

**GTR EVS Phase 1 – Hazardous situation
related to smoke
Presentation for SIG meeting #2**

CSTA 6 – 15/12/2023



FILIÈRE
AUTOMOBILE
& MOBILITÉS

GTR Phase 1 Discussions in 2021 – Vehicle Thermal Propagation Test – PFA Position paper

Purpose: discussion Phase 2 at SIG level for Japan question about a small quantity of smoke inside the cabin

- Hazardous situation regarding smoke for occupants:
« Smokes represent a major danger because of their opacity, their heat, their toxicity, their risk of explosion and their mobility» (explosion and toxicity out of scope here)
- Opacity:
 - Risk assessment: visual judgement (driver headrest)
 - Criteria: based on the driver capacity to see clearly the outside environment in front of him
- Heat:
 - Risk assessment: 1 thermocouple regarding occupant position inside the passenger compartment
 - Criteria: ambient temperature measured before the test + 20°C
- Gas mobility:
 - Assessment: visual gas height
 - Criteria: smoke below the rear or front seats height (hip level)
- Toxicity: if criteria Gas Mobility not respected
 - Risk assessment: cell supplier gas sample analysis
 - Criteria: no toxicity as expected via ERPG or AEGPL (to be framed to 5min)

