



# Fires in inaccessible areas



Grégory Caudy, SFACT, DGAC France  
Research and Experience Feedback Office



# Presentation Outlines

- The SFACT research activities
- Origin of this research program
- Description of the study







## Research activities

- Evolution of the regulation
- Various domains
  - Occupant survivability, Human factors, External hazards, Environment and Innovation
- International cooperation
  - JAA OS-PAG, JAA RC, CSRTG, ...



# Origin of the project

- International Cooperation  
CSRTG, IAMFTG
- New test requirements for insulation materials
- What about the fire resistance of the other  
inaccessible materials?





# Fires in inaccessible areas

## Description of the study

- Participants  
DGAC, Airbus and CEAT
- International coordination  
JAA, CSRTG



# Fires in inaccessible areas

## Description of the study(II)

- Insulation materials
  - new requirements for fire resistance
- For inaccessible areas, diversity of material
  - homogeneous level of safety?





# Fires in inaccessible areas

## Description of the study(II)

### - Inaccessible areas

Definition?

Specifications, requirements

Inventory of representative materials located in  
inaccessible areas



# Fires in inaccessible areas

## Description of the study(III)

### - Which materials?

Cables, ducting and others materials

Cooperation with the TC

### - Test of materials

OSU, Bunsen burner

Use/Adaptation of the radiant panel test

Flux, exposure time







# Fires in inaccessible areas

## Description of the study(IV)

- Evaluation of configurations
  - Influence of a particular material in the configuration
- Retrofit issues
  - Real need to involve an airline
  - Maintenance feedback
    - vulnerable materials / areas
    - effects of ageing, dust, leak



# Fires in inaccessible areas

## Conclusion

- Fire resistance:

  - Detection of material disparities in inaccessible areas

  - If needed, adaptation of existing tests

- Work schedule





# Fires in inaccessible areas

**END**

Thank you for your attention