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Working Party on Noise

Seventy-third session

Geneva, 26–29 January 2021 (online)

Report of the Working Party on Noise on its seventy-third 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-third virtual session from 26 to 29 January 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.1): Canada, China, Czech Republic, Finland, France, Germany, Hungary, India, Italy, Japan, Netherlands, Norway, Republic of Korea, Russian Federation, 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), Motorcycle Manufacturers Association (IMMA), International Organization for Standardization (ISO), Imported Tyre Manufacturers Association (ITMA) and International Organization of Motor Vehicle Manufacturers (OICA).

II. Adoption of the agenda (agenda item 1)

Documentation: ECE/TRANS/WP.29/GRBP/2021/1, Informal documents GRBP-73-01 and GRBP-73-06

2. GRBP considered and adopted the agenda (ECE/TRANS/WP.29/GRBP/2021/1, as amended by GRBP-73-01). GRBP noted the running order proposed by the Chair (GRBP-73-06). The list of informal documents is contained in Annex I. The list of GRBP informal groups is reproduced in Annex V.

III. UN Regulation No. 41 (Noise emissions of motorcycles) (agenda item 2)

Documentation: Informal documents GRBP-73-04 and GRBP-73-26

3. The expert from IMMA proposed to correct references in the recent series of amendments (GRBP-73-04). GRBP adopted the proposal and requested the secretariat to submit it for consideration and vote at the June 2021 sessions of WP.29 and AC.1 as a draft Supplement to the 04 and 05 series of amendments to UN Regulation No. 41

4. The expert from EC briefed GRBP on an ongoing study of the impact assessment of Euro 5 sound emissions level limits for L-category vehicles (GRBP-73-26). Several experts invited him to keep GRBP informed of the study progress.

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

Documentation: Informal documents GRBP-73-05, GRBP-73-11, GRBP-73-14-Rev.1, GRBP-73-15, GRBP-73-16, GRBP-73-17, GRBP-73-23 and GRE-73-25

5. The experts from EC, ETRTO and OICA reported on their studies on sound level limits (GRBP-73-23, GRBP-73-11 and GRBP-73-25, respectively). To coordinate such initiatives, GRBP decided to establish a taskforce (TF) and sought a volunteer among the experts from Contracting Parties to take the leadership of TF, while OICA agreed to act as secretary. GRBP considered that TF should address the sound level limits of UN Regulation

¹ GRBP experts participated remotely. On 27 and 29 January 2021, simultaneous interpretation was provided into the official UNECE languages.

No. 51 and, at a later stage, No. 41. To kick-off the TF activities without delay, the Chair pointed out that he could take the lead of TF on a temporary basis, if needed.

6. On behalf of the Informal Working Group on Additional Sound Emission Provisions (IWG ASEP), the expert from Germany introduced a draft new 04 series of amendments to UN Regulation No. 51 (GRBP-73-05). GRBP noted that a revised proposal would be submitted to the next session.

7. 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-73-14-Rev.1) and proposed to update its Terms of Reference (GRBP-73-16). GRBP adopted the revised Terms of Reference, as laid down in Annex II.

8. The experts from IWG MU also presented a draft reference document with a general approach to estimate measurement uncertainties (GRBP-73-15) and draft amendments to the 03 series of amendments to UN Regulation No. 51 (GRBP-73-17).

V. UN Regulation No. 138 (Quiet road transport vehicles) (agenda item 4)

9. The Chair recalled the extension of the mandate of IWG on Quiet Road Transport Vehicles (QRTV) for the Global Technical Regulation (GTR) until December 2021 and invited the expert from the United States of America, being Chair of IWG QRTV GTR, to report on their progress at the next session of GRBP in September 2021.

VI. Tyres (agenda item 5)

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

Documentation: ECE/TRANS/WP.29/GRBP/2021/4, Informal document GRBP-73-20-Rev.1

10. The expert from ETRTO introduced ECE/TRANS/WP.29/GRBP/2021/4. GRBP adopted the proposal and requested the secretariat to submit it for consideration and vote at the June 2021 sessions of WP.29 and AC.1 as a draft Supplement to the 02 series of amendments to UN Regulation No. 30

11. The expert from France proposed a new definition for the radial structure (GRBP-73-20-Rev.1). The expert from ETRTO made a study reservation. GRBP invited the expert from France to prepare, in cooperation with ETRTO, a new working document for the next session.

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

Documentation: ECE/TRANS/WP.29/GRBP/2021/2

12. GRBP noted that the experts of BIPAVER had withdrawn the above document.

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

Documentation: ECE/TRANS/WP.29/GRBP/2021/3, Informal document GRBP-73-21

13. GRBP noted that the experts of BIPAVER had withdrawn ECE/TRANS/WP.29/GRBP/2021/3.

14. The expert from France proposed to update and revise the text of UN Regulation No. 109 (GRBP-73-21). The experts from the Netherlands and BIPAVER commented on the

proposal. GRBP invited the experts from France, Netherlands and BIPAVÉR to cooperate with the aim to prepare a working document for the next session.

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

Documentation: Informal documents GRBP-73-02, GRBP-73-08, GRBP-73-18, GRBP-73-19, GRBP-73-22 and GRBP-73-27-Rev.1

15. On behalf of IWG for Wet Grip on Worn Tyres (WGWT), the expert of France reported on their progress (GRBP-73-18).

16. The expert from EC proposed to include C2 and C3 tyres in the Terms of Reference of IWG WGWT (GRBP-73-02). The expert from ETRTO presented a preliminary assessment of wet grip on worn C2 and C3 tyres (GRBP-73-22) and suggested further modifications to the Terms of Reference (GRBP-73-08). Based on a consolidated proposal in GRBP-73-27-Rev.1, GRBP adopted revised Terms of Reference of IWG WGWT as laid down in Annex III.

17. The expert from ETRTO proposed to introduce in UN Regulation No.117 a definition of "ice tyre" for C1 tyres (GRBP-73-19). The Chair invited ETRTO to submit a working document for consideration at the next session.

E. UN Regulation No. 124 (Replacement wheels for passenger cars)

Documentation: ECE/TRANS/WP.29/GRBP/2021/7

18. The expert from Germany proposed amendments with a view to adapting UN Regulation No. 124 to the current requirements for type approvals (ECE/TRANS/WP.29/GRBP/2021/7). GRBP adopted this proposal and requested the secretariat to submit it for consideration and vote at the June 2021 sessions of WP.29 and AC.1 as a new Supplement to UN Regulation No. 124

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

Documentation: ECE/TRANS/WP.29/GRBP/2021/6, Informal documents GRBP-73-03 and GRBP-73-13

19. GRBP took note of the activities of the Task Force on Tyre Pressure Monitoring System and on Tyre Installation (TF TPMSTI) (GRBP-73-13) and addressed amendment proposals on the requirements for the communication interface between the towing and towed vehicles that had been prepared by TF TPMSTI (ECE/TRANS/WP.29/GRBP/2021/6 and GRBP-73-03).

20. GRBP adopted the proposals and requested the secretariat to include them in a revised document ECE/TRANS/WP.29/2021/10/Rev.1 for consideration and vote at the March 2021 sessions of WP.29 and AC.1 as part of a draft new 01 series of amendments to UN Regulation No. 141.

G. Draft UN Regulation on studded tyres

Documentation: ECE/TRANS/WP.29/GRBP/2021/5, Informal document GRBP-73-07

21. The expert from Finland reported on the progress of the Task Force on Studded Tyres (TF ST) (GRBP-73-07) and introduced a proposal for a new UN Regulation which had been prepared by TF ST (ECE/TRANS/WP.29/GRBP/2021/5). GRBP agreed to revert to the document at the next session, thus giving GRBP experts an opportunity to further study the document and to provide comments.

VII. Draft UN Regulation on reversing alarm (agenda item 6)

Documentation: Informal document GRBP-73-12

22. On behalf of the Task Force on Reverse Warning (TF RW), the expert from Japan reported on the progress of TF RW (GRBP-73-12). GRBP noted that a proposal for a new draft UN Regulation on reversing alarm would be submitted to the next session. Meanwhile, GRBP encouraged all experts to consider GRBP-73-12 and to provide comments to TF RW, in particular on the proposed sound level limits.

VIII. Exchange of information on national and international requirements on noise levels (agenda item 7)

23. GRBP recalled the studies which were introduced under agenda items 2 and 3.

IX. Proposal for amendments to the Consolidated Resolution on the Construction of Vehicles (agenda item 8)

24. No issues were considered under this item.

X. Development of the International Whole Vehicle Type Approval system (agenda item 9)

25. No new information was provided.

XI. Highlights of the recent sessions of the World Forum for Harmonization of Vehicle Regulations (agenda item 10)

Documentation: Informal documents GRBP-73-10 and WP.29-182-11

26. GRBP took note of the highlights of the November 2020 session of WP.29 on GRBP and common issues (GRBP-73-10). In particular, GRBP was informed that WP.29 had revised a transitional provision on the possibility of granting type approvals according to the preceding series of amendments to a UN Regulation (WP.29-182-11).

XII. Exchange of views on the future work of the Working Party on Noise and Tyres (agenda item 11)

Documentation: Informal document GRBP-73-24

27. GRBP noted a revised list of the GRBP priorities (GRBP-73-24) and that the Chair would convene in February 2021 an informal meeting on this issue as well as on the leadership of TF on noise limits.

XIII. Other business (agenda item 12)

Documentation: Informal documents GRBP-71-13-Rev.5, GRBP-73-09 and GRBP-73-28-Rev.1

28. The expert from France presented an updated schedule of meetings that were of interest to GRBP experts (GRBP-71-13-Rev.5).

29. GRBP noted a mistake in the French text of UN Regulation No. 75 (GRBP-73-09) and requested the secretariat to liaise with the UN services to have it corrected.

30. Based on GRBP-73-28-Rev.1, GRBP adopted a list of main decisions (Annex IV) in accordance with silence procedure.

XIV. Provisional agenda for the next session (agenda item 13)

31. For its seventy-fourth session, scheduled to be held in Geneva from 15 to 17 September 2021, 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 28 June 2021, twelve weeks prior to the session.

Annex I

List of informal documents (GRBP-73-...) 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	Secretariat	1	E	Updated provisional agenda for the seventy-third session	(a)
2	EC	5 (d)	E	Proposal for amendments to the Terms of Reference of IWG WGWT	(a)
3	TPMSTI	5 (f)	E	Proposal for amendments to the 01 series of amendments to UN Regulation No. 141 (Tyre pressure monitoring system)	(d)
4	IMMA	2	E	Proposal for amendments to the 04 series of amendments to UN Regulation No.41	(d)
5	IWG ASEP	3	E	Proposal for the 04 series of amendments to UN Regulation No. 51	(c)
6-Rev.1	Chair	1	E	Running order	(a)
7	TF ST	5	E	Status report	(a)
8	ETRTO	5 (d)	E	Proposal for amendments to the Terms of Reference of IWG WGWT	(a)
9	ETRTO	12	E	Proposal for a corrigendum to UN Regulation No. 75 (French version)	(a)
10	Secretariat	10	E	General information and WP.29 highlights	(a)
11	ETRTO	5 (d)	E	Tyre performance study	(a)
12	TF RWS	6	E	Status report	(a)
13	TF TPMSTI	5(f)	E	Status report	(a)
14-Rev.1	IWG MU	3	E	Status report	(a)
15	IWG MU	3	E	Draft document of reference: a general approach to estimate measurement uncertainties	(c)
16	IWG MU	3	E	Revised Terms of Reference	(d)
17	IWG MU	3	E	Proposal for amendments to UN Regulation No. 51, Annex 3	(c)
18	IWG WGWT	5 (d)	E	Status report	(a)
19	ETRTO	5 (d)	E	Proposal to introduce in UN Regulation No.117 an ice tyre definition for tyres of C1 class	(b)
20-Rev.1	France	5 (a)	E	New radial structure definition proposal in UN Regulation No. 30	(c)
21	France	5 (c)	E	Proposal for Supplement 11 to the 00 series of amendments to UN Regulation No. 109	(c)
22	ETRTO	5 (d)	E	Tyre industry preliminary assessment of the wet grip of worn C2 and C3 tyres	(a)
23	EC	3	E	Study on sound level limits of M-and N-category vehicles	(a)
24	Chair	11	E	GRBP priorities	(c)
25	OICA	3	E	Study on future sound limit values	(a)
26	EC	2	E	Technical support for the impact assessment on Euro 5 step of L-category sound emissions level limits	(a)

<i>Symbol</i>	<i>Transmitted by</i>	<i>Agenda item</i>	<i>Language</i>	<i>Title</i>	<i>Follow-up</i>
27-Rev.1	(France, EC and ETRTO)	5 (d)	E	Proposal for revised Terms of Reference of IWG WGWT	(d)
28-Rev.1	Secretariat	12	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-73-16)

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.

- For consideration and adoption at the seventy-fourth session of GRBP in September 2021: an informal document with amendments to UN Regulation No. 117 and an official document with amendments to UN Regulation No. 51.
- 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 official 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.

Annex III

Revised Terms of Reference of the Informal Working Group for Wet Grip on Worn Tyres (based on GRBP-73-27-Rev.1)

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.
 - 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 at the seventy-fifth session of GRBP in January 2022 and a working document on wet grip of tyres of classes C2 and C3 in worn state by the seventy-sixth session of GRBP in September 2022 at the latest.

Annex IV

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/2021/1 together with informal documents listed in GRBP-73-01
2	2	GRBP adopted GRBP-73-04 and requested the secretariat to submit it for consideration and vote at the June 2021 sessions of WP.29 and AC.1 as a draft Supplement to the 04 and 05 series of amendments to UN Regulation No. 41
3	3	GRBP took note of several studies on future noise limits (GRBP-73-11, GRBP-73-23, GRBP-73-25, GRBP-73-26). GRBP decided to establish a taskforce (TF) on this issue and sought a volunteer among experts from Contracting Parties to take the leadership of TF, while OICA agreed to act as secretary. To kick-off the TF activities without delay, the Chair pointed out that he could take the lead of TF on a temporary basis, if needed
4	5 (f)	GRBP adopted ECE/TRANS/WP.29/GRBP/2021/6 and GRBP-73-03 and requested the secretariat to include them in a revised document ECE/TRANS/WP.29/2021/10/Rev.1 for consideration and vote at the March 2021 sessions of WP.29 and AC.1 as a draft new 01 series of amendments to UN Regulation No. 141
5	12	GRBP noted a mistake in the French text of UN Regulation No. 75 (GRBP-73-09) and requested the secretariat to liaise with the UN services to have it corrected
6	5 (a)	GRBP adopted ECE/TRANS/WP.29/GRBP/2021/4 and requested the secretariat to submit it for consideration and vote at the June 2021 sessions of WP.29 and AC.1 as a draft Supplement to the 02 series of amendments to UN Regulation No. 30
7	5 (a)	GRBP considered GRBP-73-20-Rev.1 and invited the expert from France to prepare, in cooperation with ETRTO, a new working document for the next session
8	5 (c)	GRBP considered GRBP-73-21 and invited the experts from France, Netherlands and BIPAVER to cooperate with the aim to prepare a working document for the next session
9	5 (d)	Having considered GRBP-73-02, GRBP-73-08 and GRBP-73-22, GRBP adopted revised Terms of Reference of IWG WGWT as laid down in GRBP-73-27-Rev.1
10	5 (d)	GRBP considered GRBP-73-19 and invited the expert from ETRTO to prepare a working document for the next session
11	5 (e)	GRBP adopted ECE/TRANS/WP.29/GRBP/2021/7 and requested the secretariat to submit it for consideration and vote at the June 2021 sessions of WP.29 and AC.1 as a new Supplement to UN Regulation No. 124
12	5 (g)	GRBP considered ECE/TRANS/WP.29/GRBP/2021/5 and agreed to revert to it at the next session, thus giving GRBP experts an opportunity to further study the document and to provide comments
13	6	GRBP took note of GRBP-73-12 and that a proposal for a new draft UN Regulation on reversing alarm would be submitted to the next session
14	3	GRBP took note of the IWG MU status report (GRBP-73-14-Rev.1) and adopted its revised Terms of Reference (GRBP-73-16).
15	11	GRBP noted a revised list of GRBP priorities (GRBP-73-24) and that the Chair planned to convene in February 2021 an informal meeting on this issue as well as on the leadership of TF on noise limits

Annex V

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.schuetzler@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. Manfred Klopotek von Glowczewski Tel: +46 8 553 82158 Fax: +46 8 553 85604 Email: manfred.klopotek@scania.com	January 2022