UN GTR 22
Propose of Part C verification and other items

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92nd EVE IWG

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1. Information gathering (Paragraph 6.2. in GTR22 and also in GTR25)

Current text

The following information shall be made available to the authorities by the manufacturer in a format to be agreed between the authorities and the manufacturer: annual report on relevant warranty claims; and annual statistics on repairs for both batteries and other systems that might influence the electric energy consumption of the vehicle. Such information shall be made available once a year for each battery durability family for the duration of the period defined in paragraph 5.2. after the last vehicle of this family is [produced].

Comments :
Based on the intensive discussion regarding the UNR transposition in Japan, Japan is in the position to require the above information when necessary, not every year. It'd be appreciated to modify also HD GTR if the following proposals is not contradictory.

Proposal

The following information shall be made available to the authorities by the manufacturer in a format to be agreed between the authorities and the manufacturer: annual report on relevant warranty claims; and annual statistics on repairs for both batteries and other systems that might influence the electric energy consumption of the vehicle. Such information shall be made available once a year for each battery durability family for the duration of the period defined in paragraph 5.2. after the last vehicle of this family is [produced].
At the option of the Contracting Party(responsible authority), the submission timing of the above information for the applicable battery durability family is based on the request from Contracting Party(responsible authority).

2. Values to be read from vehicles (Annex 2 in GTR22)

Comments :
Parameters and its requirement (mandate/optional) in Annex 2 should be in line with R154/04.
- "Date of manufacturer" is moved to regional requirement category
- "Part B family identifier" is added to regional requirement category
- Changed requirement of "Virtual distance related parameters" to optional

Proposal

Mandatory values :
1. On board SOCE value [%]
2. On board SOCR value [%]
3. Odometer (i.e. distance driven by the vehicle) [km]
~~4. Date of manufacture of the vehicle (At the option of the manufacturer: the date of installation of the originally installed battery, as defined in paragraph 3.2. of this regulation, which is the process step during the manufacture of the vehicle, at which point the vehicle can drive, powered exclusively by electric power and energy from the mentioned battery .)~~
5. Elapsed time since battery SOC last increased by more than 50 percentage points [days]
6. Average battery temperature while propulsion system is active, during charging and (if equipped) during non-usage of the vehicles (i.e. non-propulsion system active, non-charging)

Values that may be required if manufacturer applies virtual distance option:

(omitted)

Values that may be required by regional regulations:
xx. Date of manufacture of the vehicle (At the option of the manufacturer: the date of installation of the originally installed battery, as defined in paragraph 3.2. of this regulation, which is the process step during the manufacture of the vehicle, at which point the vehicle can drive, powered exclusively by electric power and energy from the mentioned battery .)
12. Energy throughput [kWh]
xx. Part B family identifier

3. Definition (Paragraph 3 in GTR22)

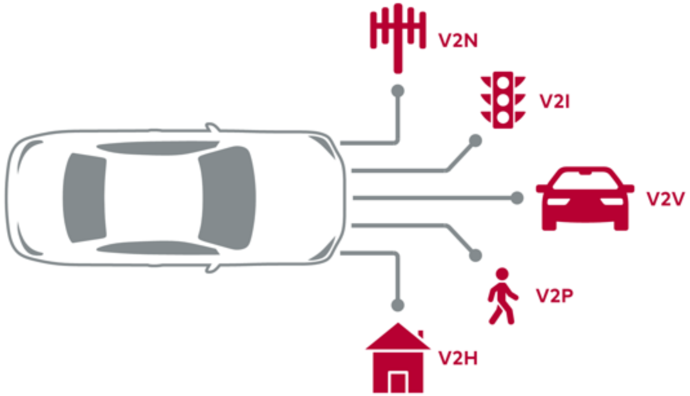
Comments :
Propose to add a definition of "Part B family identifier", taking into account requirement of "Part B family identifier" in Annex 2.
Coding rule is in line with paragraph 6.2.1. of R154/04.

Proposal
3.28. "Part B family identifier" means a unique code of Battery Durability family as defined in paragraph 6.1.2. of this GTR, and complies the following format. *BD-nnnnnnnnnnnnnnn-WMI* *Where:* *nnnnnnnnnnnnnnn is a string with a maximum of fifteen characters, restricted to using the characters 0-9, A-Z and the underscore character '_'.* *WMI (world manufacturer identifier) is a code that identifies the manufacturer in a unique manner defined in ISO 3780:2009.* *It is the responsibility of the owner of the WMI to ensure that the combination of the string nnnnnnnnnnnnnnn and the WMI is unique to the family and that the string nnnnnnnnnnnnnnn is unique within that WMI to the approval tests performed to obtain the approval.*

4. Part C: Verification of reported virtual distance (Paragraph 6.5.1.3. and 6.5.2. in GTR22)

Comments :
All V2X functions used in the VD application should be verified.
If there are multiple functions, they can be verified together.

Paragraph	*Proposal*
6.5.1.3.	*During virtual distance verification test, the V2X or non-traction purposes, if applicable, use case delivering the highest discharging power, shall be used. A discharging power lower than the highest discharging power may be selected if requested by the manufacturer and with approval of the responsible authority.* *During the discharge event, all energy passes which contribute the determination of the virtual distance shall be measured. In the case that it is not executed with one test, separate test for each pass or combination of passes is allowed (please refer the drawing below).*
6.5.2.	*The total discharge energy which contributes the virtual distance during the virtual distance verification test shall be measured [at the battery] in order to calculate the measured virtual distance.*



passes	Model_A		Model_B	
	Applicable for virtual distance	Part C verification	Applicable for virtual distance	Part C verification
V2N	Y	verify	Y	verify
V2I	Y	verify	NA	NA
V2V	Y	verify	Y	verify
V2P	Y	verify	NA	NA
V2H	Y	verify	Y	verify
others	Y	verify	NA	NA

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