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**Economic Commission for Europe**

Inland Transport Committee

**World Forum for Harmonization of Vehicle Regulations**

**188th session**

Geneva, 14-16 November 2022

Item 4.9.2. of the provisional agenda

**1958 Agreement:  
Consideration of draft amendments to existing UN Regulations submitted by GRPE**

Proposal for Supplement 16 to the 05 series of amendments to UN Regulation No. 83 (Emissions of M1 and N1 vehicles)

Submitted by the Working Party on Pollution and Energy [[1]](#footnote-2)\*

The text reproduced below was adopted by the Working Party on Pollution and Energy (GRPE) at its eighty-sixth session (ECE/TRANS/WP.29/GRSP/86, para. 21). It is based on ECE/TRANS/WP.29/GRPE/2022/10, ECE/TRANS/WP.29/GRPE/2022/13 and GRPE-86-12 as amended by Annex IV of the report. It is submitted to the World Forum for Harmonization of Vehicle Regulations (WP.29) and to the Administrative Committee (AC.1) for consideration at their November 2022 sessions.

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*Appendix 2, paragraph 6.,* amend to read:

"6. Remarks

The following recursive formulae are useful for computing successive values of the test statistic:

…"

*Annex 4a*

*Appendix 1, paragraph 1.,* amend to read:

"1. Specification

1.1. General requirements

For test and measurement equipment that is compliant with the technical requirements of UN Regulation No. 154 original series or later version, the requirements on the technical equipment described in UN Regulation No. 154 may be followed, in all other cases the following requirements shall apply:

1.1.1. The dynamometer shall be capable of simulating road load within one of the following classifications: ..."

*Appendix 2, paragraph 1.2.,* amend to read:

"1.2. General requirements

For test and measurement equipment that is compliant with the technical requirements of UN Regulation No. 154 original series or later version, the requirements on the technical equipment described in UN Regulation No. 154 may be followed, in all other cases the following requirements shall apply:

…"

*Appendix 3, paragraph 1.,* amend to read:

"1. Specification

For test and measurement equipment that is compliant with the technical requirements of UN Regulation No. 154 original series or later version, the requirements on the technical equipment described in UN Regulation No. 154 may be followed, in all other cases the following requirements shall apply:

…"

*Appendix 4, paragraph 1.,* amend to read:

"1. Specification

For test and measurement equipment that is compliant with the technical requirements of UN Regulation No. 154 original series or later version, the requirements on the technical equipment described in UN Regulation No. 154 may be followed, in all other cases the following requirements shall apply:

…"

*Appendix 5, paragraph 1.,* amend to read:

"1. Specification

For test and measurement equipment that is compliant with the technical requirements of UN Regulation No. 154 original series or later version, the requirements on the technical equipment described in UN Regulation No. 154 may be followed, in all other cases the following requirements shall apply:

…"

*Appendix 6, paragraph 1.,* amend to read:

"1. Object

The method described in this appendix makes it possible to check that the simulated total inertia of the dynamometer is carried out satisfactorily in the running phase of the operating cycle. The manufacturer of the dynamometer shall specify a method for verifying the specifications according to paragraph 3. of this appendix.

In case of the equipment that meets UN Regulation No. 154 requirements, this application may not be required."

*Annex 7*

*Paragraph 4.,* amend to read:

"4. Test equipment for evaporative test

For test and measurement equipment that is compliant with the technical requirements of UN Regulation No. 154 original series or later version, the requirements on the technical equipment described in UN Regulation   
No. 154 may be followed, in all other cases the following requirements shall apply:

4.1. Chassis dynamometer

The chassis dynamometer shall meet the requirements of Appendix 1 to Annex 4a to this Regulation.

…"

*Appendix 1, paragraph 1.,* amend to read:

"1. Calibration frequency and methods

For test and measurement equipment that is compliant with the technical requirements of UN Regulation No. 154 original series or later version, the requirements on the technical equipment described in UN Regulation No. 154 may be followed, in all other cases the following requirements shall apply:

…"

*Annex 11,*

*Paragraph 3.2.1.2.,* amend to read:

"3.2.1.2. A manufacturer may disable any specific OBD monitor for a given driving cycle for ambient or engine temperaturesbelow 266 K (-7° C) or at elevations over 2,500 metres above sea level provided the manufacturer submits data and/or an engineering evaluation which adequately demonstrate that monitoring would be unreliable when such conditions exist. A manufacturer may also request disablement of any specific OBD monitor at other ambient temperatures or other elevations if they demonstrate to the authority with data and/or an engineering evaluation that misdiagnosis would occur under such conditions. It is not necessary to illuminate the Malfunction Indicator (MI) if OBD thresholds are exceeded during a regeneration provided no defect is present. "

1. \* In accordance with the programme of work of the Inland Transport Committee for 2022 as outlined in proposed programme budget for 2022 (A/76/6 (part V sect. 20) para 20.76), the World Forum will develop, harmonize and update UN Regulations in order to enhance the performance of vehicles. The present document is submitted in conformity with that mandate. [↑](#footnote-ref-2)