

Halon Replacement for Aircraft Portable Fire Extinguishers – Progress Report

PRESENTATION TO:

International Aircraft Systems Fire Protection
Working Group

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- **US EPA SNAP has published in the Federal Register a notice of proposed acceptability**
 - Published April 18, 2016
 - Proposed acceptability for aviation onboard handhelds and engine nacelle / APU systems
 - Comment period ends June 2, 2016
 - It is anticipated that there will be at least a 90 day EPA review of comments
 - Q4 2016 final SNAP rule

- **Reminder: EU REACH registration completed 2014**

- **FAA AC 20-42D, *Hand Fire Extinguishers for use in Aircraft***
 - “New Halon 1211 replacement agents must have and meet an applicable ASTM or equivalent specification.”
- **ASTM D26 Committee on Halogenated Organic Solvents and Fire Extinguishing Agents**
 - Developed purity and handling standards
 - Standards have passed sub-committee ballot
 - Main committee ballot anticipated to close by June 30, 2016
 - If approved, standards will be available online ~6 weeks later

Fire Extinguisher Development

- **FAA Handheld MPS**

- Requires UL 5B, Hidden Fire, and Seat Fire/Toxicity Test
 - 5B pan fires and hidden fires conducted at UL
 - Seat Fire/Toxicity Test conducted at FAA Tech Center
 - Passed: Data in May 2011 presentation by R. Morrison

- **Underwriter's Laboratories**

- AC 20-42D and SAE AS6271 require UL711 and UL2129 or equivalent
- Multiple OEMs have successfully passed the 5B & hidden fire tests
- Work continues on UL2129 requirements
- Final UL listings starting in 2016