

Powerplant Halon Replacement



Federal Aviation
Administration

Current/Recent Activities

Presented to:

The Combined International Aircraft
Materials Fire Test & International Aircraft
Systems Fire Protection Forum Meetings

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Corporate identification may be made for the sake of completeness & transparency.



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Current/Recent Activities

- **Currently Working with a Sodium Bicarbonate [NaHCO₃] Solid Aerosol as a Potential Halon 1301 [CF₃Br] Candidate for this Application**
 - Working MPShRe/rev04^[2a] generic testing now
 - need to complete 3 test conditions^[2b]
 - 1st condition's results indicate proposed criteria plausible
 - currently reviewing 2nd condition's results for plausibility
 - starting to investigate the 3rd test condition
 - Will subsequently complete MPShRe/rev04 full-scale demonstration testing

[2a] known in short-hand as "MPShRe/rev04", the "Minimum Performance Standards for Halon 1301 Replacement in the Fire Extinguishing Agents/Systems of Civil Aircraft Engine and Auxiliary Power Unit Compartments (MPShRe rev04)"

[2b] Prior testing occurred with this CF3Br-replacement candidate. These results were reviewed & given plausibly-established credit, thus applicably reducing current MPShRe/rev04 demand.



Current/Recent Activities

- **Previously Completed MPSHRe/rev04 Testing with Iodotrifluoromethane [CF₃I]**
 - Local testing complete
 - Reporting incomplete & in process

...review presentation given 14jun2023 for substantial information relating to this activity

