

	Annex	Section	brief description	Necessary action (e.g. validation)	Need Validation Test ?	responsibility during Phase1b	contact person	proposal	draft conclusion	finalize	current status (up to 11th IWG meeting, June 2015)	reference documents
1b_1	main part	3.3.14	make definition more clear	amend or keep current description	NO	WLTP IG		6	NA	12	<b>Temporarily CLOSED</b> Revised definition was discussed and drafting group takes care of final wording <b>Continue to discuss on "defeat device"</b>	WLTP-08-39e WLTP-08-45e WLTP-11-24e WLTP-12-11/12/20e
1	main part	5.4.	Petrol tank inlet orifices	Y or N	NO	WLTP IG	Kolesa	6	NA	6	<b>CLOSED</b> (keep current gtr)	WLTP-06-09e
2	main part	5.6.1.	Interpolation family definition for EVs	depend on E-Lab. unique method	NO	E-Lab. SG	OhLund Niikuni	NA	10->12	11->12	<b>CLOSED</b> concept of family proposed by EV-SG was accepted by IWG	WLTP-SG-EV-06-04e WLTP-SG-EV-06-05e WLTP-SG-EV-08-04e WLTP-12-19e
3	1	7.1.	Adaption to electrified vehicles	consider system power and maximum speed	NO	E-Lab. SG	OhLund Niikuni	NA	8	8	<b>CLOSED</b> (EVE IWG take care of development of system power for EV)	WLTP-SG-EV-06-08
4		7.3.	Determination of the downscaling factor, using torque meter method results	to be developed	NO	HS	HS -> Rob Cuelenaere	10	NA	11 -> 12	<b>CLOSED</b> concrete gtr was presented and accepted by IWG	WLTP-06-10-rev1e WLTP-07-06e WLTP-11-16e WLTP-12-05rev1e
5			Determination of the downscaling factor	to be developed including verification	YES	India HS	HS	7->8	NA	9	<b>CLOSED</b> (proposal was adopted)	WLTP-08-10e
6	2	2.	use of the gear box	to be decided	YES	HS	HS	7->8	NA	7 -> 12	<b>Temporarily CLOSED</b> 12th IWG meeting has made a decision not to modify n_min_drive definition. <b>Continue to discuss on VCC proposal</b>	WLTP-08-11-rev1/12/13/14/15/16e WLTP-10-11e WLTP-11-05/06rev1/07e WLTP-12-17e
1b_6	1 & 2	2/3/7 (Annex1)	vehicle classification downscaling reporting calculation of the average gear.	to be decided				12	NA	12	<b>CLOSED</b> 12th IWG meeting has made a decision 1. no change for classification provisions 2. specific down scale ration shall be applied for each specific vehicle configuration within interpolation family	WLTP-11-08e WLTP-12-17e
7	2	2.	calculation of required power using torque meter method results	to be developed	YES	HS	HS -> Rob Cuelenaere	8	NA	11->12	<b>CLOSED</b> concrete gtr was presented and accepted by IWG	↑ WLTP-11-16e WLTP-12-05rev1e
8	2	4.	skipping of gears	to be discussed, then modify if necessary	NO	HS	HS	8	NA	8	<b>CLOSED</b> (apply 2sec rule instead of allowing the skip gear)	WLTP-08-15e
9	new		gear shift family criteria	need methodology consider extension when applying regional temperature	NO	HS Japan	HS	7->8	NA	11	<b>CLOSED</b> (no family concept is necessary)	WLTP-08-16e
10	4	3.2.	wind tunnel criteria	close link to #18	YES	TNO OICA	Rob Cuelenaere Christoph Lueginger	8->10	NA	12->11	<b>CLOSED</b> Alternative delta cd*A method was approved @ 10th meeting	WLTP-08-21/22/23/24/25e WLTP-10-21e WLTP-11-18e WLTP-06-23e WLTP-07-07e WLTP-10-22e WLTP-11-14e WLTP-12-06e
11	4	4.1.	wind conditions	validation measurements required	YES	TNO OICA	Rob Cuelenaere C. Hosier	8->10	NA	10->11	<b>CLOSED</b> additional description (CP permit more relaxed tolerance) was approved	WLTP-06-23e WLTP-07-07e WLTP-10-22e WLTP-11-14e WLTP-12-06e
12	4	4.3.	coast down procedure	to be discussed, then modify if necessary	NO	TNO JPN	Rob Cuelenaere Yamaguchi	6	NA	7	<b>Temporarily CLOSED</b> <b>continue to discuss on # of RLD separation</b>	WLTP-08-28e
13	4	4.3.2.	on board anemometry based coast down method e.g. 4.3.2.6.1.	to be developed	NO	TNO OICA	Rob Cuelenaere C. Hosier	8->10	NA	10 -> 11	<b>CLOSED</b> Validation test was presented and IWG agreed with the method for adoption. Concrete gtr text was accepted by IWG	WLTP-10-22e WLTP-11-14e WLTP-12-06e
14	4	4.4.	torque meter method	to be reviewed, then modify if necessary	NO	TNO OICA	Rob Cuelenaere C. Hosier	8->10	NA	10->12	<b>CLOSED</b> concrete gtr was presented and accepted by IWG	WLTP-06-24e WLTP-07-07e WLTP-11-15e WLTP-11-16e WLTP-12-05rev1e
15		4.4.2.2.	torque meter method	to be decided	NO	TNO OICA	Rob Cuelenaere C. Hosier	8->10	NA	10->12	<b>CLOSED</b> concrete gtr was presented and accepted by IWG	↑
16	4	4.5.5.	road load curve correction	to be reviewed, then modify if necessary	NO	TNO OICA	Rob Cuelenaere C. Hosier	8->10	NA	10->12	<b>CLOSED</b> concrete gtr was presented and accepted by IWG	↑
17	4	5.2.	default road load parameter	to be reviewed, then modify if necessary	NO	TNO OICA	Rob Cuelenaere W. Vandermeulen	8->10	NA	10->12	<b>CLOSED</b> Concept was accepted @ 11th meeting and detailed procedure was approved @ 12th IWG meeting.	WLTP-08-26e WLTP-08-27e WLTP-10-23e WLTP-11-17e WLTP-12-07rev1/24e
18	4	6.	wind tunnel method for RLD	to be developed	YES	TNO OICA	Rob Cuelenaere Christoph Lueginger	6->10	NA	12	<b>Temporarily CLOSED</b> Accepted wind tunnel method @ 10th meeting, and approved detailed test procedure and requirement @ 11th meeting. Concrete gtr was presented and accepted by IWG. <b>Continue to discuss on radius correction</b>	WLTP-08-22/23/24/25e WLTP-10-14/15/16e WLTP-11-12e WLTP-12-14rev2/21e
19	4	7.3.4.	alternative warm up procedure	to be developed	NO	Japan	Yamaguchi	6->8	NA	7 -> 8	<b>CLOSED</b> (accept alternative procedure)	WLTP-08-29-rev1e WLTP-09-09-rev1e
20	4	8.2.3.2.	chassis dyno load setting with torque meter method	to be reviewed, then modify if necessary	NO	TNO OICA	Rob Cuelenaere C. Hosier	9->10	NA	10->12	<b>CLOSED</b> concrete gtr was presented and accepted by IWG	WLTP-06-24e WLTP-07-07e WLTP-11-16e WLTP-12-05rev1e
1b_2	4		road load family	to be developed if necessary	NO	OICA	Lueginger	6	NA	10	<b>CLOSED</b> proposed gtr description was modified based on #10 meeting discussion and accepted by IWG	WLTP-08-19e WLTP-08-20e WLTP-10-17rev1/18e WLTP-12-07rev1e
1b_3	4		tyre selection		NO	EC	Steininger	8	NA	10->11	<b>Postpone to Phase2</b> make a decision after data provided by tyre manufacture	WLTP-08-18e
1b_5	4		Determination of overall deviation from coast down method		NO	JPN	Fujiwara	10	NA	12 -> Phase2	<b>CLOSED</b> General description was approved @ 11th meeting and was inserted to gtr. As a part of ISC, continue to work during Phase2.	WLTP-10-24e WLTP-11-13e
21	4, App. 1	2.3.	The simulated road load calculation for each reference speed v_j	to be reviewed, then modify if necessary	NO	TNO JPN	Rob Cuelenaere Yamaguchi	9	NA	10	<b>CLOSED</b>	WLTP-06-05e WLTP-06-13e WLTP-06-13-rev1e WLTP-07-07e WLTP-08-28e
22	5	2.3.	full applicability of the 4WD provisions for twin rollers	to be reviewed, then modify if necessary	NO	Japan	Yamaguchi	7	NA	9	<b>CLOSED</b> (keep current gtr)	NA
23	5	2.3.1.2 2.3.1.3	requirements for 4WD dynamometers	to be reviewed, then modify if necessary	NO	Japan	Yamaguchi	7 -> 8	NA	9	<b>CLOSED</b> (proposal was accepted)	WLTP-08-05e
24	5	2.4.1	The accuracy and linearity of the force transducer maintenance and within 370 days before testing.	to be reviewed, then modify if necessary	NO	WLTP IG	Kolesa	9	NA	9	<b>CLOSED</b> (keep current gtr)	WLTP-08-30e WLTP-09-11e
25	5	2.4.2.	Dynamometer parasitic loss calibration	to be reviewed, then modify if necessary	NO	WLTP IG	Kolesa	9	NA	9	<b>CLOSED</b> (keep current gtr)	WLTP-09-12e
26	5	3.4.3.4.1. ff.	measurement equipment	to be reviewed, then modify if necessary	NO	WLTP IG	Kolesa	9	NA	9->11	<b>CLOSED</b> Review of comments were performed by experts and will be inserted to gt.	WLTP-09-13e
27	6	1.1.1.2.	Number of tests	to be discussed, then modify if necessary	NO	Japan	Fujiwara	8	NA	12	<b>CLOSED</b> IWG has accepted TF decision which means dCO2 value is CP option.	WLTP-08-30e WLTP-08-43e WLTP-09-21-rev1e WLTP-09-22e WLTP-10-25e/EU/JRC WLTP-10-26e WLTP-10-30e_rev1 WLTP-10-20e WLTP-20-15/16e
28	6	1.2.4.4.	settings of the engine	to be reviewed, then modify if necessary	NO	WLTP IG	Nick	9	NA	9 -> 10	<b>CLOSED</b> drafting group proposal was approved by IWG @ 10th meeting	WLTP-09-14e WLTP-10-28e
29	6	1.2.6.6.	speed trace violations	to be reviewed, then modify if necessary	NO	WLTP IG	Nick	10	NA	12	<b>CLOSED</b> TF proposal was accepted by IWG. Trace tolerance : keep as it is but no show on the DAD screen. Trace index : monitor during homologation test.	WLTP-10-31e WLTP-10-21/22e WLTP-12-27e
30	6	1.2.6.6.	speed trace violations	to be reviewed, then modify if necessary	NO	WLTP IG	Nick	10	NA	12	= OIL#48	WLTP-10-31e WLTP-12-27e

	Annex	Section	brief description	Necessary action (e.g. validation)	Need Validation Test ?	responsibility during Phase1b	contact person	proposal	draft conclusion	finalize	current status (up to 11th IWG meeting, June 2015)	reference documents
31	6	1.2.6.8.	provisions for coasting	to be discussed, then modify if necessary	NO	OICA	Vogel	Phase2	NA	Phase2	<b>CLOSED</b> during Phase1b (Continue to work under the TF)	WLTP-08-32e WLTP-09-15e
32	6	1.2.7.	soaking - supplemental test	to be discussed, then develop new procedure	YES ?	EC OICA	Steininger BMW	6	NA	11	<b>CLOSED</b> (dropped from WLTP working items)	WLTP-06-14e WLTP-06-15e WLTP-06-30e
33	6	1.2.14.2.1.	bag analysis	to be reviewed, then modify if necessary	NO	ACEA	Bergmann	9->10	NA	9->10	<b>CLOSED</b> Initial proposal was presented and approved by IWG @ 10th meeting (keep current gtr description)	WLTP-10-29e
34	6	Appendix 1 2.2.5.1.	If more than one WLTC is required, subsequent test cycle or cycles shall be driven immediately, without switching the engine off, until complete regeneration has been achieved	to be reviewed, then modify if necessary	NO	WLTP IG	Nick	8	NA	8	<b>CLOSED*</b> Proposal is expected to be present during 8th meeting *(see 1b_4 below)	WLTP-08-33e
35	6	Appendix 1	DPF loading criteria	to be reviewed, then modify if necessary	NO	WLTP IG	Nick	8	NA	8	<b>CLOSED</b> (accept alternative procedure)	↑
36	6	Appendix 1	phase ki approach for CO2 and fuel consumption	to be reviewed, then modify if necessary	NO	Japan	Nick	7->8	NA	10	<b>CLOSED</b> TF proposal was approved by IWG @ 10th meeting (apply whole cycle Ki to each phase)	WLTP-10-27e /27_suppliment
37	6	Appendix 1 2.2.5.	inconsistency in procedure (motor on/off after a type I test and after regeneration)	to be reviewed, then modify if necessary	NO	WLTP IG	Nick	8	NA	8	<b>CLOSED</b> (engine should not be OFF between two cycle)	WLTP-08-33e
38	6	Appendix 1	discussion when a regeneration process is applicable	to be reviewed, then modify if necessary	NO	WLTP IG	Nick	8	NA	8	<b>CLOSED</b> (allow to use fixed Ki - 1.05 - for CO2/FC)	↑
1b_4	6	Appendix 1	how to deal with 3-phase test and 4-phase test ?		NO	WLTP IG	Nick	8	NA	10	<b>CLOSED</b> TF proposal was approved by IWG @ 10th meeting (need separate test)	WLTP-10-27e /27_suppliment
39	6	Appendix 2	4.3. 4.4.	to be decided	NO	EC	Schmidt	8	NA	8	<b>CLOSED</b> (keep current gtr)	NA
40	6	Appendix 2	4.8. and Table A6, App2/2	to be decided	NO	EC	Schmidt	8	NA	8	<b>CLOSED</b> (keep current gtr)	NA
41	6	Appendix 3?	Driving Trace Index	develop the methodology based on SAE and set criteria.	YES	Japan	Fujiwara	6	NA	10->12	<b>CLOSED</b> TF proposal was accepted by IWG. Trace tolerance : keep as it is but no show on the DAD screen. Trace index : monitor during homologation test.	WLTP-06-16e WLTP-09-24e WLTP-10-31e WLTP-10-21/22e WLTP-12-27e
42	7	3.1.2.	The density for NMHC Willans Factor	to be reviewed, then modify if necessary	NO	OICA	Adam	6	NA	10	<b>CLOSED</b> (proposal was adopted)	WLTP-06-18-rev1 WLTP-07-11e WLTP-07-12e WLTP-08-06-rev1e
43	7	6	FC calculations for ICE vehicles	to be reviewed, then modify if necessary	NO	WLTP IG	Kolesa	8?	NA	8	<b>CLOSED</b> (proposal was adopted)	WLTP-08-07e
44	7	3.1.2.4 ?	calculation formula for ammonia	to be developed	DONE	JRC	Cova.	6	NA	6 -> 10	<b>CLOSED</b> (proposed was adopted)	WLTP-06-27e, WLTP-06-32e WLTP-08-36e WLTP-09-17e
45	7	3.1.2.5. ?	calculation formula for ethanol	to be developed	DONE	JRC	Cova.	6 -> 9	NA	6 -> 12	<b>CLOSED</b> (cartridge method / OHC factor)	WLTP-06-32e WLTP-07-09-rev1e WLTP-10-20e/32-rev1 WLTP-12-22/23e
46	7	3.1.2.6 ?	calculation formula for aldehyde	to be developed	DONE	JRC	Cova.	6 -> 9	NA	6 -> 12	<b>Postpone to Phase2</b> (continours measurement method)	
47	7	between 3 & 4	fuel consumption interpolation method	to be developed	NO	TNO	TNO	8?	NA	9	<b>CLOSED</b> (proposal was adopted)	WLTP-08-08e
48	7	3 & new 4	WLTP correction algorithms (Lab & RLD), incl. normalization method for driving trace	develop the methodology.	YES	EC	Steininger	6	NA	11 Phase2	<b>CLOSED</b> Drive trace energy correction : Phase 2. Rotational Inertia via tyre weighing : excluded from Phase 1B. Dyno load setting : Revised procedure to improve gtr was adopted @ 11th meeting Toe-in : handled by Annex 4 TF	WLTP-08-37e WLTP-08-38e WLTP-08-46e WLTP-08-47e WLTP-09-23e WLTP-09-25e WLTP-10-19e WLTP-10-19rev1e
49	7	3.2.3.2.2.6	Calculation of the CO2 value for an individual vehicle by the CO2 interpolation method	to be discussed, then develop the tool if necessary	NO	OICA	MB	8?	NA	11	<b>CLOSED</b> (correction coefficient of all batteries installed in the vehicle.)	WLTP-08-35e
1b_7	7		post processing				Lueglinger			12	<b>CLOSED</b> (ICE and HEV CS) <b>Postpone to Phase2</b> (HEV CD) Post processing proposed by Mr. Lueglinger was accepted. OVC-HEV CD and PEV process will be handled by EV-SG during Phase2	WLTP-12-08rev1 /09rev1/10rev1e
50	8	1.	RCB correction application	to be discussed, then modify if necessary	NO	E-Lab. SG	OhLund Niikuni	NA	7	9->10	<b>CLOSED</b> (develop under warm-up condition, apply whole phase factor to reach phase, represent Vehicle_H factor within family)	WLTP-SG-EV-06-11e WLTP-SG-EV-02-02e WLTP-SG-EV-08-02e WLTP-12-19e
51	8	3.2.4.2.2. 3.2.5.2.1 3.4.2.1.	mode selectable switch	to be discussed, then modify if necessary	NO	E-Lab. SG	OhLund Niikuni	NA	8	9->12	<b>CLOSED</b> EC-SG has developed the flow chart how to select the test mode. In the case that no mode is available to follow the drive cycle, driven test cycle is CP option.	WLTP-SG-EV-06-06 WLTP-SG-EV-08-06 WLTP-12-19e
52	8	3.4.2.3.1.4.	End of EV range criteria <- WLTCcity only for lower maximum speed	to be discussed, then modify if necessary	NO	E-Lab. SG	OhLund Niikuni	NA	7->12	9->12	<b>CLOSED</b> EV-SG has made a decision to apply downscale method only for ex-H phase of PEV. Capped speed with distance compensation is applied as CP option	WLTP-SG-EV-06-07rev1 WLTP-SG-EV-07-10 WLTP-12-19e
53	8	3.5. NEW ?	FCV test procedure	to be developed	NO	E-Lab. SG	OhLund Niikuni	NA	10	11	<b>CLOSED</b> (Gravimetric method is accepted as reference method, pressure and flow method are candidate methods, OVC-FCHV will be handled during Phase2)	WLTP-SG-EV-07-05 WLTP-SG-EV-07-06
54	8	4.1.1.1. 4.1.1.3.	Necessity of this section	to be reviewed, then modify if necessary	NO	E-Lab. SG	OhLund Niikuni	NA	7	8	<b>CLOSED</b> (delete 4.1.1.1. and keep 4.1.1.3.)	NA
55	8	4.2. 4.3.	Phase specific calculation formula including CD/CS combined value	to be developed	YES	E-Lab. SG	OhLund Niikuni	NA	8->12	9 -> 12	<b>CLOSED</b> (related to #55, exclude Rcd and include confirmation cycle to improve linearity)	WLTP-06-29e SG-EV-04-07 SG-EV-04-08 SG-EV-06-03-rev1 SG-EV-08-03
56	8	4.4.2.2.	interpolation approach for Evs	to be developed	YES	E-Lab. SG	OhLund Niikuni	NA	10	11->12	<b>CLOSED</b> EV-SG has made a decision to apply IA except Rcd. Detailed procedure was developed	WLTP-SG-EV-06-04e WLTP-SG-EV-06-05e WLTP-SG-EV-08-05e
57	8	Appendix 5	Utility Factor	to be developed	NO	E-Lab. SG	OhLund Niikuni	NA	9	10	<b>CLOSED</b> Allow regional UF based on each CP policy. Refer SEA method to develop UF.	WLTP-SG-EV-06-12 WLTP-09-06-rev1e
58	8	Appendix 6	PEV shorten test procedure	to be developed	YES	E-Lab. SG	OhLund Niikuni	NA	8->12	9->12	<b>CLOSED</b> EV-SG has made a decision to apply PEV shorten test procedure. Concrete procedure was also developed.	WLTP-SG-EV-06-09 WLTP-SG-EV-06-10 WLTP-SG-EV-08-03 WLTP-12-19e
59	9		determination of system equivalence	to be developed	NO	WLTP IG	Kolesa	7 -> 8?	NA	10->11 Phase2	<b>CLOSED</b> Concrete gtr proposal was presented @ 10th meeting. Slight modification will be done based on	WLTP-08-09e WLTP-10-33e WLTP-11-23e
	General		Round Robin Test	make a plan, then execute	-	WLTP IG	EU:Coleman ASIA: Nick	6	NA	12	EU : on going. some improvements are necessary to have common interpretation Asia : India/Korea round has completed. No major concern is found.	WLTP-06-19e WLTP-06-28e WLTP-10-37e WLTP-11-25e
60	complete gtr	ALL	editorial changes, general review insert Phase1b works		-	WLTP IG	Dubuc	as needed		12	<b>FINALIZED (GRPE/2016/03e) Editorial amendment (GRPE-72-XX)</b>	WLTP-08-04e WLTP-08-39e WLTP-08-40e WLTP-08-45e WLTP-09-18e WLTP-10-04/34/35/36e WLTP-11-04/09/10/24e WLTP-12-13e
P2_1	General	all	make a decision of Phase2 working items	to be developed	NO	WLTP IG	WLTP Leading Team	8		12	Basic working items was accepted by IWG. Sponser CPs(EU/JPN) provided the revised ToR and overall schdule.	WLTP-08-41-rev1e WLTP-08-41e_annex WLTP-09-20e WLTP-10-38-rev2/39e