

**FINAL MINUTES**  
**Preparation Meeting**  
**GRPE INFORMAL GROUP**  
**ON GASEOUS FUELS**  
**19 September 2007**  
**Brussels**

**Participants**

André Rijnders (RDW/NL) Chairman  
Jeff Seisler (ENGVA) Rapporteur  
Louis-Sylvain Ayrat (CLEPA)  
Matthias Tappe (Bosch/CLEPA)  
Dominique Mormont (Delphi/CLEPA)  
Jürgen Henke (consultant/Siemens /CLEPA)  
Stu Showler (OICA)  
Aldo Bassi (Consultant/ISO)  
Late arrival :  
Arnaud Duvielguerbigny (AEGPL)  
Salvatore Piccolo (AEGPL)

**Introduction & Welcome**

André Rijnders, Chairman

Adoption of the agenda: There are no additions. The agenda is adopted.

Attempt to coordinate and/or consider new legislation on emissions from Europe and within the GRPE at the ECE/UN where much of the legislation is oriented toward liquid fuels. The idea is to attempt to review proposals in advance of GRPE meetings and deal with related proposals to include considerations for gaseous fuels.

**Feedback from WP29 Session of June 2007**

At the June meeting of the Group of Experts on Pollution and Energy (GRPE) CLEPA recommended the creation of a working group on gaseous fuels in order to deal with special conditions/regulations related to European legislation and UN regulations on emissions, in particular (informal document 54/13), with support from AEGPL/ENGVA/IANGV.

Issues associated with safety at the GRPE [Regulation 67 (LPG) and Regulation 110 (natural gas)] would be shifted to another group – the Group of Experts on General Safety (GRSG) chaired by Antonio Erario. But it was proposed that the informal group on gaseous fuels would deal only with environmental issues in support of GRPE.

The mandate of this group would be proposed as an informal document to the next meeting of the WP29 in November 2008 for their concurrence.

## **The Mandate of the Informal Group**

### *The Scope*

The scope of work is based upon emissions regulations within the European Union linked to gaseous fueled vehicles that will be brought into the legislative and regulatory frameworks.

The fuels to be dealt with would include the gaseous fuels in internal combustion engines :

- LPG and natural gas are the principal fuels to be discussed.
- Hydrogen is dealt with in an informal group on hydrogen, but not within this Informal Group (since hydrogen has its own informal group)

Other fuels to be dealt with would potentially include, subject to further discussion of the group:

- H<sub>2</sub>+CH<sub>4</sub> combinations (i.e. hythane)
- Biomethane
- Natural gas/diesel dual fuel systems also would be part of the mandate of this group.

Will EU-Regulations be added to the scope? No, because the mandate comes from the United Nations and not from the European Commission, although the output of this group could affect/assist regulations in Europe.

An important focus for this group also includes new technologies and new technical approaches to gaseous fuels and gaseous fuelled vehicles. The name of the group, therefore, would be most appropriate to include the word 'Vehicles'.

### **Decision: The group would be called the Informal Group on Gaseous Fuelled Vehicles.**

The regulations to be addressed would not necessarily be limited to those listed in the draft scope, to allow for flexibility in future should other legislation or regulations need to be addressed. This would allow, for example, dealing with emissions testing regulations (e.g. Rule 1 of the '97 Agreement) or Global Technical Regulations, should the group decide to deal with these. But for clarity, the issues would be limited to those being dealt with by the GRPE, also since this group's mandate is from the GRPE dealing with gaseous fuelled vehicles.

### *The Tasks*

Various ideas and details were changed and added to the task statement. (Refer to the Terms of Reference)

## **Organisation**

### *The secretariat:*

Two possible functions:

- Administration and logistics: preparation of agendas; minutes of meetings; meeting invitations; arranging meeting locations; etc.
- Development of technical amendments, much of which can be delegated to specific members of informal group.

ENGVA/IANGV and AEGPL will provide, in the first instance, the secretariat functions, with the details of the personnel to be determined.

## **Rules of Procedure**

### *Membership*

The Informal Group is open to all parties affiliated with UNECE but specifically linked to the GRPE.

### *Meetings*

Group meetings would normally be held in Geneva during a GRPE meeting. It would not be a problem to hold our meeting in parallel with an other, not conflicting, informal working group.

Additional meetings or special preparation meetings would be on an ad hoc basis in central locations to be determined. CLEPA has offered its facilities for such meetings in Brussels.

Next meeting when all GRPE members are invited would be in Geneva on the afternoon of 15<sup>th</sup> January 2008. Coordination would be with Romaine Hubert, secretary to WP29/GRPE.

### *Duration*

The initial mandate is for two years.

### *Priorities*

The group will start its work with the review of emission related requirements for light-duty vehicles, categories M1 and N1. It will then review the requirements for the other categories of vehicles.

## **Draft Working Programme**

Items would include but not be limited to, for example:

- Reference fuels
- Emissions limit values
- New fuels and vehicle technologies

- Dual fuel

How are priorities determined?

- When items are introduced at the GRPE (or at the group) a rationale to perform the work would be required by the proposer of an amendment.
- 'Repairing' existing regulations
- Euro 5 and Euro 6 and what needs to be adapted that relate to gaseous fuels
- Dual fuel technology

A fundamental discussion regarding how to prioritize the work centered around the nature of making regulation and how they affect fuels and technologies in the marketplace. Regulations sometimes need to be adapted based upon technical realities in order to foster improved fuels and technologies in the open commercial market. Examples that were raised were total hydrocarbon standard that could end the potential of retrofit gaseous fuel vehicles. Another was dual fuel, and being able to adjust existing regulations or create new ones that allow such a technology to come to market, so as long as the technology can comply with existing emissions regulations. Technical realities should be used to remove regulatory market barriers that hinder technologies and fuels marketing and market entry. Evaluating regulatory barriers to homologation and European type approval is another example.

### **Discussion of the Informal Document GRPE 54-13 (54<sup>th</sup> GRPE, 4-8 June 2007, agenda item 12 (c). : Work Items (Potential)**

Categories should be made to identify regulatory 'edits' (or repair items) versus new work items.

- THC emissions
- units for fuel consumption (harmonization of Euro 5 and Euro 6)
- mixed operation gas/gasoline
- gasoline operation for fuel trim and component protection
- critical specifications for reference fuels
- OBD

Possible 'template' for proposals to be addressed in the Informal Group:

- Organisation introducing issue/amendment
- Name and coordinates
- Regulation name and number
- Issue to be addressed
- Rationale for addressing the issue
- Existing regulatory language
- Suggested amendment to regulatory language

The template can then easily be 'translated' into a formal document to GRPE.

## **ACTIONS**

### **Chair:**

- Contact Romain Hubert for a meeting room. (AR)
- Introduce an informal document of our "Terms of Reference" to WP.29

**Secretariat:**

- Create new template for group's remarks within two weeks
- Obtain GRPE mailing list from secretary to announce the meeting
- Prepare invitation to the GRPE members who might want to participate in the January 2008 meeting.
- Collect responses after 1<sup>st</sup> of November and distribute the new template (work programme) to participants of the January meeting
- Prepare agenda

**All members:**

- Fill in the new template by 1<sup>st</sup> of November at the latest.
- Inform chair and secretariat. of new work items to be addressed
- Inform chair and secretariat. of other individuals who they might want to be on the mailing list for this group.

**All members:** The Informal Group members should inform André Rijnders and Jeff Seisler of: 1) new work items to be addressed; and 2) other individuals who they might want to be on the mailing list for this group.

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