WLTP Sub Group EV		
Date	17 th of November 2014	
Time	10:00 to 18:00 CET	
Title	WLTP Sub Group EV Meeting — minutes	
Working Paper Number	WLTP-SG-EV-06-13	

Agenda

1		Welcome and adaption of agenda	WITP-SG-EV-06-02-rev1	
Agenda	adopted			
2	# 50	RCB correction	WLTP-SG-EV-06-11	
			WLTP-SG-EV-06-14	
-	Re-open	ing of the OI after request from AC	EA EV group. Christoph Lueginger	
	introduced the ACEA document on behalf of Nico Schütze (member of the ACEA WLTP EV group) and the ACEA WLTP EV group. Main issue for phase specific values.			
-	Current p	procedure for CS test.		
-	Separate Cycle co	e correction coefficient for each phase rrection coefficient gives smaller erro	e not working properly. r.	
One iss only the	sue that one effect from	cycle energy does not take into cons om RLD. Last slide summaries the pr	sideration the effect from cold start oposal.	
According to Japan there are two new concepts, use for CO_2 family and a warm start test to determine correction. This is an important step to reduced test burden.				
Japan shows test data (WLTP-SG-EV-06-14). Time consuming to determine data from test. Changing unit to Ah/km gives the same slope, almost.				
ACEA proposal will improve the procedure.				
India thinks the approach could be used.				
European Commission (EC) and Japan needs to scrutinize the proposal to confirm at the next WLTP IWG meeting.				
Sub Group EV needs to prepare short introduction for next WLTP IWG meeting.				
Conclusion:				
ACEA proposed a new proposal to obtain RCB correction coefficient of CS with warm				
	IPN will bring this proposal and response until #9 meeting. Then, this issue could be			
closed in #9 meeting, after the JPN's response.				
3	# 55	Phase Specific range calculation for PEV	WLTP-SG-EV-06-03	

ACEA presents the results concerning out a calculation of phase specific range values for PEV. If such values are available, there is no need for WLTC_{city} anymore.

Comparison between simulation and calculation shows small deviation for both a vehicle that can follow the cycle and for a vehicle that cannot follow the cycle.

Japan can accept the procedure, but will need to investigate how effect shorten test procedure.

EC is of the opinion that there is a need for more validation from testing. Japan has test data that can be shown until WLTP IWG #9.

Sub group EV agrees on the principal of calculation of phase specific values.

The need for phase specific values is a discussion on political level between EC and Japan. EC does not need phase specific values, but accepts that Japan request them.

Conclusion:

ACEA demonstrates that phase specific range calculation for PEV works well. For HEVs, phase specific value could be obtained by the new proposal from ACEA, as mentioned in open issue #50 this meeting. Then, this issue could be closed in #9 meeting as well, after the JPN's response for the proposal.

4	# 2,	CO ₂ family definition and	WLTP-SG-EV-06-04
	#56	Combined Approach.	WLTP-SG-EV-06-05

Presentation of ACEA document.

Will present results from further investigation in January.

ACEA means that the combined approach works for complete cycle and phases because the method is based on cycle energy.

EC question regarding phase specific values based on test of complete cycle.

Japan presents their position regarding combined approach. Proposes to narrow applicable criteria or require additional midpoint test in the CS test.

ACEA proposes that instead of midpoint, the midpoint is TMH in one family and TML in a new family. Divide the nonlinear family in two families.

As a check of linearity the proposed method could work. The concept needs to be developed further regarding definition of the midpoint.

T&E proposes to combine the two proposals from Japan and ACEA to clarify which parameters that needs to be considered regarding phase specific values in the combined approach.

Japan presents the document and a position. Japan accepts predominant mode with the opportunity to use options if no predominant mode is available. Applicable for both CS test and CD test.

In order to reduce test burden Japan proposes to test in worst mode for fuel consumption or energy consumption respectively. Question for who the option is: For the manufacturer.

General remark:

Current text includes inconsistency that opens for different interpretations. If there is more than one mode the GTR needs to be clear which mode to be tested.

Germany:

Germany means that current text is ok, although needs to be adjusted in the wording.

Japan ı	Japan needs to have their position confirmed.			
After co	After confirmation: this is a drafting issue to amend the text			
6	# 52	End of test criteria for PEV.	WLTP-SG-EV-06-07	
ACEA	presentat	ion regarding two proposals for end c	of test criteria for PEV.	
Low po	wered ar	nd vehicles with cap speed.		
The ca	p speed	is declared by the manufacturer and	d must be reached during the test.	
Otherw	ise this is	a break of criteria.		
The ca	p or maxi	mum speed is the one in the first cyc	le.	
Japan	will prese	nt position until VVLIP IVVG #9 on the	proposal from ACEA.	
An orro	r in tha n	recentation will be corrected		
Anenu	n in the p	resentation will be corrected.		
7	#3	System power determination	WITP-SG-EV-06-08	
FVF IV	VG has r	proposed to develop a method to de	etermine system power for FV in a	
request	t for prolo	inged mandate. Thus, this issue is clo	osed in Sub Group EV.	
Presen	tation of	the document. Development of perfo	ormance criteria, like system power,	
from E	/ under a	new mandate for the EVE IWG.		
Importa	ant that V	VLTP Sub group EV provides input	to the EVE group. Regarding what	
perform	nance crit	eria which are requested for WLTP.		
Possibl	e to exte	nd to conventional vehicles.		
8	# 57	Utility factor	WLTP-SG-EV-06-12	
Dresse	tation of i		WLIP-SG-EV-06-15	
Presen	tation of t	ine EU UF values		
lonon	proconto	proposal for CTP toxt that has	been submitted to the drafting	
coordin	presents	β proposal for GTR text that has to nark from ΔCEA : proposal still has to	be discussed within Sub group EV	
Coordin		han nom AOEA. proposal suil has to		
Region	al UF fro	om contracting parties will be introd	duced in the GTR, when they are	
availab	le.		,,,,,,,,	
There i	is a ques	stion regarding what regional option	s that should be introduced in the	
GTR, li	mit value	s, reference fuels, UF etc.		
OICA r	equest th	nat - if possible - regional UF from o	other CP should be included in the	
GTR in	phase 1	b. There is also a risk of discrepane	cy between regional legislation and	
GTR te	xt if UF is	s changed in a region.		
Further	political	discussion regarding the inclusion	of regional options in the GTR will	
take pla	ace in GF	RPE.		
		for OTD tout of regional UE is a	recented by Jonen Dreneral for	
First p	roposal	for GIR text of regional UF is p	oresented by Japan. Proposal for	
narmonized procedure to determine UF (methodology) will be presented on coming				
The an	The ambition should be to include barmonized methodology to determine LIE in phase			
The ambilion should be to include narmonized methodology to determine OF in phase 1b				
Start point to compare existing methodology from different regions including technical				
report from EU. This will be done until January meeting. In order to decide if it is possible				
to inclu	de harmo	nized methodology in phase 1b.		
9	# 58	Shorten test procedures for PEV	WLTP-SG-EV-06-09	
			WLTP-SG-EV-06-10	
Presen	tation of <i>i</i>	ACEA document:		
Simulat	Simulation results show that it is possible that WLTC complete cycle can be replaced by			
the sho	rten test	procedure. Since this methodology c	an calculate phase specific values it	
would a	also be p	ossible to skip WLTC _{city} . This would	lead in consequence to a reduced	
test bui	den.			

EC is of the opinion that the accuracy of the shorten test procedure needs to be demonstrated. Japan can provide data for this on the next meeting.EC means that since HEV provide WLTC_{city} values PEV also needs to do that in order to stay consistent. But if the procedure does not require measuring WLTC_{city} on HEV, this means that it is relevant to calculate WLTC_{city} also for HEV. If this can be done with good accuracy.

ACEA supports shorten test procedure, but some issues still need to be worked on (final ACEA conclusion slide).

Presentation from Japan regarding shorten test procedure: Japan supports to introduce shorten test procedure as baseline for PEV because of its features.

Next step is more validation of the procedure.

10	AOB	

11		Next Actions	
Tentative next face-to-face meeting in February 2015.			