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| Submitted by the IWG on WLTP | Informal document **GRPE-74-02-Rev.1**74th GRPE, 9-13 January 2017,  agenda item 3(b) |

**Proposal for amendments to ECE/TRANS/WP.29/GRPE/2017/7**

The text reproduced below was prepared by the IWG on Worldwide harmonized Light vehicles Test Procedure (WLTP). The modifications to the current text of ECE/TRANS/WP.29/GRPE/2017/7 are marked in bold for new or struck through for deletion.

Proposal

*Part II, Text of the global technical regulation*

*Paragraph 3.4.1.*,amend to read:

""*Powertrain*" means the total combination in a vehicle~~,~~ of propulsion energy storage system(s), propulsion energy converter(s) and the drivetrain(s) providing the mechanical energy at the wheels for the purpose of vehicle propulsion, plus peripheral devices."

Correction/justification: Editorial change to remove an unnecessary comma after the word "vehicle".

Proposal

*Annex 2, paragraph 3.4.*, amend to read:

"ASM is an additional ~~exponential~~ power safety margin which may be applied at the request of the manufacturer."

Correction/justification: Agreement reached by experts in IWG #16 to remove the term "exponential".

Proposal

*Annex 3, table A3/10*, amend to read:

# "Inert gas (CO2, N2,etc.)"

Correction/justification: Editorial change to add a space before "etc".

Proposal

# *Annex 4, paragraph 2.4.*, amend to read:

# "f0, f1, f2 are the road load coefficients of the road load equation F = f0+ f1× v + f2× v2~~,~~ determined according to this annex."

Correction/justification: Editorial change to remove an unnecessary comma after v².

Proposal

# *Annex 4, paragraph 3.2.9.*,amend to read:

# *"*$δ\_{99}$ is the distance perpendicular to the road~~,~~ where 99 per cent of free stream velocity is reached (boundary layer thickness)."

Correction/justification: Editorial change to remove an unnecessary comma after the word "road".

Proposal

# *Annex 4, paragraph 4.1.1.1.1.*, amend to read:

"Stationary anemometry shall be used only when wind speeds over a period of 5 seconds average~~s~~ less than 5 m/s and peak wind speeds are less than 8 m/s for less than 2 seconds. In addition, the vector component of the wind speed across the test road shall be less than 2 m/s. Any wind correction shall be calculated as given in paragraph 4.5.3. of this annex. Wind correction may be waived when the lowest arithmetic average wind speed is 2 m/s or less."

Correction/justification: Editorial change to replace "…5 seconds averages…" by "…5 seconds average…".

Proposal

# *Annex 4, paragraph 8.1.3.1.* amend to read:

"At, Bt and Ct are the target road load parameters; ~~f~~~~0~~~~, f~~~~1~~ ~~and f~~~~2~~ ~~respectively;~~"

Proposal

# *Annex 4, paragraph 8.1.3.4.1.2.* amend to read:

"At, Bt and Ct are the target road load parameters; ~~f~~~~0~~~~, f~~~~1~~ ~~and f~~~~2~~ ~~respectively;~~"

Proposal

# *Annex 4, insert new paragraph 8.1.5.,* to read:

"**At, Bt and Ct shall be used as the final values of f0, f1 and f2, and shall be used for the following purposes:**

**(a) Determination of downscaling, paragraph 8. of Annex 1;**

**(b) Determination of gearshift points, Annex 2;**

**(c) Interpolation of CO2 and fuel consumption, paragraph 3.2.3. of Annex 7;**

**(d) Calculation of results of electrified vehicles, paragraph 4. of Annex 8.**"

Correction/justification: Corrects the wrong reference to uncorrected f0, f1 and f2 values.

Proposal

# *Annex 7, paragraph 8.*, amend to read:

$$U\_{dyn}=3.05×\left(2\left(\frac{H/W}{W×100}\right)×W+\left(R×25.4\right)\right)$$

Correction/justification: Mathematical/technical clarity.

Proposal

# *Annex 8, table A8/5, first row, third column*, amend to read:

~~"Annex 7, paragraphs 3. to 3.2.2. inclusive~~ **Paragraphs 3. to 3.2.2. inclusive of Annex 7.**"

# *Annex 8, table A8/5, third row, third column*, amend to read:

~~"Annex 8, paragraph 4.1.1.2. to 4.1.1.5. inclusive~~ **Paragraphs 4.1.1.2. to 4.1.1.5. inclusive of Annex 8.**"

# *Annex 8, table A8/5, eighth row, third column*, amend to read:

~~"Annex 6, paragraph 1.2.4.~~ **Paragraph 1.2.4. of Annex 6,**"

# *Annex 8, table A8/7, second row, third column*, amend to read:

~~"Annex 8, p~~**P**aragraphs 4.2.1.2.2. to 4.2.1.2.5. inclusive of this annex."

# *Annex 8, table A8/7, fifth row, third column*, amend to read:

"

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| ~~Annex 6, p~~**P**aragraph 1.2.4. **of Annex 6,** ~~A~~**a**nd:$$FC\_{CS,c,5}=FC\_{CS,c,declared}$$ |

# "

# *Annex 8, table A8/8, fourth row, third column*, amend to read:

"In the case that the interpolation shall be used, the transition cycle ~~has to~~ **shall** be determined for vehicle H, L and, if applicable, M.

# Check whether the interpolation criterion acc. to paragraph 5.6.2. (d) of this UN GTR is fulfilled or not."

Proposal

# *Annex 8, Appendix 1, figure A8.App1/4.*, amend to read:

"OVC-HEVs, charge-~~depleting~~**sustaining** Type 1 test with subsequent charge-~~sustaining~~**depleting** Type 1 test"

Correction/justification: Incorrect original title.

Proposal

# *Annex 8, Appendix 6, figure A8.App6/2*, amend to read:

False location of an arrow in the diagram:



Correct location of the arrow:

