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**Proposal for a “warning requirement for the management system of the REESS” (Para. 5.X4 of EVS-04-07)**

(Action item #10 from the 4th meeting of EVS informal working group)

Proposals:

5.1.X The warning signal shall be given to the driver by an optical signal in yellow or text in the information display at least when the vehicle is active driving possible mode, when a malfunction occurs in the management system of the REESS to prevent over-charge, over-discharge or over-temperature (e.g. a disconnection or a short-circuit in voltage-sensors, temperature-sensors, current-sensors, communication wirings). The compliance to this requirement shall be assessed by simulating the disconnection or the short-circuit of the relevant device.

5.1.X.1 When illuminated, the warning signal shall be sufficiently bright to be visible to the driver under both daylight and night-time driving conditions, when the driver has adapted to the ambient roadway light conditions.

5.1.X.2 This warning signal shall be activated as a check of lamp function either when the propulsion system is turned to the "On" position, or when the propulsion system is in a position between "On" and "Start" that is designated by the manufacturer as a check position. This requirement does not apply to the optical signal or text shown in a common space.

Justification:

The current GTR draft provides REESS safety requirements for various situations. These REESS safety requirements assume that the management system of the REESS is properly functioning.

Especially, the requirements of over-charge test, over-discharge test and over temperature test are, in principle, to assess the functionality of the management system.　Therefore, in order to ensure the safety in real life, it is important to ensure that the vehicle will not be continuously used under the failure condition of the management system. This requirement applies when the driver is seated in the vehicle and switched to the active driving possible mode.

Due to the complexity of the REESS management system, only basic requirements can be proposed for regulatory purpose, but the inclusion of such requirements will contribute to eliminate the use of poorly designed vehicles.