Behaviour of M2 & M3 general construction in case of Fire Event

IWG - BMFE
IWG BMFE overview

1 meeting since the last 118th GRSG in July
- Chair: France (UTAC)
- Secretary: CLCCCR

10th meeting
- September 2nd & 3rd
- Venue: web session
- 27 attendees: 5 contracting parties / 4 test centers / OICA / CLEPA / CLCCCR
2 draft amendment proposals submitted as working documents amended by 2 informal documents + additional informal document on ToRs

- UNR n°107 : ECE-TRANS-WP.29-GRSG-2020-19 amended by GRSG-119-XX
  - Alarm initiation based on a temperature reference
  - Opening of all power-operated doors
  - Safety instructions
  - Transitional provisions

- UNR n°118 : ECE-TRANS-WP.29-GRSG-2020-21 amended by GRSG-119-XX
  - Influence of adhesive agents
  - Transitional provisions

- Term Of References : GRSG-119-XX
  - Extension to deal with efficiency of glass breaking devices
10th IWG BMFE meeting

UN Regulation No. 107 Contents

- Automatic emergency exits:
  - No additional inputs on risk analysis
  - Discussion based on Dekra study on coach safety in case of fire event
    - Approach for incident reduction (prevention, inspection, tank protection, education and information)
    - Optimized evacuation (information, marking, escape way, retrofit, smokes and toxicity)

- Opportunity to introduce alarm system in compartments dedicated to propulsion battery
  - Already covered by the coming UN-R n°100 03 series of amendment “§ 5.2.3. Warning in the event of failure in REESS”
UN Regulation No.107 Contents

- Optimisation to improve hammer efficiency
  - Principle to break window in case of evacuation not challenged
  - Analysis show that the hammer efficiency could be improved depending on the situation following different axis:
    - Identification
    - Location
    - Easy-to-use

- Request to GRSG for a mandate extension to investigate potential improvement on glass breaking devices

- Request to GRSG for guidance regarding transitional provisions
  - Expected WP29 submission in March 2021 for an entry into force on Oct. 2021
  - Transitional provisions to be defined accordingly
Smoke toxicity:
- No additional inputs on cost benefit ratio
- The materials of the furniture, curtains and ceiling in particular are cause of the toxicity but they also have a non-negligible impact on flammability
- Test lab will continue to investigate in this way, focusing on “most critical” materials for toxicity and will keep informed the IWG BMFE of the relevant results for UN-R n°118.

Request to GRSG for guidance regarding transitional provisions
- Expected WP29 submission in March 2021 for an entry into force on Oct. 2021
- Transitional provisions to be defined accordingly
BMFE meeting

Next session

- 2 days meeting
- 2020, October 27th and 28th
- Venue: web meeting
Thanks for your attention.