

PED Hazards in Flight Deck and Cabin



Federal Aviation
Administration



Presented to: Systems Meeting

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Background

- **All documents say about the same thing: Extinguish fire and then douse with non-flammable liquids.**
 - SAFO 09013: Procedures for Handling PED fires
 - ICAO 9481
 - CAA Battery Videos: Covers various scenarios of PED fires
 - InFO 17021: FAA position on fire containment bags for PED's



CAA Battery Video

- <https://youtu.be/pOiwEW54xL8?t=465>
 - FAA video intends to go into greater detail about possible mitigation techniques for additional scenarios.



Introduction

- A small group is creating two informational videos about PED fires to help industry develop firefighting procedures.
 - Video for flight deck
 - Video for cabin
- Video will include:
 - What to expect from a phone, tablet, or laptop
 - What firefighting may look like when the device is in various locations
 - What add-on hazards may be present that should be taken into consideration.



Introduction

- **Both videos have a shared introduction. The goal is for each video to be a few minutes:**
 - Introduction:
 - Introduces lithium batteries, where they exist, how they react in thermal runaway, basic firefighting principles including immediate action etc.
 - Flight Deck:
 - Demonstrates what firefighting looks like after a PED overheats in the flight deck.
 - Highlights oxygen hoses as an added hazard.
 - Cabin:
 - Highlights overhead bin, under seats, etc.



Script

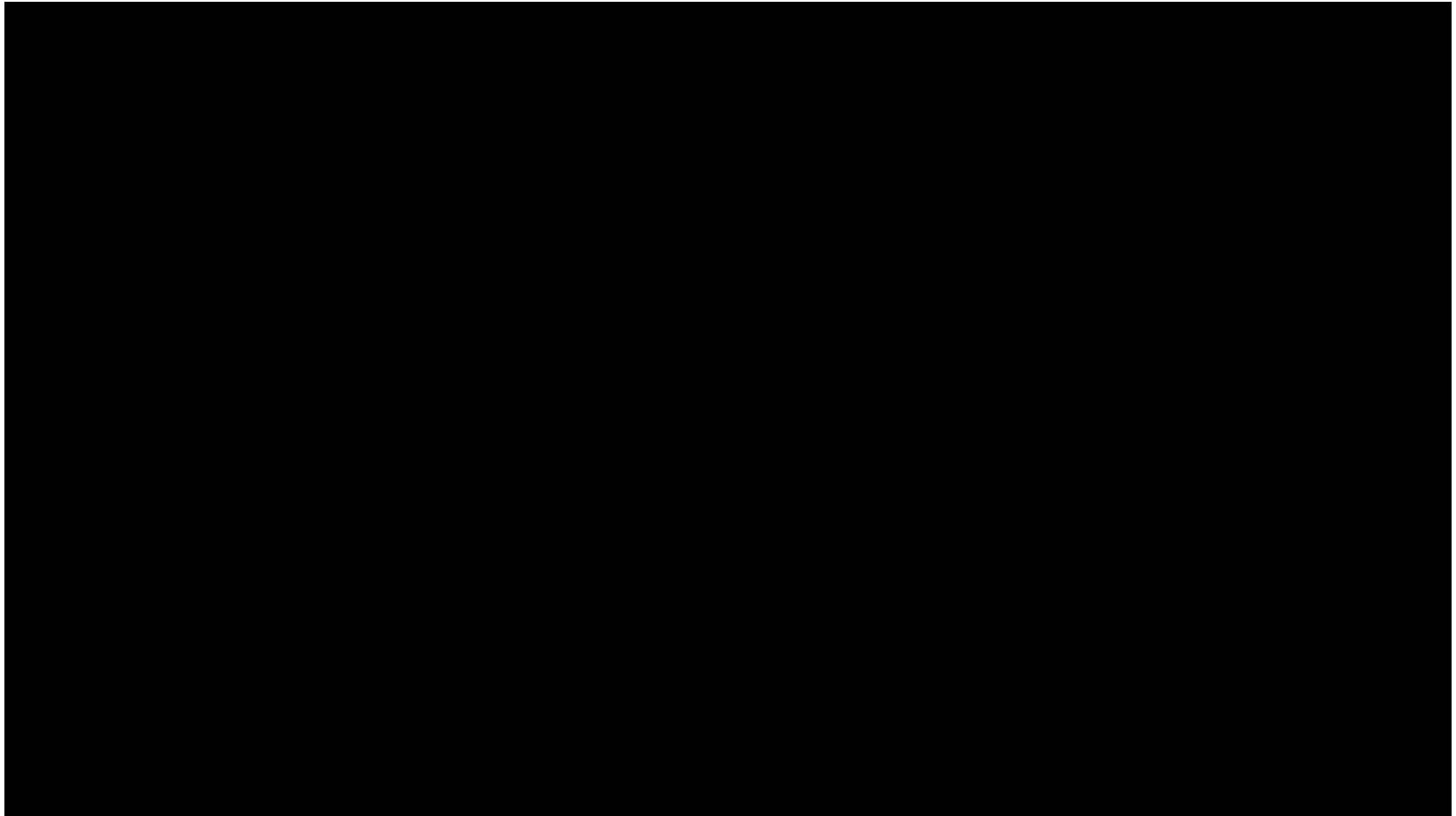
- **15 total clips with multiple sub clips**
- **Highlights:**
 - Immediate action
 - It is likely that it will be necessary to remove from flight deck
 - Extinguisher to knock down flames, liquids to cool



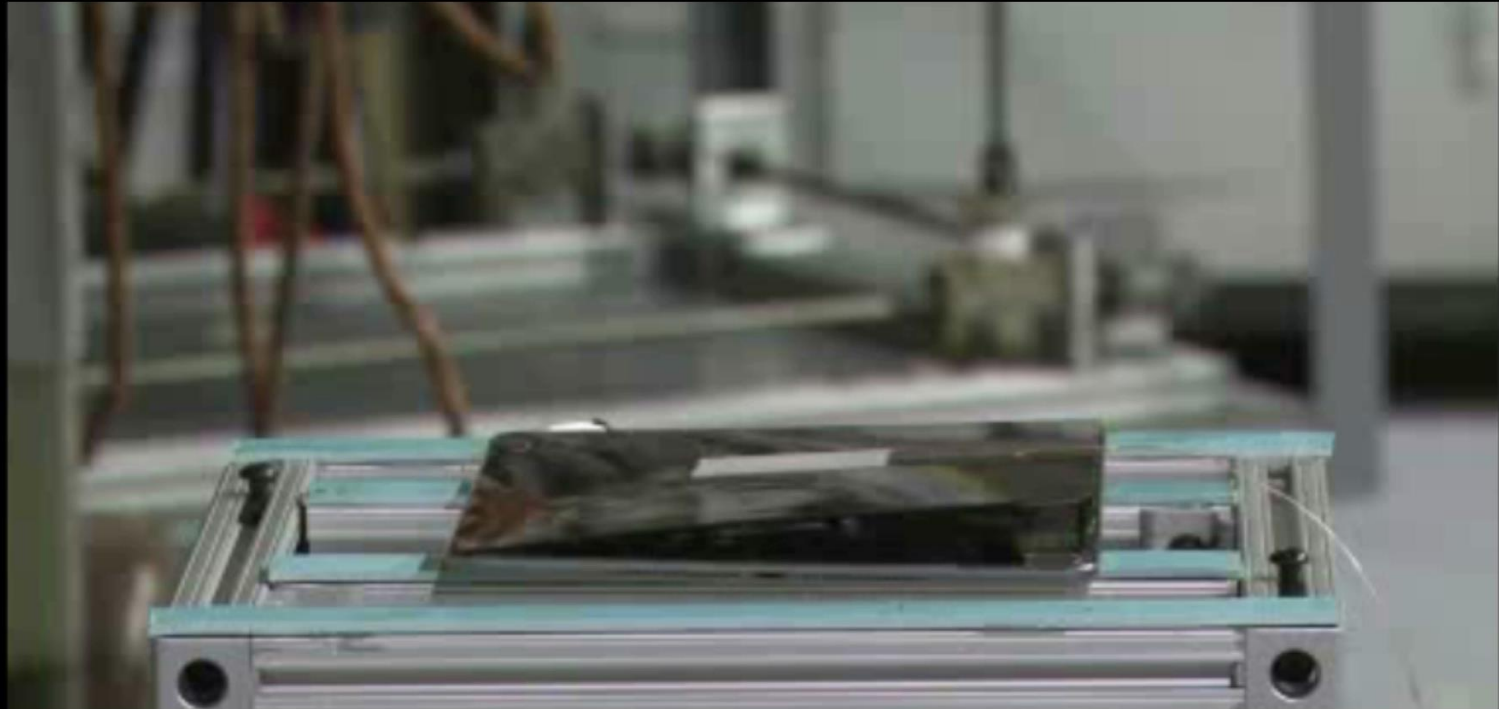
Introduction script clip 3 (draft)



Introduction script clip 4 (draft)



Introduction script clip 5 (draft)



Cabin script clip 10 (draft)



Cabin script clip 12b (draft)



Future Work

- **Alaska Air and CAMI both volunteered to host some filming time with passengers to fill seats for realistic footage.**



Questions?

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