

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