Submitted by the Secretary of the IWG on Regulation No. 55

Informal document **GRRF-82-02** 82nd GRRF, 20-23 September 2016 Agenda item 5

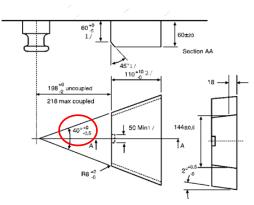
Proposals from IWG-R55 to GRRF-82

- Minor corrections and clarifications
 - Typos in Annex 5 figures 12 and 17

Amend figure 12 to read:

Change dimension sleeve bore diameter Ø06H8-to Ø60H8

Amend figure 17 to read:



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- Minor corrections and clarifications
 - Articulation angles as installed.
 - 5th-wheels pivoting around a transvers axis
 - -6° to the front and 7° to the rear
 - Drawbars with drawbar couplings
 - ±90° around a vertical axis
 - ±20° around a transvers axis by rear mounted couplings
 - $\pm 6^{\circ}$ around a transvers axis by underslung mounted couplings
 - » In this case the drawbar is considered to be an endless line starting in the coupling point

- Minor corrections and clarifications
 - Identification of worst case for testing

Annex б

Amend paragraph 1.1. to read:

- 1.1. Samples of coupling devices shall be tested for both strength and function.
 Tests shall be performed in relation to worst case conditions.
 Theoretical assessment may be carried out to determine worst case conditions Physical testing shall be carried out wherever possible but unless
- Clarification that worst case is supposed to be used
- Linguistic change in relation to calculation based approval of "simple designs"
 - The word "check" is exchanged to "assessment"

- Attachment points for secondary coupling devices
 - Broadened definition of secondary coupling device
 - Addresses coupling devices in general rather than just Class B
 - Attachment point required for towing bracket/drawbeam aimed at towing of O1 and O2 trailers.
 - Location of a single or a double attachment point stated.
 - Alternatively attachment point may be integrated to the coupling mounted on the towing bracket/drawbeam
 - Attachment point required for coupling head/drawbar eye aimed at towing of O1 and O2 trailers.
 - Performance and test requirements detailed



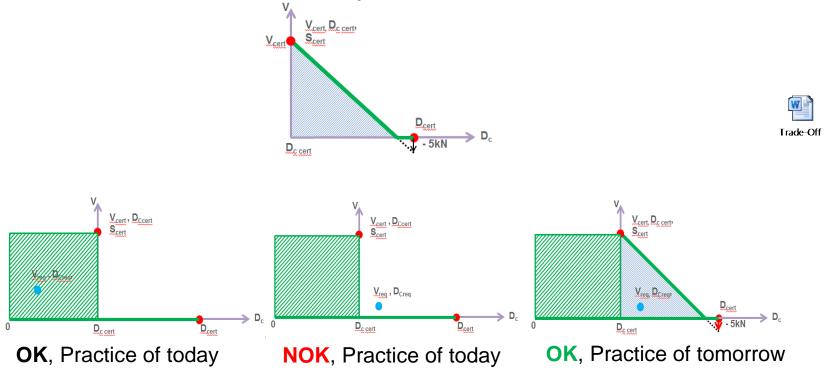
- Separation of approval process from application assessment
 - Components can be approved without knowing anything about the vehicles where they will be installed.
 - In essence definitions and the annexes 5 and 6 set the requirements
 - The way application requirements are calculated sets the safety margin
 - All application assessment formulae are moved in the new annex 8

- Adding multi vehicle combination assessment formulae
 - The traditional two vehicle combination formulae are moved to annex 8
 - <u>Note</u>, only the formula for full trailer can be used to decide towable mass, however then it is just one out of several decisive factors.
 - Then the formulae for more than two vehicle combinations according to ISO18868 are added to annex 8
 - These formulae are by necessity more complex
 - Support structures e.g. web applications will supply easy to use vehicle combination assessment tools
 - Vehicle combinations commonly seen in the roads today can then be assessed at the same safety level in different markets





- Adding D_c/V-trade-off possibility to annex 8
 - Some multi vehicle combinations require high D_c-performance in combination with a low V-performance



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