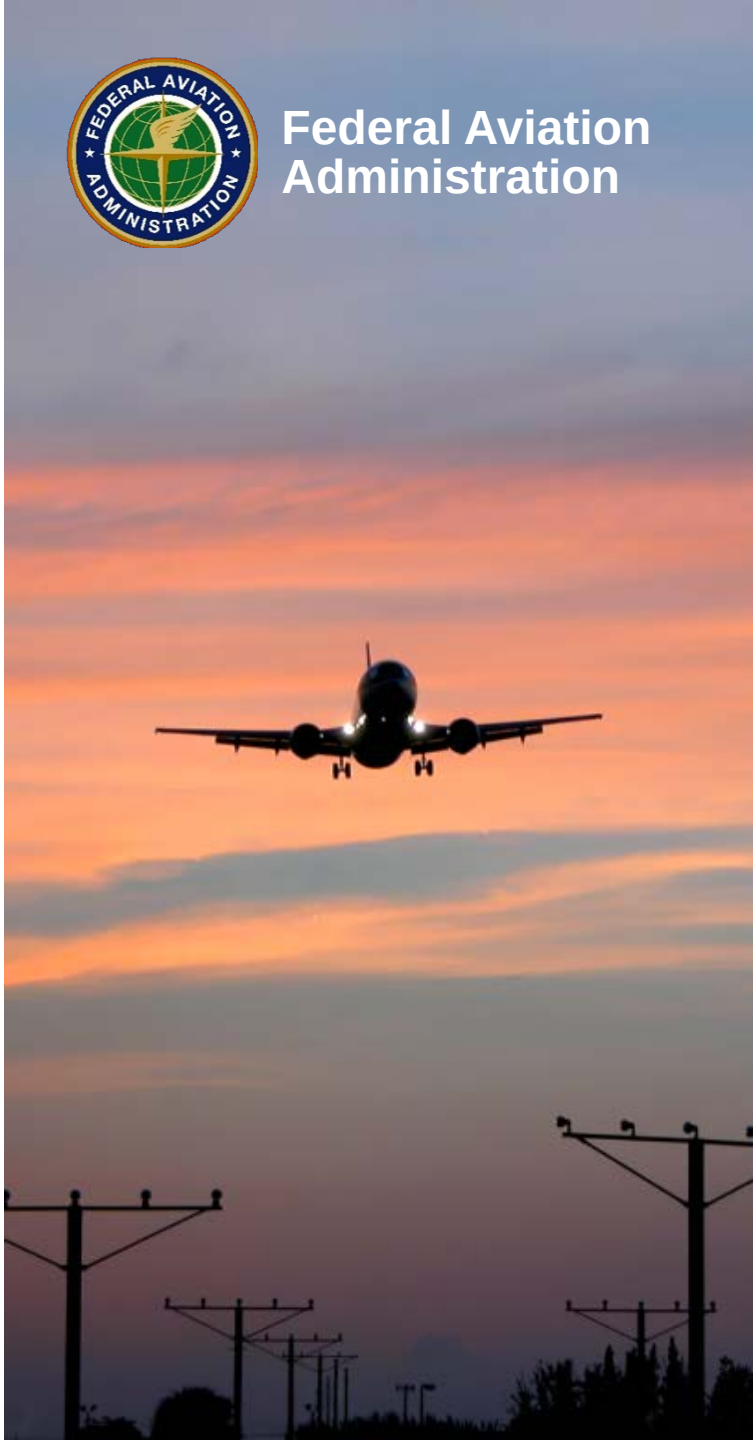
FAA
Icing Steering Committee

Federal Aviation Administration



Presented To: In-flight Icing Users TIM

By: Tom Bond

Date: February 25, 2015

Agenda

- Mission Statement
- Focus and Key Issues
- Members
- National Strategy – New Icing Plan
- Planning Documents
- Icing Plan Status
- ISC Current Work

Mission Statement

- The FAA Icing Steering Committee (ISC) is charged by Aviation Safety (AVS) with coordinating aircraft icing issues among icing focals from Flight Standards, Aircraft Certification, the Technical Center, Aviation Weather, and other specialists as needed.
  - Members are working level representatives from all three business lines who meet to address areas of concern and focus attention on short term problems, current operational and certification issues, and how to guide research investments and policy needs for longer term safe operations in icing.
- The ISC meets annually in spring to review winter operations issues and areas of policy and guidance that need coordination. Holds other meetings as needed

ISC – Focus and Key Issues

- Focus on support for Continued Operational Safety, regulations & policy, technical standards, and certification for both near term and longer term timeframes.
- Addresses key issues for:
  - Risk to aviation safety in the current NAS
  - New rulemaking, revision/updating of advisory materials, and standards development
  - Potential safety hazards
  - Changing operations – NextGen operating capabilities
  - Preparations for emerging technologies

ISC Members

Name	FAA Organization
Tom Bond	AVS, Aircraft Certification, Design, Mfg, and Airworthiness Division
Doug Bryant	AVS, Aircraft Certification, Transport Airplane Directorate
Chuck Enders	AVS, Flight Standards, Air Transportation Division
John Fisher	AVS, Aircraft Certification, Engine & Propeller Directorate
Eric Haight	AVS, Aircraft Certification, Rotorcraft Directorate
Bob Hettman	AVS, Aircraft Certification, Transport Airplane Directorate
Joe Jacobsen	AVS, Aircraft Certification, Transport Airplane Directorate
Steve Kroening	AVS, Flight Standards, General Aviation and Commercial Division
Mark Mutchler	AVS, Aircraft Certification, Small Airplane Directorate
Paul Pellicano	AVS, Aircraft Certification, Small Airplane Directorate
Andy Pierce	AVS, Flight Standards, Air Transportation Division
Jim Riley	NextGen, WJH Technical Center Office. Aviation Research Division
Dino Rovito	NextGen, Office of Advanced Concepts & Technology Development, Aviation Weather Division
George Soteropoulos	AVS, Aircraft Certification, Design, Mfg, and Airworthiness Division
Roger Sultan	AVS, Flight Standards, Flight Technologies and Procedures Division
Warren Underwood	NextGen, WJH Technical Center Office, Aviation Research Division

ISC – Develop and Support FAA Aircraft Icing Strategy

- Define the current capabilities & issues and reflect the needs of aircraft icing for the future within NextGen, icing operations, icing certification, and R&D
- Coordinate R&D from AVS and NextGen to leverage resources
  - AVS Aircraft Icing R&D
  - AWRP Icing Weather R&D
- Support FAA level, comprehensive visibility into icing issues

Planning Documents

- Update the 1996 Icing Plan with current aircraft icing activities and issues
- New Aircraft Icing Plan – Top-Level Content Areas
  1. Regulations and Guidance Material
  2. NextGen Operational Capability (e.g., improve icing weather information)
  3. Continued Operational Safety
  4. Training
  5. Research
  6. Coordination of icing activities

Icing Plan Status

- Complete two documents:
  1. Close-out of "*The 1997 FAA Inflight Aircraft Icing Plan*," - record of what the FAA did, and
  2. Develop new "*FAA Aircraft Icing Plan, 2012*"
- Completed documents at end of FY 2012, they are currently available through e-mail distribution
  - Request pdf through e-mail to tom.bond@faa.gov
  - Some URL listings (identified in the documents) are currently not accessible until all data loaded on website
- FAA website is being developed for online access to these documents and other FAA aircraft icing program information

ISC Current Work - Icing Plan Review

- This FY - review and update 2012 icing plan
- Feedback from 2012 plan review:
  - Reduce content at beginning of plan and go into operational, certification, and R&D details much sooner
  - Change format/organization of content
    - Comments to change R&D and other task reporting format – reviewers found top level section on FAA icing activities (Section 6) and Appendix A format hard to track and understand

ISC Current Work - Icing Plan Gap Analysis

- Gap Analysis: The FAA will perform a gap analysis to assess current Icing Plan capabilities and determine if upcoming operational needs are adequately addressed. The following are areas for review:
  - Certification, advisory material, training, and operational needs for operating in icing conditions;
  - Compliance methods that support certification for operating in icing condition for both current and new rulemaking;
  - Research activities that adequately support COS;
  - Research activities that address the development of capabilities to meet NextGen initial and mid-term operating requirements;
  - Operational capabilities, on-board technologies, aircraft state information, and icing weather information requirements to meet UAS needs
  - Identify current and near-term technology changes and the ability to address their influences on the NAS.
- Other areas?

Current Work - Icing Weather

- One of our most significant areas for R&D is improvements to icing weather information
  - Terminal and enroute weather surveillance, forecast/nowcast, and information dissemination.
  - Address SLD and ice crystal new regulations
  - Support improvements to winter weather operations to maintain/enhance National Airspace System through-put.