

### **Terms of Reference**

The European Union is currently developing a test procedure for CO<sub>2</sub> and pollutant emissions generated by the use of MACs, which should be implemented for regulatory purposes as soon as possible. While during an initial phase results from this test procedure may just be used for consumer information, at a latter stage also minimum requirements for MAC performance may be mandated.

Consequently an informal working group "MACTP" on test procedures of mobile air-conditioning (MAC) systems of M1 and N1 vehicles has been established with the following tasks:

- (1) Accompany as an active stakeholder the EU developments of test procedures suitable for type approval assessing the energy efficiency of MAC operation in a vehicle and its impact on vehicle emissions in order to ensure that also non-EU contracting parties are informed about and can contribute to the EU work.
- (2) Sharing of information and experience on MAC test procedures with other GRPE participants, such as US, Japan, India, China and Korea.
- (3) After completion of a draft EU MAC test procedure, presumably in the second half of 2010, MACTP should review it and prepare its integration into UNECE Regulation No. 101 and Annex 4 of Regulation No. 83.

The group may consider the transposition of the developed procedure into a GTR under the 1998 UNECE agreement at a later stage.

The work of the group on the MAC test procedure should be completed by January 2012. A prolongation and extension of the mandate of the group, e.g. in relation to the performance of in-vehicle heating systems (for hybrid and electric vehicles) should be considered in due time by GRPE. The work by MACTP should not prevent the regulatory implementation of MAC test procedures by contracting parties at an earlier stage.

### **Rules of Procedure**

1. The informal group is open to all participants of GRPE. A limitation of number of participants from any country and organization to participate in the informal group is actually not foreseen.
2. A Chairperson and a Secretary (supported by a Co-Secretary) will manage the informal group<sup>1</sup>.

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<sup>1</sup> Initially the MACTP working group will be chaired by the Netherlands. The chair is assisted by a secretary assumed by the Commission services and a co-secretary assumed by OICA.

3. The working language of the informal group will be English.
4. All documents and/or proposals shall be submitted to the Secretary and Co-Secretary of the group in a suitable electronic format, preferably in line with the ECE guidelines in advance of the meetings. The group may refuse to discuss any item or proposal which has not been circulated 5 working days in advance of the scheduled meeting.
5. The informal group shall meet regularly at the GRPE meetings in Geneva. Additional meetings will be organised upon demand.
6. An agenda and related documents will be circulated to all members of the informal group in advance of all scheduled meetings.
7. The work process will be developed by consensus. When consensus cannot be reached, the Chairperson of the informal group shall present the different points of view to GRPE. The Chairperson may seek guidance from GRPE as appropriate.
8. The progress of the informal group will be routinely reported to GRPE orally or as an informal document by the Chairperson or the Secretary.
9. All working documents shall be distributed in digital format. A specific MACTP section on the UNECE website will be created and the URL will be noticed to all related parties.

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