## Japan Comments on EVE GTR\_46th EVE IWG Meeting

MUST items to be discussed

		Status	critical degree	Urgency or closed date	reference document : ECE-TRANS-WP29-G Battery Durability GTR 261	March version.docx	base document : 2103 for Ba
Main Bo	dv.				concerns and/or comments	solutions	concerns and/or
I I	Statement of technical rationale and justification	open		high	waiting for the draft text		
2	Scope and application	closed	low	45th Mtg.			
3	Definitions				including some edditorial proposals	please refer JPN Appendix1_EVE GTR for the concrete counter- proposals	
	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		support the reference document	<ol> <li>may lead unnecessary coni (e.g. same terminology but d vise versa)</li> <li>quite efficient to refer the efficient to re</li></ol>
	3.x. Battery/Rechargeable electrical energy storage system	open	high	high		please refer JPN Appendix1_EVE GTR for the concrete counter- proposals	make it clear what kind of bai be applicable and the approp this GTR
	3.x. UBE/Electric Range describe calculation formula	open	high	high		please refer JPN Appendix2_EVE GTR for further explanation	<ol> <li>inappropriate to describe t formula in definition</li> <li>"test procedure used for ce variety of test procedure. Bet e.g. Type1 in case of GTR#1!</li> </ol>
	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		please refer JPN Appendix3_EVE GTR	need to make it clear how to balance neutral energy baland
	3.x. Electric Range	open	high	high		please refer JPN Appendix1_EVE	
	3.x. Minimum Performance Requirement/ Declared Performance Requirement	open	none	high	•	GTR for the concrete counter- proposals	same description in main bod may have a chance to modify then create unnecessary conf
	3.x Certified usable battery energy	open	mid	high			better to use same terminolog "certified UBE" or "certified en
	3.x Measured usable battery energy Measured range	open	mid	high	withdraw the previous comments		use terminology in definition
	3.x. SOCR/SOCE monitor Estimated SOCR/SOCE Measured SOCR/SOCE	open	none	high			same description in main bod may have a chance to modify then create unnecessary conf
5	Requirements						
5.1.	shall determine the algorithms by which estimated SOCR and estimated SOCE are determined for the vehicles they produce	closed	low	45th Mtg.	appreciate to reflect JPN proposals	support the reference document	<editorial comments=""> "estimated, including estimat mislead unnecessary criticism estimated value?) better to use the harmonized</editorial>
	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	appreciate to reflect JPN concerns on the latest text and <b>positively accept</b> the 1/100 resolution. it'd be highly expected if the following statements shall be noted in the technical report. "the resolution of on-board SOCE and SOCR :	support the reference document	
					the resolution is neither accuracy nor precision but means the smallest change in the measured property that produces a change in the measurement" (← come from "chat" during 45th IWG meeting)		<b>N</b> 10
	The resolution for the customer values shall be determined in accordance with the authorities.	closed		45th Mtg.	appreciate to reflect JPN concerns on the latest text		NA
	· · · ·		1	hish		please refer JPN Appendix1_EVE GTR for the concrete counter-	clarify the meaning of the tex case" means 8 years or 160,0
5.2.	start of the life of a vehicle up to 8 years or 160,000 km, whichever comes first Table 1 and 2 MPRi	closed	low	high		proposals	about "first case" ? Described

10308 - ECE-TRANS-WP29-GRPE-2021-XXe - EVE IWG Proposal r Battery Durability GTR\_Track changes.docx

or comments	solutions
onflict with other GTRs t different meaning and	go back to original text
ne existing GTR batteries (REESSs) will opriate terminology in	exclude non-traction REESSs (i.e. 12V auxiliary battery) REESS is OK for US/Canada ? please refer appendix3
e the calculation r certification" refer a Better to make it clear. #15, to "correct to a charging ance"	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) delete, then define correction methodology in new Annex based on IWG agreement
oody	delete from definition section
lify only one portion, onfusion	
blogy I energy" ?	"certified UBE"
on section only	delete from definition section
oody lify only one portion, onfusion	delete from definition section
	how about "on -board" ?
nated SOCE/SOCR" may ism (regulate with	in-line with OBFCM wordings
ed terminology	please refer JPN comments_Part2
	NA
text "In the second 0,000km ? If so, how bed in Table clearly	can be deleted
	delete [ ]

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			Status critical Urgency or degree closed date			reference document : ECE-TRANS-WP29-GRPE-2021-XXe - EVE IWG Proposal for Battery Durability GTR 26March version.docx		base document : 2103 for B
						concerns and/or comments	solutions	concerns and/or
19		The manufacturer shall ensure that batteries installed in vehicles will perform equal or better than the MPRi (or DPRi if applicable)	open	high	high	same as previous position	delete the relevant text or modify to match the para. 6.4.2.	conflict with para. 6.4.2.
20	6.	In-Use Verification						
21	6.1.	with respect to verification of the SOCR/SOCE monitors	closed	none	high	withdraw the previous comments	support the reference document	editorial error
22		[and shall be subsets of Part A families]	open	high	high	this requirement is not necessary technically and/or practically	delete both [ ] and text	
23	6.1.1. 6.1.2.		open	high	low	sopport the latest description	remove [ ]	
24		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	open	mid	high	withdraw the previous comments	support the reference document	hard to understand, please h different algorithm can be sa
25		other systems that might influence the electric energy consumption of the vehicle	closed	mid	high	"other system" may lead multiple interpretation and create unnecessary confusion	propose to add current EU reguratory text, please refer JPN Appendix1_EVE GTR	including tyre wear, brake fri malfunction and so on ? It's too much and ambiguous
26	6.3.	Part A: Verification of SOCR/SOCE monitors						
27	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.]	closed	high	45th Mtg.	appreciate to reflect JPN concerns on the latest text	support the reference document	
28	6.3.2.	[whole number/first decimal place]	open	high	high	should NOT be rounded (please refer JPN Appendix4_EVE GTR for explanation)	delete relevant text	
29		UBE <sub>declared</sub> /Range <sub>declared</sub>	open	high	high		create new Annex to clarify the test procedure and the calculation process for each performance parameter (JPN Appendix1_EVE GTR)	
30	6.3.4.	Statistical Method for Pass/Fail decision for a sample of vehicles	open	high	high			
31		OptionB x_i= SOC_read,i/SOC_measured,i	open	high	high	same as previous position	please refer JPN Appendix1_EVE GTR for the concrete counter-	
32		OptionB the factor A shall be set at [1.01]	open	high	high		proposals	depend on the resolution of o
33	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	add flow chart	please refer JPN Appendix1_EVE GTR	clarify the meaning of the tex please refer the appendix2
34	6.4.2.	[90 per cent]	closed	high	45th Mtg.			support 90 per cent
35		The percentage from the vehicle sample shall be rounded to the [nearest whole number/first decimal place] according to paragraph 7 of this GTR.	open	high	high	should NOT be rounded e.g. 1,000 sample : 895 is OK ?	delete relevant text	
36	7	Rounding	closed	low	45th Mtg.		support the reference document	
37	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?	closed	low	45th Mtg.		support the reference document	clarify the meaning of this su same content as Annex2/Cas please refer the appendix2
38	Annex 2		open	high	high	withdraw the previous proposals due to luck of technical justification with just	please refer JPN Appendix1_EVE GTR for the concrete counter-	
						1		

0308 - ECE-TRANS-WP29-GRPE-2021-XXe - EVE IWG Proposal
Battery Durability GTR_Track changes.docx

or comments	solutions
	delete "The manufacturer shall ensure that
	batteries installed in vehicles will perform
	equal or better than the MPRi (or DPRi if
	applicable) "
	with respect to verification of the estimated
	(or on-board) SOCR/SOCE
	please refer JPN comments_Part2
e help me	
same family ?	
Sume furnity .	
friction, lamp	
ous	
	please refer JPN comments_Part2
	alagaa wafay JDN aayaa ayka Dayto
	please refer JPN comments_Part2
	create new Annex to clarify the test
	procedure and the calculation process for each performance parameter (please refer the
	appendix1)
	please refer JPN comments_Part2
	please refer JPN comments_Part2
of on-board SOCE/SOCR	
text	
	delete [ ]
	delete whole section if IWG agree that no
	rounding is necessary, otherwise
	refer GTR#15 para. 7. in main body
/	
survey (seems to be	
Case_B)	
	please refer JPN comments_Part2