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World Forum for Harmonization of Vehicle Regulations

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Item 4.7.3 of the provisional agenda

1958 Agreement:

Consideration of draft amendments to existing

UN Regulations submitted by GRSG

Proposal for Supplement 7 to the original version of UN Regulation No. 122 (Heating systems)

Submitted by the Working Party on General Safety *

The text reproduced below was adopted by the Working Party on General Safety (GRSG) at its 125th session (ECE/TRANS/WP.29/GRSG/104 para. 24). It is based on ECE/TRANS/WP.29/GRSG/2023/8 as amended by annex IV to 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 2023 sessions.

* In accordance with the programme of work of the Inland Transport Committee for 2023 as outlined in proposed programme budget for 2023 (A/77/6 (Sect. 20), table 20.6), 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.



Paragraph 6.1.1., amend to read:

"6.1.1. "Heating system" means any type of device which is designed to increase the temperature of the interior of a vehicle, including any load area and/or the perceived temperature of occupants."

Paragraph 6.1.5., amend to read:

"6.1.5. "Electric heater" means a device using electric energy from an on-board or external source to increase the temperature of the interior of the vehicle and/or the perceived temperature of occupants. Electrical devices which are installed in addition to the main heating system and whose main function is not to heat the interior of the vehicle are not considered as electric heaters according to this Regulation. For example, electric devices installed in components for the sole purpose of heating that component are not considered as electric heaters according to this Regulation."

Annex 1, Part 2, Appendix 1, Section II, amend to read:

"...

10. The vehicle is approved according to the requirements of Annex 9 (ADR): Yes/No 2/.
11. The surface temperature exceeds the limit values mentioned in paragraphs 2.1. to 2.3. of Annex 5: Yes/No"

Annex 5, paragraph 2, amend to read:

"2. Surface Temperature

The surface temperature of any part of the heating system likely to come into contact with any occupant of the vehicle during normal road use shall be measured with a contact thermometer. No such part or parts shall exceed temperature limits defined in paragraphs below unless the manufacturer can demonstrate during the type approval process that their safety concept covers for higher temperatures without increasing the risk for occupants to get burns compared to the risk caused by the temperatures below. Any such demonstration and documentation shall be appended to the test report. The possibility to exceed these temperatures, does not apply to vehicles of categories M₂ and M₃ other than for the driver and for passengers seated in the row adjacent to the driver.

- 2.1. The surface temperature of any part of the heating system likely to come into contact with the driver of the vehicle during normal road use is limited to 70°C for uncoated metal or 80°C for other materials.
- 2.2. In the case of vehicles of categories M₁ and N, any part of the system likely to come into contact with seated passengers during normal road use of the vehicle, with the exception of the outlet grille, is limited to 110 °C.
- 2.3. In the case of vehicles of categories M₂ and M₃, any part of the system likely to come into contact with passengers during normal road use of the vehicle is limited to 70 °C for uncoated metal or 80 °C for other materials."