

GRPE Informal Group on Heavy Duty Hybrids

12th HDH, Geneva, 15 January 2013



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Summary of 11th HDH Meeting

- The results of the 11th meeting in Ottawa on 10 to 12 October 2012 are summarized, as follows:
 - Validation test program 1 has been started by the universities with the development of driver models and a first proposal of thermal models
 - The budget for validation test program 1 is shared between OICA and EU COM
 - Sweden will provide budget for the development of the component library
 - Concerns have been raised that the thermal models might complicate the simulation process; simple solutions are preferable over very accurate modelling
 - OICA announced the availability of at least 2 vehicles for validation test program 2
 - The universities were asked to establish regular exchange of information with JASIC
 - The revised roadmap and project planning were agreed
 - A drafting group will be established at the beginning of 2013; nomination of experts should be communicated at the 65th GRPE
 - The Japanese regulation Kokujikan 281 will be the basis for the gtr
 - PTO operation will be excluded from the current work program
 - Acceptance criteria for validation test program 2 need to be agreed upon

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Items for 12th Meeting

- The following items need to be discussed:
 - Discussion of validation test program 1
 - Proposal of HVs for validation test program 2
 - General principles for validation test program 2
 - Laboratories/institutes interested in HDH validation test program 2
 - for example, powerpack testing and vehicle testing
 - Establishment of drafting group
 - Nomination of experts
 - Drafting group technical secretary
 - Adoption of revised roadmap and project planning
 - Current HDH mandate ends in June 2014
 - 2013 meeting dates

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Status of HDH Work Program

Validation test program 1

- Validation test program 1 based on SILS (Software-in-the-loop simulation) started in June 2012
- Development of driver models has been completed
- Several meetings with OEMs took place
- Simple thermal models are being developed
- Drive cycle investigations are under work

Next steps

- Discussion on chassis dyno and powerpack testing will continue on the basis of input from ongoing programs at the Contracting Parties
- Validation test program 2 with real HVs will start around March 2013
- Establishment of drafting group



HDH Terms of Reference & Timing

- Terms of reference (ECE/TRANS/WP.29/GRPE/60, Annex III)
 - The informal group shall submit the final report of the investigation on HILS for consideration to GRPE at its 65th session in January 2013
 - The target completion date for the work of the informal group on HILS shall be the 163rd session of WP.29 in June 2014
 - This target completion date and the necessity of a chassis dyno test as a second step will be reviewed by WP.29 at its 160th session in June 2013 taking into account the assessment by GRPE of the final report on HILS
- Timing (Inf. Doc. GRPE-60-12)

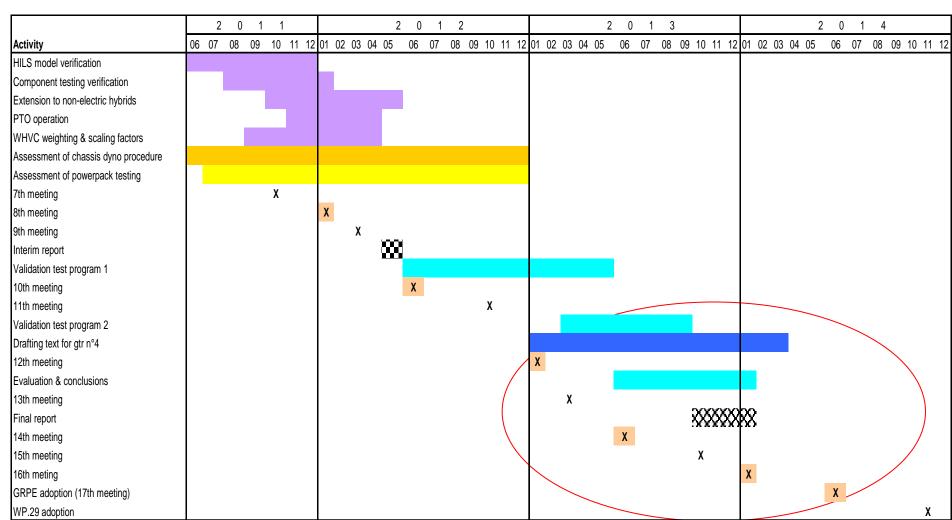
Item	Time
IG meeting (timing & budget)	10/2010
Report to GRPE	01/2011
2 years work program	
IG final report to GRPE	01/2013
GRPE adoption	01/2014
WP.29 adoption	06/2014



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UNITED NATIONS

Updated Roadmap & Project Planning



- → Final report to GRPE delayed to 67th session, GRPE adoption to 68th session
- → Timing for WP.29 adoption delayed to 164th WP.29 (11/2014)



Next Meetings

- The next meetings are scheduled as follows:
 - The 13th meeting will be on 21/22 March 2013 in Borlänge, Sweden
 - The 1st meeting of the Drafting Group will be on 19/20 March 2013 in Borlänge, Sweden
 - The 14th meeting will be on 04 June 2013 in Geneva (to be confirmed)
 - The 15th meeting will be in October 2013 (San Francisco, week 43 (October 21) is proposed)
 - The 16th meeting will be in January 2014 in Geneva (to be confirmed)