

**OICA PROPOSAL FOR AMENDMENT TO DOCUMENT  
ECE/TRANS/WP.29/GRPE/2007/8/Rev.1  
(UK Proposal for draft Amendments to Regulation No. 83)**

This text proposes to amend the UK proposal, in order to allow background subtraction for particle number measurement at type approval. The modifications to the text of the Regulation as proposed in ECE/TRANS/WP.29/GRPE/2007/8/Rev.1 are marked in **bold** characters.

**A. PROPOSAL**

Annex 4a

6.2.5. Background particle number measurements

The subtraction of background particle numbers may be determined by sampling dilution air drawn from a point downstream of the particle and hydrocarbon filters into the particle number measurement system. Background correction of particle number measurements ~~shall not be allowed for type approval, but~~ may be used at the manufacturer's request for **type approval**, conformity of production and in service conformity where there are indications that tunnel contribution is significant.

Annex 4a

Appendix 4

1.3.3.3. For a given test the gas filter face velocity shall be set to a single value within the range ~~50~~ **20** cm/s to 80 cm/s unless the dilution system is being operated with sampling flow proportional to CVS flow rate.

\* \* \*

**B. JUSTIFICATION**

Section 6.2.5 is revised to allow background subtraction for particle number measurement at type approval. The text already permits this for conformity of production and for in-service conformity under certain circumstances. This change aligns the particle number measurement conditions with those for particle mass and all gaseous pollutants.

Appendix 4 section 1.3.3.3 is revised to allow a wider range of filter face velocity. Even at sampling flows of 15 litres/ minute (circa 19 cm/s filter face velocity at a stain diameter of 41 mm), no statistically significant effect on the particulate mass was seen.

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