

Proposal concerning the future programme for a GRPE Particulate Emissions Sub-Group

(Transmitted by the Expert from the United Kingdom)

Terms of Reference.

To develop type approval test protocols, with instrumentation, to assess and control nano-particle emissions from (a) light-duty vehicles and from (b) heavy-duty engines within the range of 10 to 500nm (the exact range to be confirmed based on guidance of medical experts with respect to health effects).

Based on current research, it is anticipated that for best repeatability and reproducibility, the tests should be based on transient cycles. The cycles selected for this purpose should, if possible, conform to current regulated test cycles, i.e. European Light duty and heavy duty (ETC) cycles, US Federal test cycles and also the WHDC cycle.

The protocol should focus only on the accurate assessment of carbonaceous particles within the measurement range indicated.

The group are also required to provide an assessment of current and advanced particulate control technology, as measured on the new protocol, to facilitate the development of new regulations aimed at further reductions in nano-particle emissions.

The Group is requested to deliver their final report to GRPE in January 2003.