EVE-69-YYe

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# Comment regarding to GTR22 phase 3

# 1.NOVC-HEV

# prepared by JAPAN

## 69th EVE IWG 16<sup>th</sup> & 17<sup>th</sup> April 2024

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## **Topics of GTR22 phase3 at EVE68**

3	06:40 - 07:00	UN GTR 22 – Discussion on prioritization of future topics - Part C family - Resolution of SOCE - NOVC-HEV	Drafting coordinator	
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Status of Team JAPAN Discussions	
1.Part C Family 2.Resolution of SOCE for customer	: will be proposed by OICA. : will be proposed by OICA
3. NOVC-HEV	: There is no necessity. (See P.3)

#### Good news is that;

JAMA confirmed that GTR22\_Annex2 requirements are preciously written into SAE J1979DA

Voting to be completed by the end of February 2024, publication by the end of the year at latest

#### **NOVC-HEV**

### There is no necessity that GTR22 will regulate NOVC HEV.

#### < Reasons >

- 1. The purpose of GTR22 is to support the penetration of the electric vehicle (mainly BEV) into market by eliminating substandard batteries from the market for customers. (not for CO2)
  - NOVC-HEVs have been developed and deployed by many OEMs and have a lot of market experience (substandard batteries have already been eliminated).
- 2.NOVC-HEVs have F/B control within a range of SOC centered on 50-60% ,

which varies depending on OEM settings, the impact on fuel consumption (CO2) is negligibly small even if capacity is significantly reduced.

In addition, the use of batteries in extremely high/low SOC and high temperature environments, which accelerate degradation, is restricted by the control system, making the use of batteries less degradation. Know-how have been accumulated by OEMs.

- 3. Even if degradation progresses, fuel consumption will not deteriorate linearly with the level of degradation.
- 4. Severe degradation (malfunction) that may affect exhaust emissions (and fuel consumption) occur, deterioration/degradation might be detected by the OBD system.
- 5. There is no measurable and calculable indicator such as SOCE since EV distance for NOVC-HEVs is not part of performance parameter. It is considered difficult to calculate a uniform indicator for each HEV system that is linked to increased CO2 emissions after battery degradation.
- 6. If CO2 is to be confirmed in the market, it seems possible through confirmation of fuel consumption data by ISC or other means.

#### < reference >

In the US market, all models (al least LD) are required to provide the fuel consumption degradation at the time of approval @ <a href="https://dis.epa.gov/otaqpub/">https://dis.epa.gov/otaqpub/</a> (see P.4)

#### reference

30
exhaust (w/can
5+4
1.0
4.2
999.9999
0.004
0.030
0.010
0.010
0.010 999.999 0.030
0.010 999.999 0.030 0.040 999.999
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