

Update on IWG WLTP Work (EVE-22-xxe)

22nd EVE IWG
10/11 April 2017

Working items and task forces under WLTP

Under the umbrella of the IWG WLTP, several working items are being handled during WLTP Phase 2 by several Task Forces (TFs)

- Cycle → TF Cycle
- Supplemental Tests → TF Supplemental Test
- EVAP → TF EVAP
- OBD → TF OBD
- In-Service-Conformity/Conformity of Production → TF ISC/COP
- EV-limited items → Subgroup EV

Current status of the work of the Task Forces and the Subgroup EV are presented in the following document: WLTP-18-03e

Status: Task Force Cycle

Task Force Cycle is covering items

- **Cycle Classification, Cycle Downscaling:**

Cycle Classification and Cycle Downscaling is at the moment only applicable for ICE vehicles but not for OVC-HEVs and NOVC-HEVs.

→ No standardized hybrid system power determination available

→ Collaboration with IWG EVE, update from EVE in EVE-22

- **Drive Trace Index:**

Japan is preparing a proposal for the drive trace index

Proposal will be available for the 18th IWG WLTP meeting in Bern

Proposal is also covering electrified vehicles (PEVs, [N]OVC-HEVs)

Status report ([WLTP-18-05e](#)) by TF leader H. Steven

Status: Task Force Supplemental Test

Task Force Supplemental Test is covering the item

Low and realistic winter temperature testing

This Task Force had a face-2-face meeting at JRC in Ispra/Italy (March 13/14th) where the terms of reference as well as the working plan had been finalized
Next meeting will be a web-audio conference on April 27th.

Next steps:

Working on specific procedures and proposals (discussion of all details in the context of the procedure, e.g. soaking time)

But still a kind of an unclear situation about the contracting parties needs (temperature set point, purpose of the values, ...)

TF leader Cova Astorga-Llorens (JRC) will present the finalized terms of reference (WLTP-18-09e) and the finalized working plan (WLTP-18-10e)

Status: Task Force EVAP

Task Force EVAP is covering the item

Evaporative Emissions

During Phase 2b of WLTP, this Task Force is working on a test procedure for sealed tanks (was not covered by the work of this Task Force during WLTP Phase 2a)

To discuss and finalize the draft , there had been several web-audio meetings during the last weeks

April 12th and 13th will be a face-2-face-meeting in Brussels

Status report (WLTP-18-07e) and presentation of a GTR draft (WLTP-18-08e) by TF leader M. Morimoto (JP)

Status: Task Force Durability

Task Force Durability is covering the item

Durability in case of emissions

At the very beginning of the work of this task force, the topic battery performance and durability was excluded from the work of this task force and shifted to the WLTP Subgroup EV.

Task Force Durability is covering the durability of after treatment system for emission filtering

WLTP Subgroup EV is covering the topic battery performance and durability

WLTP Subgroup EV will continue the collaboration with the IWG EVE

Important as battery durability is not only customer information but also from environmental relevance as especially in case of a Plug-In-Hybrid the ICE is running more often with a deteriorated battery

Status report (WLTP-18-13e) as well as presentation of the terms of reference and the working plan (WLTP-18-14e) by TF leader A. Marotta (EC)

Status: Task Force OBD

Task Force OBD is covering the item

OBD

Task Force OBD had several web-audio conferences over the last weeks (February 21st, April 6th) where the members discussed e.g. the test cycle and the test vehicle.

Next meeting will be a face-2-face-meeting held on June 2nd at the JAMA office in Brussels (10am to 5:30pm CET)

Status report ([WLTP-18-15e](#)) by TF leader M. Morimoto (JP)

Status: Task Force ISC/COP

Task Force OBD is covering the items

In-Service-Conformity and Conformity of Production

- First Task Force Meeting was a F-2-F meeting on March 16th
- Next meeting will be a web-audio on April 26th
- Items to be discussed within this TF:
 - R/L, pollutants, CO₂/FC/range

Status report (WLTP-18-16e) and presentation of terms of reference and/or work plan (WLTP-18-17e) by TF leader A. Marotta (EC)

Status: WLTP Subgroup EV

- Subgroup EV is supporting all the task forces under the WLTP umbrella with expertise from the electrified vehicle side
- WLTP Subgroup EV is the interface between the IWG WLTP and the IWG EVE concerning the topics
 - Battery performance and durability
 - Hybrid-System Power Determination
- Additional Tasks for the Subgroup EV during WLTP Phase 2
 - Development of a test procedure for Plug-In-Fuel Cell Vehicles
- Status report ([WLTP-18-20e](#)) by the Subgroup EV chairs N. Mizushima (JP) and P. Ohlund (SWE)

WLTP Subgroup EV: Next Actions

#	items	2016	2017	2018	2019
EV_1	HEV system power	collaborate with EVE		★ Consider classification threshold and	★ downscale ratio
EV_2	Drive Trace Index	★	additional study "Indexes"		★
EV_3	Supplemental Test (low temp./high altitude)	collaborate with TF	Amend_2, if necessary		★
EV_4	Supplemental Test (auxiliary device)	collaborate with TF	Amend_2, if necessary		★
EV_5	Post processing	→ ★ complete			
EV_6	Durability	collaborate with EVE and TF		★ decision for next step	★
EV_7	OBD		collaborate with OBD TF takes care of EV unique items		★
EV_8	FCV	OVC-FCHV ★ proposal		★ finalization	
EV_9	gtr amendment	Amend_1 ★		Amend_2, if necessary	★

Next IWG WLTP Meeting

The next IWG WLTP meeting will be next week

Date: April 18th to April 20th

Location: Bern/Switzerland

Documents shown in this presentation are all
uploaded on the UN-Server:

<https://www2.unece.org/wiki/display/trans/WLTP+18th+session>

BACK UP

1. Summary

#	items	RESULTS	status	remarks
EV_1	HEV system power	Continue to collaborate with EVE and develop the test procedure. EVE IWG was approved proposal time schedule on system power by AC3. Draft GTR will be available in June 2018.	OPEN	Classification, Downscaling
EV_2	Normalization	Has made a decision not to apply Normalization. Drive trace index was evaluated. Possible indexes and concrete criteria will be proposed during 18 th IWG.	OPEN	Study the applicability to HEV
EV_3	Supplemental Test (low temp./high altitude)	Collaborate with Low Temp. TF TOR was presented at WLTP IWG 17 meeting. EV issues (range) will be discussed in SG EV.	OPEN	Handle EV unique portions
EV_4	Supplemental Test (auxiliary device)	Collaborate with Low Temp. TF	OPEN	Handle EV unique portions
EV_5	Post processing	Adapted waiting for WLTP IWG	CLOSED	Handle EV unique portions

1. Summary

#	items	RESULTS	status	remarks
EV_6	Durability	SG EV takes responsible for battery durability in the durability TF. SG EV will continue to collaborate with EVE and develop the test procedure.	OPEN	study on battery durability
EV_7	OBD	No progress. Continue to follow OBD TF.	OPEN	Handle EV unique portions
EV_8	FCHV	OVC-FCHVs proposal from ACEA is still under discussion and topic will be shifted to Phase 2b. JP will scrutinize ACEA proposal by the next SG EV meeting.	OPEN	OVC-FCV Flow Method
EV_9	gtr amendment	ACEA proposed to change AERcity test method. JP will check ACEA proposal.	OPEN	