

WLTP DHC subgroup	
Title	Minutes of 10th Meeting
Working Paper Number	WLTP-DHC-10-19

11th/12th Oct. 2011 @ ACEA/EU Commission

1. Postpone of Validation-2

- EU Commission proposed to postpone Validation 2 by 3 months because current WLTC does not represent EU driving situation.
- EU Commission will propose alternative driving cycle with technical analysis by the end of October.
- DHC leader will provide revised road map reflecting 3 month postponement.
- Mr. Steven on behalf of EU Commission has explained their analysis of current WLTC. Unified WLTP & EU database is almost similar, but current WLTC has less dynamics evaluated by the rate of acceleration. Mr. Steven is focusing on rate of positive acceleration which significantly influencing to emission, Japan is concentrating to positive/negative acceleration, idling, and cruising to reflect representative driving condition of WLTP database using X2, RPA and other parameters.
- Japan has insisted that the modification of WLTC version 2 should be based on current proposed cycle, and the method which has been agreed by the group.
- Consideration for vehicles which can't follow the cycle (ex. low powered vehicle) is necessary, including the definition of "low powered vehicle". India will provide the proposal of the definition by the 2nd week of Nov. Japan has reserved developing another driving cycle for low powered vehicle.
- Telephone conference will be held at 9:00 a.m. (European time) on Nov 7th for proposal of modified driving cycle from EU and how to handle "low powered vehicle". (EU Commission will coordinate the conference.)
- Another telephone conference will be held on 12th Dec. for Validation 2 with mode construction. (EU Commission will coordinate the conference.)

The documents of current WLTC technical analysis are available on UN-ECE web site. (WLTP-DHC10-xx)

2. Reporting of Validation-1 result

Validation 1 participated laboratories has made presentation on the result.

Reported CPs are;

JRC, India, Austria, ACEA, Korea, and Japan. The reports are available on UN-ECE web site. (DHC10)

- Driving difficulty at the very low speed part. (necessity of half clutch)
- Difficulty to trace the cycle for low powered vehicles.
- Concern to reproducibility at micro transient.
- Difficulty to trace the cycle due to max. speed limit of vehicle specification.

- Part of vehicles is not completely warmed up at the end of Low phase from cold starting. Middle phase might be necessary for hot start testing if applicable.
- Lack of static weight to driving wheel could make slip at the high acceleration and deceleration.

3. Study of revising WLTC

- No objection to the report of JAPAN

There are 22 points of revising candidate which are;

- adjust acceleration.
- adjust deceleration.
- adjust micro transient lower than the specific speed.

The document is available on UN-ECE web site. (DHC10)

4. Analysis of speed threshold

- Japan has presented the other speed threshold which has requested by India.
- Comparison average speed, V-A distribution, and cumulative speed frequency data by current threshold with U/R/M situation of India shows very similar.
- There was no objection to current speed threshold.

5. Mode construction

- 2 proposals from ACEA and Japan.
- Simple testing construction may lose adjustment flexibility to reflect traffic condition of each region, but complicated construction may increase testing burden.
- This discussion may be too early to find out the best compromised point because even complicated construction cannot solve/adjust CO2 bias due to unrepresentative driving cycle, therefore we should focus to consider representative driving cycle at first.
- Will discuss later

6. Reschedule of road map

- 3 months postpone could result about 7 months delay, but EU Commission cannot accept that at this moment. (DHC should do the best to minimize delay time.)
- Small Group meeting will be held on 25th Nov for revision of road map (Brussels).

Schedule:

Data & time	Meeting	Place	Agenda
07/Nov 9:00-	DHC	Tel-conf (hosted by EC)	EU analysis, Japan analysis How to treat low powered vehicle
25/Nov	Steering Gr	BRU	Review and revision of roadmap
12/Dec 9:00-	DHC	Tel-conf (hosted by EC)	Mode construction
Jan/2012	GRPE	Geneva	