

PROGRESS REPORT AND FURTHER WORK TO COMPLETE THE
DRAFT GLOBAL TECHNICAL REGULATION (gtr):

UNIFORM PROVISIONS CONCERNING THE TEST PROCEDURE FOR
COMPRESSION-IGNITION (C.I.) AND POSITIVE-IGNITION (P.I.) ENGINES
FUELLED WITH NATURAL GAS (NG) OR LIQUEFIED PETROLEUM GAS (LPG)
WITH REGARD TO THE EMISSION OF POLLUTANTS

Draft gtr on world-wide harmonized heavy-duty certification (WHDC)

After conclusion of most of the WHDC validation work, the final summary was presented at the 46th GRPE in May 2003 (GRPE-46-4). Following the final definition of the test cycles, WHDC secretariat presented the first draft gtr at the 47th GRPE in January 2004 with the general structure (GRPE-47-14). Upon GRPE approval of the gtr structure, a more elaborate version with the details of the test procedure and the analytical systems was submitted at the 48th GRPE in June 2004. This document (GRPE-48-7) was the basis of any further amendments.

GRPE approved the draft gtr in principle and asked for general comments by beginning of 2005. At the 49th GRPE in January 2005, US EPA asked for inclusion of cold start requirements, which was accepted by GRPE. At the same time, an editorial committee was established for finalization of the gtr. The editorial committee worked on the basis of written input from the various members and presented informal document GRPE-50-4 for discussion at the 16th WHDC meeting in June 2005. The WHDC group reached agreement on most of the issues, as laid down in informal document GRPE-50-14. At the 50th session, GRPE agreed to adopt the gtr on the basis of an official document at the 51st session in January 2006. An additional comment period was offered to GRPE members until end of July 2005.

The editorial committee met for final review on 16th September 2005 in Chicago (see informal document GRPE-51-6). At this meeting, OICA members raised concern about non-representative cooling down of the aftertreatment systems during the 20 minutes soak period. It was agreed to further discuss this issue on the basis of OICA and EPA input. EPA raised some reservation against the periodic regeneration scheme taken from ECE R 83, since it is somewhat different from the EPA regulations. No agreement could be reached on the PM sampling filter size, whose selection will be left to the Contracting Parties. On all other open issues, agreement could be reached including revision of the WHSC steady state test to a ramped steady state cycle.

Therefore, WHDC chairman and secretary proposed that a formal document (draft gtr) should be submitted by 28.10.05 to GRPE secretariat for the January 2006 GRPE meeting with the open issue of cold/hot testing and calculation in square brackets for further discussion.

It is therefore proposed to discuss the open issues in depth at the 17th WHDC meeting and to present the final view of the group to GRPE at the 51st session. Consequently, another draft version will be prepared by March 2006 for final GRPE adoption at the 52nd session in June 2006.

This proposal would also align the WHDC timing with the timing of WWH-OBD, as proposed in informal document No. GRPE-51-3, and would allow WP.29 adoption of both gtr's in November 2006.

Proposed next steps / timing for WHDC gtr

WHDC chairman and secretary would like to propose the following timetable:

- WHDC draft gtr submitted to UNECE in Geneva by beginning of November 2005 in order to provide a formal document (draft gtr) for GRPE in January 2006;
- When available on the GRPE website (ECE/TRANS/WP.29/GRPE/2006/9), interested parties are invited to send any comments to the chairman and secretary of WHDC prior to next GRPE;
- Half-day meeting of plenary WHDC at GRPE on 18th January 2006 for discussing and solving any open issues;
- Submit WHDC gtr by deadline 20th March 2006 for GRPE in June 2006;
- Adopt WHDC gtr at GRPE in June 2006 for transmission to WP.29 in November 2006.
