

OICA Questions
to
EVS18-E2VP-0200, China

Vibration

Slide #3

China position on vibration test condition

- We believe that vibration is closely related to the safety of electric vehicles and should be included in GTR.
- As a high voltage energy storage system, generally vibration causes structural and connection damage to the battery pack, which can further cause external short circuits and eventually leads to safety problems.
- Based on the vibration methods in the existing regulations, we recommend modifying the existing test methods:
 - Modify the test method based on the road spectrum acquired from actual vehicle test data.
 - Give guidelines for using manufacture's profile.

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Does China have any evidence / examples of structural and connection damage to the battery pack caused by vibration which has led to a safety issue in the field?

OICA member companies are not aware of any such cases. Development of a battery pack to withstand appropriate road input vibrations is standard in the industry in order to create a commercially viable product. It is not necessary to include this condition in a safety standard.