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**Economic Commission for Europe**

Inland Transport Committee

**World Forum for Harmonization of Vehicle Regulations**

**171st session**

Geneva, 14-17 March 2017

Item 2.2 of the provisional agenda

**Coordination and organization of work:
Programme of work and documentation.**

 Programme of Work of the World Forum for Harmonization of Vehicle Regulations (WP.29) and its Subsidiary Bodies

 Note by the Secretariat[[1]](#footnote-2)\*

The text reproduced below was prepared by the Secretariat for consideration by the World Forum. It takes into account the results and decisions taken at its 169th session (ECE/TRANS/WP.29/1123) and 170th session (ECE/TRANS/WP.29/1126) and the proposed agenda for its 171st session (ECE/TRANS/WP.29/1128) and updates also the information on the work of the six subsidiary Working Parties to WP.29.

 ****Main topics of work of the World Forum for Harmonization of Vehicle Regulations and its subsidiary bodies****

Top priorities for the work of the World Forum for Harmonization of Vehicle Regulations lie in the field of automated vehicles paving the way for a regulatory framework supporting the introduction of these emerging technologies towards future autonomous vehicles and in electro-mobility to address the challenges of limited fossil fuel resources, environmental protection and climate change.

 ****1. Further development and implementation of the three Vehicle Agreements:****

1.1. *1958 Agreement*: Following the adoption and entry into force of Revision 3 of the 1958 Agreement, expected on 14 September 2017, the requirements for International Whole Vehicle Type Approval (IWVTA) are to be established by the new UN Regulation No. 0.

1.2. *1997 Agreement*: Further to amending the rules under the agreement, elements related to the performance and quality of periodic technical inspections are being prepared via both an adaptation of the agreement and the establishment of a resolution covering skills and training for inspectors, requirements for testing equipment and supervision of test centres.

1.3. *1998 Agreement*: Following the establishment of Special resolution S.R.3, the implementation of the agreement will be followed with a more strategic approach by identifying key elements that define elements the work will focus on.

 ****2. Horizontal activities:****

2.1. Over the air updates of vehicle operational software, cyber security and data protection (ECE/TRANS/WP.29/1126, para. 23).

2.2. Performance requirements outside test conditions (ECE/TRANS/WP.29/1126, para. 21).

 ****3. Main topics of the Subsidiary Bodies****:

3.1. GRB main topic is the work on a gtr for Quiet Road Transport Vehicles (QRTV).

3.2. GRE is focusing on the simplification of the lighting regulations following the establishment of the Resolution R.E.5 on the common specification of light source categories.

3.3. GRPE main area of work is related to the transformation of WLTP into a new UN Regulation.

3.4. GRRF is establishing the first elements for the UN vehicle regulatory framework towards automated driving. Amendments to UN Regulation No. 79 including ACSF both for low and high speed driving manoeuvres.

3.5. GRSG establishes a new UN Regulation on Advanced Driver Assistant Systems for Blind Spot Detection to early warn drivers of not automated vehicles.

3.6. GRSP focuses its work on a gtr for electric vehicle safety as well as on hydrogen vehicles, protection of vulnerable road users (e.g. gtr/UN Regulation on pedestrian protection and child restraint systems).

# Table 1

# **Subjects under consideration by the World Forum (WP.29)**

| *Subject* | *Document symbol ECE/TRANS/WP.29/...* | *Documentation availability* |
| --- | --- | --- |
| * 1. **1958 Agreement**
 | For document symbols and its availability, please refer to the agenda (1128) |
| * + 1. Draft amendments to existing UN Regulations to be considered at the March 2017 session
 |  |
| UN Regulations Nos.: 3 (Retro-reflecting devices)4 (Illumination of rear registration plates)5 (Audible warning devices) 6 (Direction indicators)7 (Position, stop and end-outline lamps)9 (Noise of three-wheeled vehicles) 19 (Front fog lamps)23 (Reversing lamps)27 (Advance warning triangles)38 (Rear fog lamps)39 (Speedometer and odometer)43 (Safety glazing),45 (Headlamp cleaners)50 (Position, stop, direction indicator lamps for mopeds and motorcycles)65 (Special warning lamps)63 (Noise emissions of mopeds) 69 (Rear-marking plates for slow moving vehicles)70 (Rear-marking plates for heavy and long vehicles)73 (Lateral protection devices),75 (Tyres for motorcycles/mopeds)79 (Steering equipment)77 (Parking lamps)87 (Daytime running lamps)91 (Side-marker lamps)92 (Replacement exhaust silencing systems for motorcycles) 98 (Headlamps with gas-discharge light sources)99 (Gas-discharge light sources)104 (Retro-reflective markings)107 (M2 and M3 vehicles)109 (Retreaded tyres for commercial vehicles and their trailers)110 (CNG and LNG vehicles)112 (Headlamps emitting and asymmetrical passing-beam)113 (Headlamps emitting a symmetrical passing-beam)118 (Burning behaviour of materials)119 (Cornering lamps)138 (Quiet Road Transport Vehicles) |  |
|  |
| * + 1. Draft New UN Regulation:
 |  |
| nil |  |
| * + 1. Draft amendments to existing UN Regulations to be considered at the June 2017 session

4 (Illumination of rear registration plate lamps)6 (Direction indicators)7 (Position, stop and end-outline lamps)13 (Heavy vehicle braking)14 (Safety-belt anchorages)16 (Safety-belts)19 (Front fog lamps)23 (Reversing lamps and manoeuvring lamps)38 (Rear fog lamps)48 (Installation of lighting and light-signalling devices)50 (Position, stop, direction indicator lamps for mopeds and motorcycles)51 (Noise of M and N categories of vehicles)54 (Tyres for commercial vehicles and their trailers)55 (Mechanical Coupling)77 (Parking lamps)80 (Strength of seats and their anchorages (buses))83 (Emissions of M1 and N1 vehicles)87 (Daytime running lamps)91 (Side-marker lamps)98 (Headlamps with gas-discharge light sources)106 (Agricultural tyres)112 (Headlamps emitting an asymmetrical passing-beam)113 (Headlamps emitting a symmetrical passing-beam)119 (Cornering lamps)123 (Adaptive front-lighting systems (AFS))129 (Enhanced Child Restraint Systems)143 (Heavy Duty Dual-Fuel Engine Retrofit Systems (HDDF-ERS)) |  |
| * + 1. Proposal for new UN Regulations to be considered at the June 2017 session

nil |  |
| * + 1. Status of the Agreement and of the annexed UN Regulations, including the latest situation report
 | 343/Rev.25 |
| * + 1. Development of an International Whole Vehicle Type Approval (IWVTA) system, including the development of a new UN Regulation No. 0
 |  |
| * + 1. Consideration of amendments to the 1958 Agreement.
 |  |
| * + 1. Development of an electronic database for the exchange of type approval documentation (DETA)
 |  |
| * 1. **1998 Agreement (Global)**
 | For document symbols and its availability, please refer to the agenda (1128) |
| * + 1. Consideration of draft gtrs and amendments to them:
 |  |
| Nil |  |
| * + 1. Consideration of Mutual Resolutions

Consideration of draft amendments to Mutual Resolution No. 1 (M.R.1)Consideration of draft amendments to Mutual Resolution No. 2 (M.R.2)  Nil |  |
| * + 1. Guidance for the development of gtrs:

 Nil* + 1. Progress on the development of new gtrs and of amendments to established gtrs
 |  |
| * + 1. Consideration of draft gtrs and amendments to them to be considered at the June 2017 session

Proposal for a new global technical regulation on Evaporative emission test procedure for the Worldwide harmonized Light vehicles Test Procedure (WLTP EVAP)Proposal for amendment No. 2 to global technical regulation No. 1 (Door locks and door retention componentsConsideration of Mutual Resolutions) |  |
| * + 1. Consideration of Special Resolutions

Nil |  |
| * + 1. Guidance for the development of gtrs:

Nil* + 1. Progress on the development of new gtrs and of amendments to established gtrs
 |  |
| 1 (Door locks and door retention components)2 (Worldwide Motorcycle emission Test Cycle (WMTC))3 (Motorcycle braking)4 (Worldwide Heavy-Duty Certification procedure (WHDC))6 (Safety glazing)7 (Head restraints)9 (Pedestrian safety)15 (Worldwide harmonized Light vehicle Test Procedures (WLTP) – Phase 2)16 (Tyres)Draft gtr on Electric Vehicles Safety (EVS)Draft gtr on Quiet Road Transport Vehicles (QRTV) |  |
| * + 1. Exchange of views on items for new global technical regulations
 |  |
| Harmonization of side impactElectric vehicles and the environmentSpecifications for the 3-D H point machineHydrogen and Fuel Cell Vehicles (HFCV) (Gtr No. 13) – Phase 2 |  |
| * 1. **1997 Agreement (Inspections)**
 | For document symbols and its availability, please refer to the agenda (1128) |
| * + 1. Future development of the Agreement
 |  |
| * + 1. Update of UN Rules Nos. 1 and 2
 |  |
| * + 1. Establishment of requirements for testing equipment, for skills and training of inspectors and for supervision of test centres
 |  |

# Table 2

# **Subjects under consideration by the Working Party on Noise (GRB)**

| *Subject* | *Document symbol ECE/TRANS/WP.29/…* | *Documentation availability* |
| --- | --- | --- |
| * 1. **1958 Agreement**
 | For document symbols and its availability, please refer to the agenda of the sixty-third session (GRB/2017/1) |
| * + 1. Proposal for draft amendments to existing UN Regulations (1958 Agreement):
 |  |
| 28 (Audible warning devices)41 (Noise of motorcycles): Development. 51 (Noise of M and N categories of vehicles) 59 (Replacement silencing systems) 92 (Replacement exhaust silencing systems for motorcycles) 117 (Tyre rolling noise and wet grip adhesion) |  |
| * 1. **1998 Agreement (Global)**
 | For document symbols and its availability, please refer to the agenda of the sixty-third session (GRB/2017/1) |
|  Gtr on Quiet Road Transport Vehicles |  |
| * 1. **1997 Agreement (Inspections)**

 Nil |  |
| * 1. **Proposal for draft recommendations or amendments to existing recommendations**
 |  |
|  Nil |  |
| * 1. **Miscellaneous items**

Influence of road surface on tyre rolling sound emissionsDefinitions and acronyms in UN Regulations under the responsibility of GRBProposal for amendments to R.E.3Development of the International Whole Vehicle Type Approval (IWVTA) system | For document symbols and its availability, please refer to the agenda of the sixty-third session (GRB/2017/1) |

# Table 3

# **Subjects under consideration by the Working Party on Lighting and Light-Signalling (GRE)**

| *Subject* | *Document symbol ECE/TRANS/WP.29/...* | *Documentation availability* |
| --- | --- | --- |
| **3.1. 1958 Agreement** | For document symbols and its availability, please refer to the agenda of the seventy-fifth session (GRE/2017/1) |
| 3.1.1. Proposal for draft amendments to existing UN Regulations (1958 Agreement): |
| 6 (Direction indicators)7 (Position, stop and end-outline lamps)10 (Electromagnetic compatibility)19 (Front fog lamps)23 (Reversing lamps)38 (Rear fog lamps)45 (Headlamp cleaners)48 (Installation of lighting and light‑signalling devices) 50 (Position, stop, direction indicator lamps for mopeds and motorcycles)53 (Installation of lighting and light signalling devices for L3 vehicles)77 (Parking lamps)86 (Installation of lighting and light-signalling devices for agricultural tractors)87 (Daytime running lamps)91 (Side marker lamps)98 (Headlamps with gas-discharge light sources)112 (Headlamps emitting an asymmetrical passing-beam)113 (Headlamps emitting a symmetrical passing-beam)119 (Cornering lamps)123 (Adaptive front lighting systems (AFS)) |  |
| 3.1.2. Proposal for draft new UN Regulations: |  |
| Nil  |  |
| **3.2. 1998 Agreement (Global)** |  |
|  Possibility to develop further gtrs  |  |
| **3.3. 1997 Agreement (Inspections)**Nil |  |
| **3.4. Proposal for draft recommendations or amendments to existing recommendations** |  |
|  Nil |  |
| **3.5. Miscellaneous items**Pending amendment proposalsSimplification of lighting and light-signalling UN Regulations Amendments to the Convention on Road Traffic (Vienna 1968)Development of an international whole vehicle type approval (IWVTA)Phantom light and colour washoutDirection for future GRE workWork progress of the International Automotive Lighting and Light Signalling Expert Group (GTB) task forces | For document symbols and its availability, please refer to the agenda of the seventy-fifth session (GRE/2017/1) |

# Table 4

# **Subjects under consideration by the Working Party on Pollution and Energy (GRPE)**

| *Subject* | *Document symbol ECE/TRANS/WP.29/...* | *Documentation availability* |
| --- | --- | --- |
| **4.1. 1958 Agreement**4.1.1. Proposal for draft amendments to existing UN Regulations (1958 Agreement): | For document symbols and its availability, please refer to the agenda of the seventy-second session (GRPE/2017/1) |
| 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) 49 (Emissions of compression ignition and positive ignition (LPG and CNG) engines) 132 (Retrofit Emissions Control devices (REC)) 85 (Measurement of the net power) 115 (LPG and CNG retrofit systems) 133 (Recyclability of motor vehicles) 96 (Diesel emission (agricultural tractors))120 (Net power of tractors and non-road mobile machinery)40 (Emission of gaseous pollutants by motorcycles) 47 (Emission of gaseous pollutants of mopeds)  |
| 4.1.2. Proposal for draft new UN Regulations |  |
|  Nil |  |
| **4.2. 1998 Agreement (Global)**2 (Worldwide motorcycle emissions test cycle (WMTC))4 (Worldwide harmonized Heavy-Duty Certification Procedure (WHDC))5 (Worldwide harmonized Heavy duty on-board diagnostic systems (WWH-OBD))10 (Off-Cycle Emissions (OCE))11 (Non-road mobile machinery engines)15 (Worldwide harmonized Light Vehicle Test Procedure (WLTP)) | For document symbols and its availability, please refer to the agenda of the seventy-second session (GRPE/2017/1) |
| 4.2.1. Proposal for developing new global technical regulationsVehicles Interior Air Quality (VIAQ) |  |
| **4.3. 1997 Agreement (Inspections)**Nil |  |
| **4.4. Proposal for draft recommendations or amendments to existing recommendations** |  |
|  Nil |  |
| **4.5. Miscellaneous items** | For document symbols and its availability, please refer to the agenda of the seventy-second session (GRPE/2017/1) |
| World-wide harmonized Light vehicles Test Procedure (WLTP)Heavy Duty Hybrids (HDH)Particle Measurement Programme (PMP)Gaseous Fuelled Vehicles (GFV)Environmental and Propulsion Performance Requirements (EPPR) for L-category vehiclesElectric Vehicles and the Environment (EVE)Vehicle Propulsion System Definitions (VPSD)Fuel Quality (FQ)International Whole Vehicle Type Approval (IWVTA)Exchange of information on national and international requirements on emissions Vehicles Interior Air Quality (VIAQ) |

# Table 5

# **Subjects under consideration by the Working Party on Brakes and Running Gear (GRRF)**

| *Subject* | *Document symbol ECE/TRANS/WP.29/...* | *Documentation availability* |
| --- | --- | --- |
| **5.1. 1958 Agreement** | For document symbols and its availability, please refer to the agenda of the eighty-first session (GRRF/2017/1) |
| 5.1.1. Proposal for draft amendments to existing UN Regulations (1958 Agreement): |  |
| 13 and 13-H (Braking),30 (Tyres for passenger cars and their trailers)54 (Tyres for commercial vehicles and their trailers)55 (Mechanical couplings)64 (Temporary use spare unit, run flat tyres, run flat-system and tyre pressure monitoring system)75 (Motorcycle tyres)78 (Motorcycle braking)79 (Steering equipment)89 (Speed limitation devices)90 (Replacement brake linings)106 (Tyres for agricultural vehicles)109 (Retreaded tyres for commercial vehicles and their trailers)117 (Tyres - Rolling resistance, rolling noise and wet grip) |  |
| 5.1.2. Proposal for draft new UN Regulations: |  |
|  Tyres installationBrake Assist SystemsElectronic stability Control |  |
| 5.1.3. Vehicle automation |  |
| Remote Control Parking (RCP)Valet ParkingLane Keeping Assist System (LKAS)Parking Assist Systems (PAS)Automated Controlled Steering Function (ACSF) |  |
| **5.2. 1998 Agreement (Global)** | For document symbols and its availability, please refer to the report of the eighty-first session (GRRF/2017/1) |
| 3 (Motorcycle braking)16 (Tyres) |
| **5.3. 1997 Agreement (Inspections)** |  |
|  Nil |
| **5.4. Proposal for draft recommendations or amendments to existing recommendations:** |  |
|  Nil |  |
| **5.5. Miscellaneous items** | For document symbols and its availability, please refer to the agenda of the eighty-first session (GRRF/2017/1) |
| Intelligent Transport Systems (ITS)Lane keeping assist system (LKAS) and Parking assist systems (PAS)Automatically Commanded Steering Function (ACSF)International Whole Vehicle Type Approval (IWVTA)Modular Vehicle Combinations (MVC)Exchange of views on innovations and relevant national activities |

# Table 6

# **Subjects under consideration by the Working Party on General Safety Provisions (GRSG)**

| *Subject* | *Document symbol ECE/TRANS/WP.29/...* | *Documentation availability* |
| --- | --- | --- |
| **6.1. 1958 Agreement** | For document symbols and its availability, please refer to the agenda for the 110th session (GRSG/2017/1) |
| 6.1.1. Proposal for draft amendments to existing UN Regulations (1958 Agreement): |  |
| 39 (Speedometer/odometer)43 (Safety glazing)46 (Devices for indirect vision)55 (Mechanical couplings)60 (Driver operated controls (mopeds/motorcycles))66 (Strength of superstructure (buses))67 (LPG vehicles)73 (Lateral protection devices)105 (ADR vehicles)110 (CNG and LNG vehicles)116 (Anti-theft and alarm systems)118 (Burning behaviour of materials)121 (Identification of controls, tell-tales and indicators) |  |
| 6.1.2. Proposal for draft new UN Regulations: |  |
| Automatic Emergency Call Systems (AECS) |  |
| Advanced Driver Assistance Systems (ADAS) |  |
| **6.2. 1998 Agreement (Global)** | For document symbols and its availability, please refer to the agenda for the 108th session (GRSG/2017/1) |
| Possibility to develop further gtrs6 (Safety glazing)  |  |
| **6.3. 1997 Agreement (Inspections)** |  |
| Nil |
| **6.4. Proposal for draft recommendations or amendments to existing recommendations:** |  |
|  Nil |  |
| **6.5. Miscellaneous items** | For document symbols and its availability, please refer to the agenda for the 109th session (GRSG/2017/1) |
|  |
| International Whole Vehicle Type Approval (IWVTA)Consolidated Resolution on the Construction of Vehicles (R.E.3)Event Data RecorderThree-dimensional H-point machine |  |

# Table 7

# **Subjects under consideration by the Working Party on Passive Safety (GRSP)**

| *Subject* | *Document symbol ECE/TRANS/WP.29/...* | *Documentation availability* |
| --- | --- | --- |
| **7.1. 1958 Agreement**7.1.1. Proposal for draft amendments to existing UN Regulations (1958 Agreement): | For document symbols and its availability, please refer to the agenda for the fifty-eighth session (GRSP/2015/17) |
| 14 (Safety-belt anchorages)16 (Safety-belts)17 (Strength of seats)21 (Interior fittings)22 (Protective helmets)25 (Head restraints)44 (Child restraints systems)80 (Strength of seats and their anchorages (buses))94 (Frontal collision)100 (Electric power trained vehicles)127 (Pedestrian safety)129 (Enhanced child restraint systems) |  |
| 7.1.2. Proposal for draft new UN Regulations: |  |
| Nil |  |
| **7.2. 1998 Agreement (Global)** | For document symbols and its availability, please refer to the agenda for the fifty-eighth session (GRSP/2015/17) |
| 1 (Door locks and door retention components)7 (Head restraints)9 (Pedestrian safety)13 (Hydrogen and Fuel Cells Vehicles)Side impact dummiesElectric vehiclesVehicle Crash compatibility |
| **7.3. 1997 Agreement (Inspections)** |  |
| Nil |
| **7.4. Proposal for draft recommendations or amendments to existing recommendations** |  |
|  Nil |  |
| **7.5. Miscellaneous items** | For document symbols and its availability, please refer to the report for the fifty-sixth session (GRSP/56) |
| Exchange of information on national and international requirements on passive safetyInternational Whole Vehicle Type Approval (IWVTA)3-D H point machineIntelligent Transport Systems (ITS)Definition and acronyms in UN Regulations under GRSP responsibilities  |

1. \* In accordance with the programme of work of the Inland Transport Committee for 2016–2017 (ECE/TRANS/254, para. 159 and ECE/TRANS/2016/28/Add.1, cluster 3.1), the World Forum will develop, harmonize and update Regulations in order to enhance the performance of vehicles. The present document is submitted in conformity with that mandate. [↑](#footnote-ref-2)