Japan Proposals on UBE/UBC measurement

prepared by Japan @EVE64 19th & 20th September 2023

(shear this item at day 2)

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- 1. Add new criteria under the Part A family definition
 - ➢ same measurement parameter
 - same measurement procedure
 (to avoid manipulating the Part A verification program)
- 2. Matrix of measurement procedure and parameter

Cases	Procedure		Donomotor	Measurement device	
	main	alternative	Parameter	Voltage	Ampere
with bidi charger function	cycle repetition + constant C-rate by bidi-charger	chassis dynamometer testing	discharge UBE	external or on-board sensor after demonstrating the equivalency with external device	external
			discharge UBC	NA (in case of difficulty to measure voltage)	
without bidi charger	with multiple steady dynamometer	dynamometer	discharge UBE	external or on-board sensor after demonstrating the equivalency with external device	external
function	(e.g. 60/80/100/120 km/h)]		discharge UBC	NA (in case of difficulty to measure voltage)	

Comments and/or Feedbacks on EVE-64-07 (by OICA)

Slide #	messages	Japan Comments and/or Feedbacks	
2	request flexibility for UBE/UBC selection	 not able to support ➢ against JPN position (should not be optional) ➢ no technical observation/evidence is provided 	
3	assuming propose "charge test procedure" ?	if so, not able to make a comment due to extremely lack of necessary information	
4~7	FCE parameter instead of distance	 propose to delete at this stage ➢ GTR is not able to apply FCE without specific threshold (at least, OICA should provide the methodology how to determine the threshold) 	
8 ~ 10	?	hard to figure out without further explanation e.g. simulation detail, definition of "new" and "aged" battery,	
11 ~ 14	request flexibility for test procedure	OK with approval by technical authorities and same procedure shall be applied during homologation and ISC	
15 ~ 21	difficulty to obtain accurate results during discharge ?	 not able to support, only message JPN recognizes is that on-board voltage sensor is not accurate enough to use > a bunch of non-engineering comments and/or analysis e.g. "significant impact of payload/route" for only energy? Why? "very difficult to reach same SOC min level", → under this situation, why charge capacity/energy is going to be stable? "non-accurate results by using non-accurate sensor?", this not the engineering test 	

Slide #	messages	Japan Comments and/or Feedbacks	
22	conclusions	 delete at this stage "dominating"? so what ? hard to understand the message please refer slide#1 	