Request for Prolongation of WLTP Phase2b Activities

WLTP-21-02e

		2017	2018	2019	2020	
Current	source : ECE/TRANS/WP.29/	Phase 2a	76th GRPE			
	2016/29	Phase 2b		78th GRPE		
Proposals	no change	Phase 2a	76th GRPE			
	PROLONGATION	Phase 2b			 82nd	d GRPE
	IMPROVEMENT of GTR#15		urgent issues		remaining issues	
	UNR_WLTP		first step UNR_WLTP	79th GRPE		

< Justification of Prolongation >

- 1. All CPs accept the prolongation of Phase2b activities based on their regional demands.
- 2. Practical homologation process in EU and Japan reveals the potential problems and/or concerns in GTR#15 which need to be solved in urgent.
- 3. Due to its complexity of "UNR_WLTP" construction, earlier completion of UNR_WLTP is highly expected among WLTP and IWVTA IWG.
- 4. Development of "UNR_WLTP" and Improvement of GTR #15 shrink the available resources of WLTP IWG colleagues.

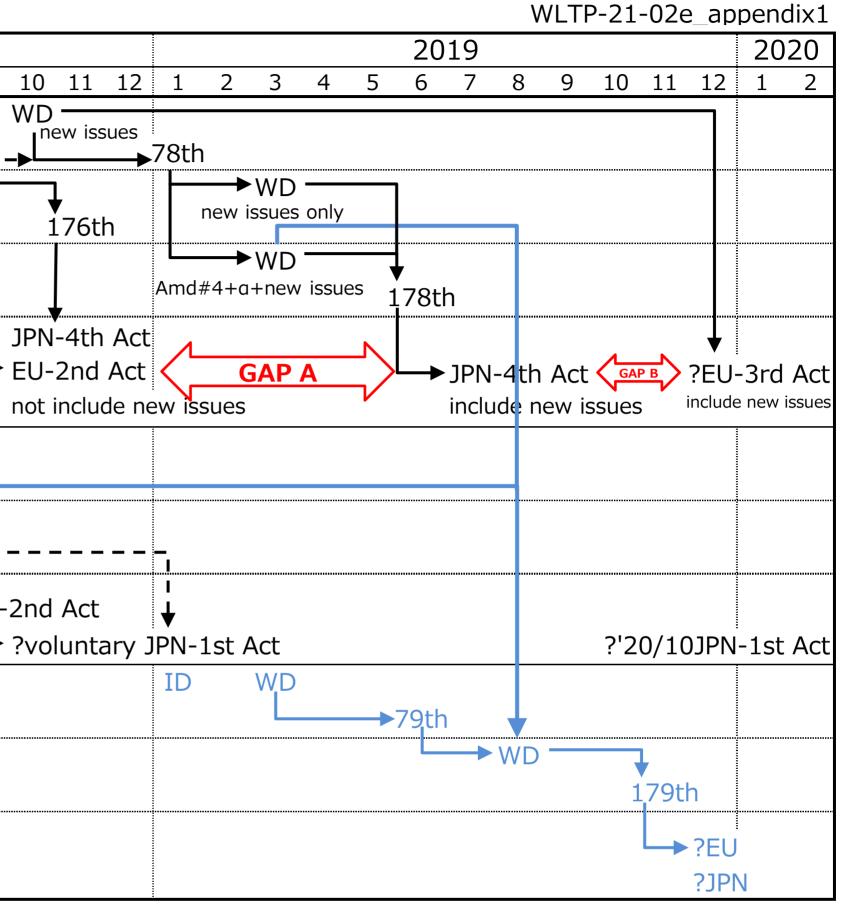
[please refer WLTP-21-02e_appendix2 for detailed issues and proposed schedule]

Amendment Scenario of GTR

				201	7						20	18		
			10	11	12	1	2	3	4	5	6	7	8	9
GTR#15	GRPE	Documents	WD)		ID		ΨD			ID			
				md#4		76th) <u>+a</u> *	<			Z7th	L		
	WP.29	Documents											WD	
	< origina	al scenario >										An	nd#4-	⊦a
	WP.29	Documents												
	< less adm	iini. scenario >												
	regional	regulation												
GTR#19	GRPE	Documents	WD	Amd#	£1	ID 76th	ו							
	WP.29	Documents						WD		-	175tl	n – -		
	regional	regulation												EU-
UNR_WLTP	GRPE	Documents									ID			
	WP.29	Documents												
	regional	regulation												

in case of <less admin. scenario>

- **GAP A**
- ✓ the gear shifting procedures (nrated, nmin_drive_up/down) + a
- ✓ bi-fuel and bi-fuel gas vehicles
- \checkmark positioning of payload mass during R/L determination
- \checkmark exclude REESSs that do not contribute to vehicle propulsion from monitoring.
- \checkmark set minimum delta of R/L and interpolation family
- ✓ make it clear for permissible wind speed during R/L testing
- \checkmark drive trace indices
- ✓ Ki determination
- ✓ EV run-in
- ✓ EV warm-up procedure





please refer appendix2 for more detail

		current	Justification of	-		ID : Informal Document to GRPE not on the table WD : Working Document to GRPE at this moment 2019								WLTP-21-02e_Appendix2									
ITEMS		status	proposed time		201		9 10	Э 10 1		2 1	1 2	2 3	2019 4 5 6 7 8	3 9 10 11 12	1	2 3	3 4	5			9 10 11 12		
UNR	TypeI & IV	on going	Higher Priority in 2018						- 10	D		W	D					I	<u>כ</u>		WD		
	others, if necessary	-	-															IC	>		WD		
GTR #15	Amendment	-	-	WD*		I be combined into 2018 WD ID #4		1 1	echnica Report	al			ID #5	WD Technica #5				IC #6			WD Technica #6		
GTR #19	Amendment	-	-	wD*	<								ID #2	WD Technica #2				- IC #3			WD Technica #3		
Cycle	Gear Shift	close to FINALIZATION	-	WD*	1	I be combined into 2018 WD	W	D					re-open when necessary	WD			re-o	pen v	when	necessary	WD		
	Trace Indices	difficult to reach agreement	incorporate to Amd#4				w	D I	echnica Report	al t													
	HEV System Power	developed the methods	validation test will be completed in fall 2018			Image: Second			1	D		WI	Technical Report										
Supplemental Test	Low Temp	on going	no specific deadline is required by CPs.						- 10	D				WD Technica Report	l improv	ve, if ne	cessary	/					
	МАС	under the discussion	-			Image: selection of the selection																	
	Crankcase & Idle	not active	link to Japan internal schedule															IL	D		WD Report		
Evapo.		COMPLETED (Amd#1)	no specific requirement from CPs. Re-open from 2019 if necessary	WD		port				re	e-open	, if nece	essary					- 10	D		WD		
Durability	ICE	on going	2 steps approach, (1) same timing as UNR, (2) new, if needed				W		echnica Report	al	ew req	uireme	ent, if needed					- 10	D		WD Technica Report		
	Battery	on going	due to technical difficulty, hard to develop the schedule			Image: state																	
OBD		not active	OK if completed by 2020															IC	ם כ		WD Technica Report		
СОР		not active	same timing as UNR(TypeI&IV)				w	D															
ISC		not active	consider each region current process																				
New Issues	Family definition	under the discussion	tbd (based on discussion between ICCT and Japan)																IC	D	WD		
	Dual-axis dyno.	under the text development					w	D			Lo	w Tem	p. Test ID	WD									
	Improvement of R/L determination	under the active discussion	incorporate to Amd#4				w		echnica Report	al t													
	a Position of payload	FINALIZED	-	WD*	*) w	ill be combined into 2018 WD																	
	b Wind Speed Criteria	on going	incorporate to Amd#4			ID	W	D															
	c Split run	will start soon	\uparrow			ID	W	D															
	d Movable aero parts	on going	\uparrow			ID	W	D															
	e EV warm-up for coasting down	close to FINALIZATION	\uparrow			ID	W	D															



						nformal Docum Working Docum					momen							1-026	_Appei	
ITEMS		current status	Justification of proposed time	201 10 11	1		2 018 5 7	8	9 10	11 12	1 2	3 4	201	 10 11	2 1 2	3 4		020 7 8	9 10	11
New Issues	f Chassis dynamometer load setting	will start soon	\uparrow			ID			WD											
	g ambient temp. 5C and more	will start soon	\uparrow			ID			WD											
	h CFD	tbd	tbd																	
	Wind Tunnel	under the active	incorporate to Amd#4			ID			WD	Technical Report										
	Methods	discussion																		
	i Min and Max measurement point	on going	1			ID			WD											
	ii Wind tunnel criteria (facility spec)	↑	1			ID			WD											
	iii # of measurement points	↑	1			ID			WD											
	iv facility approval and homolo. test procedure	1	1			ID			WD											
	v ⊿Cd for V _{ind}	↑	1			ID			WD											
	vi Wind tunnel for RL matrix	close to FINALIZATION	\uparrow			ID			WD											
	vii RL Matrix definition precision	↑	\uparrow			ID			WD											
	Exhaust Gas Dilution System	close to FINALIZATION	\uparrow						WD	Technical Report										
	Time accuracy of	close to	\uparrow			ID			wD	Technical Report										
	dynamometer	FINALIZATION	avoid confusion(keep																	
	Interporation Methods (Tyre RRC)	will come backlater	current process), same timing as UNR117 re-														ID	?	WD?	
	Interporation Methods (others)	under the active discussion				ID			WD	Technical Report										
	I 3g/km extension	on going	1			ID			WD											
	II Apply Vehicle_M concept to ICE	\uparrow	1			ID			WD											
	II I Full load curve	\uparrow	1			ID			WD											
	IV Set minimum range for IPF and R/L Family	↑	\uparrow			ID			WD											
	V increase individual CO2	\uparrow	\uparrow			ID			WD											
	VI readability	↑ (\uparrow			ID			WD											
	VI how to develop f_0 and I f_2 with fixed f_1	\uparrow	\uparrow			ID			WD											
	I f_2 with fixed f_1 VI augusted $f_{0,L}$ and $f_{0,H}$ and/or $f_{0,H}$ and/or II f_2	· ↑	\uparrow			ID			WD											
	IX adjust $f_{1,L}$ to $f_{1,H}$	↑	\uparrow			ID			WD											
	X CO2 calculatoin fo Vind phase L, M,H,ex-	↑	\uparrow			ID			WD											
	REESS balance measurement	will start soon	\uparrow			ID			WD											
	measurement of oil and coolant temperature	close to FINALIZATION	1			ID			WD											







