

Topic of the Month June Maneuvering Flight



Federal Aviation
Administration

Presented to: Salem Area Pilots
By: Thomas Gorski CFI
Date: June 7th, 2014



Welcome

- Exits
- Restrooms
- Emergency Evacuation
- Breaks
- Sponsor Acknowledgment
- Interactive Presentation Style
- Presenter Information



Topic of the Month - June
Maneuvering Flight



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Administration

2

My Background

- 1976 – US Army Avionics Technician
- 1984 – CFI & Part 135 New Jersey
- 1986 – 03 CFI & 135 WA, OR, CT PA-34, BE-58, C-414
- 2004 – FO LR-25, 35, 55 TX, & FL
- 2006 – CA LR-35 Part 135 Africa, Middle East
- 2007 – CA LR-35 / CE500 Part 135 North America
- 2008 – FO Part 121 B747-200 & 400 Worldwide
- 2010 – CA Director of Flight Standards B-747-400
- Present Owner ASR Training Products

Topic of the Month - June
Maneuvering Flight



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Safety Seminars

FAASTeam Website

www.faasafety.gov

Topic of the Month - June
Maneuvering Flight



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Administration

4



Safety Seminars

FAASTeam Mission Statement

Improve the Nation's aviation accident rate by conveying safety principles and practices through training, outreach, and education; while establishing partnerships and encouraging the continual growth of a positive safety culture within the aviation community.

Topic of the Month - June
Maneuvering Flight



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Administration

6



Organizational Structure

Eight FAA Flight Standards Regions

Regional FAASafety Office develops business plan based on information from each of the region's geographic areas. Information includes:

- Accident/incident reports from the area
- Information & hazards from local aviation community



FAASafety Team Representatives

Aviation safety volunteers working closely with Program Managers to actively promote safety.

Volunteers receive training and are supported by the PM with equipment and materials.



Relationships with the Aviation Community

FAASafety Members are individuals who makes a conscious effort to promote aviation safety and become part of the shift in safety culture. Members are:

Pilots – participate in WINGS - Pilot Proficiency Program

Mechanics – participate in AMT Awards Program

People who attend FAASafety seminars



Join the FAASafety Team!

Join the FAASafety Team at whatever level is right for you:
Pilots; Maintenance; Volunteers;
Attend seminars and promote a positive safety culture.

Together, as a team, we can make a difference by reducing aviation accidents!

Sign-up at FAASafety.gov and take part in all it has to offer!

Thank You!



Overview

- Maneuvering Flight
- Maneuvering Flight Tasks
- Maneuvering Flight Accidents
- Tips for Success
- Audience Response Quiz Game



Fatal Accidents

- > 25% of Fatal Accidents occur in Maneuvering Flight
 - Half involve Stall Spin



Maneuvering Flight Involves:

- A. Takeoffs, landings & go-arounds
- B. Go-arounds, stalls & spins
- C. Formation, aerobatics, & training
- D. Forced landings, buzzing, & photography
-  E. All of the above & more.



Maneuvering Flight Involves:



Stall/Spin Accidents

- **In the traffic pattern**
 - Takeoff 28 %
 - Approach 18 %
 - Go Around 6 %
 - Crosswind
- **Maneuvering** 41%



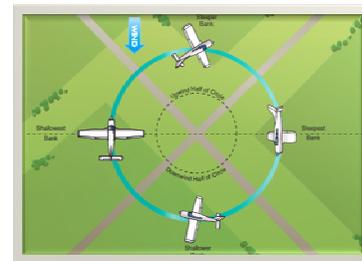
Stalls



Angle of Attack



Turns about a point



Moose Stalls



NTSB IDENTIFICATION: SEA93FA153

- Accident Occurred Thursday, July 15, 1993
Battleground, WA
- Aircraft: Piper PA-34-220T, Reg: N8472C
- Injuries: 1 Fatal.



NTSB IDENTIFICATION: SEA93FA153

Acft Departed Portland Intn'l Arpt on a Maintenance Check Flt, Climbed To 1900 MSL & Proceeded To Overfly The Pilot's Residence.



NTSB IDENTIFICATION: SEA93FA153

Radar Data Showed The Acft Flying A Left 360 Deg Circle At 1900 Ft (Approx 1000 Ft Above Gnd) Before Radar Contact Was Lost.



NTSB IDENTIFICATION: SEA93FA153

Witnesses Observed the Acft Execute a Steep Left Turn during which the Nose Dropped and Aircraft Began a Descent, Striking a Tree At a Point Approx 110 Ft Above the Ground Impact Site & Severing the Outboard Left Wing Section.



NTSB IDENTIFICATION: SEA93FA153

Post Crash Exam Revealed No Evidence of Any Control Malfunction.
The NTSB Determines The Probable Cause of this accident to be:
“The Pilot In Command's Failure To Maintain Adequate Altitude During His Maneuver.”



Safety Tip

- Fly past – then turn & fly back



Buzzing – 32%



•Safety Tip

- Practice
 - Stalls & slow flight
 - Flight training maneuvers
 - Takeoffs & Landings
 - Instrument Maneuvers



Questions?

Portland FSDO
3180 NW 229th Avenue
Hillsboro, Oregon 97124

Phone: (503) 615-3200 or
(800) 847-3806 Fax: (503) 615-3300

Office Hours: 7:30 a.m. to 4:00 p.m.,
Monday - Friday

Office visits are recommended appointment only



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Break
15
Minutes Remaining