DHC Drive Cycle

The Annex includes speed/time diagrams and tables for all cycles. It also includes a definition of the various vehicle classifications.

This Annex is essentially complete pending running modifications.
This Annex contains calculation methods to determine which gears are to be used on the respective cycles.

Furthermore, cycle tolerances and aspects of driving such as starting, stalling, re-starting, choke operation, steady state driving, accelerating, decelerating, clutching and declutching, etc. are currently being reworked by DTP and DHC and will be moved here from Annex 6.
Annex 3 Reference Fuels

Input has been received from subgroup Reference Fuels.

Tables describe fuels (petrol, diesel, E85, LPG, CNG, etc.) in Europe, India, South Africa, Japan, South Korea.
Annex 4 Road Load Determination

Major open drafting-relevant points:
- on-board anemometry (to be included or not)
- methods of road load calculation
- road condition (slope)
- vehicle selection
  - options
  - moveable aerodynamic aids
  - tyre tread depth
- vehicle warming up
Annex 5 Test equipment and Calibrations

This Annex is fairly complete.

Major open drafting-relevant points:
- particle concentration factors
- analysis of formaldehyde and acetaldehyde
- sampling storage time for ethanol
Annex 6 Test Procedures, Test Conditions

Major open drafting-relevant points:

- all aspects on driving (starting, stalling, re-starting, choke operation, steady state driving, accelerating, etc.) will be moved to Annex 2
- test cell temperature
- subgroup PM/PN currently reviewing text on PM and PN sampling, filter weighing rolling average
- the entire section on regenerative systems to be reworked by PM/PN and LabProcICE
Annex 7 Calculations

This Annex is essentially complete.

Major open drafting-relevant points:
• Calculating CO₂ emissions at different vehicle masses using a regression method.
Annex 8 Electrified Vehicles

Major open drafting-relevant points:
- Equations to be reviewed and rewritten
- Subgroup to review proposed text from DC on test procedure and conditioning of BEVs and OVC-HEVs
- Determining utility factors

Many more web/telephone conferences or f2f meetings are still required
There has in the past been no general agreement as to whether there should be an annex on this subject. However, at DTP #9, it was decided that there must be a way to demonstrate equivalency of systems, such as for measurement equipment/methods or coastdown methods. Hence, an Annex on equivalency should be kept.

- DC will investigate how other GTRs and ECE regulations (e.g., 49) deal with equivalency.