

# GTR 13 6<sup>th</sup> IWG TF1 document

Following are the discussions of TF1 that were discussed until the last meeting (posted our website(GTR13-6-08)). TF1 held a meeting yesterday and discussed the following.

#	Item	Points	Documents	Remark
1-1	Vehicle class	Same categorization as GTR20	GTR13-5-04	1. IWG to make decision 2. Sentences for Part 1 should be provided. Sent OICA proposal to TF leader
1-3	Sled test	1. System test or component test. 2. Acceleration procedure: Corridor type (GTR20) or fixed point (UNR134, 110)	GTR13-5-15	1. TF1 proposed the test for component. 2. Test procedure is under discussion.
1-4	Installation	The requirements for HDs are only in UNR134. Additional safety requirement with design restriction.	GTR13-5-15	TF1 does not agree to add this requirement. NHTSA/NREL is investigating and may have info end of year
1-6	TPRD direction	Adding HDs may need modification for current requirements.	GTR13-5-15	Current sentence "horizontally..." may or may not need to be more specific.
1-7	Cycle tests	Number of test cycles may need to be changed for HDs.		TF1 generally agreed 11000 for HDs. Rationale not yet drafted
1-8	Permeation criteria	Whether current 46ml/l/h can be applied for HDs or not.		TF1 will propose that the same requirements can be applied for HDs. SAE has already sent to TF1 leader
1-9	Hydrogen leakage criteria (in-use)	The requirements may need to be changed for HDs.		GTR13 5.2.1.4-5.2.1.6, 6.1.3.2-6.1.5.5 No new proposal

## **1. Scope**

→ The draft proposed by OICA has been reviewed, TF1 agreed to use the proposed draft.

## **2. Baseline initial pressure cycle life**

→ TF1 agree at least 11,000 test cycles were required for HDV for 15 years service life.

→ Need to more discussion about longer Service life.

## **3. Permeation Test requirements**

→ TF1 agreed to use the proposed rationale by SAE.

→ Korea, U.S, Japan = agreed

→ EC, China = need more time.

## **4. Accelerations(sled test) requirement**

→ TF1 discussed about Necessity/rationale for accelerations requirement.

→ TF1 have to more discussion for this item.

## 5. TPRD Directions

- TF1 agree to some modification is necessary.
- NHTSA, Nikola and others will review the wording.

## 6. Leakage criteria(In-use)

- TF1 agree to use same criteria for HDV.

## 7. Installations

- TF1 agree to installation requirement is not necessary for HDV.

## TF1 Plan

- TF1 will have a meeting for discuss about Baseline initial pressure cycle life, Accelerations(sled test) requirement, TPRD Directions.
- TF1 will present our discussions about above items at next IWG meeting.(if possible Draft)