

Transmitted by the Netherlands

Informal Document **GRPE-89-23**
89th GRPE, 31st of May – 2nd of June, 2023,
agenda item 17

Report to 89th Session of GRPE (May-June 2023)

**Task Force Automated Vehicles Regulation Screening
(TF-AVRS)**

TF Automated Vehicles Regulation Screening



6

Number of Meetings

Web-meetings

- 1st Kick-off meeting: 13th March 2023
- 2nd TF-AVRS: 4th April 2023
- 3rd TF-AVRS: 17th April 2023
- 4th TF-AVRS: 9th May 2023
- 5th TF-AVRS: 22nd May 2023



13

Participants (Contracting Parties & NGOs)

- CPs:
Germany, France, United Kingdom, South Africa, United States, Netherlands
- NGO's:
OICA

TF Automated Vehicles Regulation Screening

Targets

- WP29 requests a screening of regulation for application of Automated Vehicles.
- GRVA proposed a template for the screening
- TF-FADS (GRVA) provides further guidance

Roles

- Chair: [Netherlands]
- Secretariat: [...]

TF-AVRS wikipage

<https://wiki.unece.org/pages/viewpage.action?pageId=198672917&src=contextnavpagetreemode>

Screening process: Considered items

1. Terminology

- Relevant terms based on GRVA guidance

2. Use cases AVs

- Driverless AVs
 - With passenger
 - Without passengers (cargo)
- AVs with driver
- Bi-directional AV's

3. Other considered items

- Telltales & warning signals
- Test modes

UN Regulations	Title	Topic	Vehicle and/or Component	category	to be checked	changes required	First suggestions of the TF-AVRS					Possible action
							Issue	Issue for fully automated vehicles?	Issue for dual mode vehicles?	Issue for vehicles without occupants?	Issue for other use cases?	
Light vehicles												
UN Regulation No. 15	Measurement of emissions and fuel consumption	Emission	Vehicle	M1, N1	NO	NO	-	-	-	-	-	-
UN Regulation No. 68	Measurement of the maximum speed, including electric vehicles	Speed	Vehicle	M1, N1	YES	YES	Requirements update	YES	NO	YES	-	Update requirements
UN Regulation No. 83	Emissions of M1 and N1 vehicles											
UN Regulation No. 84	Measurement of fuel consumption	Fuel consumption	Vehicle	M1, N1	NO	NO	-	-	-	-	-	-
UN Regulation No. 101	CO2 emissions/fuel consumption				YES (FR)							
UN Regulation No. 103	Replacement pollution control devices	Emission	Vehicle & Component	M1, N1	YES	YES	Test procedure & indication	YES	NO	YES	-	Development of procedure or clause
UN Regulation No. 154	Worldwide harmonized Light vehicles Test Procedures											
UN Global Technical Regulation No. 15	Worldwide harmonized Light vehicles Test Procedures											
UN Global Technical Regulation No. 19	Evaporative emission test procedure for the Worldwide harmonized Light vehicle Test Procedure (WLTP EVAP)	Evaporative emission	Vehicle	1-2, 2	YES	NO	-	NO	NO	NO	-	-
UN RDE	Real Driving Emissions											
Heavy duty vehicles												
UN Regulation No. 49	Emissions of compression ignition and positive ignition (LPG and CNG) engines											
UN Regulation No. 132	Retrofit Emissions Control devices (REC)											
UN Global Technical Regulation No. 4	World-wide harmonized Heavy Duty Certification procedure (WHDC)											
UN Global Technical Regulation No. 5	World-Wide harmonized Heavy Duty On-Board Diagnostic systems (WWH-OBD)											
UN Global Technical Regulation No. 10	Off-Cycle Emissions (OCE)											

Light Vehicles and Heavy Duty Vehicles												
UN Regulation No. 24	Visible pollutants, measurement of power of C.I. engines (Diesel smoke)	Emission	Vehicle & Component	L, M, N	YES	YES	Test procedure	YES	NO	YES	-	Development of procedure
UN Regulation No. 85	Measurement of the net power											
UN Regulation No. 115	LPG and CNG retrofit systems											
UN Regulation No. 133	Recyclability of motor vehicles	Recyclability	Vehicle	M1, N1	YES	NO	-	NO	NO	NO	-	-
UN Regulation No. 143	Heavy Duty Dual-Fuel Engine Retrofit Systems (HDDF-ERS)											
Agricultural and forestry tractors, non-road mobile machinery												
UN Regulation No. 96	Diesel emission (agricultural tractors)											
UN Regulation No. 120	Net power of tractors and non-road mobile machinery											
UN Global Technical Regulation No. 11	Non-road mobile machinery engines											
Motorcycles and mopeds												
UN Regulation No. 40	Emission of gaseous pollutants by motorcycles											
UN Regulation No. 47	Emission of gaseous pollutants of mopeds											
UN Global Technical Regulation No. 2	World-wide Motorcycle emissions Test Cycle (WMTC)	Emission	Vehicle	Two-wheeled Motorcycle	YES	YES	Test procedure	YES	NO	YES	-	Development of procedure
UN Global Technical Regulation No. 17	Crankcase and evaporative emissions of L- category vehicles											
UN Global Technical Regulation No. 18	On-Board Diagnostic (OBD) systems for L-category vehicles											
UN Global Technical Regulation No. 23	Durability											
Electric Vehicles and the Environment (EVE)												
UN Global Technical Regulation No. 21	DEVP											
UN Global Technical Regulation No. 22	In-Vehicle Battery Durability					YES (UK)						
M.R.												
Mutual Resolution No. 2	M.R.2											

TF-AVRS Results

- First focus on light vehicles
- No vehicle categories will be excluded from screening
- 2 Regulations are excluded from screening
- 6 regulations are screened
- 2 regulations are planned to be screened

Next steps

- Continue with meetings once per month
- Participants from CP's and NGO's are most welcome in order to accelerate the screening

Guidance GRPE

- TF-AVRS Chair, CP => Vacant, currently carried out by NL. NL is willing to volunteer for the chairing position.
- TF-AVRS Secretary, NGO => Vacant, asking for volunteers.

Thank you for your attention