



**Federal Aviation
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Loss of Control

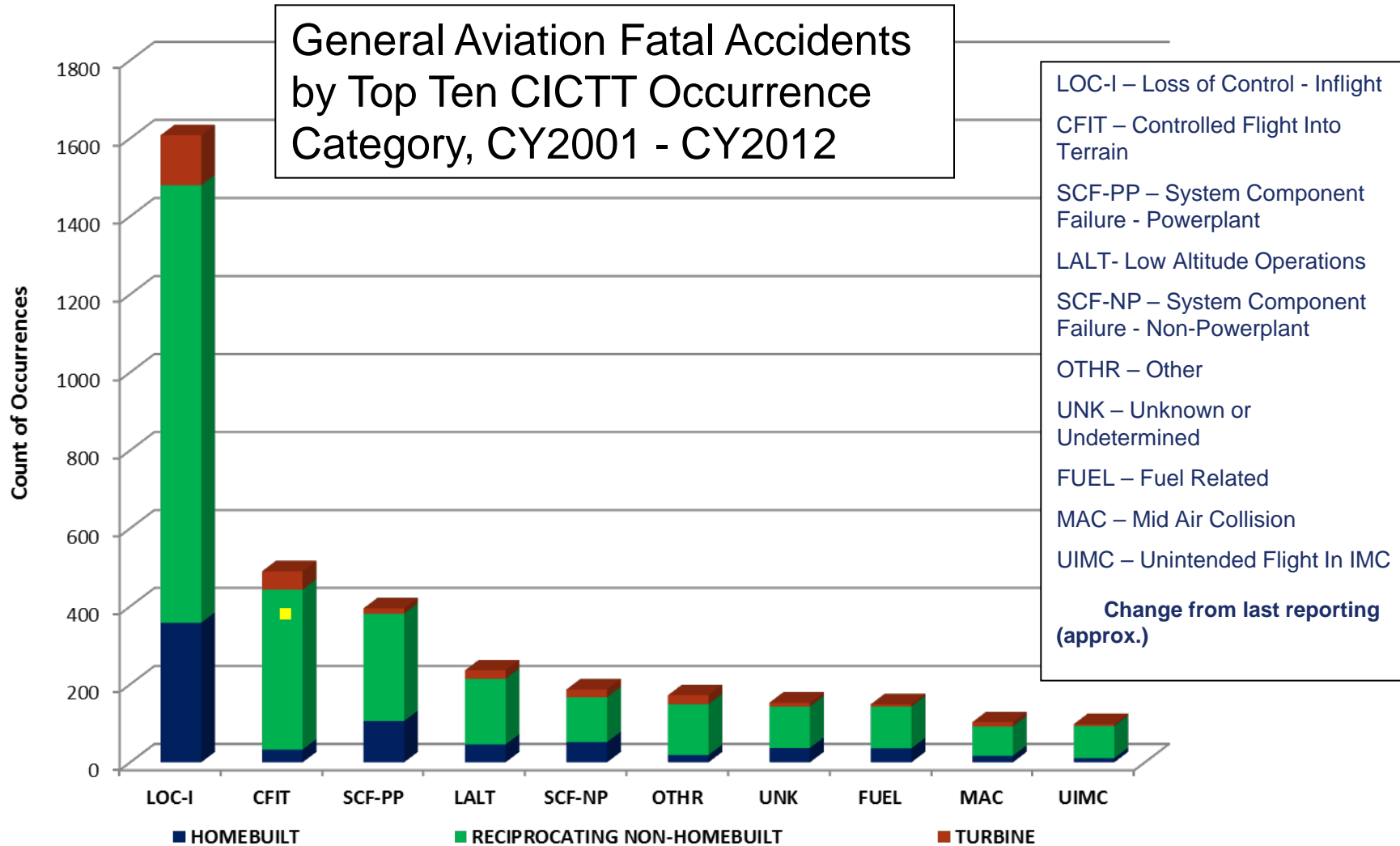
FAA Actions to Improve Safety

**By: Carl Johnson, Assistant Division Manager
General Aviation and Commercial Division
Flight Standards Service**

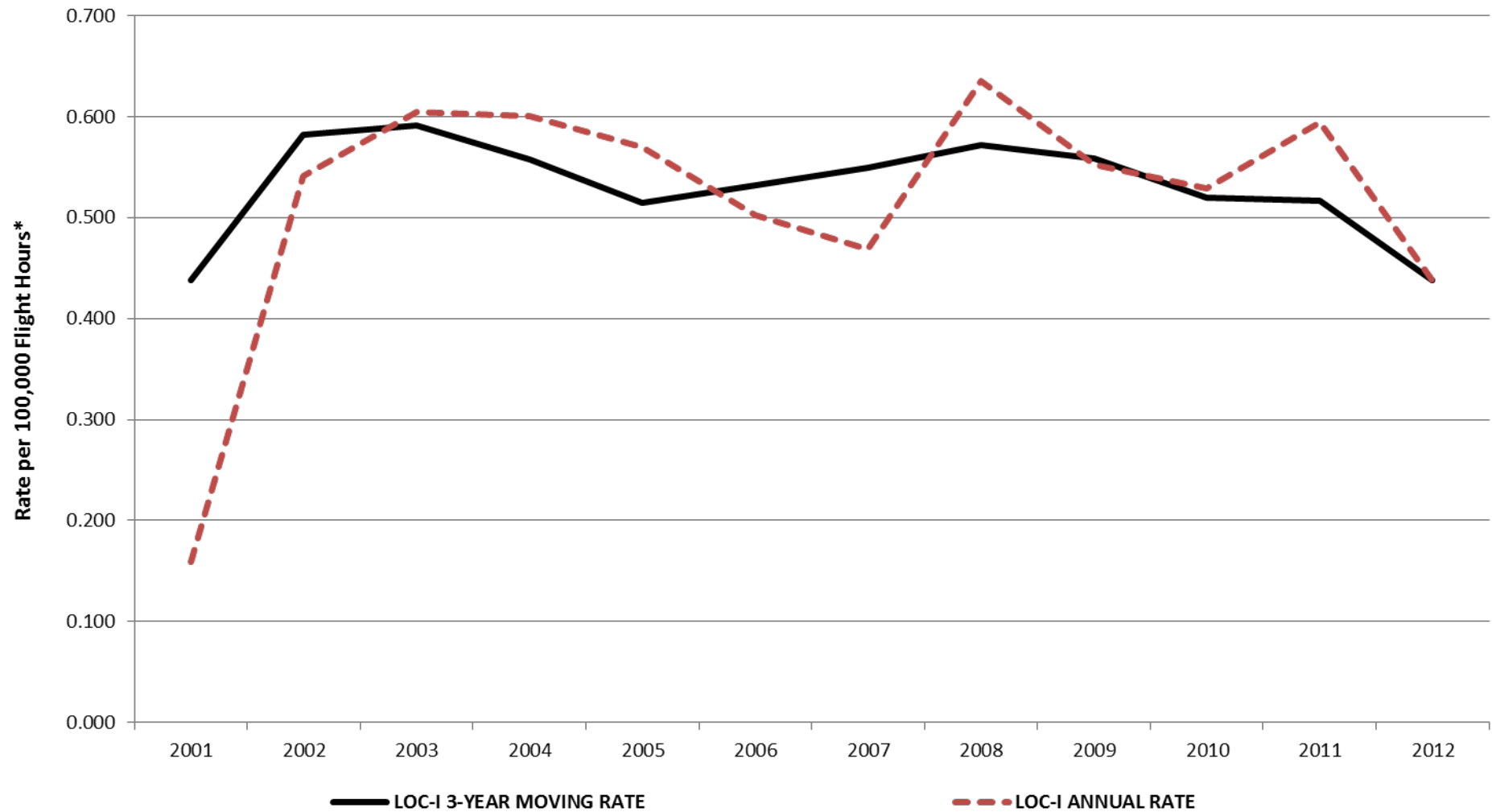
Date: May 14, 2016



Defining the problem...



Defining the problem...



Finding solutions...

The General Aviation Joint Steering Committee (GAJSC) stood up two work groups, and identified 32 Safety Enhancements (SE) aimed at addressing LOC accidents. Focal areas included:

- 🚩 Angle of Attack Indicators Policy
- 🚩 Improved Awareness of Impairing Medications
- 🚩 Transition Training
- 🚩 Organized Outreach on Key Safety Issues
- 🚩 Safety Culture Promotion



Angle-of-Attack Indicators

- ✚ Streamlined approval and installation procedures
- ✚ In some cases, installation may be completed as “minor alteration”
- ✚ FAA (AFS-300) Job Aid: Major Repair and Alteration Data Approval
 1. “Main Menu”
 2. “Normal, Utility, Aerobatic and Commuter Category Airplanes”
 3. “Avionics”
 4. Section 13cc (page 20): “Non-Required/ Supplemental AoA Systems”

http://www.faa.gov/about/office_org/headquarters_offices/avs/offices/afs/afs300/media/Major_Repair_Alteration_Job-Aid.pdf

Google Search: **“AFS-300 Job Aid”**




Angle-of-Attack Promotion and Training


- **FAA Safety Team**
 - Topic of the Month
 - CFI/DPE Forum

Topic of the Month
November

**Vmc Training &
Angle of Attack**




Presented to: <Audience>
By: <Presenter>
Date: < >





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Partnership to
Enhance
General
Aviation
Safety,
Accessibility, and
Sustainability



**PREVENTING
LOSS OF CONTROL
ACCIDENTS**

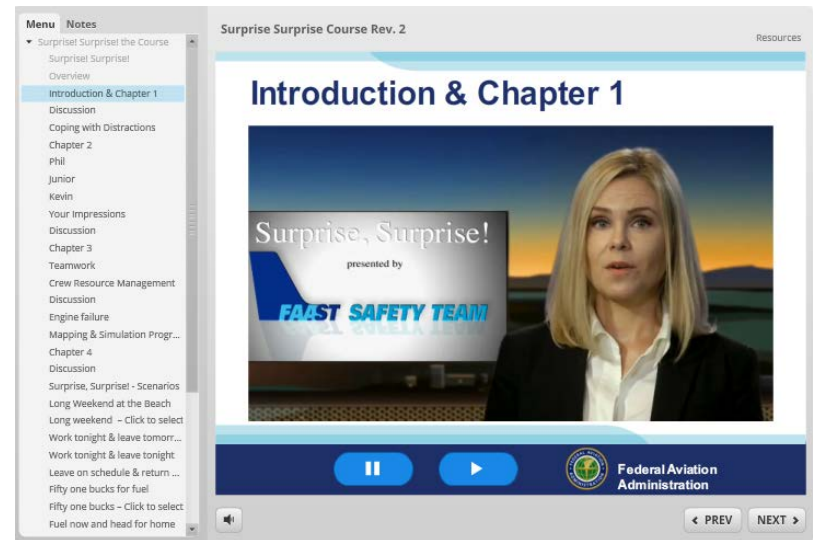




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New Approaches to Educating Pilots

- **Startle Response**
 - When you must do the right thing – right now!
- **Enhanced Preflight after Maintenance**
- **Vmc Training**



Aeronautical Decision Making

- **Safety Risk Management**
- **Managing LOC environments**
 - Personal minimums
 - Flight Planning
 - En route decision making
 - Proficiency training



Over-reliance on Automation

- **Back to basics**
- **Transition Training**
- **WINGS Proficiency Training**

LOC Panel Case Study Number 3

- **Pilot**
 - Private Pilot
 - Total Time975
 - Time in type44
- **Aircraft**
 - TBM 700



Safety Stand Down 2013
13 April 2013



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Transition Training

- **Technically Advanced Aircraft**
- **AC 90-109A: Transition to Unfamiliar Aircraft**
- **AC 90-116: Additional Pilot Program for Phase 1 Flight Test (Experimental A/B)**



Topic of the Month
July

Transition Training

Presented to: <Audience>
By: <Presenter>
Date: <>

Produced by
Jay Mason, CFI, AI, MEI
FAASTeam Representative

Federal Aviation Administration
FAAST SAFETY TEAM





Flight Risk Assessment Tools

- ***FAAST FRAT***
 - *Interactive spreadsheets targeted to GA pilots*
 - *Available on FAASafety.gov*
- ***FAAST FRAT App (Coming Soon)***
 - *iPhone App for GA pilots*




Topics of the month include:

- ✂ Stabilized approaches
- ✂ Medications and pilots
- ✂ Experimental/amateur-built flight testing
- ✂ Single-pilot CRM

Topic of the Month
October

The Stabilized Approach & Landing

Presented to: <Audience>
By: <Presenter>
Date: <>



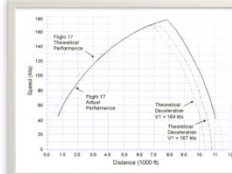
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Topic of the Month
November

Experimental/Amateur Built Flight Testing

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By: <Presenter>
Date: <>

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National FAA Safety Team



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Topic of the Month
September

Understanding Impairment Risk

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Other pilot resources include:

🚩 **Guidance for conducting a risk-based flight review**

🚩 **Online weather courses**



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Seeking Technological Solutions

Part 23 Rulemaking

Safety-based additions for both the rule and ASTM means of compliance

- Stalls
- V_{MC}
- Crashworthiness
- Icing (FIKI)
- Performance-based proposal vice prescriptive



Seeking Technological Solutions – Part 23 NPRM excerpts

- ✍ Increasing stall handling characteristics requirements – *Stall related LOC accidents 40% – 50% of small airplane fatalities*
- ✍ Deleting one turn spin requirements for Normal category
- ✍ V_{MC} for light twins has to occur below stall speed
- ✍ Removing specifics from dynamic seat rule
- ✍ Incorporating FIKI guidance into rule (Icing ARC rec)

*Comment period closed yesterday, but FAA will consider late comments if possible.



What can you do?

- **Be pro-active and continue learning**
 - www.FAASafety.gov (FAASTeam) and www.FAA.gov
 - **FAA Safety Briefing magazine**
 - WINGS, Handbooks, ACs, SAFO/InFO, FRAT
 - NTSB Safety Alerts/Videos
 - AOPA Air Safety Institute
 - www.GAJSC.org
 - www.USHST.org
 - www.IHST.org
 - EAA Type Club Coalition (LOBO, ABS, etc.)
- **Get involved**
 - Become a FAASTeam Representative
 - Take advantage of free safety info (FAA, NTSB, AOPA, etc.)
 - Pilots: join or establish a local Type Club chapter and practice proficiency



Thank you and safe flying...



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