FAA - Rotorcraft Directorate Rulemaking Activities

Presented to: FAA & Industry Rotorcraft Forum
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FAA Rotorcraft Directorate Focus

- Rotorcraft Rulemaking Activities
- ARACs
- Policy and Guidance
- Inlet Barrier Filters
- Rotorcraft Safety Continuum Policy
Rotorcraft Rulemaking - Current

• **Current Miscellaneous Part 27/29 (FY15)**
  – 27/29.1305 & 27/29.1549 (OEI Training Mode)
  – 27/29.1305 (Synthesized Power Indicator)
  – **27/29.1309** (Eliminate need for 27.1309 SCs, update failure condition terminology)
  – 27/29.1333 & Appendix B (Interconnection of pilot/co-pilot systems)
  – 27/29.1545 & 27/29.1549 (Powerplant Instrument display of operating ranges)
  – **27/29.1353** (Recognize various battery technologies, e.g. Lithium)

• **Update of these miscellaneous Part 27/29 rules will reduce burden of need for recurring SCs, ELOS, & MOC IPs.**

• **NPRM will be available for comment – Late FY16**
Rotorcraft Rulemaking - Current

• Proposed New Rotorcraft Rulemaking (FY16)
  – Application for Rulemaking approval - April 2016
  – Special Rotorcraft Configurations Proposed Rules
    • Search & Rescue (SAR)
    • 30-Min All Engines Operative (AEO)
    • Other affected regulations
      – Anti-collision lights (red/white)
      – Master switch arrangement xx.1307

• Reduce burden by eliminating need for recurring SCs, ELOS, MOC IPs
Rotorcraft Rulemaking - Current

• Proposed New Rotorcraft Rulemaking (FY16) 27/29.773 Pilot Compartment View
  – SPOT Rule
  – Approval to proceed- May 24, 2016
  – Relieving to industry

• Two Technical amendments to correct errors in regulatory text in 29.1557(d) and 27.1401(b)
Rotorcraft Rulemaking - Future

• **Rotor Drive System – Loss of Lubrication**
  - Participating on EASA’s main gearbox loss of lubrication rulemaking program
  - CS/FAR 29.927
  - Harmonization rulemaking ~ FY-17

• **Ditching Rulemaking**
  - Participating on EASA’s rotorcraft ditching rulemaking program
  - Harmonization rulemaking ~ FY-17/18
ARAC – Occupant Protection

• **Scope**
  – Covers both CRFS and BFT Provisions
  – Considers both Newly Manufactured Rotorcraft (NMR) and the Existing Fleet
  – Members – rotorcraft OEMs, operators, vendors, associations, etc.

• **ARAC Working Group Status**
  – Aviation Rulemaking Advisory Committee (ARAC) tasking was published in the [Federal Register November 5, 2015](https://www.federalregister.gov/articles/2015/11/05/2015-26641/occupant-protection-for-rotorcraft)
  – First meeting held January 21-22, 2016
  – First deliverable is a cost/benefit analysis report- due date extended by 9 months
ARAC - Bird Strike

- Dramatic increase in number of Rotorcraft Bird Strikes

![Bird Strike Count Graph](chart.png)

- No current bird strike rule for Part 27, which is 90% of the fleet.
- ARAC approved tasking in March 2016.
- Federal Register Notice published April 27, 2016
- Submittal of names of those interested in participating in Working Group due by May 27, 2016.
Policy and Guidance

- **AC27-1 and AC29-2 updates**
  - A list of proposed AC changes has been compiled based on inputs from the FAA specialists.
  - The list will be shared with EASA, TCCA and ANAC at the CARP meeting in June 2016.
  - EASA, TCCA and ANAC are also compiling lists and will share their lists at that meeting.
  - A combined list and plan will be established.
Inlet Barrier Filters

• IBF Policy Statement PS-ASW-27/29-07 – Released for public comment (Jan. 25, 2016)
  – Comment period 60 days
  – 35 commenters
  – Filter Companies, Airframe Manufacturers, Helicopter Operators, DERs, and an ODA

• Public meeting planned
  – July 7th at Hilton Garden Inn, Fort Worth, TX
  – 9:00 AM – 12:00 Noon
Rotorcraft Safety Continuum Policy

- Rotorcraft Safety Continuum (SC) Policy Statement
- Propose to recognize 4 classes of Part 27, Normal Category rotorcraft
- Development Assurance Levels (DAL) will be tailored based on class of rotorcraft
- Single Engine IFR Concept Paper was an input to the policy statement, among other drivers
- Process & schedule
  - FAA internal review & comment
  - Public review & comment
  - Dec/Jan 2016 is goal for final PS