Part A Family

[Draft]

UN GTR for In-Vehicle-Battery Durability
Current text in GTR Draft for Part A Family (Paragraph 6.1.1.)

6.1.1. For Part A: **Verification of Monitors**

Only vehicles that are identical with respect to the following elements may be part of the same **monitor family**:

(a) Algorithm for estimating SOCR and SOCE, and for determining flag conditions described in Annex 2, including software version*

(b) Sensor configuration (for sensors providing data used in determination of SOCR and SOCE estimates and flag conditions)

(c) Type and dimension of cell (including format and chemistry)

(d) Battery management system (BMS)* (with regards to battery durability monitoring and estimations)

(e) Type of vehicle (PEVs or OVC-HEVs)

UN GTR for In-Vehicle-Battery Durability
OICA proposal for Part A Family

Discussion within OICA if software version and sensor configuration can be deleted.

For PART A: **Verification of monitors**

Only vehicles that are identical with respect to the following elements may be part of the same **monitor family**:

(a)Algorithm for estimated SOCR and SOCE calculation within/outside BMS, identified by software version*

(b)Algorithm for flagging estimated SOCR and SOCE according to the conditions described in Annex 2 within/outside BMS,

identified by software version*

(c)Sensor configuration (for sensors ~~providing data~~ used in determination of SOCR and SOCE estimates and flag conditions)

~~(d)Battery management system (BMS)* (with regards to battery durability m~~

Relevant parts of BMS are covered by (a) and (b)
→ To make the clear: add "within/outside BMS" to (a) and (b)

(e)Type and dimension of cell (including format and chemistry)

(f) Type of vehicle (PEVs or OVC-HEV

Proposed new wording for e) → "Characteristics of battery cell which have a non negligible influence on accuracy of monitor"
Justification for new wording and replacing the old wording:
- Type is too unspecific and does not make clear what is meant
- Dimension does not necessarily have an influence on accuracy of monitor
- With updated wording, it is clear that only characteristics of a cell with negligible influences on monitor can be grouped together. Slightly different cells lead not in general to a new Family now.

* At the request of the manufacturer and the approval of the responsible authority the monitor family may be extended in the case of a different algorithm or cell or sensor configuration if there is sufficient evidence that the performance of the monitor will not be affected.