

20 January 2009

Draft Minutes of the 20th NRMM WG Meeting

Geneva, 13 January 2009, 9:30 – 12:30

1. Welcome of participants and organizational details

The Chairman welcomed the participants and emphasized the objective for this meeting to review and decide the last changes of the NRMM gtr draft and to verify the agreement of the NRMM WG to present this informal document to the GRPE during its meeting on January 15th, 2009.

2. Adoption of draft agenda

The draft agenda was adopted.

3. Summary of work done since June 2008

The Chairman informed the experts about the work done since June 2008, listing also the Editorial Committee meetings in September and November 2008 and the November WP.29/AC.3 meeting. The September 2008 meeting served to finalise the review of the NRMM gtr document. The November 2008 meeting served to consolidate the informal NRMM gtr document. At both meetings the commitment by the NRMM working group, to prepare the complete gtr as informal document for presentation in January 2009, had been confirmed. During the November 2008 WP.29 AC.3 meeting the status of the NRMM work was presented. AC.3 endorsed the work as reported for the NRMM gtr.

4. Current status of non-road legislation various contributions (open for participants on request)

No requests from the experts

5. Status of NRMM GTR work

The working group started in 2003 by first studying the regulations nationally in place, thus deriving a document listing all requirements and the identified differences. A proposal to develop a NRMM gtr was adopted in 2005 by WP.29 / AC.3. The structure of the NRMM was based on UNECE WP.29 guidelines and other gtr's. For the drafting of the gtr an editorial committee was set-up. Main challenges of the drafting originated from the underlying certification procedures, differences in the technical requirements and concepts and methodologies applied and the respective linguistic frame. In 2007 the progress report was adopted by WP.29 AC.3. It was agreed that the NRMM gtr would not include any legal requirement in terms of limits and dates, that it would prescribe the test procedure, and that a guidance document would accompany the gtr, in order to support the understanding of the legal text. The guidelines contain no requirements but additional explanations and calculation examples.

6. Presentation of NRMM GTR as informal document

Mr. Cornetti presented the list of content, explaining the major aspects of the document. Afterwards he started to take the NRMM experts through the document identifying the few paragraphs where there was a proposal to change the text. He explained the proposal and the NRMM experts discussed each issue looking for a solution and finally deciding about the introduction or not of each proposal.

A list of the items follows:

8.1.11.1.4. (i) It had been observed, that in order to span with double the maximum concentration, the linearity of the NDIR analyzer should be checked previously over this full range. Therefore it had been proposed to add the following sentence to the paragraph. 'The linearity of the NDIR analyzer has to be previously checked over the whole range up to twice of the maximum CO₂ concentration expected during testing.' The adding of this phrase (including an editorial correction) was accepted by the group.

9.2.1. In response to discussions at previous meetings the informal document contained different requirements for CVS and PFD for the dilution air temperature. Mr. Stein stated that a uniform temperature requirement for both systems is indispensable. He supports to set the dilution air temperature > 15°C for both conditions.

Mr. Stein pointed out that the original requirements were 20 to 30 °C and in order to align with the US requirements, the European legislation was adapted to >15°C. The manufacturers renewed their instrumentation accordingly but 6 months ago EPA went back to the requirement of 20 to 30 °C. With this requirement and maintaining the filter temperature under all conditions between 42 and 52°C, the manufacturers would likely have to introduce hardware-changes to the dilution and measurement systems. Mr. Stein stated that industry needed to check the consequences of the proposal, but could conform to a change of the requirement to >20°C. Mr. Charmley stated that he will go back and give a reply later.¹

7.2.1.3. Mr Cornetti indicated that figure 7.1 might be replaced with an improved version. Annexes 7 and 8. Mr. Cornetti described the calculation annexes and the symbol conversion tables. The experts accepted this approach. Mr. Stein stated that due to the late availability of the document, he could not check if all equations in Annex 8 were identical to the equations in WHDC (and ISO) and that he therefore kept a reserve to comment later. The Chairman stated, after talking to Mr Cornetti, that the equations should all be identical and therefore no or very little changes were to be expected. The Chairman invited Mr. Stein to indicate any changes before the end of January. Mr. Stein agreed.

The Chairman presented part A of the gtr document and asked for any comments or suggestions. Part A represents the technical rationale and justification for the NRMM gtr. To a large degree it is based on the 2 NRMM documents (NRMM gtr proposal and progress report) adopted by AC.3 in the last years. No comments were received and thus consensus was verified also on part A of the gtr document.

¹ (After the meeting he stated to the Chairman that EPA would like to see the range but could imagine to see the upper temperature at a higher value).

Finally, the Chairman asked to verify the agreement to the gtr document in order to present it as informal document to the GRPE on the 15th of January 2009. With no objection the NRMM WG decided to present the informal document to GRPE.

The Chairman suggested to include two lists into the presentation to GRPE.

1. List of items to be finalized:

Temperature requirement for dilution air;

Check of equations in Annex 8.

2. Questions to GRPE:

Keeping 2 options in gtr (hot soak period and cold start weighting);

Which is the administrative procedure and timeline for the guidance document?

This suggestion was agreed to by the NRMM WG experts.

7. Timeline and actions for completing gtr document

The Chairman informed the experts that the timeline depended on the position that GRPE will take during the meeting: If GRPE receives the support of the gtr document, it might ask to present an official document for discussion in the June 2009 session. The related deadline for the deposition of the document would be the 20th of March 2009. Until the 20th of March 2009 also the final report would have to be prepared.

The Chairman informed the experts that another meeting of the editorial working group had been tentatively set for the 25/2 – 27/2/2009 in Ispra. Based on the outcome of the GRPE meeting it would have to be decided whether to hold a meeting and whether to hold the meeting in February or later.

The Chairman informed that he will ask for a half-day slot before the June GRPE meeting in order to report on the status and to discuss and agree any final developments.

The Chairman thanked all involved experts for their constructive contribution to the gtr development during the last years.

Informal meeting of the GRPE working group on the emissions from Non-Road Mobile Machinery
Engines (NRMM)

13th of January 2009, 9:30 – 12:30

Chairman: Giovanni De Santi / Rudolf Hummel,
Secretary: Giorgio Billi

Proposed Agenda

1. Welcome of participants and organizational details
2. Adoption of draft agenda
3. Summary of work done since June 2008
Meeting of Editorial Committee September and November 2008
4. Current status of non-road legislation
various contributions (open for participants on request)
5. Status of NRMM GTR work
6. Presentation of NRMM GTR as informal document
7. Timeline and actions for completing gtr document
Next meeting of editorial committee (Ispra, 25/2 – 27/2/2009)
Informal meeting of NRMM during June 2009
8. Other issues