

CHSS WITH MULTIPLE CONNECTED CHAMBERS AND REMOTE TPRDS.

BMW CONCEPT.

EG-823, EA-610

CONTAINER, CONTAINER ATTACHMENTS AND CHSS DEFINITION.

Economic Commission for Europe

Inland Transport Committee

World Forum for Harmonization of Vehicle Regulations

191st session
Geneva, 14–17 November 2023
Item 4.8.6 of the provisional agenda
1958 Agreement:
Consideration of draft amendments to existing
UN Regulations submitted by GRSP

Proposal for 02 series of amendments to UN Regulation No. 134 (Hydrogen and Fuel Cells Vehicles)

Submitted by the Working Party on Passive Safety *

The text reproduced below was adopted by the Working Party on Passive Safety (GRSP) at its seventy-third session (ECE/TRANS/WP.29/GRSP/73 para. 37). It is based on ECE/TRANS/WP.29/GRSP/2023/8 as amended by GRSP-73-54. It is submitted to the World Forum for Harmonization of Vehicle Regulations (WP.29) and to the Administrative Committee (AC.1) for consideration at their November 2023 sessions

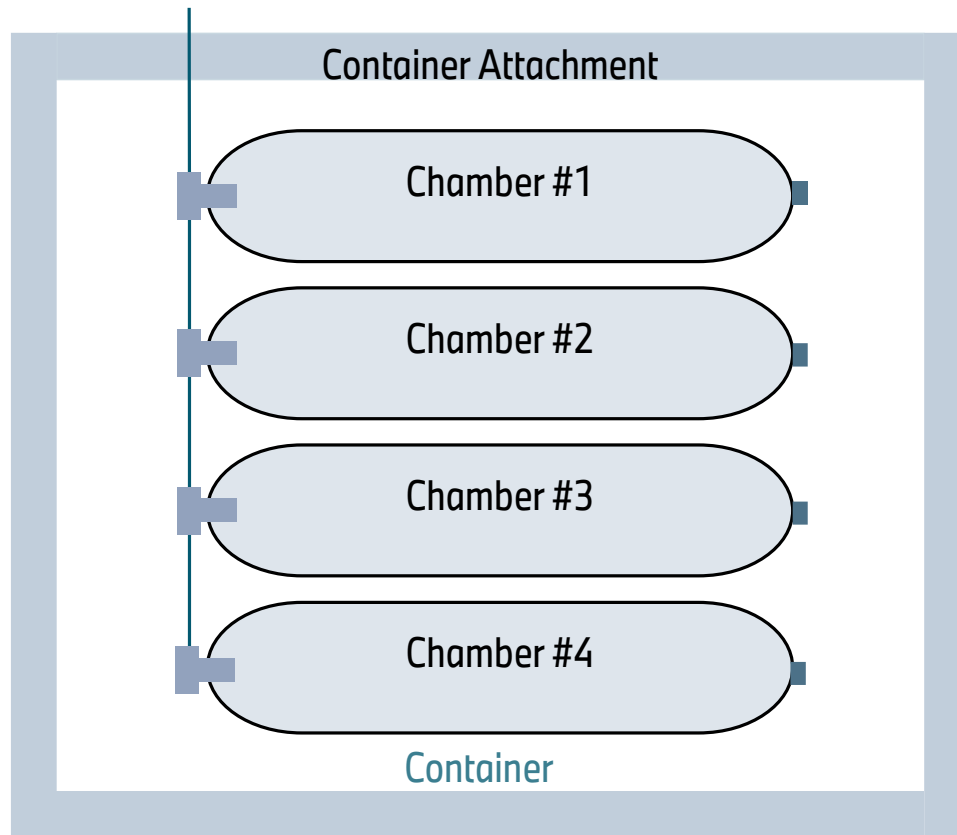
2.3. "Compressed hydrogen storage system (CHSS)" means a system designed to store compressed hydrogen fuel for a hydrogen-fuelled vehicle and composed of a container, container attachments (if any), and all primary closure devices required to isolate the stored hydrogen from the remainder of the fuel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

CONTAINER DEFINITION ACC. R134 PHASE 2. COMMON UNDERSTANDING.






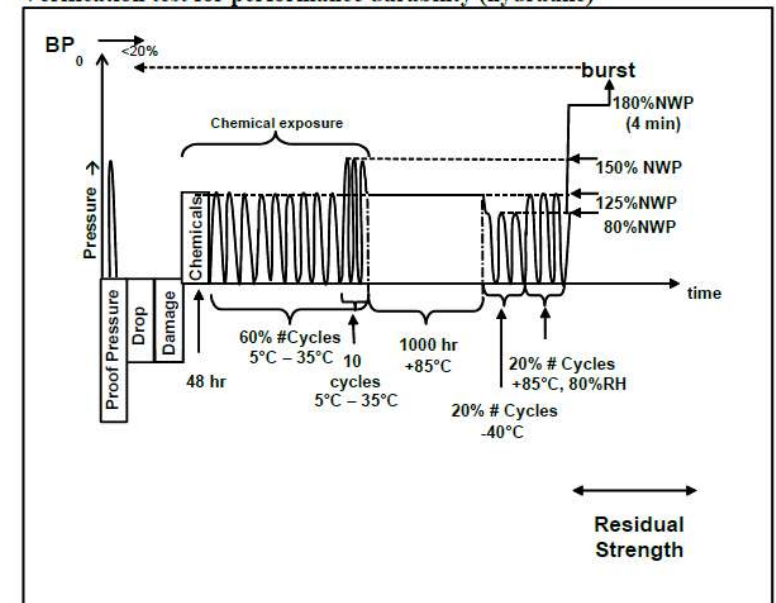
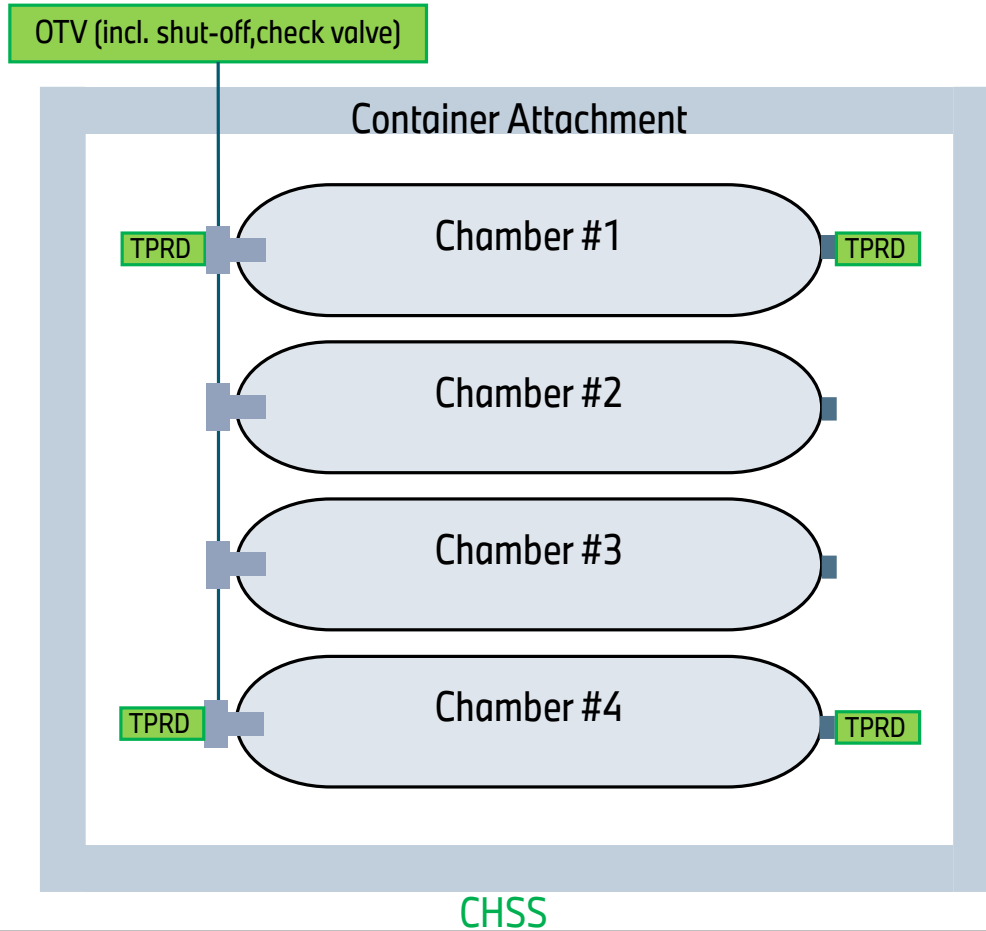
Symbol	Component
	Chamber
	Container Attachment
	T-Piece

Figure 1

Verification test for performance durability (hydraulic)

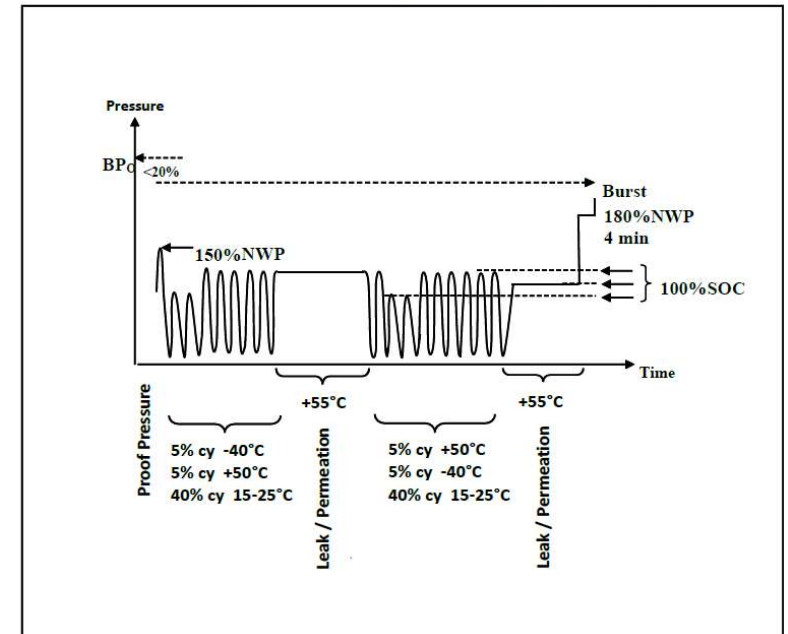


CHSS DEFINITION ACC. R134 PHASE 2. COMMON UNDERSTANDING.

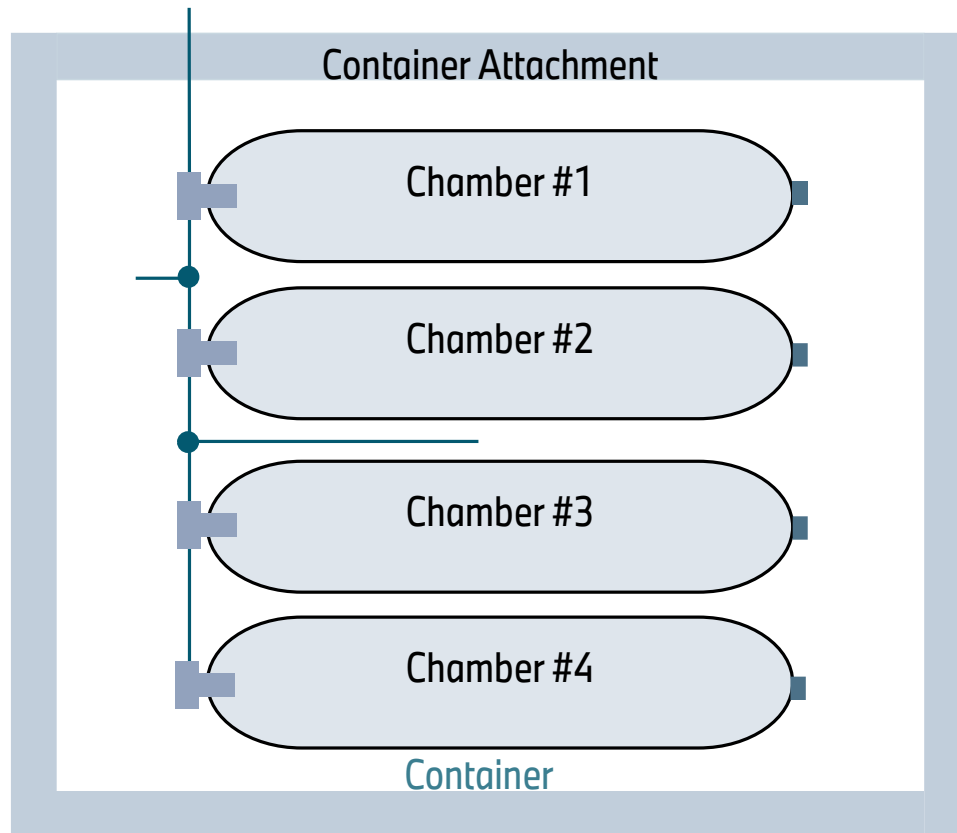


Symbol	Component
	Chamber
	Container Attachment
	T-Piece
	Primary closure devices

Figure 2
Verification test for expected on-road performance (pneumatic)



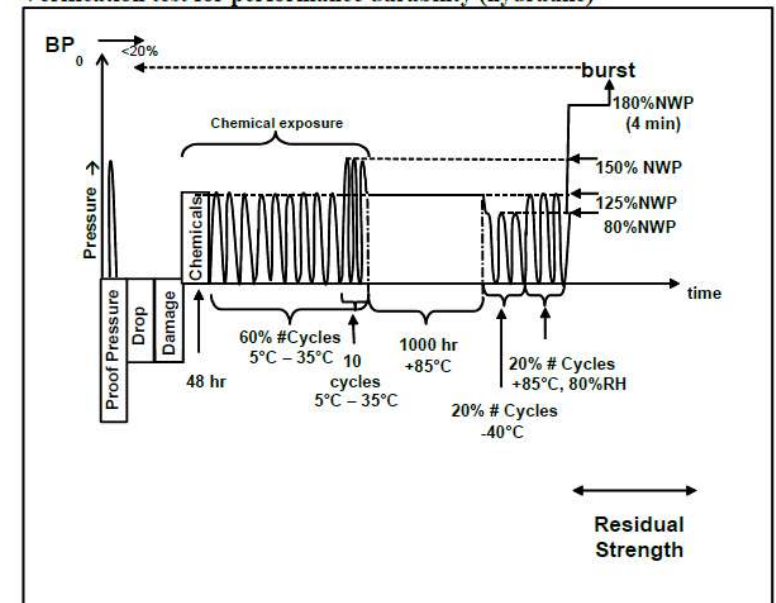
CONTAINER DEFINITION ACC. R134 PHASE 2. BMW UNDERSTANDING.



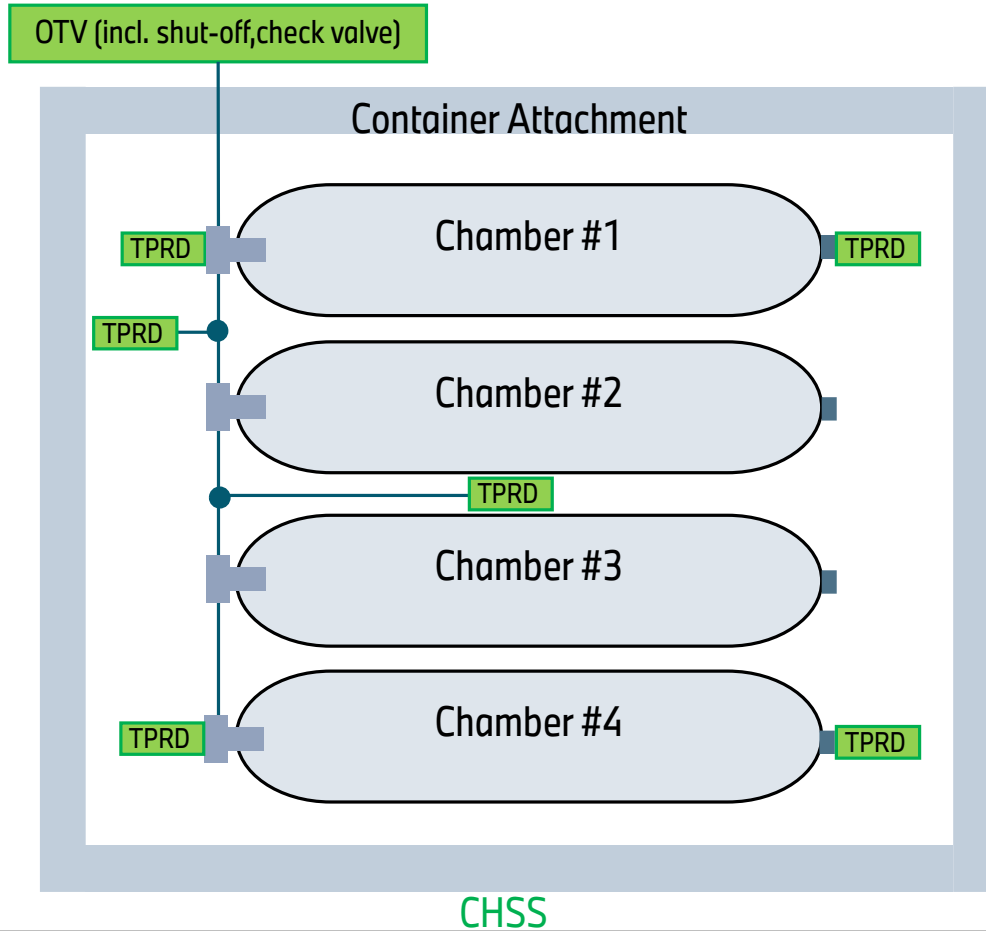
Symbol	Component
	Chamber
	Container Attachment
	T-Piece

Figure 1

Verification test for performance durability (hydraulic)

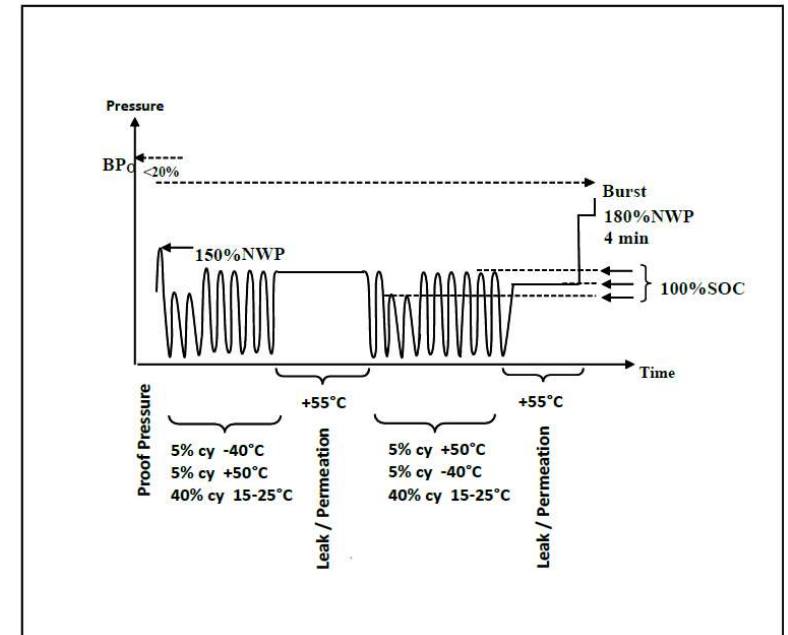


CHSS DEFINITION ACC. R134 PHASE 2. BMW UNDERSTANDING.

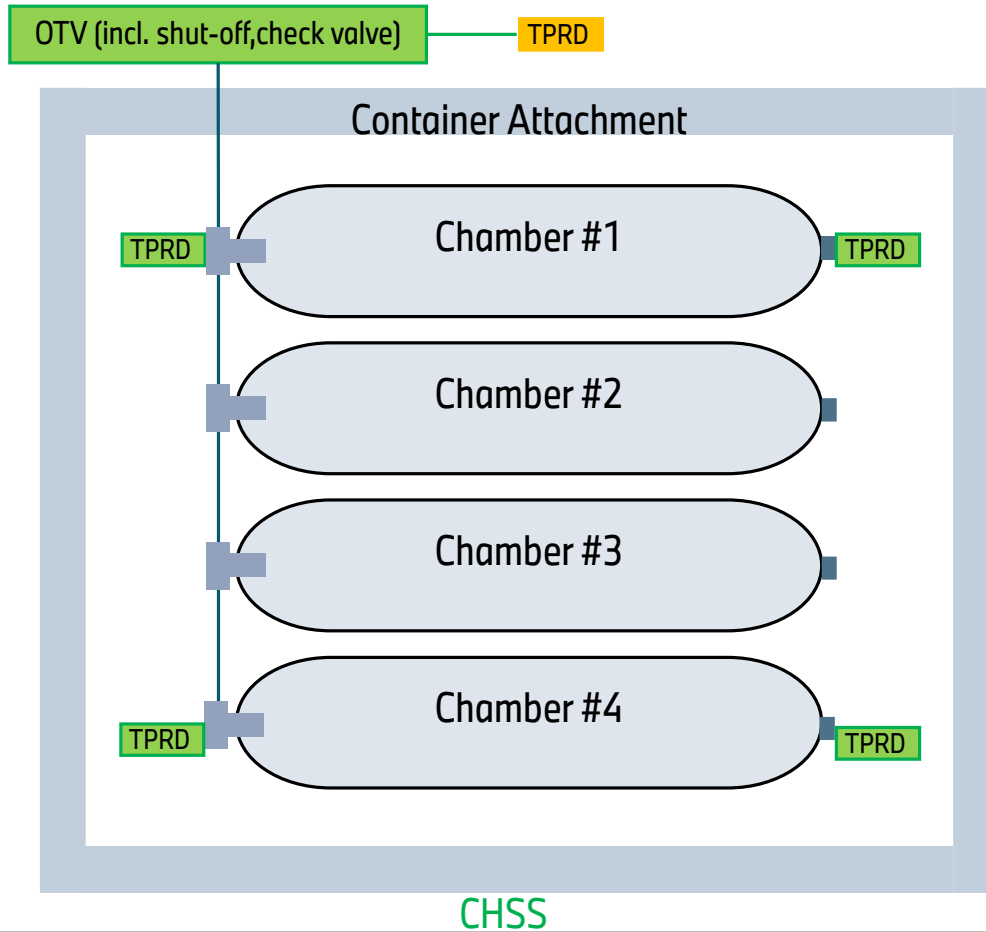


Symbol	Component
	Chamber
	Container Attachment
	T-Piece
	Primary closure devices

Figure 2
Verification test for expected on-road performance (pneumatic)



REMOTE TPRD. BMW UNDERSTANDING.



Symbol	Component
	Chamber
	Container Attachment
	T-Piece
	Primary closure devices
	Additional Remote TPRD

Classic TPRD as in GTR 13 Phase 1

Figure 1
Typical compressed hydrogen storage system

