

Minutes of the 4th meeting of the GFV informal group on Gaseous Fuel Vehicles
Held 13 January 2009 in Geneva

The GRPE informal group on Gaseous Fuelled Vehicles (GFV) held its fourth meeting in Geneva, on 13 January 2009, under the chairmanship of Mr. Rijnders (Netherlands). The list of working papers considered by the group is reproduced in Annex 1. All working papers of the informal group are publicly available at the GRPE website at:

<http://www.unece.org/trans/main/wp29/wp29wgs/wp29grpe/gfv04.html>

I. WELCOME

1. The Chairman opened the fourth informal group meeting and welcomed all participants.

II. REVIEW AND ADOPTION OF THE AGENDA

Documentation: Working paper GFV-04-01-Rev.1

2. The Secretary, Mr. Duviolguerbigny, introduced a revised agenda (GFV-04-01-Rev.1), which was adopted by the informal group.

III. MINUTES OF THE THIRD MEETING

Documentation: Working paper GFV-03-02

3. The Secretary informed the group that the minutes of the first meeting are available as working paper GFV-03-02 at the GFV informal group's website.
4. The chairman indicated that a mistake on page 5 has to be corrected as follows :
This proposal would create an NMHC limit that would be acceptable technically and politically. The methane standard would be raised to 200 mg/km ($200 \times 0.5 = 100$ mg/km). The NMHC limit will be lowered. Effective limit of NMHC would be 50 to ~67 mg/km ($67 \times 1.5 = 100$ mg/km).
5. The secretariat will review the minutes accordingly.

IV. REVIEW AGENDA ITEMS FOR GRPE 57TH MEETING (16-17 JANUARY 2009)

Documentation: ECE-TRANS-WP29-GRPE-57-inf15e

6. The chairman informed the members that an informal document concerning R49 on OBD heavy duty (final review of GRPE-57-15) will be discussed during the GRPE session, if no opposition rises in the GFV group.

V. BRIEF PRESENTATIONS

7. The chairman asked members if they have new work items to be presented. No new work items have been brought to the group.

VI. WORK ITEM: ON-BOARD DIAGNOSTICS FOR HEAVY DUTY GAS ENGINES

Documentation: ECE-TRANS-WP29-GRPE-57-inf15e, working paper GFV-04-12 and working paper GFV-04-13

8. The secretary of the Task Force (TF) on OBD HDV gas engine, Mr. Renaudin reported to the GFV members on the main elements of the ECE-TRANS-WP29-GRPE-57-inf15e through a presentation (working paper GFV-04-12). He also presented the working paper GFV-04-13 comparing the current R49 and the proposed changes. Some issues have still to be sorted out, in particular applicability of annex 9A and annex 9B.
9. The former chairman of the GTR informal group on WWH-OBD, Mr. Narusawa expressed its support to the approach taken by the TF.
10. The GRPE secretariat, Mr. Hubert indicated that amendment/corrigendum to GTR N°5 could be tabled easily to AC 3, and stressed that amendments to R49 and GTR 5 should be tabled in the same timing.
11. The chairman of the Task Force, Mr. Rijnders, highlighted that the mandate of the TF could be enlarged to include items not related to gas for only OBD-HD if agreed in GRPE. The representative from the European Commission agrees with that view and will ask for approval from the GRPE during the next session.
12. The chairman thanked the Task Force members and without any comments on ECE-TRANS-WP29-GRPE-57-inf15e, he decided to report to the GRPE on the work done by the Task Force and to support the informal paper.

VII. WORK ITEM: NON-METHANE HYDROCARBON (NMHC) REGULATION: DRAFT AMENDMENT TO REGULATION 115

Documentation: Working paper GFV-04-06, working paper GFV-04-07, working paper GFV-04-08

13. Mr. Seisler, on behalf of the IANGV, presented the rationale for the development of a non-methane hydrocarbon regulation for natural gas vehicles by speaker phone of the working paper GFV-04-08.
14. The chairman thanked Mr. Seisler for sharing international experiences on that matter and informed the members that working paper GFV-04-07 provides additional information to those present in working paper GFV-04-08.
15. Mr. Rijnders, then introduced the working paper GFV-04-06. The working paper include a proposal for an amendment for R115 dealing with the NMHC and CH₄ issue. Mr. Rijnders

clarified that the proposal introduces a correction factor for retrofit CNG applications specific for NMHC and CH₄ to comply with the existing Euro 4 limit of HC in R83.

16. The representative from the European Commission, Mr. J.P. Laguna-Gomez, indicates that the European Union supports the development of vehicles with alternative fuels like CNG vehicles. The Commission welcomes the initiative and information provided by IANGV and the Netherlands and will take this into further consideration. The Commission asked for additional emissions data of CNG retrofitted vehicles to justify the proposed correction factors in working paper GFV-04-06. The Chairman asked the NGV industry if it is possible to collect these emission data in due time. NGVA Europe was willing to provide these emission data to the GFV group.
17. M. Bassi, from the European NGV industry, proposed to enlarge the scope of the Netherlands' proposal to include the developing Euro 5 and 6 stages in R83 as well. The expert from the Netherlands agrees that, in this case, the proposal should be adjusted. The GFV group supports this idea of take the Euro 5 and 6 stages in R83 simultaneously into account. The Netherlands will work in cooperation with the NGV industry to draft a new proposal for the next meeting.
18. The group will resume its work on that matter at the next meeting.

VIII. WORK ITEM: Dual Fuel Systems (Natural Gas-Diesel or LPG-Diesel)

Documentation: Working paper GFV-04-06

19. The Netherlands explained that in the working document GFV-04-06 the provisions for the inclusion of dual fuel systems is made, subject to further information provided in future. This working paper GFV-04-06 makes clear that, at this moment, it is not allowed to Type Approve a dual fuel system or vehicle due to the lack of provisions in Regulation N°115. Some paragraphs in R115 are reserved for possible future provisions.
20. The group agreed upon this part of the proposed amendment from the Netherlands.

IX. WORK ITEM: LPG Reference Fuel

Documentation: Working paper GFV-04-09

21. The representative from AEGPL, Mr. Duvielguerbigny presented the working paper GFV-04-09. AEGPL proposed to add a footnote to the LPG reference fuel table in R83 to clarify the C-balance calculation. The group agreed on the proposed justification to Regulation N°83. The secretary will seek advice as to how this editorial justification could fit into the proposed amendments to R83 by the European Commission.

X. WORK ITEM: Different Composition of LPG Reference Fuels R83 and R49

22. The AEGPL explained that only introducing a footnote on the maximum Olefins content in Regulation N°49 will not be consistent from a legal basis.

23. The chairman asked the experts from the European Commission, Poland and AEGPL to seek a solution.

XI. WORK ITEM: HC Ratio

24. The AEGPL explained that changing the Hydrogen content of the LPG reference fuel in regulations N°49 & 83 will create discrepancies between UNECE and EU legislation.

25. The chairman asked the experts from the European Commission, Poland and AEGPL to seek a solution.

XII. WORK ITEM: Changes in R115

Documentation: Working paper GFV-04-02, GFV-04-03, GFV-04-04, GFV-04-05, GFV-04-10.

26. The representative from AEGPL presented the working paper GFV-04-10 explaining the major proposed amendments from working paper GFV-04-02 in reply to the concerns and proposed amendments raised by the Polish delegation, Mr. Radzimirski, in working paper GFV-02-04. The main highlights of the proposals are:

- Scope of Regulation N°115
- Emission test procedure (non intrusivity/intrusivity)
- Switch over time
- Chassis dynamometer setting

27. Due to lack of time, the group did not have possibility to exchange and comment on the AEGPL proposals¹. The group will consider the proposals during its next meeting.

XIII. DRAFT AMENDMENT TO REGULATION 101 – GAS FUELS (GFV-02-03)

28. Due to lack of time, the group did not have possibility to exchange on that matter. Experts from the NGV industry and from Poland would propose an amendment for the next meeting.

XIV. OTHER ITEMS

29. The secretary of the GRPE, Mr. Hubert, informed the GFV group that the deadline for tabling formal amendments to the 58th session of the GRPE is 20th March 2009.

¹ The expert from Italy expressed by email its support (see Working paper GFV-04-11), for most of the AEGPL proposals on Monday 12 January 2009.

30. He also informed the members that the amendments tabled by the European Commission via informal document No. GRPE-57-17 –creating the 06 series of amendments to Regulation N°83 for the integration of the Euro 5-6 regulation- should be adopted by the GRPE and WP29 June session. The forthcoming 06 series of amendments should come into effect early 2010.

XV. NEXT MEETINGS

31. The informal group agreed to hold a meeting in Brussels on 4 and 5 March 2009. The European Commission agreed to provide the venue. Details of the meeting will be provided to the GFV members by the secretariats.
32. The informal group agreed to convene again in Geneva prior to the 58th session of GRPE, on Tuesday, 9 June 2009, subject to the consent of GRPE.

XVI. CLOSING OF THE MEETING

33. The chairman thanked all the experts for their active participation and announced to inform GRPE about the outcome of the fourth informal meeting.

Annex 1

List of working papers (GFV-04-...) of the 4th Informal group meeting on Gaseous Fuelled Vehicles

No.	Transmitted by	Agenda item	Title
01-Rev.1	Secretariat	II	Agenda for the 4th meeting of the GRPE informal group on Gaseous Fuelled Vehicles (GFV)
02	AEGPL	XI	Consolidated version of the proposed amendments with their justifications focusing on emission test procedure, chassis dynamometer setting and the maximum time the system operates on petrol (switch over time) during the Type I test
03	AEGPL	XI	Supporting working paper related to the proposed emission test procedure the introduction (flow chart)
04	AEGPL	XI	Supporting working paper to support the proposed amendments on Chassis dynamometer setting
05	AEGPL	XI	Revised document of the former AEGPL document GFV-02-08 to the GFV-02-04 on the fixing of unclear provision, documentation....
06	The Netherlands	VII	Proposal on the clarification of the scope of Regulation N°115 and introducing the Methane/NMHC split
07	IANGV	VII	rationale for the development of a non-methane hydrocarbon regulation for natural gas vehicles
08	IANGV	VII	PowerPoint presentation supporting working paper GFV-04-07
09	AEGPL	IX	Balance fuel
10	AEGPL	XII	PowerPoint presentation supporting GFV-04-02
11	Italy	XII	Position of Italy on AEGPL proposals GFV-04-02
12	TF on OBD HDV	VI	Report to the GFV group of the TF on OBD-HDV for gas engines
13	TF on OBD HDV	VI	Working document comparing the current text with the proposed amendments
14	Secretariat		List of participants to the 4 th meeting
