

## **Proposal to set up an Expert Group on the construction and functional safety of high voltage vehicles to establish requirements for the RESS (Rechargeable Energy Storage System)**

As a result of Electric Mobility activities having been initiated in different countries to contribute to sustainable surface transport, a raising interest on Electric Vehicles can be seen. Accompanied by incentive initiatives by governments, this will lead to an increasing number of high voltage vehicles coming on the road within the next years.

The activities of the Informal Group on Electric Safety and the Expert Group on Electric Vehicle Post Crash-safety (EVPC) developed amendments to regulations 12, 94, 95 and 100 and amended the scope of these regulations adopting it to high voltage vehicles. The amendments include basic requirements needed for approving high voltage vehicles within the type approval system ensuring a basic safety level of these vehicles.

As a result of discussions of Experts on Electric Safety it can be concluded that additional requirements for parts and systems used exclusively in high voltage vehicles are needed. This will ensure a high level of safety for vehicles independent of the propulsion technology. Especially the RESS system is in the focus, as it may have potential safety risks depending of the type of system used. To ensure the safety of these systems used in vehicles, it is proposed to set up an Expert Group to commonly work on the development and establishment of requirements to be applied to the RESS.

As the experience was very good with the EVPC group focussing on the amendment of regulations 12, 94 and 95, it is proposed to set up an Expert Group within the mandate of the ELSA group to concentrate on developing RESS safety requirements. The aim of this group shall be the development of RESS safety requirements without compromising new technologies that may come to market in near future.

As this activity is planned to be finalized within a short period of time, it is proposed to start the work soon within this Expert Group.

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