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Item 3(a) of the provisional agenda

Light vehicles:

UN Regulations Nos. 68 (Measurement of the maximum speed, including electric vehicles), 83 (Emissions of M1 and N1 vehicles), 101 (CO2 emissions/fuel consumption), 103 (Replacement pollution control devices) and 154 (Worldwide harmonized Light vehicles Test Procedures (WLTP)) and [180] (OBM and EVP)

Proposal for a new supplement to the 09 Series of Amendments to UN Regulation No. 83 (Emissions of M1 and N1 vehicles)

Submitted by the Task Force on Automated Vehicles Regulations Screening (AVRS) *

The text reproduced below was prepared by the Task Force on Automated Vehicles Regulations Screening (AVRS). This document aims to allow type approval of vehicles with Automated Driving Systems. It is submitted to the Working Party on Pollution and Energy consideration at its 94th session. The modifications to the current text of the 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 2026 as outlined in proposed programme budget for 2026 (A/80/6 (Sect. 20), table 20.7), 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

Footnote 1, amend to read:

"¹ As defined in the Consolidated Resolution on the Construction of Vehicles (R.E.3.), document ECE/TRANS/WP.29/78/Rev.68, para. 2. -www.unece.org/transport/vehicle-regulations/wp29/resolutions."

Annex 1, paragraph 2.6., amend to read:

"2.6. Mass of the vehicle with bodywork and, in the case of a towing vehicle of category other than M₁, with coupling device, if fitted by the manufacturer, in running order, or mass of the chassis or chassis with cab, without bodywork and/or coupling device if the manufacturer does not fit the bodywork and/or coupling device (including liquids, tools, spare wheel, if fitted, and driver and, for buses and coaches, a crew member if there is a crew seat in the vehicle)^{§§} (maximum and minimum for each variant). **For vehicles of categories X and Y¹ the mass of the driver shall not be included:**"

Annex 1, paragraph 3.4.3., amend to read:

"3.4.3. **User-selectable** Θ operating mode switch: with/without⁹"

Annex 2, paragraph 1.9.2., amend to read:

"1.9.2. **User-selectable** Θ operating mode switch: with/without¹"

Annex 4, paragraph 5.7.2., amend to read:

"5.7.2. Vehicle Examination and Maintenance
 Diagnosis of faults and any normal maintenance necessary in accordance with Appendix 1 shall be performed on vehicles accepted for testing, prior to or after proceeding with ISC testing.
 The following checks shall be carried out: OBD checks (performed before or after the test), ~~visual~~ checks for ~~indication of~~ malfunction ~~indicator lamps~~, checks on air filter, all drive belts, all fluid levels, radiator and fuel filler cap, all vacuum and fuel system hoses and electrical wiring related to the after-treatment system for integrity; checks on ignition, fuel metering and pollution control device components for maladjustments and/or tampering.
 ..."

Annex 4, Table A4/2, amend to read:

" Table A4/2

Sensitive information

<i>ID</i>	<i>Input</i>	<i>Description</i>
6.
7.	Procedure to engage ADS Testing Mode	How to enable the ADS testing mode on vehicles of categories X and Y or other vehicles equipped with an ADS, if an ADS testing mode is provided.

"

Annex 4 - Appendix 1, lines numbered 1, 2 and 3, amend to read:

"

...			
	<i>Vehicle Examination and Maintenance</i>	<i>X = Exclusion Criteria/ F = Faulty Vehicle</i>	<i>X = checked and reported</i>
1	<i>Fuel tank level (full / empty)</i> Is there an indication active of low fuel level fuel reserve light ON? If yes, refuel before test.		x
2	Are there any warnings <i>lights on the instrument panel</i> activated <i>indicating a vehicle or exhaust after-treatment system malfunctioning that cannot be resolved by normal maintenance? (Malfunction Indication Light, Engine service Indication, etc?)</i> <i>If yes, the vehicle cannot be selected.</i>	x	
3	Is there an indication active of low reagent level SCR light on after engine-on? <i>If yes, the AdBlue should be filled in, or the repair executed before the vehicle is used for testing.</i>	x	
4	

"

Annex 4, Appendix 5, lines numbered 18. and 19., amend to read:

"

...	...			
18	Driver User-selectable mode(s) used during the TA tests (pure ICE) or for charge sustaining test (NOVC-HEV, OVC-HEV, NOVC-FCHV)	Possible formats: pdf, jpg. The name of the file shall be a UUID, unique inside the package.	--	State and describe mode(s) used in type approval. In cases of predominant mode this will be only one entry. Alternatively, the best and worst case modes need to be described. Description of modes that need to be used for TA tests as in paragraph 2.6.6. of Annex B6 to UN Regulation No. 154
19	Driver User-selectable mode(s) used during the TA tests for charge depleting test (OVC-HEV)	Possible formats: pdf, jpg. The name of the file shall be a UUID, unique inside the package.	--	State and describe mode(s) used in type approval. In cases of predominant mode this will be only one entry. Alternatively, the best and worst case modes need to be described. Description of modes that need to be used for TA tests as in paragraph 3.2.3. of Annex B8 to UN Regulation No. 154
...	...			

"

Annex 6, insert new paragraph 3.4. and sub-paragraphs, to read:

- "3.4. Additional Requirements for vehicles equipped with an ADS**
- 3.4.1. Vehicles of categories X and Y shall be tested using the ADS testing mode as set out in paragraph 2.4.2.7. of Annex B6 to UN Regulation No. 154, but extended to enable the correct execution of the tests, where necessary.**
- 3.4.2. If the vehicle is equipped with an ADS testing mode, it shall be engaged for all tests on the chassis dynamometer."**

Annex 8, insert new paragraph 3.6. and sub-paragraphs, to read:

- "3.6. Additional Requirements for vehicles equipped with an ADS**
- 3.6.1. Vehicles of categories X and Y shall be tested using the ADS testing mode as set out in paragraph 2.4.2.7. of Annex B6 to UN Regulation No. 154, but extended to enable the correct execution of the tests, where necessary.**
- 3.6.2. If the vehicle is equipped with an ADS testing mode, it shall be engaged for all tests on the chassis dynamometer."**

II. Justification

1. The document introduces changes required to incorporate vehicles with Automated Driving Systems into the existing Regulation.
2. References to the Consolidated Resolution on the Construction of Vehicles (R.E.3.) are updated to include ADS equipped vehicles in the scope. Vehicle categories X and Y are introduced in Revision 8 of R.E.3, prepared by the Task Force on Automated Vehicle Categorisation (TF-AVC) under GRSG and GRVA, and are not capable to be driven manually above 6 km/h.
3. All references to driver actions are taken out of the Regulation and written in a way that it allows for vehicles with and without a driver into the scope of the Regulation.
4. Driver messages and warnings are edited in way that it would be suitable for vehicles with and without a driver.
5. Special provisions are included for testing vehicles equipped with an ADS, and they were incorporated as new paragraphs 3.4. to Annex 6, and 3.6. to Annex 8.