

# SAE/ISO Fire Containment Covers (FCC) and Fire Resistant Containers (FRC) Standards

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

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Date: May 12-13, 2015



Federal Aviation  
Administration



# Fire Containment Covers (FCC)

TSO C203 for FCCs has been published by the FAA with an effective date of 7/1/2014.



Department of Transportation  
**Federal Aviation Administration**  
Aircraft Certification Service  
Washington, D.C.

**TSO-C203**

Effective  
Date: 07/01/14

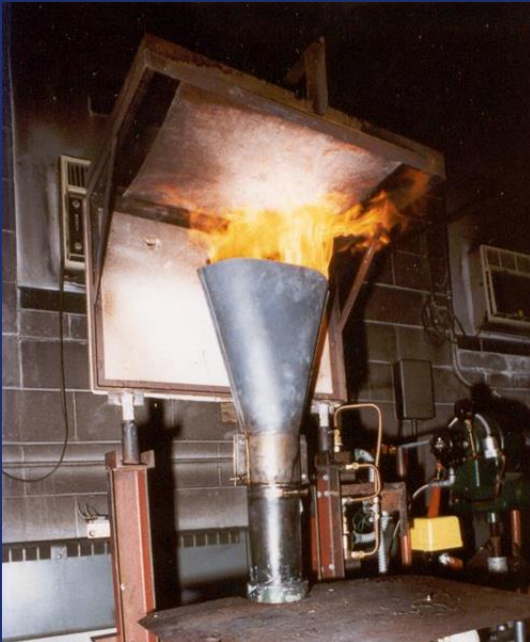
## Technical Standard Order

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**Subject:** *Fire Containment Covers (FCC)*

**The TSO references SAE AS6453 standard with modifications.**

**Modifications are mostly for removal of references to non FAA requirements, and maintenance and pallet and net requirements.**



**Cargo liner oil burner test**



**Full scale mockup fire test**

**Last meeting was held on April 14-15, 2015 in Nashville, TN.**

**It was agreed to begin discussion on revising SAE AS6453 at the next scheduled meeting (October 2015). Discussion items involve wording regarding external thermocouples and the 400 °F at a distance of 4” requirement in current standard.**

**One manufacturer has announced that they have been granted a TSO C203 approval for their FCC.**

**A discrepancy has been found in the testing requirements where the required flame penetration testing specimen size cannot be produced. Review and corrective action is in progress.**

# Fire Resistant Containers (FRC)

- **ISO/CD 19281 is in Stage 40.20 (Ballet Initiated). Stage 50 (Approval) and 60 (Publication) to follow.**
- **The FAA has formally requested SAE to develop standard AS 6278 Fire Resistant Container. The wording currently in the ISO standard will be used for the SAE standard.**
- **SAE approval process will follow. New/revised FAA TSO will be issued following SAE standard publication. Expected TSO publication date is not before December 2016.**



# Unresolved Issues:

- **Should FRC standard still include the 14 CFR Part 25 Appendix F, Part III requirement (cargo liner oil burner test)?**
- **Lithium Batteries?**
- **Possible delayed smoke detection from a fire originating in either a FCC covered pallet or inside a FRC.**
- **TSO-C203 - Adequate test sample size not available for flame penetration test**

