

System Power Determination

Status of Drafting, Open Issues, Validation Program

27th EVE, Geneva, June 2018

Drafting group

- Current membership:

- Chair – Mike Safoutin – US EPA
- Samarendra Tripathy – Renault
- Elena Paffumi – JRC
- Michele DeGennaro – JRC
- Jiamiao Li – PSA Group
- Matthis Naegeli – VW
- Norbert Klein – Hyundai
- Heinz Steven
- Kendelle Anstey – Canada
- Masao Kubodera – Japan
- Shinichi Abe – Japan

- Five tel-co meetings held to date:

- 21 Nov 2017
- 13 Dec 2017
- 20 Mar 2018
- 24 Apr 2018
- 7 May 2018

Status of Draft GTR

- EVE 26 (Japan) – agreed to make draft available before EVE 27
 - For review by EVE group
 - To assist with planning for validation program
- Clean version of Draft GTR is available on UN ECE website:
 - <https://wiki.unece.org/display/trans/Power+Determination+GTR+Drafting+Group>
- List of primary open issues (as seen by drafting group) also available
- These will be discussed in more detail at Drafting Group session
 - Wed 6 June, 13:30-17:00
 - NTSEL office in Geneva (80 Rue de Lausanne, 1202 Geneva)

Validation program – recent developments

- Canada is translating remainder of JARI report
- Japan to visit JRC Ispra - June 11-12 for pre-testing exercise
 - With “Golden person” - Mr. Shimamura (author of JARI report)
 - Will demonstrate vehicle instrumentation, how to run tests, how to process results
 - Test vehicle (Volvo) provided by OICA
- EPA has provided example test plan derived from draft GTR procedure
- EPA making arrangements to instrument and test 2013 Chevrolet Volt and 2013 Malibu Eco after JRC visit
- OICA has provided validation template that was used in WLTP Phase 2 to assist with data collection and documentation

Validation program - Considerations

- Participating labs should consider need for manufacturer participation
 - Results of ISO 1585 / R85 needed for TP1
 - Identification of vehicle speed at which maximum power occurs (to avoid need to run a sweep of different speeds)
 - Scan tool to access necessary CAN signals (HV battery SOC at minimum)
 - Any special requirements (for example, how to enter dynamometer test mode)
- Results of R85 required for TP1
 - Should be available for Euro-spec vehicles
 - May not be available for North America vehicles
 - May impact ability to perform TP1 by Canada, US
- Additional open issues may be seen at UN ECE Drafting Group website

Open issues - Draft GTR (highlights only)

- Access to full ISO FDIS 20762 will be needed
- Standalone GTR or Annex?
 - Current draft is most adaptable to become an Annex
 - Standalone GTR will require additional work to bring in applicable provisions from GTR No. 15
- Additional open issues available at UN ECE Drafting Group website
 - These will be discussed further in Drafting group meeting
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