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Item 20 of the provisional agenda

Collective amendments to UN Regulations that impact automated vehicles

Proposal for supplement 3 to the 02 series of amendments to UN Regulation No. 134 (Hydrogen and fuel cell vehicles)

Submitted by the expert from Germany on behalf of the GRSP Task Force on Automated Vehicles Regulation Screening (TF-AVRS) *

The text reproduced below was prepared by the expert from Germany on behalf of TF-AVRS, to enable the application of the regulation to vehicles equipped with an Automated Driving System (ADS). The modifications to the existing text of the UN Regulation are marked in bold for new or strikethrough for deleted characters.

* In accordance with the programme of work of the Inland Transport Committee for 2025 as outlined in proposed programme budget for 2025 (A/79/6 (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.



I. Proposal

Insert a new paragraph 0., to read:

“0. Introduction

0.1. For supplement 3 to the 02 series of amendments:

0.1.1. The Regulation is amended to account for vehicles of category X¹ and Y¹.

0.1.2. The Regulation was originally drafted for vehicles with driver and manual driving controls. It is the intention of this new amendment to keep the spirit of the regulation and to extend its application to vehicles without driver and without manual driving controls inside the vehicle. In the absence of driver/manual driving controls in the vehicle, provisions related to them shall not be taken into account if not already covered by this amendment.

0.1.3. In case of vehicles equipped with an Automated Driving System (ADS)¹ other than vehicles of categories X and Y, in the manual driving mode no special provisions or exemptions apply. In a mode where an ADS feature is active the relevant ADS requirements apply.”

Paragraph 1., footnote 2, amend to read:

² As defined in the Consolidated Resolution on the Construction of Vehicles (R.E.3.), document ECE/TRANS/WP.29/78/Rev.78, para. 2 - <https://unece.org/transport/vehicle-regulations/wp29/resolutions>”

Insert new paragraphs 2.32. to 2.33.:

“2.32. “ADS feature of type 1 (ADSF-1)” means an ADS feature which includes an ADS fallback response requiring a fallback user.

2.33. “ADS feature of type 2 (ADSF-2)” means an ADS feature which does not include an ADS fallback response requiring a fallback user.”

Paragraph 7.1.4.3. amend to read:

“7.1.4.3. If, during operation, a single failure results in a hydrogen concentration exceeding 3.0 % by volume in air in the enclosed or semi-enclosed spaces of the vehicle, then a warning shall be provided **or whilst the ADSF-2 is active, transmitted as a logic signal to the ADS** (paragraph 7.1.6.). If the hydrogen concentration exceeds 4.0 % by volume in the air in the enclosed or semi-enclosed spaces of the vehicle, the main shut-off valve shall be closed to isolate the storage system. (Annex 5, paragraph 3. test procedure).”

Paragraph 7.1.6., amend the heading to read:

“7.1.6. Tell-tale Signal Warning to Driver **or ADS**”

Paragraph 7.1.6., at end, add a new paragraph to read:

“ **Whilst an ADSF-2 is active, the warning shall be transmitted as a logic signal to the ADS.**”

Annex 1 – Part 1, Model - III, paragraph 0.4., footnote 2, amend to read:

² As defined in the Consolidated Resolution on the Construction of Vehicles (R.E.3.), document ECE/TRANS/WP.29/78/Rev.78, para. 2 - <https://unece.org/transport/vehicle-regulations/wp29/resolutions>”

Annex 5, paragraph 2. (a), amend to read:

“ (a) At a distance within 250 mm of the headliner above the driver’s seat or near the top centre **of the passenger compartment; for vehicles of category X, the most forward passenger seat shall be taken instead of the driver's seat;**”

Annex 5, paragraph 2. (a), at end, add a new paragraph to read:

“ **This paragraph does not apply to vehicles of category Y.**”

II. Justification

See paragraph 0. in the proposal.
