Progress report of Sub Group EV, WLTP IWG (EVE-19-xxe)

19th EVE IWG 8 June 2016

1. Summary

#	items	RESULTS	status	remarks	
EV_1	HEV system power	No progress Continue to collaborate with EVE and develop the test procedure.	OPEN	N Classification, Downscaling	
EV_2	Normalization	Will be discussed the options in SG EV 13 th meeting	OPEN	Study the applicability to HEV	
EV_3	Supplemental Test (low temp./high altitude)	No progress Will be discussed in SG EV 13 th meeting	OPEN	Handle EV unique portions	
EV_4	Supplemental Test (auxiliary device)	No progress Will be discussed in SG EV 13 th meeting	OPEN	Handle EV unique portions	
EV_5	Post processing	No comments on the ACEA proposal	CLOSED	Handle EV unique portions	
EV_6	Durability	Will be discussed regarding durability of REESS in 73 th GRPE	OPEN	study on battery durability	
EV_7	OBD	Questionnaire was distributed Will be discussed based in SG EV 13 th meeting	OPEN	Handle EV unique portions	
EV_8	FCHV	New proposal of test procedure for OVC-FCHVs from ACEA	OPEN	OVC-FCV Flow Method	
EV_9	gtr amendment	Errors have been discovered Will be addressed continuously	OPEN		

EV_2: Normalization

Overview:

WLTP-IWG has made a decision not to apply "Normalization" since no study on EVs has done during Phase1 activities. After completion of EVs study, applicability of "Normalization" should be re-discussed.

Current status:

- ✓ "Normalization" works same level as ICE vehicles for all parameters under CS conditions on specific model.
- ✓ "Normalization" doesn't work for all parameters under CD conditions.

	CO2/Fuel Consumption	Range	Electric Consumption
CS conditions	SO-SO	NA	NA
CD conditions	NG	NG	NG

Next Actions:

- ✓ Asking other parties for additional study.
- ✓ Consider the way (possible options) to proceed continuously:
 - No correction algorithm but apply drive trace index with criteria for all type of vehicles
 - Apply correction algorithm on only parameters which are well justified
 - Develop the methodologies to take care of all parameters

EV_6: Durability

Overview:

Durability performance up to useful life is one of working items during phase2 activities. After confirming the CP needs which parameter need to be evaluated up to useful life, WLTP-IWG takes care of ICE and/or pollutant devices. At the same time, WLTP SG EV takes care of EV specific requirements on

At the same time, WLTP SG EV takes care of EV specific requirements on performance and durability.

Current status:

- ✓ Only EC has requested to consider parameters which have an effect on EV performance and durability
- ✓ Recommendation of IWG EVE: it is premature to develop a procedure for battery and therefore vehicle durability; the topic should be continuously followed and the recommendation could be changed
- ✓ TF durability presents starting note.
 - Development of a procedure to determine REESS durability has been questioned by EVE IWG.
 - TF propose to evaluate if possible to design reliable and feasible procedure.
 - A study shall be carried out until GRPE in January 2017.

Next Actions:

- ✓ A. Continue collaboration between WLTP and EVE (will be discussed during 73th GRPE)
- ✓ B. Asking for feedback of contracting parties
- ✓ C. Consider alternative scenario if development of specific aging procedure has a technical difficulty.

EV_7: OBD EV 8: FCV

EV_9 : gtr amendment (Phase 1b) EV_COP : input for In-Service TF

EVAP. TF: EVAP test procedure for HEVs

Current status:

EV_7 (OBD): Questionnaire was distributed by the TF.

Interested SG EV experts will participate in TF discussions with respect to the EV related items.

EV_8 (FCHV): New proposal for OVC-FCHV from ACEA.

- Procedure based on OVC-HEV. The only difference is to measure hydrogen consumption in all phases.
- Weighing of CD and CS test according to the procedure for OVC-HEV
- EV_9 (GTR amendments): EC explains that errors and inconsistencies have been discovered during transposition of GTR15 into European legislation → these need to be needed to address
- EV_COP: EU approach presented by ACEA WLTP EV group at 11th SG EV meeting.
 - Feedback requested from other CP and will be discussed at 13th SG EV meeting.
- TF_EVAP: Proposal from Japan that purge cycle shall be performed under CD condition for OVC-HEV was approved.

Next Actions:

- ✓ EV_7 will be discussed at 13th SG EV meeting
- ✓ EV_8, EV_9 and EV_COP will be further discussed at 13th SG EV meeting

2. Next Actions

#	items	2016	2017	2018	2019
EV_1	HEV system power	collaborate wit		nsider classificat eshold and dow	
EV_2	Normalization	additional stud		zation" or "Inde	xes" ?
EV_3	Supplemental Test (low temp./high altitude)	collaborate with TF	Am	end_2, if neces	sary 🖈
EV_4	Supplemental Test (auxiliary device)	collaborate with TF	Am	end_2, if neces	sary 🖈
EV_5	Post processing	→★ comp	lete		
EV_6	Durability collabora	te with EVE	decision for ne	ext step	*
EV_7	OBD			with OBD TF f EV unique iter	ns
EV_8	FCV OV	C-FCHV	osal	finalizatio	<u> </u> n
EV_9	gtr amendment	Amend_1	Ar	nend_2, if neces	sary