



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

IWG - BMFE

●●● IWG BMFE overview

⇒ 2 meetings on 2018 2nd/3rd quarters

- ⇒ Chair : France (UTAC)
- ⇒ Secretary : OICA

⇒ 3rd meeting

- ⇒ June 15th
- ⇒ Berlin location (VDA)
- ⇒ 17 attendees : 4 contracting parties / 6 vehicle manufacturers / 3 automotive suppliers / 4 test centers

⇒ 4th meeting

- ⇒ September 10th / 11st
- ⇒ Paris location (OICA)
- ⇒ 23 attendees : 4 contracting parties / 8 vehicle manufacturers / 5 automotive suppliers / 6 test centers

●●● 3rd IWG BMFE meeting

⇒ UNECE n°118 Contents

⇒ Toxicity

- Comparison on rails, navals, aircrafts applications
- Performance levels to be balanced with evacuation time inputs

⇒ Opacity

- Technical axis on available methods to evaluate opacity
- Test result presentation on smoke invasion + smoke extraction on a full scale coach

⇒ Exchange of views on automatic exit opening factors

●●● 3rd IWG BMFE meeting

⇒ UNECE n°107 Contents

- ⇒ Smokes extraction systems : state of play on various applications
- ⇒ Exchange of views on fire detection systems
 - Combination of fire detection and fire suppression warnings
 - Minimum performance level to be required
- ⇒ Optimisation of luminous trajectories and functionalities
 - Indication of the exit location and the path to emergency exits
 - Updates based on existing system to inform passengers
- ⇒ Safety instructions : how to consider predispositions at the Regulation level ?

●●● 4th IWG BMFE meeting

✈ UNECE n°118 Contents

✈ Toxicity and opacity

- Further detailed discussions on test protocols in application for other transports
- Evaluation of potential transposition for road application : tests to be performed on current UNECE n°118 approved materials + analysis on how to define the best performance level for road transport

✈ Adhesive consideration : discussions on how to consider it in the approval process

- Tests to be conducted to confirm adhesive influence on inflammability results
- Proposal for text clarification

●●● 4th IWG BMFE meeting

⇒ UNECE n°107 Contents

⇒ Automatic exit opening

- No technical blocking points to a conditioned automation of the opening of emergency door using current sensors with early detection and associated lighting
- Focus on classes II / III / B

⇒ Minimum performance level for fire detection systems

- Need for a pass/fail criteria based on temperature variation

⇒ Safety instructions

- Provisions have to be : technology neutral + related to the vehicle construction + pass/fail criteria

●●● 4th IWG BMFE meeting

⇒ Full scale fire test

- ⇒ Proposal to perform physical evaluations with fire ignition at engine compartment including one reference test + evaluations with countermeasures
- ⇒ Vehicle definition to be defined with associated providing means
- ⇒ Test matrix to be consilated with criteria to be evaluated and associated data measurment

⇒ Next session : Madrid November 27th-28th

- ⇒ Intermediate call meeting planed for end of October

UTAC CERAM



Thanks for your attention.