The National FAA Safety Team Presents

Topic of the Month - June Regulatory Roadblock Reduction

<audience></audience>
<presenter></presenter>

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Presented to:

By:

Date:

Produced by: The National FAA Safety Team (FAASTeam)



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



The General Aviation Joint Steering Committee



Approval of non-required safety equipment

1602

Policy No: PS-AIR-21.8-

U.S. Department of Transportation Federal Aviation Administration

Policy Statement

Subject: Approval of Non-Required Safety Enhancing Equipment (NORSEE)

Date: 03/31/16 Initiated By: A.V AIR-100

Policy Statement Subject: Approval of Non-Required Safety Enhancing Equipment (NORSEE) Date: 03/31/16 Policy No: PS-AIR-21.8-Initiated By: A.V AIR-100 This policy statement addresses equipment that is not required by any Federal regulation with the same term measure of the same state of In the policy statement below, the terms "must," "should," and "recommend" have specific meanings that are explained in Appendix 2. This policy statement applies to CFR 14 part 23, 27, 29 category and predecessor aircraft (Appendix 2). It excludes part 25 (transport category), and unmanned aircraft for all aircraft categorys. The Federal Aristion Administration's (FAA) mission is to provide the safest, most efficient accopace system in the world. AR: 2018 calls on the FAA to improve aviation acid the field of methods. One of those is 'to encourage and enables, the FAA shared affected and four methods. One of those is 'to encourage and enables, the FAA shared affected between non-required quagment and the special class of non-required equipment that can be provide the statistical aviation (GA) and rotoercard fleets. The interiat is not to



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 <u>general aviation</u> airplanes, published in December of 2016, is now in effect.





Changes to Certification of Part 23 Aircraft



ASTM INTERNATIONAL Helping our world work better

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:
- Auto Pilot
- 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
- Airflow fully attached Airflow begins to separate Wing stalled



Angle of Attack Indicators

REMAIL AVER

• (critical AOA).

Streamlined Certification Process

Federal Adminis	Aviation tration	A-Z Index FAA for You Search
Aircraft Airports	Air Traffic Data & Research Licenses & Certificates Regulations 8	Policies Training & Testing
	FAA Home □ News □ Press Releases	
Press Releases	Press Release – FAA Clears Path for	🗞 Print < Share
Fact Sheets	Installation of Angle of Attack Indicators	
Speeches	in Small Aircraft	
Testimony		
News & Updates		EAAN- on Twitten
Media Advisories	For Immediate Release	FAANews on Twitter
Conferences & Events	February 5, 2014	FAA Completes Nationwide
FAA Safety Briefing	Contact: Les Dorr or Elizabeth Isham Cory	Equipment Installation for NextGen Aircraft Tracking
Public Affairs Contacts	Phone: (202) 267-3883 (Les)/(847) 294-7849 (Elizabeth) Measure Could Improve Safety in Thousands of	System
	Aircraft	http://t.co/tCyYGX8QUX http://t.co/tShfh4gLBL
		y 14 Apr
	WASHINGTON – The Federal Aviation Administration (FAA) today took an important step to help improve safety in small aircraft by simplifying design approval requirements for a cockpit instrument called an angle of attack (AOA) indicator. AOA devices, common on military and large civil aircraft, can be added	RT @Pawswithacause: Rope them doggies! Group shot of 15 Assistance Dogs at the @FAANews Service Animal

to small planes to supplement airspeed indicators and stall warning systems,

occure penecially during takeoff and landing

alerting pilots of a low airspeed condition before a dangerous aerodynamic stall



http://Bit.ly/3NGriYD





@FAANews Service Animal

Relief area conference!

http://t.co...

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









Thank you for attending

You are vital members of our GA safety community







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