

Informal document No. **2**  
(45th GRPE, 13-17 January 2003,  
agenda item 1.3.)

**WORKING GROUP ON A NEW TEST PROTOCOL FOR EXHAUST EMISSIONS**  
**FROM NON-ROAD MOBILE MACHINERY**  
**Draft work plan**

Transmitted by the Expert from EU<sup>1</sup>

For the activities of the proposed Working Group on a new test protocol for exhaust emissions from non-road mobile machinery outlined in Informal document No. 1 it is proposed to adopt the following work schedule<sup>2</sup>.

March 2003: start of activity with a kick-off meeting at DG JRC to confirm the terms of reference, the operating procedures and the group membership criteria.

Technically the meeting will be aimed at introducing the reference documents (e.g. Final report on test procedure, ISO DIS 8178-11, etc.) and making a detailed planning of activity. Supporting documents will be presented, which are submitted by the main stakeholders and members of the working group.

0 – 3 months: Collection of all externally available information via members of the Group. The present NRTC forms the reference considered for the further activity.

4 – 9 months (January 2004): set-up of partial flow dilution tunnel on the test bed at JRC laboratory in Ispra. Test preparation of 1 or 2 engines (in the power range 37 to 560 kW) in Ispra including procurement of related installation tools<sup>3</sup>. Preparation of engine tests to be carried out directly at the engine manufacturers' premises<sup>4</sup>.

Purpose of the tests will be to verify the complete test protocol, based on adopted criteria.

10 – 20 months: engine tests.

20 – 24 months: Definition of the final test protocol and drafting of the final report. The report shall take into account also the procedures already delivered (or under development) in exhaust emission legislation in the EU, US and Japan and in ISO DIS 8178-11.

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<sup>1</sup> Giovanni De Santi, DG JRC, 28 November 2002

<sup>2</sup> If the work progresses very well, it might be possible to reduce the total duration.

<sup>3</sup> The engines and the installation tools will be supplied by the participating engine manufacturers.

<sup>4</sup> Test costs will be covered by the testing institute or firm. Transport costs will be covered by the institute or firm shipping the material.

# NRMM Engines Transient Test Cycle

## Work schedule

