

PROGRESS REPORT ON GLOBAL TECHNICAL REGULATION (GTR) N° 4 (WHDC)

At the 21st WHDC meeting on 18/19 October 2007 in San Francisco, consensus was achieved on the following elements. The details of the meeting are reported in the minutes (document GRPE/WHDC/21).

Option 1: Engine power determination

Reference to power regulations will be deleted from the gtr. The list of auxiliaries to be considered for the emissions test will be added to the gtr. Exclusion or inclusion of the fan for the emissions test will be decided after review of the results from the WHDC validation studies.

Option 2: Reference fuel

European Commission DG-JRC will run the reference fuel test program agreed at the last meeting. OICA members will submit engines and test fuels. Conduction of additional test programs will be considered by NTSEL, JAMA and EMA.

Option 3: Soak time

EPA indicated that they will not accept the 10 minutes compromise solution proposed by the Chairman, if this would affect the stringency of the USA 2010 emissions limits. Therefore, the decision on soak time period will be based on emissions stringency level. EPA will inform the WHDC group, if the comparison of US-FTP with 20 minutes soak time vs. WHTC with 10 minutes soak time will satisfy their requirements. Industry and test laboratories will check which minimum soak time periods can be technically realized.

Option 4: Cold start weighting

Only limited field data are available, so far. WHDC members will collect data on real world cold start operation. Such data will be presented at the 23rd WHDC meeting in April 2008.

Option 5: PM filter specification

TÜV Nord will conduct the test program on PM filter specification agreed at the last meeting. OICA members agreed to fund the program and to supply two test engines (one Euro IV/V engine w/o PM aftertreatment, one engine with DPF). The test program will be sent to EPA for comments, and will be presented at the next WHDC meeting for approval. Anticipated timing is April 2008.

Extension of the scope to gasoline engines

There was general consensus to extend the scope of the gtr to gasoline engines. EMA will check with companies that produce gasoline engines whether the WHDC cycles are appropriate for gasoline engines. Russia who apply ECE R 49 to gasoline fuelled commercial vehicles will be asked for their experience. It was suggested that China, who asked for the extension of the scope, conduct a test program on gasoline engines with the WHDC test cycles.

Alignment with NRMM gtr

It was agreed to elaborate the differences between NRMM and WHDC gtr's upon finalization of the 3rd level draft of the NRMM gtr.

Review of the time line

The timeline agreed at the 20th WHDC meeting was confirmed provided that the planned test programs can be conducted as expected. The next meetings will take place as follows:

- 22nd WHDC meeting on 16th January 2008, Geneva
- 23rd WHDC meeting on 10th and 11th April 2008 at JASIC offices, Tokyo, Japan.

Funding of the test programs

European Commission DG-JRC will conduct the reference fuel test program (option 2) on their own test cells without the need for external funding.

OICA members will fund the PM filter study (option 5) at TÜV Nord and supply the engines needed for the program. OICA will further supply the engines and the test fuels for the reference fuel test program at DG-JRC(option 2).

NTSEL, JAMA and EMA will check the possibility of funding tests for option 2 (reference fuel) with engines available for internal test programs.
