PED Hazards in Flight Deck and Cabin

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](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)
Smoke accumulation from an unattended battery fire
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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