The National FAA Safety Team Presents

Topic of the Month - June Regulatory Roadblock Reduction

<Audience>

Presented to: <Presenter>

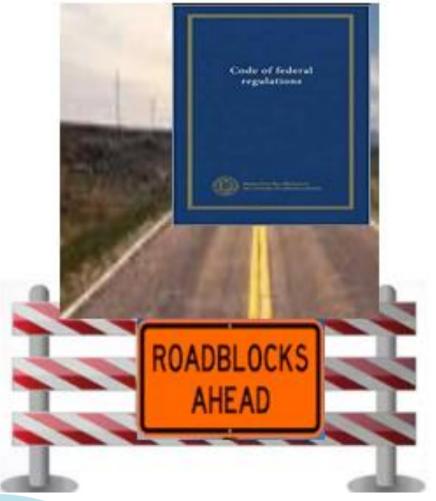
By: <>

Date:

Produced by: The National FAA Safety Team (FAASTeam)



Federal Aviation Administration



Welcome

- Exits
- Restrooms
- Emergency Evacuation
- Breaks
- Set phones & pagers to silent or off
- Sponsor Acknowledgment
- Other information



Overview

- Understanding Regulatory Roadblocks
- Changes to certification of Part 23 aircraft
- Technology to address LOC accidents

* General Aviation Joint Steering Committee





Approval of non-required safety equipment



Policy Statement

Subject: Approval of Non-Required Safety Enhancing Equipment (NORSEE) Date: 03/31/16

Policy No: PS-AIR-21.8-

1602

Initiated By: A.V

AIR-100

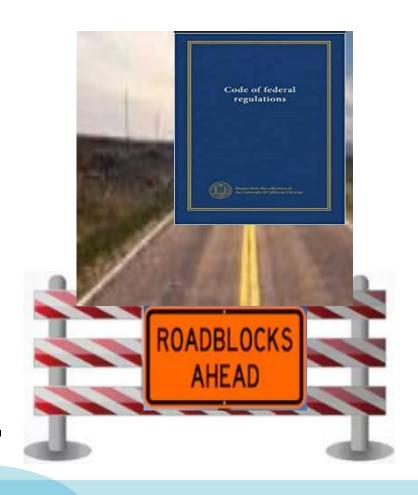




Reducing Regulatory Roadblocks

The FAA has accepted ASTM International standards as a means of certification for Part 23 aircraft.

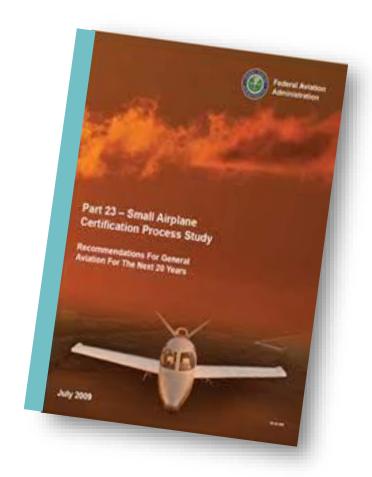
This is aimed to streamline certification standards to reduce the regulatory burden on the industry and reduce the cost of aircraft certification.





Changes to Certification of Part 23 Aircraft

The final rule overhauling airworthiness standards for general aviation airplanes, published in December of 2016, is now in effect.



Changes to Certification of Part 23 Aircraft



ASTM Consensus Standards F3264 - 17
Standard Specification for Normal Category
Aeroplanes Certification

The introduction of new aircraft might have just become a lot easier. The FAA has accepted ASTM International standards as a means of certification for Part 23 aircraft.



Aviation Technology

 Technology that addresses LOC in GA aircraft could either be installed or portable devices such as:



- GPS Navigation
- AOA Indicator





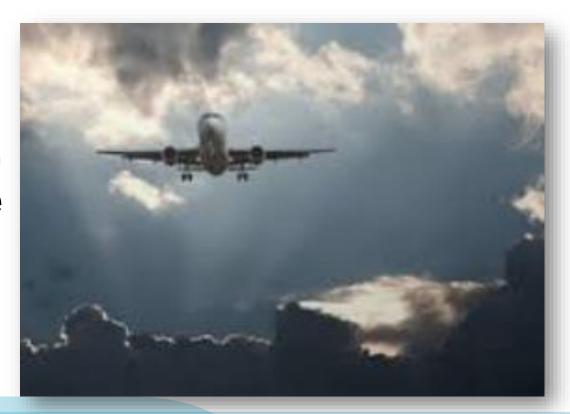






GAJSC Report Finds IMC Accidents Frequently Started During Approach.

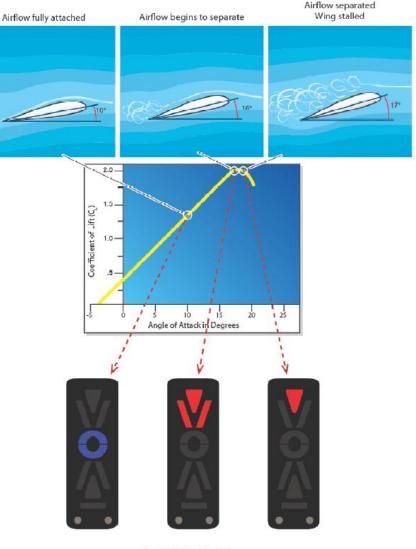
The GAJSC believes that providing pilots with GPS moving maps, real time weather, and terrain awareness has made a significant reduction in pilot workload during non-precision approaches.





Risk Mitigation

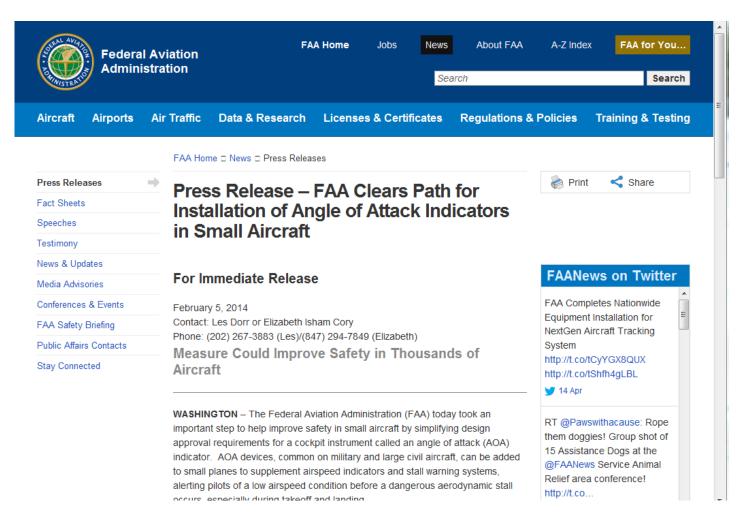
- Angle of Attack Indicators AOA
- The purpose of an AOA indicator is to give the pilot better situational awareness pertaining to the aerodynamic health of the airfoil. This can also be referred as stall margin awareness. More simply explained, it is the margin that exists between the current AOA that the airfoil will stall
- (critical AOA).



Angle of Attack Indicators



Streamlined Certification Process





http://Bit.ly/3NGriYD





Risk Mitigation



Autopilot

 An AOPA Air Safety Institute report points out that an installed autopilot could reduce IMC and Night flight accidents by 50%.



Risk Mitigation

- Autopilot
- Is not required equipment except in a few high end part 23 aircraft.



Summary – Removing Regulatory Roadblocks



- With ASTM International consensus standards, certification of part 23 aircraft could become easier.
- GA is going through a technical revolution and is accelerating today.
- The FAA is working on ways to simplify certification & installation

One more example

- Garmin Emergency Autoland (EAL) system
 - Piper M600, TBM 940, Cirrus Vision Jet
 - When activated squawks 7700 & broadcast on pilot selected and 121.5 Mhz.
 - Navigates to suitable emergency airport and lands
- Listen for broadcasts and remain clear of emergency aircraft



Photo courtesy of Cirrus Aircraft



Questions?



Proficiency and Peace of Mind

- Fly regularly with your CFI
- Perfect Practice
- Document in WINGS





http://www.mywingsinitiative.org/



The Paul and Fran Burger 2021 \$10,000 WINGS Sweepstakes

The **WINGS** Sweepstakes mission is to reduce the nation's accident and incident rate by increasing pilot participation in the **WINGS** FAASTeam Pilot Proficiency Program. The **WINGS** program has courses based on real world accident and incident causes so flight instructors, pilots and student pilots get training that can truly make a difference.

Studies indicate that pilots who complete WINGS phases are safer aviators. Please join us in saving lives.

Captain Sully endorses the WINGS Pilot Proficiency Program View the video

learn about the program and its many benefits.

The 2020 Sweepstakes awards 10 cash prizes! Prize levels include:

Four (4) \$1,500 Four (4) \$750 Two (2) \$500







Safety Management Systems (SMS) Coming to General Aviation



https://www.faa.gov/about/initiatives/gasafetyoutreach



Thank you for attending

You are vital members of our GA safety

community







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