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Working Party on Noise and Tyres

Seventy-fourth session

Geneva, 15–17 September 2021 (hybrid)

Report of the Working Party on Noise and Tyres on its seventy-fourth session*

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* The present document was not edited before being sent to the United Nations translation services.



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I. Attendance

1. The Working Party on Noise and Tyres (GRBP) held its seventy-fourth session from 15 to 17 September 2021 in Geneva.¹ The meeting was chaired by Mr. S. Ficheux (France). Experts from the following countries participated in the work following Rule 1(a) of the Rules of Procedure of the World Forum for Harmonization of Vehicle Regulations (WP.29) (TRANS/WP.29/690/Rev.2): Canada, China, Czech Republic, Finland, France, Germany, Hungary, India, Italy, Japan, Netherlands, Norway, Republic of Korea, Russian Federation, South Africa, Spain, Sweden, Switzerland, United Kingdom of Great Britain and Northern Ireland and United States of America. An expert from the European Commission (EC) participated. Experts from the following non-governmental organizations also participated: Bureau International Permanent des Associations de Vendeurs et Rechapeurs de pneumatiques (BIPAVÉR), International Motor Vehicle Inspection Committee (CITA), European Association of Automotive Suppliers (CLEPA), European Garage Equipment Association (EGEA), European Tyre and Rim Technical Organization (ETRTO), Federation of European Motorcyclists' Associations (FEMA), Motorcycle Manufacturers Association (IMMA), International Organization for Standardization (ISO), Imported Tyre Manufacturers Association (ITMA), International Organization of Motor Vehicle Manufacturers (OICA), Society of Automotive Engineers (SAE).

II. Adoption of the agenda (agenda item 1)

Documentation: ECE/TRANS/WP.29/GRBP/2021/8, Informal documents GRBP-74-01-Rev.1, GRBP-74-10-Rev.1 and GRBP-74-19

2. GRBP considered and adopted the agenda (ECE/TRANS/WP.29/GRBP/2021/8, as amended by GRBP-74-01-Rev.1). GRBP noted the running order proposed by the Chair (GRBP-74-10-Rev.1) as well as the virtual meeting guidelines (GRBP-74-19). The list of informal documents is contained in Annex I. The list of GRBP informal groups is reproduced in Annex VII.

III. UN Regulation No. 9 (Noise of three-wheeled vehicles) (agenda item 2)

Documentation: ECE/TRANS/WP.29/GRBP/2021/23, Informal document GRBP-74-43

3. The expert from IMMA proposed to align the 08 series of amendments to UN Regulation No. 9 with standard ISO10844:2014 as well as to streamline the transitional provisions (ECE/TRANS/WP.29/GRBP/2021/23). GRBP adopted this proposal, as amended by GRBP-74-43, and requested the secretariat to submit it for consideration and vote at the March 2022 sessions of WP.29 and the Administrative Committee (AC.1) as draft Supplement 2 to the 08 series of amendments to UN Regulation No. 9.

IV. UN Regulation No. 51 (Noise of M and N categories of vehicles) (agenda item 3)

Documentation: ECE/TRANS/WP.29/GRBP/2021/22, Informal documents GRBP-74-03-Rev.1, GRBP-74-08, GRBP-74-09, GRBP-74-11, GRBP-74-12, GRBP-74-13, GRBP-74-20, GRBP-74-21, GRBP-74-22, GRBP-74-27, GRBP-74-39

4. The expert from Norway, in his capacity of Chair of the Informal Working Group on Measurement Uncertainties (IWG MU), reported on the progress of IWG MU (GRBP-74-

¹ The meeting was conducted in a hybrid format. On 17 September 2021, simultaneous interpretation was provided into the official UNECE languages.

20) and proposed to update its Terms of Reference (GRBP-74-12). GRBP adopted the revised Terms of Reference, as laid down in Annex II.

5. The expert from IWG MU presented a proposal which reduces measurement uncertainties for the ambient conditions, vehicle selections and preparations (ECE/TRANS/WP.29/GRBP/2021/22). GRBP adopted the proposal, subject to the following correction of paragraph 2.1.3.2.2. of Annex 3: "Tests carried out on request of the manufacturer at air temperatures below 5° C shall be accepted as well". GRBP requested the secretariat to submit it for consideration and vote at the March 2022 sessions of WP.29 and AC.1 as draft Supplement 7 to 03 series of amendments to UN Regulation No. 51.

6. The expert from IWG MU briefly introduced a second package of draft amendments to UN Regulation No. 51 (GRBP-74-13). GRBP also noted an updated reference document with a general approach to estimate measurement uncertainties (GRBP-74-11) and was of the view that this document could be applicable to UN Regulations beyond the scope of GRBP.

7. The expert from OICA presented the final report of the tyre performance study undertaken by the European Automobile Manufacturers' Association (ACEA) (GRBP-74-08 and GRBP-74-09). He also presented the outcome of another study on the future sound limits for type approval of vehicles of categories M and N (GRBP-74-27) and pointed out that the final report would be presented to GRBP next year. GRBP agreed to come back to the study in the future and invited experts to directly contact OICA with questions or comments on the study.

8. On behalf of the Informal Working Group on Additional Sound Emission Provisions (IWG ASEP), the expert from Germany reported on their activities (GRBP-74-21) and introduced an updated draft new 04 series of amendments to UN Regulation No. 51 (GRBP-74-22). The Chair invited GRBP experts to study this draft and to provide comments to IWG ASEP.

9. GRBP noted that the Taskforce on Sound Level Limits (TF SL) would be referred to as "Task Force on Vehicle Sound" (TF VS). GRBP noted a TF SL progress report (GRBP-74-39) and draft guidelines (GRBP-74-03-Rev.1) and deferred consideration to the next session.

V. UN Regulation No. 63 (Noise emissions of mopeds) (agenda item 4)

Documentation: ECE/TRANS/WP.29/GRBP/2021/24

10. The expert from IMMA proposed to align the 02 series of amendments to UN Regulation No. 63 with standard ISO10844:2014 (ECE/TRANS/WP.29/GRBP/2021/24). GRBP adopted the proposal and requested the secretariat to submit it for consideration and vote at the March 2022 sessions of WP.29 and AC.1 as draft Supplement 5 to the 02 series of amendments to UN Regulation No. 63.

VI. UN Regulation No. 92 (Replacement exhaust silencing systems for motorcycles) (agenda item 5)

Documentation: ECE/TRANS/WP.29/GRBP/2021/11, Informal document GRBP-74-40

11. The expert from Italy proposed to align UN Regulation No. 92 with the latest amendments to UN Regulation No. 41 and to reduce the number of different exhaust types to be approved (ECE/TRANS/WP.29/GRBP/2021/11 and GRBP-74-40). The experts from Germany, the United Kingdom of Great Britain and Northern Ireland and EC were not able to support the proposal. GRBP asked the expert from Italy to liaise with these experts with the aim to prepare a revised proposal for the next session.

VII. UN Regulation No. 138 (Quiet road transport vehicles) (agenda item 6)

Documentation: ECE/TRANS/WP.29/GRBP/2021/14, Informal documents GRBP-74-02, GRBP-74-05, GRBP-74-28

12. The expert from France introduced a proposal that aimed to clarify the interpretation of the requirements concerning the variation of the sound emitted proportionally with the vehicle speed (ECE/TRANS/WP.29/GRBP/2021/14). She also proposed to clarify the testing requirements (GRBP-74-05). GRBP supported in principle these proposals, subject to replacement in GRBP-74-05, paragraph 6.2.3.2. of "≥" with "greater or equal to", but in view of other ongoing activities on UN Regulation No. 138 decided to await further amendment proposals with the aim to combine them into a single package before submitting to WP.29 and AC.1.

13. The expert from Switzerland proposed to prohibit operation of the acoustic vehicle alerting system (AVAS) outside the specification speed range from 0 km/h up to and inclusive 20 km/h (GRBP-74-02). The experts from Germany, ISO and OICA (GRBP-74-28) commented on this proposal. GRBP agreed to revert to this issue at the next session.

14. GRBP recalled that the mandate of the Informal Working Group on Quiet Road Transport Vehicles for the Global Technical Regulation (IWG QRTV GTR) would expire in December 2021 and agreed in principle to extend it for 2 years, subject to a final decision of the Administrative Committee (AC.3) and/or WP.29.

VIII. Tyres (agenda item 7)

A. UN Regulation No. 30 (Tyres for passenger cars and their trailers)

Documentation: ECE/TRANS/WP.29/GRBP/2021/9, Informal document GRBP-74-07

15. The experts from France and EC introduced an updated proposal for the new definition of "radial tyre" (ECE/TRANS/WP.29/GRBP/2021/9). The same definition was also proposed for UN Regulations Nos. 54, 75, 106, 108 and 109 ECE/TRANS/WP.29/GRBP/2021/10. The experts from Canada and the United States of America raised a number of questions on the proposal (GRBP-74-07) and pointed out that they had started consultations with the authors. GRBP invited the stakeholders, in liaison with ETRTO, to continue discussions and agreed to come back to the proposal at the next session.

B. UN Regulation No. 54 (Tyres for commercial vehicles and their trailers)

Documentation: ECE/TRANS/WP.29/GRBP/2021/13

16. The expert from France proposed to clarify the use of additional load/speed combination for a tyre type (ECE/TRANS/WP.29/GRBP/2021/13). The experts from ETRTO and the United Kingdom of Great Britain and Northern Ireland pointed out that they were developing other draft amendments to UN Regulation No. 54. Awaiting other proposals for amendments, GRBP decided to continue consideration at the next session.

C. UN Regulation No. 108 (Retreaded tyres for passenger cars and their trailers)

Documentation: ECE/TRANS/WP.29/GRBP/2021/15, Informal documents GRBP-74-29-Rev.1 and GRBP-74-35-Rev.1

17. The experts from France, the Netherlands and BIPAVÉR proposed to align the provisions for retreaded tyres with the previously adopted proposals for UN Regulations Nos. 30 and 117 and to cover all tread materials (ECE/TRANS/WP.29/GRBP/2021/15). The

expert from ETRTO commented on the proposal and suggested further modifications (GRBP-74-29-Rev.1 and GRBP-74-35-Rev.1). GRBP adopted the proposal, subject to the amendments in Annex III, and requested the secretariat to submit it for consideration and vote at the March 2022 sessions of WP.29 and AC.1 as draft Supplement 6 to UN Regulation No. 108.

D. UN Regulation No. 109 (Retreaded tyres for commercial vehicles and their trailers)

Documentation: ECE/TRANS/WP.29/GRBP/2021/16,
ECE/TRANS/WP.29/GRBP/2021/18, Informal documents GRBP-74-06, GRBP-74-29-Rev.1, GRBP-74-30-Rev.2 and GRBP-74-34

18. The experts from France, the Netherlands and BIPAVÉR proposed to align the provisions for retreaded tyres with the previously adopted proposals for UN Regulations Nos. 54 and 117 and to cover all tread materials (ECE/TRANS/WP.29/GRBP/2021/16). The expert from ETRTO commented on the proposal and suggested further modifications (GRBP-74-29-Rev.1 and GRBP-74-30-Rev.2). GRBP adopted the proposal with the amendments in Annex IV and requested the secretariat to submit it for consideration and vote at the March 2022 sessions of WP.29 and AC.1 as draft Supplement 11 to UN Regulation No. 109.

19. The expert from France tabled a proposal with the aim to allow, under certain conditions of traceability, upgrading of the service description of a used casing (ECE/TRANS/WP.29/GRBP/2021/18). GRBP adopted the proposal and requested the secretariat to submit it for consideration and vote at the March 2022 sessions of WP.29 and AC.1 as draft Supplement 11 to UN Regulation No. 109.

20. GRBP noted GRBP-74-06 and GRBP-74-34 and invited the expert from France to submit these proposals to the next session in the form of an official document.

E. UN Regulation No. 117 (Tyre rolling resistance, rolling noise and wet grip)

Documentation: ECE/TRANS/WP.29/GRBP/2021/12,
ECE/TRANS/WP.29/GRBP/2021/17, Informal documents GRBP-74-04, GRBP-74-31-Rev.1, GRBP-74-33-Rev.1, GRBP-74-41 and GRBP-74-42

21. The expert of ETRTO tabled draft amendments that introduced an "ice grip tyre" definition and editorial corrections (ECE/TRANS/WP.29/GRBP/2021/17). GRBP adopted the proposal, as amended by GRBP-74-31-Rev.1, and requested the secretariat to submit it for consideration and vote at the March 2022 sessions of WP.29 and AC.1 as draft Supplement 14 to the 02 series of amendments to UN Regulation No. 117.

22. The experts from IWG for Wet Grip on Worn Tyres (WGWT) reported on their progress (GRBP-74-41) and presented updated Terms of Reference of IWG WGWT (GRBP-74-42). GRBP adopted the revised Terms of Reference, as contained in Annex V.

23. The expert from France, in her capacity of Co-Chair IWG WGWT, presented draft amendments that introduced a procedure and thresholds on wet grip performance for C1 tyres in worn state (ECE/TRANS/WP.29/GRBP/2021/12, as updated by GRBP-74-33-Rev.1). GRBP adopted GRBP-74-33-Rev.1 and requested the secretariat to submit it for consideration and vote at the March 2022 sessions of WP.29 and AC.1 as a new draft 03 series of amendments to UN Regulation No. 117. GRBP noted that, with the aim to complete the proposal and remove few square brackets, an informal document would be prepared for the next session. If adopted, this document would also be submitted to the March 2022 sessions of WP.29 and AC.1. GRBP noted that, to avoid possible uncertainty, the adopted draft Supplement 14 to the 02 series of amendments (see para. 21 above) would be explicitly included in the future WP.29 document with the new draft 03 series of amendments to UN Regulation No. 117.

24. GRBP considered GRBP-74-04 and invited the expert from France to liaise with the experts from ETRTO with the aim to prepare a working document for the next session.

F. UN Regulation No. 141 (Tyre pressure monitoring system)

Documentation: ECE/TRANS/WP.29/GRBP/2021/19,
ECE/TRANS/WP.29/GRBP/2021/20, Informal documents GRBP-74-25, GRBP-74-26 and GRBP-74-37

25. On behalf of the Task Force on Tyre Pressure Monitoring System and on Tyre Installation (TF TPMSTI), the expert from EC briefed GRBP on their progress (GRBP-74-25) and proposed amendments that aimed to align the transitional provisions in UN Regulation No. 141 with those in European Union Regulation 2019/2144 (ECE/TRANS/WP.29/GRBP/2021/19). GRBP adopted the proposal and requested the secretariat to submit it for consideration and vote at the March 2022 sessions of WP.29 and AC.1 as draft Supplement 1 to the 01 series of amendments to UN Regulation No. 141.

26. The expert from TF TPMSTI presented further amendments to UN Regulation No. 141 that introduced an alternative procedure for type approval of trailers (vehicles of categories O₃ and O₄), regarding their Tyre Pressure Monitoring System (TPMS), Tyre Pressure Refilling System (TPRS) and Central Tyre Inflation System (CTIS) (ECE/TRANS/WP.29/GRBP/2021/20). GRBP adopted these proposals, as amended by GRBP-74-37, and requested the secretariat to submit them for consideration and vote at the March 2022 sessions of WP.29 and AC.1 as part of draft Supplement 1 to the 01 series of amendments to UN Regulation No. 141

27. GRBP generally supported GRBP-74-26 and invited TF TPMSTI to submit it to the next session in the form of an official document.

G. UN Regulation No. 142 (Tyre installation)

Documentation: ECE/TRANS/WP.29/GRBP/2021/21

28. The expert of TF TPMSTI proposed amendments that aimed to align the transitional provisions in UN Regulation No. 142 with those in European Union Regulation 2019/2144 (ECE/TRANS/WP.29/GRBP/2021/21). GRBP adopted the proposal and requested the secretariat to submit it for consideration and vote at the March 2022 sessions of WP.29 and AC.1 as draft Supplement 1 to the 01 series of amendments to UN Regulation No. 142.

H. Draft UN Regulation on studded tyres

Documentation: ECE/TRANS/WP.29/GRBP/2021/5/Rev.1, Informal documents GRBP-74-15, GRBP-74-16, GRBP-74-17 and GRBP-74-32

29. The expert from Finland reported on the progress of the Task Force on Studded Tyres (TF ST) (GRBP-74-15) and introduced updated Guidelines for TF ST (GRBP-74-17). GRBP adopted these Guidelines.

30. The expert from Finland presented a revised proposal for a new UN Regulation on studded tyres that had been prepared by TF ST (ECE/TRANS/WP.29/GRBP/2021/5/Rev.1). The expert from ETRTO suggested several modifications to the proposal (GRBP-74-32). GRBP adopted ECE/TRANS/WP.29/GRBP/2021/5/Rev.1 as amended by GRBP-74-32 and requested the secretariat to submit it for consideration and vote at the March 2022 sessions of WP.29 and AC.1 as a new draft UN Regulation.

31. GRBP noted that, as a next step, TF ST would elaborate a proposal to introduce an ice grip symbol for tyres of class C1 (GRBP-74-16).

IX. Draft UN Regulation on reversing alarm (agenda item 8)

Documentation: Informal documents GRBP-74-23 and GRBP-74-24

32. On behalf of the Task Force on Reverse Warning (TF RW), the expert from OICA reported on the progress of TF RW (GRBP-74-23) and briefly introduced a proposal for a new UN Regulation on reversing alarm (GRBP-74-24) which would be submitted as an official document to the next session. GRBP encouraged all experts to consider GRBP-74-24 and to provide comments to TF RW.

X. Exchange of information on national and international requirements on noise levels (agenda item 9)

33. No issues were considered under this item.

XI. Proposal for amendments to the Consolidated Resolution on the Construction of Vehicles (agenda item 10)

34. No issues were considered under this item.

XII. Development of the International Whole Vehicle Type Approval system (agenda item 11)

35. No new information was provided.

XIII. Highlights of the recent sessions of the World Forum for Harmonization of Vehicle Regulations (agenda item 12)

Documentation: Informal document GRBP-74-14

36. GRBP took note of the highlights of the June 2021 session of WP.29 on GRBP and common issues (GRBP-74-14).

XIV. Exchange of views on the future work of the Working Party on Noise and Tyres (agenda item 13)

Documentation: Informal document GRBP-74-38

37. The Chair presented an updated list of GRBP priorities (GRBP-74-38) and announced his intention to convene, at the beginning of October 2021, an online informal meeting on the issue. GRBP commented on the list and requested its Chair to circulate a revised document as soon as possible. GRBP also noted that priority items would be submitted to WP.29 for inclusion into the WP.29 programme of work for the years 2022-2023.

XV. Other business (agenda item 14)

Documentation: Informal documents GRBP-74-18, GRBP-74-36 and GRBP-74-44-Rev.1

38. The expert from EC provided an update on the ongoing study of the impact assessment of Euro 5 sound emissions level limits for L-category vehicles (GRBP-74-36).

39. Based on GRBP-74-44-Rev.1, GRBP adopted a list of main decisions (Annex VI) in accordance with silence procedure.

40. GRBP was informed that Mr. H. Berger (Switzerland) and Mr. M. Klopotek von Glowczewski (OICA) would no longer attend GRBP meetings, due to impending retirement. GRB thanked them for their valuable contributions and wished them success in the future.

41. Due to lack of time, GRBP postponed consideration of GRBP-74-18 to the next session.

XVI. Provisional agenda for the next session (agenda item 15)

42. For its seventy-fifth session, scheduled to be held in Geneva from 8 to 11 February 2022, GRBP decided to keep the same structure for the provisional agenda. GRBP noted that the deadline for the submission of official documents to the secretariat would be 15 November 2021, twelve weeks prior to the session.

XVII. Election of officers (agenda item 16)

43. In compliance with Rule 37 of the Rules of Procedure (TRANS/WP.29/690/Rev.2), GRBP called for the election of officers. The representatives of the Contracting Parties, present and voting, elected unanimously Mr. Serge Ficheux (France) as Chair and Mr. Andrei Bocharov (Russian Federation) as Vice-Chair for the sessions of GRBP scheduled for the year 2022.

Annex I

List of informal documents (GRBP-74-...) distributed during the session

<i>Symbol</i>	<i>Transmitted by</i>	<i>Agenda item</i>	<i>Language</i>	<i>Title</i>	<i>Follow-up</i>
1-Rev.1	Secretariat	1	E	Updated provisional agenda for the seventy-fourth session	a
2	Switzerland		E	Proposal for Supplement 3 to the 01 series of amendments to UN Regulation No. 138	c
3-Rev.1	TF VS	3	E	Guidelines for the Task Force on Vehicle Sound	c
4	France		E	Proposal for amendments to the 02 series of amendments to UN Regulation No. 117	c
5	France		E	Proposal for amendments to the 01 series of amendments to UN Regulation No. 138	d
6	France		E	Proposal for amendments to the 00 series of amendments to UN Regulation No. 109	c
7	Canada and USA		E	Comments on ECE/TRANS/WP.29/GRBP/2021/9	c
8	OICA	3	E	Foreword to the ACEA tyre performance study	a
9	OICA	3	E	ACEA tyre performance study report	c
10-Rev.1	Chair	1	E	Draft running order	a
11	IWG MU	3	E	Draft document of reference: a general approach to estimate measurement uncertainties	c
12	IWG MU	3	E	Revised Terms of Reference	d
13	IWG MU	3	E	Proposal to introduce a temperature correction for the tyre rolling sound component of pass-by tests according to UN Regulation No. 51, Annex 3	c
14	secretariat		E	General information and WP.29 highlights	a
15	TF ST		E	Status report	a
16	TF ST		E	Proposal to introduce an ice grip symbol for C1 tyres	c
17	TF ST		E	Updated draft guidelines for the Task Force on Studded Tyres	a
18	IWG DETA		E	Proposal for extension of DETA to improve the use of the Unique Identifier for UN Regulations	c
19	secretariat		E	Webex guidelines	a
20	IWG MU		E	Status report	a
21	IWG ASEP		E	Status report	a
22	IWG ASEP		E	Updated draft 04 series of amendments to UN Regulation No. 51	c
23	TF RWS		E	Status report	a
24	TF RWS		E	Draft UN Regulation on the approval of audible reverse warning devices and of motor vehicles with regard to their audible reverse warning signals	c
25	TF TPMSTI		E	Status report	a
26	TF TPMSTI		E	Proposal for Supplement 3 to the 01 series of amendments to UN Regulation No. 141	c

<i>Symbol</i>	<i>Transmitted by</i>	<i>Agenda item</i>	<i>Language</i>	<i>Title</i>	<i>Follow-up</i>
27	OICA		E	Study on future sound limits values for type approval of vehicles of categories M and N	c
28	OICA		E	Comments on the Switzerland's proposal (GRBP-74-02)	b
29-Rev.1	ETRTO		E	Comments on documents ECE/TRANS/WP.29/GRBP/2021/15 and ECE/TRANS/WP.29/GRBP/2021/16	d
30-Rev.2	ETRTO		E	Proposal to amend document ECE/TRANS/WP.29/GRBP/2021/16	d
31-Rev.1	ETRTO		E	Proposal for amendments to the 02 series of amendments to UN Regulation No. 117	d
32	ETRTO		E	Proposal for amendments to the draft new UN Regulation on the uniform provisions concerning the approval of studded tyres with regard to their snow performance	d
33-Rev.1	IWG WGWT		E	Proposal to amend document ECE/TRANS/WP.29/GRBP/2021/12	d
34	France		E	Summary of GRBP-74-06	c
35-Rev.1	ETRTO		E	Proposal to amend document ECE/TRANS/WP.29/GRBP/2021/15	d
36	EC		E	Technical support for the impact assessment on Euro 5 step of L-category sound emissions level limits	a
37	TF TPMSTI		E	Proposal for amendments to ECE/TRANS/WP.29/GRBP/2021/20	d
38	Chair		E	GRBP priorities	c
39	TF VS		E	Status report	c
40	Italy		E	Presentation of ECE/TRANS/WP.29/GRBP/2021/11	b
41	IWG WGWT		E	Status report	a
42	IWG WGWT		E	Proposal for revised Terms of Reference	d
43	IMMA		E	Proposal to amend ECE/TRANS/WP.29/GRBP/2021/23	d
44-Rev.1	secretariat		E	Draft list of main decisions	a

Notes:

- a Consideration completed or superseded.
- b Continue consideration at the next session with an official symbol.
- c Continue consideration at the next session as an informal document.
- d Adopted and to be submitted to WP.29.

Annex II

Revised Terms of Reference of the Informal Working Group on Measurement Uncertainties (based on GRBP-74-12)

A. Introduction

1. In line with ECE/TRANS/WP.29/GRB/68, para. 8, this document establishes the Terms of Reference of the Informal Working Group on Measurement Uncertainties (IWG MU).
2. The aim of IWG MU is to propose harmonized measures for evaluating systematic and random errors in order to improve the test procedures in at least UN Regulations Nos. 51 and 117 (for rolling sound emissions only) by reducing measurement uncertainties.

B. Objectives

3. IWG MU shall develop and propose harmonized measures for evaluating systematic and random errors based on the International Organization of Standardisation (ISO) Guide to the expression of uncertainty in measurement (GUM 98-3).
4. The scope and purpose of IWG MU shall cover at least UN Regulation Nos. 51 and 117. IWG MU shall develop harmonized technical requirements for these UN Regulations with consideration of their test procedures.
5. IWG MU shall, where appropriate, develop a practice guide for compensation and/or correction factors.
6. A general approach shall then be made in such a way that it would be possible to use it for improving the test procedures in other UN Regulations. This approach could be either documented in the Consolidated Resolution on the Construction of Vehicles (R.E.3) or as a reference document.
7. IWG MU shall report to GRBP.

C. Rules of Procedure

8. IWG MU is open to all participants of GRBP. However, it is recommended that a maximum of two technical experts per country and organization participate in IWG. IWG will be chaired by Norway. OICA shall act as Secretary.
9. The working language shall be English.
10. All documents and/or proposals shall be submitted to the Secretary in a suitable electronic format at least one week before the session.
11. An agenda and the latest draft documents shall be circulated to the members of IWG in advance of all scheduled meetings.
12. All IWG documents shall be made available on a dedicated ECE website.
13. Decisions of IWG MU shall be reached by consensus. When consensus cannot be reached, the IWG Chair shall present the different points of view to GRBP and seek guidance as appropriate.

D. Timeline

14. The aim of IWG MU is to present:
 - For the seventy-third session of GRBP in January 2021: a draft reference document and an informal document with amendments to UN Regulation No. 51 (done).

- For consideration and adoption at the seventy-fourth session of GRBP in September 2021: an official document with amendments to UN Regulation No. 51 (done: document ECE/TRANS/WP.29/GRBP/2021/22 with draft Supplement 7 to the 03 series of amendments to UN Regulation No. 51 was submitted).
- For consideration at the seventy-fourth session of GRBP in September 2021: an informal document with general guidelines on how to improve the test procedures in other UN Regulations under the auspices of GRBP in order to reduce measurement uncertainties.
- For consideration and adoption at the seventy-fifth session in January 2022: an informal document with amendments to UN Regulation No. 117 and an official document with general guidelines on how to improve the test procedures in other UN Regulations in order to reduce measurement uncertainties.
- For consideration and adoption at the seventy-sixth session of GRBP in September 2022: an official document with amendments to UN Regulation No. 117 on tyre noise.

Annex III

Adopted amendments to ECE/TRANS/WP.29/GRBP/2021/15

Paragraph 2.49., amend to read:

- "2.49. *"Standard Reference Test Tyre* ~~(SRTT)~~ **or "SRTT"** means a tyre that is produced, controlled and stored in accordance with the ~~American Society for Testing and Materials (ASTM)~~ standards **of ASTM International:**
- (a) E1136 – 17 for the size P195/75R14 and referred to as "SRTT14",
 - ~~(b) F2872 – 16 for the size 225/75R16C and referred to as "SRTT16C",~~
 - (b) F2493-20 for the size P225/60R16 and referred to as "SRTT16",**

Insert a new paragraph 3.2.6.2., to read:

- "3.2.6.2. The inscription "ET" and/or "POR" if the tyre is classified in the category of use "Special use. In addition, they may also bear the inscription M+S or M.S or M&S.**

ET means Extra Tread and POR means Professional Off Road."

Insert a new paragraph 3.5.1. to read:

- "3.5.1. The markings shall be situated in the lower area of the tyre on at least one of its sidewalls, except for the inscriptions mentioned in paragraphs 3.2.1. and 3.2.6.1."**

Paragraph 6.6.3.1., amend to read:

- "6.6.3.1. For tyres retreaded by using pre-cured tread material(s) **or an identical tread pattern design in a mould cure product** with a tread pattern not covered by paragraph 6.6.3.2. having to fulfil the requirements of paragraph 7.2.* the retreader shall ensure that the material manufacturer(s) or the material supplier(s) of the pre-cured tread material provides:~~(a) T~~ to the Type Approval Authority and the Technical Service issuing the approval according to this regulation and optionally to the retreader:
- ~~(i)~~**(a)** A copy of the test report(s) as in Annex 9, Appendix 2 of the representative tyre size(s) (see definitions in paragraph 2.) demonstrating compliance of the precured tread(s) to the requirements of paragraph 7.2.;
 - ~~(b) — To the retreader:~~
 - ~~(ii)~~**(b)** The list(s) of tyre sizes to which it can be applied for the retreading process and validated by the same designated Technical Service and Type Approval Authority which issued the test report **requested** in paragraph 6.6.3.1.(a) The list(s) shall include at least the tyres defined in paragraph 4.1.4.3.1.1.
 - ~~(iii)~~**(c)** A copy of the measures taken to ensure the conformity of production. These measures shall include test results demonstrating that the minimum levels of the snow performances required in paragraph 7.2.1. will be maintained and demonstration periodically the compliance with the requirement defined in paragraph 9.2.3 or 9.4.3.
 - (d) In case of mould cure product, the material manufacturer(s) or the material supplier(s) shall provide, in addition: the drawing(s) of the tread pattern(s) including the major features with respect to the snow performance to demonstrate the tread is technically identical to the pre-cured version with respect to the snow performance;"**

Paragraph 6.6.3.2., amend to read:

- 6.6.3.2. For tyres retreaded by using either mould cure or pre-cured tread material(s) with the same major features including tread pattern(s) as a new tyre type approved according to UN Regulation No. 117 having fulfilled the requirements about minimum snow performance in severe snow conditions, the retreader shall ensure that the manufacturer of the new tyre type provides:
- ~~(a) To~~ the Type Approval Authority and Technical Service issuing the approval according to this regulation and optionally to the retreader:
 - (a) A ~~a~~ copy of the UN Regulation No. 117 certificate(s) and a copy of the appropriate test report(s) issued by a designated Technical Service** demonstrating compliance of the new tyre to the minimum snow performance in severe snow conditions.
 - ~~(b) — To the retreader:~~
 - ~~(i)~~(b) The list(s) of tyre sizes to which it can be applied for the retreading process and validated by the same designated Technical Service** and/or Type Approval Authority that issued the UN Regulation No. 117 certificate(s). The list(s) shall include at least the tyres defined in paragraph 4.1.4.3.1.2.
 - ~~(ii)~~(c) The drawing(s) of the tread pattern(s) covered by the UN Regulation No. 117 certificate(s) **including the major features with respect to the snow performance;**
 - ~~(iii)~~(d) A copy of the last report of the conformity of production as required in UN Regulation No. 117 and demonstration periodically the compliance with the requirement defined in paragraph 9.2.4. or paragraph 9.4.4.

Insert a new paragraph 6.6.3.3., to read:

- 6.6.3.3. For tyres retreaded by using mould cure tread material(s) and design(s) not covered by paragraphs 6.6.3.1. or 6.6.3.2. in case of mould cure and pre-cured, having to fulfil the requirements of paragraph 7.2.*, the retreader shall provide to the Type Approval Authority (TAA) and the Technical Service issuing the approval according to this Regulation:**
- (a) **A copy of the test report(s) as in Annex 10, Appendix 2 and/or 3 of the representative tyre size(s) (see definition in paragraph 2.) demonstrating compliance of the mould cure tread(s) to the requirements of paragraph 7.2.;**
 - (b) **The list(s) of tyre sizes to which it can be applied for the retreading process and validated by the same designated Technical Service and TAA which issued the test report(s) requested in paragraph 6.6.3.3. (a). The list(s) shall include at least the tyres defined in paragraph 4.1.4.3.1.3.;**
 - (c) **A copy of the measures taken to ensure the conformity of production. These measures shall include test results demonstrating that the minimum levels of the snow performances required in paragraph 7.2.1. will be maintained and demonstrating periodically the compliance with the requirement defined in paragraph 9.2.2. or 9.4.2.;**
 - (d) **The drawing(s) of the tread pattern(s) including the major features with respect to the snow performance."**

Annex IV

Adopted amendments to ECE/TRANS/WP.29/GRBP/2021/16

Former paragraph 2.26.3., renumber as 2.26.4.

Former paragraph 2.26.3.1., renumber as 2.26.4.1.

Former paragraph 2.26.4., renumber as 2.26.5.

Paragraph 2.5247., amend to read:

"2.5247. *"Standard Reference Test Tyre*~~(SRTT)~~*" or "SRTT" means a tyre that is produced, controlled and stored in accordance with the* ~~American Society for Testing and Materials (ASTM)~~ *standards of ASTM International:*

- ~~(a)~~ E1136—17 for the size P195/75R14 and referred to as "SRTT14",
- ~~(b)~~ F2872 – 16 for the size 225/75R16C and referred to as "SRTT16C",
- ~~(c)~~ F2871 – 16 for the size 245/70R19.5 and referred to as "SRTT19.5",
- ~~(d)~~ F2870 – 16 for the size 315/70R22.5 and referred to as "SRTT22.5",
- ~~(e)~~ F2493—18 **F2493 – 20 for the size P225/60R16 and referred to as "SRTT16".**

"3.5.1. The markings shall be situated in the lower area of the tyre on at least one of its sidewalls, except for the inscriptions mentioned in paragraph paragraphs 3.2.1., 3.2.2., 3.2.8.1., 3.2.18."

6.4.4.2. For tyres retreaded by using either mould cure or pre-cured tread material(s) with the same major features including tread pattern(s) as a new tyre type approved according to UN Regulation No. 117 having fulfilled the requirements about minimum snow performance in severe snow conditions, the retreader shall ensure that the manufacturer of the new tyre type provides:

- ~~(a)~~ **(a)** A copy of the UN Regulation No. 117 certificate(s) and a copy of the compliance of the new tyre to the minimum snow performance in severe snow conditions.
- ~~(b)~~ **(b)** ~~To the retreader:~~
- ~~(i)~~ **(i)** The list(s) of tyre sizes to which it can be applied for the retreading process and validated by the same designated Technical Service** and/or Type Approval Authority that issued the UN Regulation No. 117 certificate(s). The list(s) shall include at least the tyres defined in paragraph 4.1.5.3.1.2.;
- ~~(ii)~~ **(ii)** The drawing(s) of the tread pattern(s) covered by the UN Regulation No 117 certificate(s) **including the major features with respect to the snow performance;**
- ~~(iii)~~ **(iii)** A copy of the last report of the Conformity of Production as required in UN Regulation No. 117 and demonstrating periodically the compliance with the requirement defined in paragraph 9.2.4. or 9.4.4."

Insert a new paragraph 6.4.4.3., to read:

"6.4.4.3. For tyres retreaded by using mould cure tread material(s) and design(s) not covered by paragraphs 6.4.4.1. or 6.4.4.2., having to fulfil the requirements of paragraph 7.2.*, the retreader shall provide to the Type Approval Authority (TAA) and the Technical Service issuing the approval according to this Regulation:

- (a) A copy of the test report(s) as in Annex 10, Appendix 2 and/or 3 of the representative tyre size(s) (see definition in paragraph 2.) demonstrating compliance of the mould cure tread(s) to the requirements of paragraph 7.2.;
- (b) The list(s) of tyre sizes to which it can be applied for the retreading process and validated by the same designated Technical Service and TAA which issued the test report(s) requested in paragraph 6.4.4.3. (a). The list(s) shall include at least the tyres defined in paragraph 4.1.5.3.1.3.;
- (c) A copy of the measures taken to ensure the conformity of production. These measures shall include test results demonstrating that the minimum levels of the snow performances required in paragraph 7.2.1. will be maintained and demonstrating periodically the compliance with the requirement defined in paragraph 9.2.2. or 9.4.2.;
- (d) The drawing(s) of the tread pattern(s) including the major features with respect to the snow performance.

Insert new paragraphs 7.3. to 7.5., to read:

- "7.3. In order to be classified as a "traction tyre", a tyre is required to meet the conditions of paragraph 7.3.1. below.**
- 7.3.1. The tyre shall have a tread pattern with minimum two circumferential ribs, each containing a minimum of 30 block-like elements, separated by grooves and/or sipe elements the depth of which has to be minimum of one half of the tread depth. The use of an alternative option of a physical test will only apply at a later stage following a further amendment to the Regulation including a reference to an appropriate test methods and limit values.**
- 7.4. In order to be classified as a "special use tyre" a tyre shall have a block tread pattern in which the blocks are larger and more widely spaced than for normal tyres and have the following characteristics:**
- For C2 tyres: a tread depth ≥ 11 mm and void to fill ratio ≥ 35 per cent**
- For C3 tyres: a tread depth ≥ 16 mm and void to fill ratio ≥ 35 per cent**
- 7.5. In order to be classified as a 'professional off-road tyre', a tyre shall have all of the following characteristics:**
- (a) **For C1 and C2 tyres:**
 - (i) **A tread depth ≥ 11 mm;**
 - (ii) **A void-to-fill ratio ≥ 35 per cent;**
 - (iii) **A maximum speed rating of $\leq Q$.**
 - (b) **For C3 tyres:**
 - (i) **A tread depth ≥ 16 mm;**
 - (ii) **A void-to-fill ratio ≥ 35 per cent;**
 - (iii) **A maximum speed rating of $\leq K$."**

Annex 3,

Insert a new subparagraph 3. (e) (f) to read:

"(e)(f) If there are two indications for the test inflation pressure, they must be placed in such a way that it is clear which pressure indication belongs to which load/speed combination."

Annex 10 7 – Appendix 2, Part 1, Report, amend to read:

" ...
 5. Tyre class:
 6. Category of use:
 7. Snow grip index ~~SG~~ relative to SRTT according to ~~paragraph 6.4.1.1.~~
 7.1. Test procedure and SRTT used
 8. Comments (if any):
 ..."

Annex 10 ~~7~~ – Appendix 2, Part 2, Test data, amend to read:

" ...
 5. Test results: mean fully developed decelerations ($m \cdot s^{-2}$) / traction coefficient⁽³⁾

Run number	Specification	SRTT _(1st test)	Candidate 1	Candidate 2	SRTT _(2nd test)
1					
2					
3					
4					
5					
6					
Mean					
Standard deviation					
Coefficient of variation	$CV_a \leq 6\%$				
Coefficient of Validation	$CVal_a(SRTT) \leq 5\%$				
SRTT weighted average					
Factor <i>f</i>					
Snow grip index		1.00			

(1) for C2 tyres, corresponding to the indication of the inflation pressure marked on the sidewall as required by paragraph ~~4.1.~~ **3.1.** of this Regulation

" ..."

Annex V

Revised Terms of Reference of the Informal Working Group for Wet Grip on Worn Tyres (based on GRBP-74-42)

A. Introduction

1. At the sixty-ninth session of the Working Party on Noise (GRB), it was pointed out that the wet grip performance of tyres decreases with tyre wear, so the current testing (performed on new tyres) does not represent the worst-case situation. The process of adapting the requirements on tyres should continue, in particular to ensure that tyre performance is also assessed, if relevant, at the end of a tyre's life (in worn state) and to promote the idea that tyres should meet the requirements throughout their life and not be replaced prematurely. UN Regulation No. 117 now contains detailed provisions on noise, rolling resistance and wet grip performance of tyres that can be amended to take into account some other prescriptions.
2. An informal working group (IWG) was created in 2019 to define prescriptions for wet grip performance of tyres in worn state (WGWT).
3. This proposal establishes the updated Terms of Reference for the IWG WGWT.
4. The aim of the group is to propose an amendment to UN Regulation No. 117 under the 1958 Agreement.

B. Objectives

5. The scope and purpose are based on ECE/TRANS/WP.29/GRB/2019/6 and ECE/TRANS/WP.29/GRBP/70, para. 18.
6. The future amendment to UN Regulation No. 117 will apply to new pneumatic tyres of class C1 and will address also the suitable requirements to those of classes C2 and C3.
7. IWG WGWT shall:
 - Consider the scope and elaborate the target;
 - For tyres of Class C1
 - Evaluate the method for preparing a tyre to be tested in worn state at its type-approval;
 - Define the test conditions;
 - Describe the test methods;
 - Define the type-approval thresholds of tyre wet grip performance in worn state;
 - Introduce the moulded special reference test tyre SRTT_{worn};
 - Improve the precision of test procedure by removing the buffing variation of the buffed SRTT_{worn}.
 - Address the suitable requirements for tyres of classes C2 and C3
8. IWG WGWT shall work in the framework of the 1958 Agreement and shall report to GRBP.

C. Rules of Procedure

9. IWG WGWT shall be open to all participants of the Working Party on Noise and Tyres (GRBP).

10. IWG shall be co-chaired by France and the European Commission. The European Tyre and Rim Technical Organisation (ETRTO) shall act as Secretary.
11. The working language will be English.
12. All documents and/or proposals must be submitted to the Secretary of IWG in a suitable electronic format at least one week before a scheduled meeting.
13. An agenda and the latest draft document will be circulated to all members of IWG in advance of all scheduled meetings.
14. All IWG documentation will be made available on the dedicated ECE website.

D. Timeline

15. IWG shall aim to present:
 - a working document on wet grip of tyres of class C1 in worn state for adoption at the seventy-fourth session of GRBP in September 2021,
 - a progress report and an informal document at the seventy-fifth session of GRBP in February 2022 to complete ECE/TRANS/WP.29/GRBP/2021/12 submitted for adoption at the seventy-fourth session of GRBP;
 - two working documents for adoption at the seventy-sixth session of GRBP in September 2022 at the latest:
 - on wet grip of tyres of classes C2 and C3 in worn state;
 - on wet grip of tyres of class C1 in worn state to supplement the initial proposal in ECE/TRANS/WP.29/GRBP/2021/12 to improve the precision of the test procedure by removing the buffing variation of the buffed SRTT worn tyre with the introduction of the moulded SRTT worn tyre.

Annex VI

Decisions adopted under silence procedure

<i>Decision No.</i>	<i>Agenda Item</i>	<i>Decision</i>
1	1	GRBP adopted the provisional agenda ECE/TRANS/WP.29/GRBP/2021/8 together with informal documents listed in GRBP-74-01
2	2	GRBP adopted ECE/TRANS/WP.29/GRBP/2021/23, as amended by GRBP-74-43, and requested the secretariat to submit it for consideration and vote at the March 2022 sessions of WP.29 and AC.1 as draft Supplement 2 to the 08 series of amendments to UN Regulation No. 9
3	4	GRBP adopted ECE/TRANS/WP.29/GRBP/2021/24 and requested the secretariat to submit it for consideration and vote at the March 2022 sessions of WP.29 and AC.1 as draft Supplement 5 to the 02 series of amendments to UN Regulation No. 63
4	5	GRBP considered ECE/TRANS/WP.29/GRBP/2021/11 and GRBP-74-40 and invited the expert from Italy to liaise with the experts from Germany, UK and EC with the aim to prepare a revised proposal for the next session
5	3	GRBP adopted revised Terms of Reference of IWG MU (GRBP-74-12)
6	3	GRBP adopted ECE/TRANS/WP.29/GRBP/2021/22, subject to the following correction of paragraph 2.1.3.2.2. of Annex 3: "Tests carried out on request of the manufacturer at air temperatures below 5° C shall be accepted as well". GRBP requested the secretariat to submit it for consideration and vote at the March 2022 sessions of WP.29 and AC.1 as draft Supplement 7 to 03 series of amendments to UN Regulation No. 51
7	6	GRBP supported in principle ECE/TRANS/WP.29/GRBP/2021/14 and GRBP-74-05 (subject to replacement in paragraph 6.2.3.2. of "≥" with "greater or equal to"), but, in view of other ongoing activities on UN Regulation No. 138, decided to await other amendment proposals with the aim to combine them into a single package before submitting them to WP.29 and AC.1
8	6	GRBP noted GRBP-74-02 and GRBP-74-28 and decided to revert to this issue at the next session
9	7 (a)	GRBP noted a new definition of "radial tyre" that had been proposed by France and EC (ECE/TRANS/WP.29/GRBP/2021/9 and ECE/TRANS/WP.29/GRBP/2021/10). Canada and USA raised questions (GRBP-74-07) and indicated that they would need time to study the proposal. GRBP invited the stakeholders to continue bilateral discussions and agreed to defer the proposal to the next session
10	7 (e)	GRBP adopted ECE/TRANS/WP.29/GRBP/2021/17, as amended by GRBP-74-31-Rev.1, and requested the secretariat to submit it for consideration and vote at the March 2022 sessions of WP.29 and AC.1 as draft Supplement 14 to the 02 series of amendments to UN Regulation No. 117
11	7 (e)	GRBP adopted GRBP-74-33-Rev.1 and requested the secretariat to submit it for consideration and vote at the March 2022 sessions of WP.29 and AC.1 as draft new 03 series of amendments to UN Regulation No. 117. GRBP noted that, with the aim to complete the proposal, an informal document would be prepared for the next session. If adopted, this document would also be submitted to the March 2022 sessions of WP.29 and AC.1
12	7 (e)	GRBP adopted revised Terms of Reference of IWG WGWT (GRBP-74-42)
13	7 (f)	GRBP adopted ECE/TRANS/WP.29/GRBP/2021/19 and ECE/TRANS/WP.29/GRBP/2021/20, as amended by GRBP-74-37, and requested the secretariat to submit them for consideration and vote at the March 2022 sessions of WP.29 and AC.1 as draft Supplement 1 to the 01 series of amendments to UN Regulation No. 141
14	7 (g)	GRBP adopted ECE/TRANS/WP.29/GRBP/2021/21 and requested the secretariat to submit it for consideration and vote at the March 2022 sessions of WP.29 and AC.1 as draft Supplement 1 to the 01 series of amendments to UN Regulation No. 142
15	7 (f)	GRBP generally supported GRBP-74-26 and invited TF TPMSTI to submit it to the next session in the form of an official document

16	7 (h)	GRBP adopted ECE/TRANS/WP.29/GRBP/2021/5/Rev.1 as amended by GRBP-74-32 and requested the secretariat to submit it for consideration and vote at the March 2022 sessions of WP.29 and AC.1 as a new draft UN Regulation
17	7 (h)	GRBP adopted revised guidelines of TF ST (GRBP-74-17)
18	7 (d)	GRBP adopted ECE/TRANS/WP.29/GRBP/2021/18 and requested the secretariat to submit it for consideration and vote at the March 2022 sessions of WP.29 and AC.1 as draft Supplement 11 to UN Regulation No. 109
19	7 (d)	GRBP noted GRBP-74-06 and GRBP-74-34 and invited the expert from France to submit the proposals to the next session in the form of an official document
20	7 (c)	GRBP adopted ECE/TRANS/WP.29/GRBP/2021/15 as amended by GRBP-74-29-Rev.1 and GRBP-74-35-Rev.1 and requested the secretariat to submit it for consideration and vote at the March 2022 sessions of WP.29 and AC.1 as draft Supplement 6 to UN Regulation No. 108
21	7 (d)	GRBP adopted ECE/TRANS/WP.29/GRBP/2021/16 as amended by GRBP-74-29-Rev.1 and GRBP-74-30-Rev.2 and requested the secretariat to submit it for consideration and vote at the March 2022 sessions of WP.29 and AC.1 as draft Supplement 11 to UN Regulation No. 109
22	7 (e)	GRBP considered GRBP-74-04 and invited the expert from France to liaise with the experts from ETRTO with the aim to prepare a working document for the next session
23	7 (b)	GRBP considered ECE/TRANS/WP.29/GRBP/2021/13 and decided to revert to this proposal at the next session, awaiting other proposals for amendments to UN Regulation No. 54
24	6	GRBP agreed in principle to extend the mandate of IWG QRTV GTR for 2 years, subject to a final decision of AC.3 and/or WP.29
25	8	GRBP took note of a draft UN Regulation on reversing alarm (GRBP-74-24) and invited all experts to submit their comments, if any, to TF RWS with the aim to prepare an official document for consideration at the next session
26	13	GRBP commented on an updated list of GRBP priorities (GRBP-74-38) and requested its Chair to circulate a revised document as soon as possible. GRBP noted that priority items would be submitted to WP.29 for inclusion into the WP.29 programme of work for the years 2022-2023
27	16	GRBP elected Mr. Serge Ficheux (France) as Chair and Mr. Andrei Bocharov (Russian Federation) as Vice-Chair for the sessions of GRBP scheduled for the year 2022
28	14	GRBP adopted a draft list of main decisions at its 74th session (GRBP-74-44)

Annex VII

GRBP informal groups

<i>Informal group</i>	<i>Chair(s) and Co-Chair(s)</i>	<i>Secretary</i>	<i>Expiry date of the mandate</i>
Quiet Road Transport Vehicles (QRTV) for GTR	Mr. Ezana Wondimneh (USA) Tel: +1 202 366 21 17 Email: Ezana.wondimneh@dot.gov Mr. Ichiro Sakamoto (Japan) Tel:+81 422 41 66 18 Fax:+81 422 76 86 04 Email: i-saka@ntsel.go.jp	Mr. Andreas Vosinis (Directorate General Growth, European Commission) Tel:+ 32 2 2992116 Email: andreas.vosinis@ec.europa.eu	December 2021
Additional Sound Emission Provisions (ASEP)	Mr. Bernd Schüttler (Germany) Phone: +49 228 99300 4372 Fax: +49 228 99300807 4372 Email: bernd.schuettler@bmvi.bund.de Mr. Dongming Xie (China) Phone: +86 22 843 79284 Fax: +86 22 84379259 Email: xiedongming@catarc.ac.cn Mr. Kazuhiro Okamoto (Japan) Phone: +81 422 41 3227 Fax: +81 422 41 3232 Email: k-okamot@shinsa.ntsel.go.jp	Ms. Françoise Silvani (OICA) Tel: +33 1 76 85 05 92 Fax: +33 1 76 86 92 89 Email: francoise.silvani@renault.com	January 2022
Wet Grip performance for Tyres in Worn state (WGWT)	Mrs. Elodie Collot (France) Phone: +33 171 80 17 43 Fax: + 33 1 71 80 17 17 Email: elodie.collot@utacceram.com Mr. Andreas Vosinis (Directorate General Growth, European Commission) Tel:+ 32 2 299 21 16 Email: andreas.vosinis@ec.europa.eu	Mr. Nicolas de Mahieu (ETRTO) Phone: +32 23 44 40 59 Email: info@etrto.org	September 2022
Measurement Uncertainties (IWG MU)	Mr. Truls Berge (Norway) Tel: + 47 905 72 026 Email: truls.berge@sintef.no	Mr. Klaus Neuhaus (OICA) Tel: + 49 170 911 2186 Email: klaus.neuhaus@porsche.de	September 2022