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
  • Wed 6 June, 13:30-17:00