Power determination

Brief Status and Update
EVE-32, Brussels, October 2019
History and status of GTR

• Test procedure was drafted in 2017-2018, based on ISO 20762
• Validation testing was conducted in 2018 using the draft procedure
  • TP1 and TP2 produced significantly different results
  • IWG proposed Phase 2 of testing, and extension of schedule
• New schedule:
  • June 2019: Approval of authorization by GRPE to extend timeline
  • October 2019: Completion of testing, review of results, and draft GTR changes
  • November 2019: Approval of new timelines in formal document by AC.3
  → January 2020: Preliminary draft of GTR text to be available
  • June 2020: Recommendation of draft GTR by GRPE
  • November 2020: Establishment of the GTR by AC.3 in Global Registry
Status of power determination GTR

• Drafting group: “Determination of Electrified Vehicle Power” (DEVP)

• Recent meetings:
  • DEVP #8: At EVE 30 in Stockholm (April 2019)
  • DEVP #9: At EVE 31 in Geneva (May 2019)
  • DEVP #10: Teleconference (October 2, 2019)

• Limited opportunity for drafting during Summer 2019
  • Open issues were identified at EVE 30/31 (not simple drafting issues)
  • These required careful study before drafting was possible
  • Technical rationale and justification was expanded, to relate the complexities
  • Several revisions to the procedure were proposed and drafted
Recent progress

• Proposed changes to procedure have been drafted for consideration
• New guidance to validation laboratories was prepared
• Second phase of validation began late Summer 2019
  • US EPA was unable to participate due to technical and administrative issues
  • JRC and Environment Canada are testing additional vehicles
• Drafting group studied open issues relating to powertrain architecture
  • Resulted in the proposals to be discussed today
• Draft of technical report and justification completed
  • Nature of power determination problem, and approaches considered
  • Analysis of open issues
  • Results of validation testing (forthcoming)
  • Differences from ISO 20762 and their justification
Next steps

• Validation testing to be completed by October/November
• Technical report and preliminary test results to be discussed in IWG
• Review of materials by IWG:
  • Technical report and draft procedure: see informal document EVE-32-04e.pdf
  • Open issues and their resolution: EVE-32-06e.xlsx
• Seek consensus on open technical issues
• Drafting group will meet on Wednesday 9 October to begin drafting any new developments/decisions
• Plan to request GTR number to be assigned
end