

		Status	critical degree	urgency or closed date	base document : 210308 - ECE-TRANS-WP29-GRPE-2021-XXe - EVE IWG Proposal for Battery Durability GTR_Track changes.docx	
					concerns and/or comments	solutions
Main Body						
3	Definitions					
	For any terms not herein defined, the definition set out in UN GTR No. 15 shall apply	deleted with no discussion and with no []	high	high	1. may lead unnecessary conflict with other GTRs (e.g. same terminology but different meaning and vice versa) 2. quite efficient to refer the existing GTR	go back to original text
	3.x. Battery/Rechargeable electrical energy storage system	open	high	high	make it clear what kind of batteries (REESSs) will be applicable and the appropriate terminology in this GTR	exclude non-traction REESSs (i.e. 12V auxiliary battery) REESS is OK for US/Canada ? please refer appendix3
	3.x. UBE/Electric Range describe calculation formula	open	high	high	1. inappropriate to describe the calculation formula in definition 2. "test procedure used for certification" refer a variety of test procedure. Better to make it clear. e.g. Type1 in case of GTR#15,	delete the whole calculation formula then create new Annex to clarify the test procedure and the calculation process for each performance parameter (please refer the appendix1)
	3.x. UBE In the confirmation cycle or charge-balanced cycle, the energy balance shall be considered and corrected to a charging balance neutral energy balance.	open	high	high	need to make it clear how to "correct to a charging balance neutral energy balance"	delete, then define correction methodology in new Annex based on IWG agreement
	3.x. Minimum Performance Requirement/ Declared Performance Requirement	open	none	high	same description in main body may have a chance to modify only one portion, then create unnecessary confusion	delete from definition section
	3.x Certified usable battery energy	open	mid	high	better to use same terminology "certified UBE" or "certified energy" ?	"certified UBE"
	3.x Measured usable battery energy Measured range	open	mid	high	use terminology in definition section only	delete from definition section
	3.x. SOCR/SOCE monitor Estimated SOCR/SOCE Measured SOCR/SOCE	open	none	high	same description in main body may have a chance to modify only one portion, then create unnecessary confusion	delete from definition section
5	Requirements					
5.1.	shall determine the algorithms by which estimated SOCR and estimated SOCE are determined for the vehicles they produce	closed	low	high	<editorial comments> "estimated, including estimated SOCE/SOCR" may mislead unnecessary criticism (regulate with estimated value?) better to use the harmonized terminology	how about "on-board" ? in-line with OBFM wordings
	The estimated SOCR and SOCE shall be rounded to the [nearest whole number/first decimal place] according to paragraph 7 of this UN-GTR	open	high	high		please refer JPN comments_Part 2
5.2.	In the second case, the values shall apply from the start of the life of a vehicle up to 8 years or 160,000 km, whichever comes first	closed	low	high	clarify the meaning of the text "In the second case" means 8 years or 160,000km ? If so, how about "first case" ? Described in Table clearly	can be deleted
	Table 1/2 MPRI	open	high	high	support proposed text	delete []
	The manufacturer shall ensure that batteries installed in vehicles will perform equal or better than the MPRI (or DPRI if applicable)	closed	high	high	conflict with para. 6.4.2.	delete "The manufacturer shall ensure that batteries installed in vehicles will perform equal or better than the MPRI (or DPRI if applicable) "
6.	In-Use Verification					
6.1.	with respect to verification of the SOCR/SOCE monitors [and shall be subsets of Part A families]	closed open	none high	high high	editorial error	with respect to verification of the estimated (or on-board) SOCR/SOCE please refer JPN comments_Part 2
6.2.	monitor family may be extended in the case of a different algorithm or BMS if there is sufficient evidence that the performance of the monitor will not be affected other systems that might influence the electric energy consumption of the vehicle	closed closed	mid mid	high high	hard to understand, please help me different algorithm can be same family ? including tyre wear, brake friction, lamp malfunction and so on ? It's too much and ambiguous	
6.3.	Part A: Verification of SOCR/SOCE monitors					
6.3.1.	[The verification of the monitors shall not be mandatory if the annual sales of the monitor family are less than 5,000 vehicles in the market for the previous year. Such in-service conformity families may still be selected to be tested for Part A, at the request of the responsible authorities.]	open	high	high		please refer JPN comments_Part 2
6.3.2.	[whole number/first decimal place]	open	high	high		please refer JPN comments_Part 2
	UBE _{declared} /Range _{declared}	open	high	high		create new Annex to clarify the test procedure and the calculation process for each performance parameter (please refer the appendix1)
6.3.4.	Statistical Method for Pass/Fail decision for a sample of vehicles	open	high	high		please refer JPN comments_Part 2
	OptionB x _i = SOC _{read,i} /SOC _{measured,i} □	open	high	high		please refer JPN comments_Part 2
	OptionB the factor A shall be set at [1.01]	open	high	high	depend on the resolution of on-board SOCE/SOCR	
6.4.1.	If the number of vehicles in the sample is less than [500], then presence of a flag of the monitor triggered by Cases B of Annex 2 shall be used to decide whether the vehicle has been abnormally used and therefore should be excluded from the sample. All vehicles with a flag of the monitor according to Annex 2, Cases A shall be excluded from the sample	open	none	high	clarify the meaning of the text please refer the appendix2	
6.4.2.	[90 per cent]	open	high	high	support 90 per cent	delete []
7	Rounding	added with no discussion and with no []	low	high		delete whole section if IWG agree that no rounding is necessary, otherwise refer GTR#15 para. 7. in main body
Annex 1	Vehicle Owner Interview Was the vehicle stored and not used for more than one full month during its life? If so, how many times per year?	added with no discussion and with no []	low	high	clarify the meaning of this survey (seems to be same content as Annex2/Case_B) please refer the appendix2	
Annex 2		open	high	high		please refer JPN comments_Part 2