

# SAE/ISO Fire Containment Covers (FCCs) and Fire Resistant Containers (FRCs) Standards Development



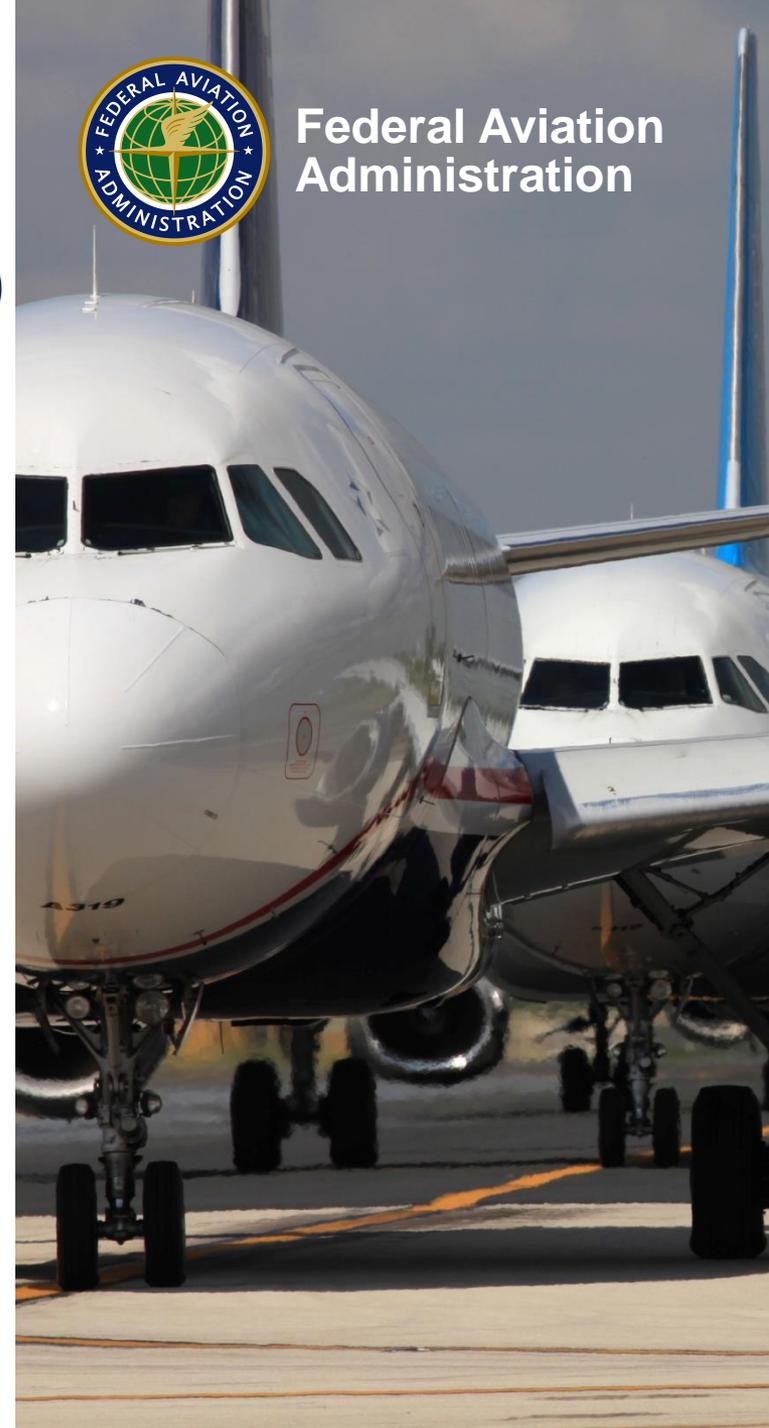
Presented to: International Aircraft Systems Fire Protection Working Group. Bremen, Germany

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Federal Aviation  
Administration



# Fire Containment Covers

- Standards SAE AS6453 and ISO 14186:2013 “Fire Containment Covers- Design, Performance, and Testing Requirements” are published.
- The SAE and ISO standards are identical.
- Suggested changes to these standards have been generally accepted and will be incorporated in the next revisions. The main change discussed is the elimination of the not to exceed 400° F external temperature 4” away requirement. This would be replaced by general wording stating that no external flaming is permitted.
- FAA intends to issue a new TSO that will reference the new SAE AS6453 standard.

# Fire Resistant Containers

- Standards ISO/CD 19281 and SAE AS6278 “Fire Resistant Containers- Design, Performance, and Testing Requirements” are both under development.
- Last meeting was conducted on April 1-2, 2014 in Koeln.
- Next meeting is scheduled for Sept. 15-17, 2014 in Denver, Colorado.
- FAA intends to issue a TSO for FRCs that will reference the new SAE standard.



# Unresolved Issues:

- **Should FRC standard still include the 14 CFR Part 25 Appendix F, Part III requirement (cargo liner oil burner test)?**
- **Intumescent coating effectiveness assurance after time in service.**
- **Lithium Batteries?**



## Unresolved Issues (cont.):

- Possible delayed smoke detection from a fire originating in either a FCC covered pallet or inside a FRC.

Tech Center testing is planned to measure differences in detection times and smoke obscuration levels with theatrical smoke generators in the open, under FCCs and in FRCs. Actual fire testing with FCCs and FRCs has shown significant smoke produced outside the FCC/FRC that the theatrical smoke tests won't replicate. Test plans are being discussed on the best way to replicate the actual behavior that has been observed.



# DC-10 Main Deck Test Article

