

Input for “3.2 Approach B” of “DRAFT – May 2017 Status Report Options for EVE on Battery Durability” (document number EVE-23-05e.pdf)

As the example of deterioration factor for verifying the durability of pollution control devices, “Type V test” in 5.3.6 of R083r5e can be referred. The deterioration factor was build considering degradation of catalyst of pollution control devices for vehicles with engines with positive ignition as the major factor.

The increase of internal resistance or decrease of capacity of REESS of OVC-HEVs and NOVC-HEVs which are caused by the degradation will impact on emissions of pollutant. On the other hand, the engine controls can be tuned appropriately by the observation of battery degradation in order to manage pollutant emissions.

As this perspective, for OVC-HEVs and NOVC-HEVs which equip engines with positive ignition, the deterioration factor in the same manner with R083 could be considerable in case evidencing the followings.

The vehicle shall manage pollutant emissions to comply the durability requirement when the REESS degraded.

The degradation of REESS of such vehicles:

- shall not influence on the functions of pollution control devices
- shall not affect the quality of the pollution control