

Progress report of the informal group on REC

65th GRPE, 17 January 2013

Henk Baarbé

State of Play

- Draft regulation almost complete
- Many editorial improvements still necessary
- A number of outstanding issues to be solved before the June GRPE meeting
- Several outstanding issues solved yesterday
- Main remaining outstanding issues presented today to GRPE.

Main outstanding issues

1. NO_x reduction performance of NO_x reduction REC

Agreement on measuring NO_x in WHTC, best representing urban driving conditions for trucks and buses where NO_x reduction is most needed.

Agreement on performance requirement: 60 % reduction over WHTC for trucks and buses (on road vehicles)

Since NO_x reduction performance of RECs for installation on NRMM is measured in NRTC, 60% is then less challenging due to on average higher engine loads.

Discussion:

Higher NO_x reduction requirement for REC for NRMM, e.g.70%?

One contracting party still wants this 70% for REC for NRMM. Most others have expressed they can accept 60%.

Main outstanding issues

2. Direct NO₂ emissions.

Many DPF now successfully being applied are of the continuously regenerating type, typically showing a considerable increase in direct NO₂ emissions, undesirable in situations with AAQ problems for NO₂

Options already agreed upon:

- a) Evaluation of direct NO₂ during WHTC/NRTC.
- b) Separate class of REC with zero increase of direct NO₂
- c) Combined PM and NO₂ REC (class 4) pose no NO₂ problem due to decrease of NO_x
- d) Cap on direct NO₂ increase for continuously regenerating traps.

Discussion:

Should the cap be e.g. 20% or 30%?

Many CRT type REC being applied now > 30% direct NO₂. 20% cap will lead to more complex and expensive ways of (active) regeneration, also for situations where NO₂ poses no AAQ problem.

One Contracting Party insists on 20% increase max, most others and industry favour 30%

How to proceed further

- Many further improvements still to be drafted and discussed
- Informal group planned for 19 and 20 February to do this. Switzerland has kindly offered to host this meeting.
- Ambition is still to submit a formal proposal for a Regulation to GRPE in June 2013, together with an informal proposal for an amendment 01.
- Requested: a half day informal group meeting in conjunction with the GRPE in June
- Note: our project is not on the work programme (list of New Regulations) of WP29

Thank you for your attention

Henk Baarbé