

*Practical Considerations for Fighting a Lithium Battery Fire in the Aircraft Cabin*

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The FAA's Safety Alert for Operators (SAFO) 09013 was released in 2009 to provide guidance to operators on how to manage lithium battery fires occurring with portable electronic devices (PEDs). The types of PEDs in use currently has evolved considerably since that time, with new device form factors and new battery types and configurations. Additionally, a variety of in-service events, have demonstrated that there are further issues and considerations that flight crews may need to take into account when dealing with an in-flight PED incident. The presentation will cover two series of tests that were conducted to identify these issues. The results of this research provide a foundation from which improvements to training and guidance material may be further developed.

The first series of tests was designed to evaluate more current PEDs, of the tablet form factor, and the continued suitability of the SAFO 09013 guidance to ensure that its information is still relevant and the most suitable guidance to provide to operators. The second series of tests was conducted as part of the Air Carrier Training Aviation Rulemaking Committee's (ACT ARC's) High Energy Firefighting Training Enhancement (HEFTE) Working Group. These tests employed realistic scenarios in order to identify potential issues that a crewmember may encounter, allowing the working group to provide recommendations as for improvement in training and guidance material.