

# GRSP TF on the transposition of GTR 13 Phase 2 to UN-R 134 (19)

**Meeting Date:** 19/12/2023 08:00 – 09:00 (CET)

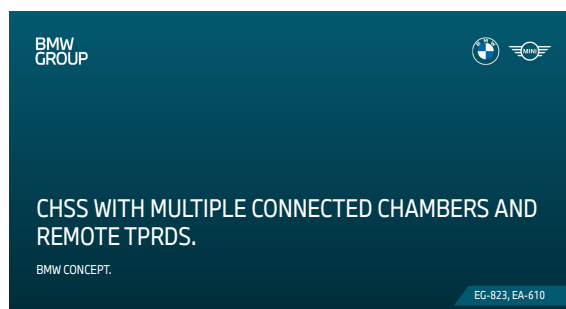
**Location:** Microsoft Teams Meeting

## Participants:

- |                                                                      |                                                                   |
|----------------------------------------------------------------------|-------------------------------------------------------------------|
| <input checked="" type="checkbox"/> Alex Milward (LUXFER)            | <input checked="" type="checkbox"/> Masaaki Iwasaki (TOYOTA)      |
| <input checked="" type="checkbox"/> Anais Garo (UTAC)                | <input checked="" type="checkbox"/> Morinaga (KHK)                |
| <input checked="" type="checkbox"/> Andres Fernandez Duran (IVECO)   | <input checked="" type="checkbox"/> Patrick Breuer (HEXAGON)      |
| <input checked="" type="checkbox"/> Anne Serra (EUROPEAN COMMISSION) | <input checked="" type="checkbox"/> Richard Trott (FORVIA)        |
| <input checked="" type="checkbox"/> Annett Schuessling               | <input checked="" type="checkbox"/> Romary Daval (LUXFER)         |
| <input checked="" type="checkbox"/> Antoine Azzopardi (FRANCE)       | <input checked="" type="checkbox"/> Salim Abdennadher (RENAULT)   |
| <input checked="" type="checkbox"/> Frank Otremba (NPROXX)           | <input checked="" type="checkbox"/> Shogo Suda (TOYOTA)           |
| <input checked="" type="checkbox"/> Gerhard Gissibl (BMW)            | <input checked="" type="checkbox"/> Tatsumi Takehana (KHK)        |
| <input checked="" type="checkbox"/> Hans Lammers (NETHERLANDS)       | <input checked="" type="checkbox"/> Tohru Nakanishi (METI, JAPAN) |
| <input checked="" type="checkbox"/> Harald Beck (MAN)                | <input checked="" type="checkbox"/> Vuthy Phan (VOLVO)            |
| <input checked="" type="checkbox"/> Hiroaki Tamura (JARI)            | <input checked="" type="checkbox"/> Yoshio Fujimoto (NTSEL)       |
| <input checked="" type="checkbox"/> Klaus Weis (HEXAGON)             | <input checked="" type="checkbox"/> Yoshinori Tanaka (NTSEL)      |
| <input checked="" type="checkbox"/> Koie (METI)                      | <input checked="" type="checkbox"/> Yuto Sekiya (KHK)             |
| <input checked="" type="checkbox"/> Matthias Kuntz (BOSCH)           |                                                                   |

## Minutes:

1. Welcome & Roll call
2. Material Compatibility
  - No updates
3. **Remote TPRD and alternative testing**
  - Group was requested to consider the addition of a definition for the container assembly reflecting the inclusion of supply lines and remote TPRD
  - As a reminder, BMW repeated their presentation on TPRDs on conformable tanks
    - See document:  
*BMW\_231102\_R134\_Container\_and\_Remote\_TPRD\_Definition\_V02.pdf*



- Question raised by BMW: can the regulators agree that the TPRD on the conformable tank are not remote TPRDs?

2.3. "Compressed hydrogen storage system (CHSS)" means a system designed to store compressed hydrogen fuel for a hydrogen-fuelled vehicle and composed of a container, container attachments (if any), and all primary closure devices required to isolate the stored hydrogen from the remainder of the fuel system and the environment.

2.4. "Container" (for hydrogen storage) means the pressure-bearing component on the vehicle that stores the primary volume of hydrogen fuel in a single chamber or in multiple permanently interconnected chambers."

*Insert new paragraphs 2.5., to read:*

"2.5. "Container Attachments" mean non-pressure bearing parts attached to the container that provide additional support and/or protection to the container and that may be only temporarily removed for maintenance and/or inspection only with the use of tools."

- The group agrees that the definitions need more clarification, potentially with a footnote to avoid differing interpretations by different technical services
- The footnote could be included via a supplement to the regulation
- A working document needs to be submitted by March 4, 2024 to the GRSP
- Additional discussion item is the supply lines for large containers for HDV applications
- Is there a need for a separate definition and requirements?

#### 4. Other items:

- Proposal for a corrigendum fixing wrong references in the original and 01 series of amendments of UN-R 134 has been adopted at the 74<sup>th</sup> GRSP in December 2023
  - <https://unece.org/transport/documents/2023/11/informal-documents/tf-r134-proposal-corrigendum-1-original-series>

#### 5. Next meeting:

- The next meeting will be dedicated to the definitions of containers and potentially container assemblies including supply lines and remote TPRDs
  - OICA will prepare a proposal and share it a week before the meeting at the latest
- January 23<sup>rd</sup>:
    - 8 am – 9.30 am (CET)
    - 4 pm – 5.30 pm (JST/KST)