



CHARTER FOR THE
WORKING GROUP
ON A NEW TEST PROTOCOL
FOR NRMM ENGINES

G. De Santi,
Geneva, January 2003



Legal Framework

- The test protocol will be developed as a new global technical regulation following the principles defined in Article 6.3 of the 1998 Global Agreement



Purpose of the work

- Introduction of the transient test protocol as recognised global technical regulation under the 1998 Global Agreement.
- This process leads to a technical update of the procedure (presently under consideration in Europe, Japan and USA)



Background of work

- EPA evaluation of torque and speed behaviour of NRMM under real operation (2 papers 1999)
- Similar tests by EC DG JRC on equipment representing the EU market (June/July 2000)
- Launch of joint task force (US, EU and Japanese regulators and industry) aimed at developing a common procedure (Ann Arbor, Sept 2000)
 - Adoption of a common candidate cycle, San Antonio March 2001
 - Final report on task force results, Sept 2002



New regulation in progress

- A Transient Test Protocol for the measurement of pollutants from NRMM engines is included in a proposal by the European Commission to European Parliament and Council
COM(2002)0765final



Other considerations

- No international standard available
- ISO TC 70 /SC 8 works in close collaboration with the regulators on the development of a new ISO standard



Key aspects of this work

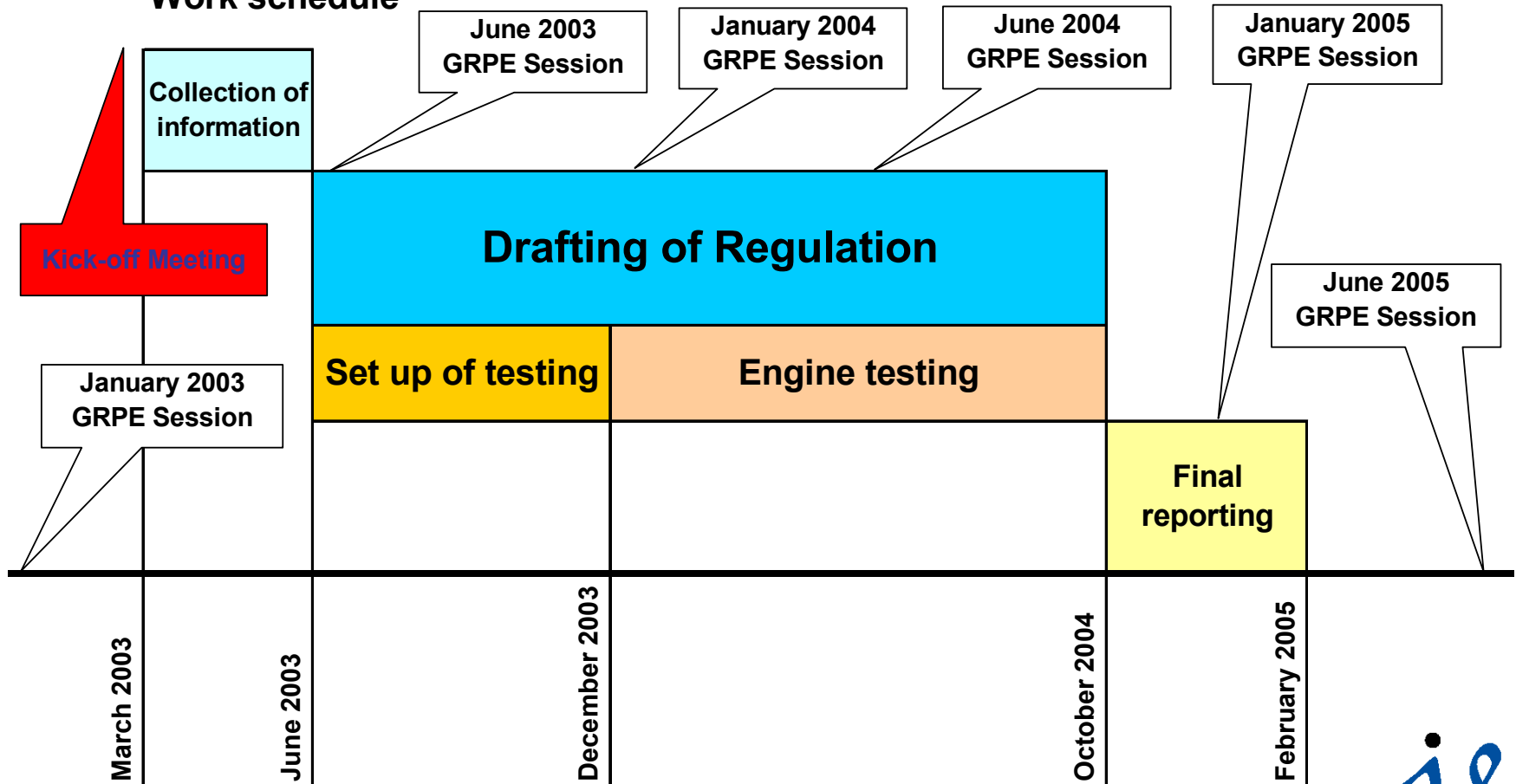
- Collection of objective data on protocol and test cycle through engine testing*
- Consideration of economic feasibility by evaluation of the cost effectiveness of the laboratory equipment
- Verification of new global technical regulation

* Cost shared between parties involved



NRMM Engines Transient Test Protocol

Work schedule





Contact Points

- Giovanni De Santi, DG JRC,
giovanni.de-santi@jrc.it
 - Rudolf Hummel, DG JRC,
rudolf.hummel@jrc.it
 - Giorgio Billi, Euromot,
giorgio.billi@unacoma.it
- Please indicate your intention to join the informal group before March 2003



Essential documents

- G. Cornetti and R. Hummel, “Steps undertaken in the development of nonroad transient cycle (NRTC) test procedure”. EC position paper, 23 July 2001
- G. Cornetti, R. Hummel and C. C. Jackson, “Final report on NRTC test procedure”, 13 September 2002