

Handheld Fire Extinguisher Task Group Activities Update

Presented to: Systems Working Group

By: Harry Webster

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Federal Aviation
Administration



Handheld Task Group

- **The FAA Technical Center Fire Safety Team hosted a kick off meeting to establish a Handheld Task Group on July 15 and 16, 2009**
- **The purpose of the meeting was to determine the current state of Halon replacement in handheld extinguishers on commercial aircraft.**

July Meeting Discussion Topics

- **Identify any new agents to be tested to the MPS**
 - BTP
 - NOVEC 1230
 - Gelled powder / clean agent combinations
- **Identify changing aircraft fire threat conditions**
 - Lithium battery fires
 - Magnesium fires

July Meeting Discussion Topics

- **Identify agent issues**
 - Dry powder cleanup
 - Visibility degradation after powder discharge
 - Weight
 - Size
 - Effectiveness



July Meeting Demos

- **Dry powder discharge in Boeing 737 with air packs running**
 - A 10 BC extinguisher was fully discharged in the passenger compartment of the Fire Safety Team's 737
 - Dry powder “cloud” quickly spread through out the cabin
 - Visibility was reduced to 15-20 feet

July Meeting Demos

- **MPS Hidden Fire Test**
 - 5 BC 2.5 lb Halon 1211
 - 10 BC 2.5 lb Sodium Bicarbonate dry powder
- **MPS Seat Fire Test Setup**

MPS Hidden Fire Test



MPS Hidden Fire Test



MPS Hidden Fire Test



Hidden Fire Test, Halon Baseline



Hidden Fire Test, 10 BC Dry Powder



Next Meeting

- **November 18, 1:00, FAA Tech Center, building 287 conference room**
- **Topics for discussion**
 - Halon 1211 / 1301 contamination discussion
 - ICAO Assembly Resolution A36-12 discussion
 - AC20-42D discussion

