Informal document **GRPE-81-20r1e** 81st GRPE, 9-11 June 2020, agenda item 3(b)

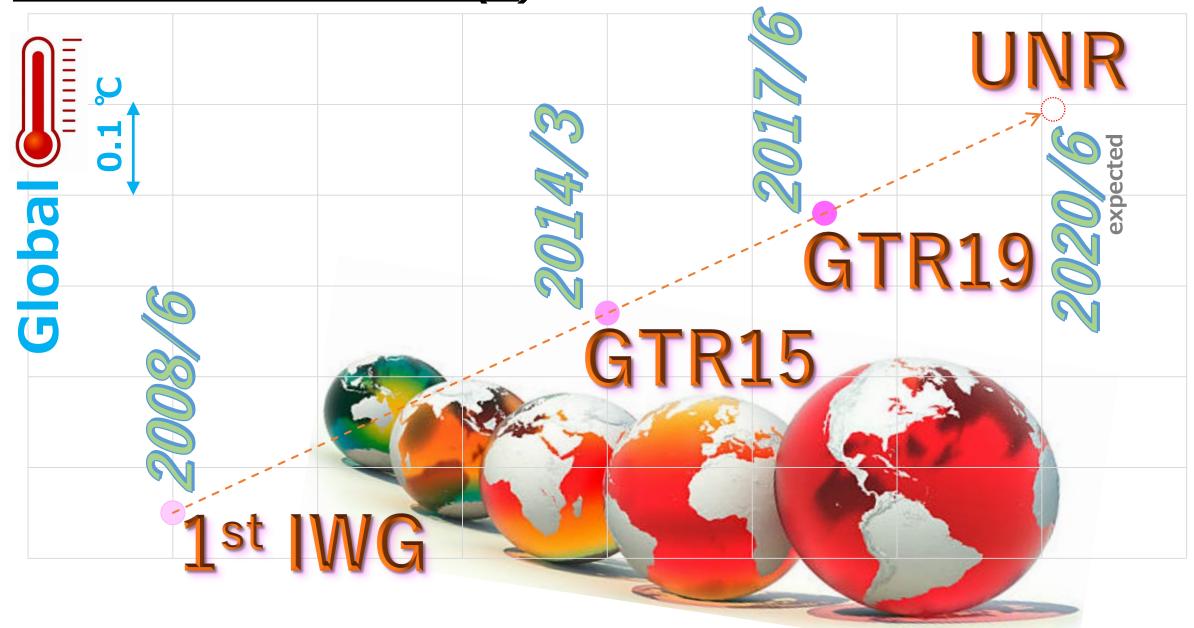
Progress and Final report of the WLTP Informal Working Group

Prepared by WLTP IWG

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1. WLTP IWG Activities (1)



1. WLTP IWG Activities (2)

Since 80th GRPE session

- One (1) face-to face and Two (2) Webex IWG meetings
 - Brussels (18th to 21st February)
 - Webex (14th to 16th April and 4th June)
- Thirty-three (33) Webex meetings of Subgroup and/or TF

As a result,

- Closed all recognised open issues* and reflected into informal document to update the GRPE Working Document to amend GTR 15 (GRPE/2020/14)
 - *) Low Temperature Test Procedure and EVs related
- Updated the WP.29 Working Document to introduce UNR WLTP for approval (ECE/TRANS/WP.29/2020/92&93)

1. WLTP IWG Activities (3)

WD: Working Document

ID: Informal Document

including Collaboration with other IWGs

we are here ∇

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Working Items		2019		2020				
		10	1	3	4	6	10	
UNR	WLTP for GRPE	W	Ds: 2020/3 2020/4	IDs 80-38 80-39				
	WLTP for WP.29				WDs: 2020/77 2020/78 2020/87	WDs: 2020/92 2020/93		
	83-08(/09)							WD
GTR1	5 Amd#6 (Low Temp, OBD,COP, Durability, and upgrade	e)			WD 2020/14		ID	
EVE	HEV system power				WD → is used for co 2020/12	ycle classification of HEVs/PEVs		
PMP	PN sub 23nn	n					ID	

2. Action Lists during 81st GRPE session

Working Items	Expected Actions (informed during 80 th session)	Action List
GTR15 Amd#6	✓ submit Working Documents for approval	request for approval including informal documents which will be merged into working documents
PMP IWG		➤ ask guidance how to merge PMP document into GTR15
UNR WLTP	✓NA	<pre>< for information purpose only > > submit two(2) working documents to WP.29</pre>
UNR83- 08(/09)	✓ submit Working Documents for approval	➤ postpone to 82 nd GRPE

3. Modification of UNR WLTP for WP.29 Approval

Please take a look at Separate Document

4. Overview of GTR15 Amd#6 (1)

Annex 13: Low Temperature Testing



items	CONTENTS			notes	current UNR83	
Scope	All vehicle categories except FCHV			-	Vehicles with petrol fuel only	
Measured Parameter	Gaseous compounds(HC/CO/NOx), Particulate matter, Particle number, CO2, Fuel efficiency, Electric range/consumption			-	HC and CO only	
Family Concept		Power to Mass Ratio selection	most energy consumed configuration	consider the balance between required accuracy and limited	not defined	
and	ICE		-	infrastructure		
Vehicle	NOVC-HEV	✓	-			
Selection	OVC-HEV		✓			
	PEV	-				

4. Overview of GTR15 Amd#6 (2)

Annex 13: Low Temperature Testing



items	CONTENTS	notes	current UNR83
Test Cycle	same as 23℃ test (Type 1)	_	Urban cycle only
Road-Load	apply same dyna. setting value* as Type 1 test *) except aerodynamic coefficient	reflect the technology installed in each vehicle	Type 1 value 0.9
Test Fuel	(e.g. petrol RVP 70~90kPa)	more representative winter condition	(e.g. petrol RVP 56~95kPa)
Auxiliary Devices	Heater, Defrost, Passing-beam headlamps		NONE
Soaking prior to pre-conditioning	ICEs / HEV CS test : can be omitted with authority approval	consider the balance between required accuracy and limited infrastructure	NONE
	HEV CD test & PEVs : MUST	make battery conditions stable	

4. Overview of GTR15 Amd#6 (3)

Annex 8 : Electrified Vehicles

items	CONTENTS	justifications
CO ₂ correction	allow to apply fixed factor as a manufacture option	worst case approach by applying the different alternator coefficient between charge and discharge
factor	family approach for 4 phases test only	combine negligible criteria of interpolation family

Incorporate UNR elements into GTR

Annex	CONTENTS	main sources	purpose	
Annex 10	Requirements when using a reagent for the exhaust after-treatment system	UNR WLTP		
Annex 11	On-Board Diagnostics (OBD)	WP.29/2020/77 WP.29/2020/78	in line with UNR	
Annex 12	Durability Test (Type 5)	WP.29/2020/92 WP.29/2020/93		
Annex 14	Conformity of Production	VV F. 29/ 2020/ 93		

5. Status of Task Force / Sub-Group

TF/SG	Status	Next Actions
UNR	SoA_00/01 COMPLETED	depend on the progress and/or new requirement including UNR83 amendment, if related to WLTP activity
GTR 15 Amendment	Amd#6 COMPLETED	depend on the progress and/or new requirement
SG-EV	a few more step	make the text more robust based on validation exercise
Cycle/Gear Shift		Cycle: incorporate the HEV system power into GTR/UNR Gear Shift: plan to complete tool management
Low Temp.		transpose to UNR make the text more robust based on validation exercise
Durability		
COP	COMPLETED	
OBD		

6. Outlook for 82nd GRPE session in January 2021

WLTP IWG is not in a position to ask for a new mandate under the current situations.

Positions of current WLTP sponsors:

-EC: no new mandate IWG

PROCESS

the results achieved (mature GTR 15 and 19, UNR WLTP) allow to stop the IWG

-JPN: want to continue WLTP activity, hopefully with EC

