



NATIONAL ASSOCIATION OF FLIGHT INSTRUCTORS

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Welcome!

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January 2022 Mentor*LIVE* Sponsor

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Aviation



Power Loss at 300 Feet – What Went Wrong, What Went Right

Presented by Philip Mandel, CFI-I, MEI, AGI, IGI



A screenshot of a MentorLIVE! course page. The main content area shows the course title "NAFI - Training The Blarney Out of..." and a "MentorLIVE!" logo. A sidebar on the right lists various resources and links, including "CFI & Learner Resources", "About This Course", "Christine Madden - Presenter", "Earn WINGS Credit!", "Nick DeLozdi - Presenter", "Karen Katschek - Host", "Previous MentorLIVE! Programs", "Course Evaluation Link", and "NAFI Education Foundation Granting".

Earn WINGS Credit!
New 2-clicks to quiz

Course Resources

Speaker Biographies

MentorLIVE! Archives

Course Evaluation

Educational Foundation



Power Loss at 300 Feet – What Went Wrong, What Went Right

Presented by Philip Mandel, CFI-I, MEI, AGI, IGI

Power Loss at 300 Feet

What Went Wrong,
What Went Right

Philip Mandel, CFI-I, MEI, AGI, IGI

FAA Safety Team (FAASTeam) Representative
2020 Portland (OR) FSDO:

FAASTeam Rep of the Year

flyphil.INFO

phmand@gmail.com

Beaverton OR

Member AOPA, EAA, NAFI, SAFE et al





Introduction

- **Philip and his primary student lost all engine oil and experienced significant power loss at 300 feet AGL over Vancouver, Washington, off Pearson Field (KVUO) in 2019.**



Introduction (cont'd)

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- **With the help of dashcam video that captured the event, Philip will share lessons learned from the scariest two minutes of his life.**



Introduction (cont'd)

- Philip and his primary student lost all engine oil and experienced significant power loss at 300 feet AGL over Vancouver, Washington, off Pearson Field (KVUO) in 2019.
- With the help of dashcam video that captured the event, Philip will share lessons learned from the scariest two minutes of his life.
- **He says he did more things wrong than right, yet still managed to nurse the Beech Musketeer back to the field and land opposite direction without bending anything.**

1 - video excerpt









"Under pressure, you don't rise to the occasion, you sink to the level of your training."



"Under pressure, you don't rise to the occasion, you sink to the level of your training."

Although frequently credited to an anonymous Navy Seal (the altered quote likely is), this quote is originally attributed to the Greek lyrical poet, Archilochus (c. 650 BCE).



Paraphrased:

Under pressure, you do not rise to the occasion, you sink to the level of your training and recent practice.



Presenter

Philip Mandel
3500-plus TT
2300-plus as CFI
FAA Steam Rep...

**and a recovering
engineer!**

C-172
PA-28 (140)
Christen Eagle II
RV-4
C-150
T-18
PA-23 (Apache)
T-18
AA-5A
T-18

**Thorp T-18 built by Bill Cordoza c. 1977
Lovingly restored by Lee Walton in 2019
N118BC**





What Went Wrong

What Went Wrong

- **Complacency, inattentiveness during critical phase of flight**



Complacency Is



D e a t h

What Went Wrong

- Complacency, inattentiveness during critical phase of flight
- **Auditory issues**
 - **SSD (single sided deafness)**
 - **ANC/ANR headsets**





What Went Wrong

- Complacency, inattentiveness during critical phase of flight
- Auditory issues
 - SSD (single sided deafness)
 - ANC/ANR headsets
- **Failure to have a plan in case of power loss on a continuous basis**



V1.00

- R
E
V
I
E
W**
- Wind Direction
 - Known Obstructions
 - Good Options/Bad Options
 - Runway Abort Point
 - Decision Height/Altitude
 - Climb Speed/Glide Speed

1. **Takeoff Roll**
Power to idle
Maintain directional control
STOP
2. **Runway Remaining**
Pitch down
Power to idle
Land straight ahead
3. **Initial Climb (below DH)**
Pitch down, Establish best glide
Land in widening pie slice
Into the wind - Say direction: _____
4. **Departure Climb (above DH)**
Pitch down, Establish best glide
Best landing spot
Into the wind - Say direction: _____
(Crack open doors), Systems OFF

Wind

Turning into the wind keeps you in closer proximity to the airport. Turning into the wind also minimizes forces during a crash landing. Before you depart, determine which direction you will turn.

Known Obstructions

Determine them in advance and visualize where they are. These are areas to avoid and may influence the direction in which you turn.

Good Options/Bad Options

Determine your options while you're still on the ground. At your home airport, have these picked out and know them like the back of your hand.

Runway Abort Point

Pick a landmark such as a taxiway or building.

Decision Height/Altitude

Determine the height at which you can turn at least 180 degrees, without power, in either direction and still have adequate room for a straight-ahead, controlled landing. If you have not calculated this, use 1000 feet AGL.

Climb Speed/Glide Speed

Determine your best glide speed. Select your climb speed. Steeper climbs should be considered on shorter runways.

What Went Wrong

- Complacency, inattentiveness during critical phase of flight
- Auditory issues
 - SSD (single sided deafness)
 - ANC/ANR headsets
- **Failure to have a plan in case of power loss on a continuous basis**



Takeoff Emergencies
6,642 views • Nov 24, 2020

<https://youtu.be/aTWMZqFTmaM>
Gold Seal Flight Training
[groundschool.com](https://www.groundschool.com)
Master CFI Russell Still

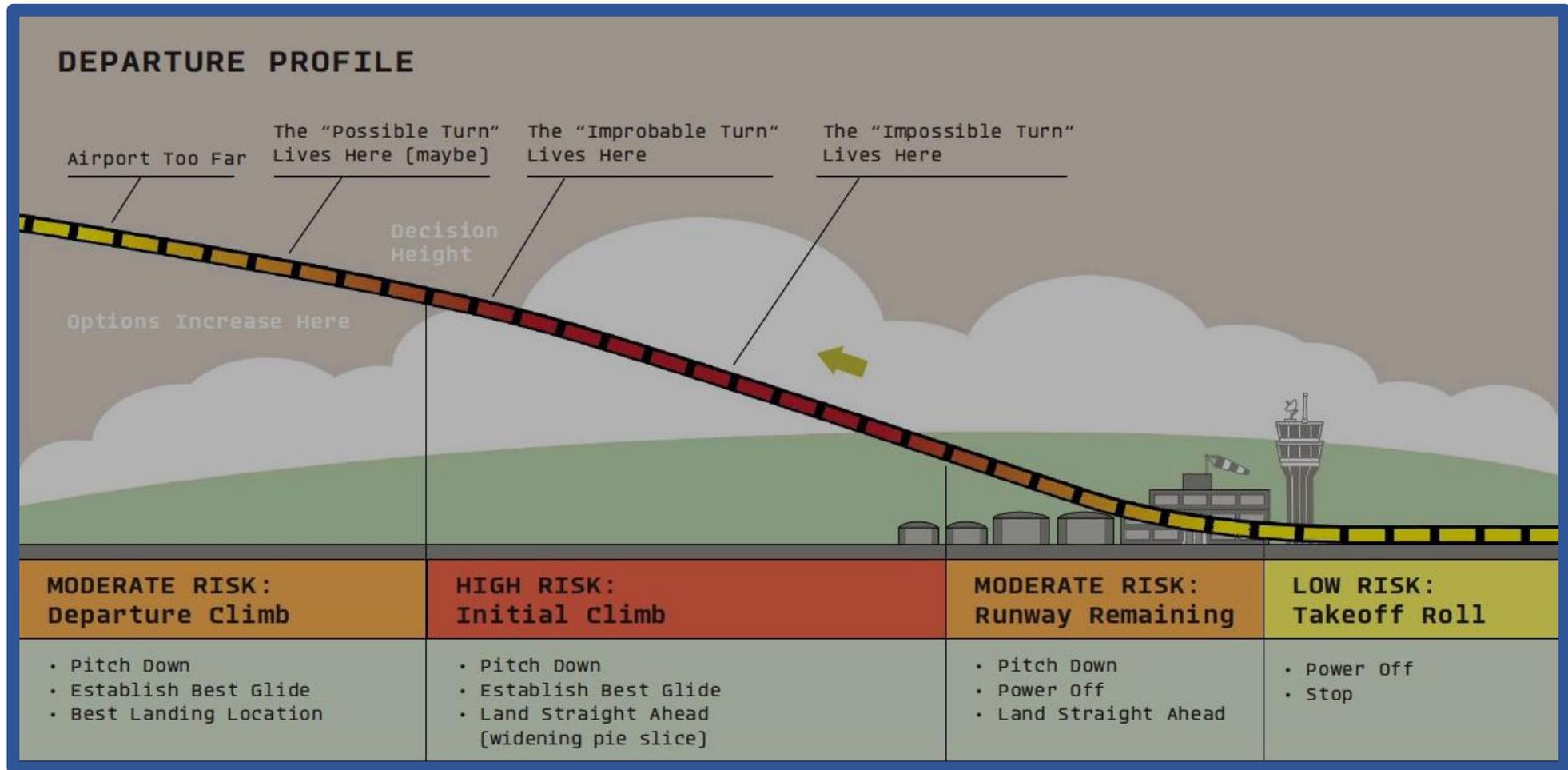
What Went Wrong

<https://youtu.be/aTWMZqFTmaM>



What Went Wrong

Flying Magazine Oct-2021 p. 45 ff



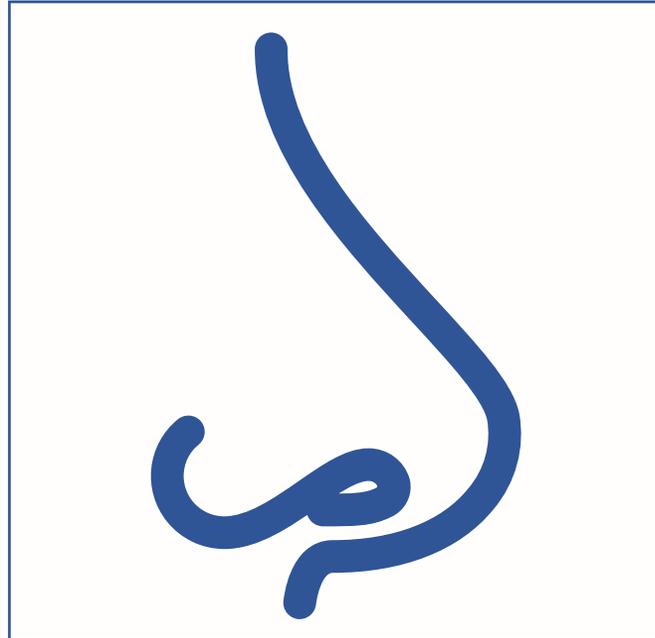
What Went Wrong

- Complacency, inattentiveness during critical phase of flight
- Auditory issues
 - SSD (single sided deafness)
 - ANC/ANR headsets
- Failure to have a plan in case of a continuous basis
- **Turned toward buildings**



What Went Wrong

- **Dismissed the strong odor too easily**



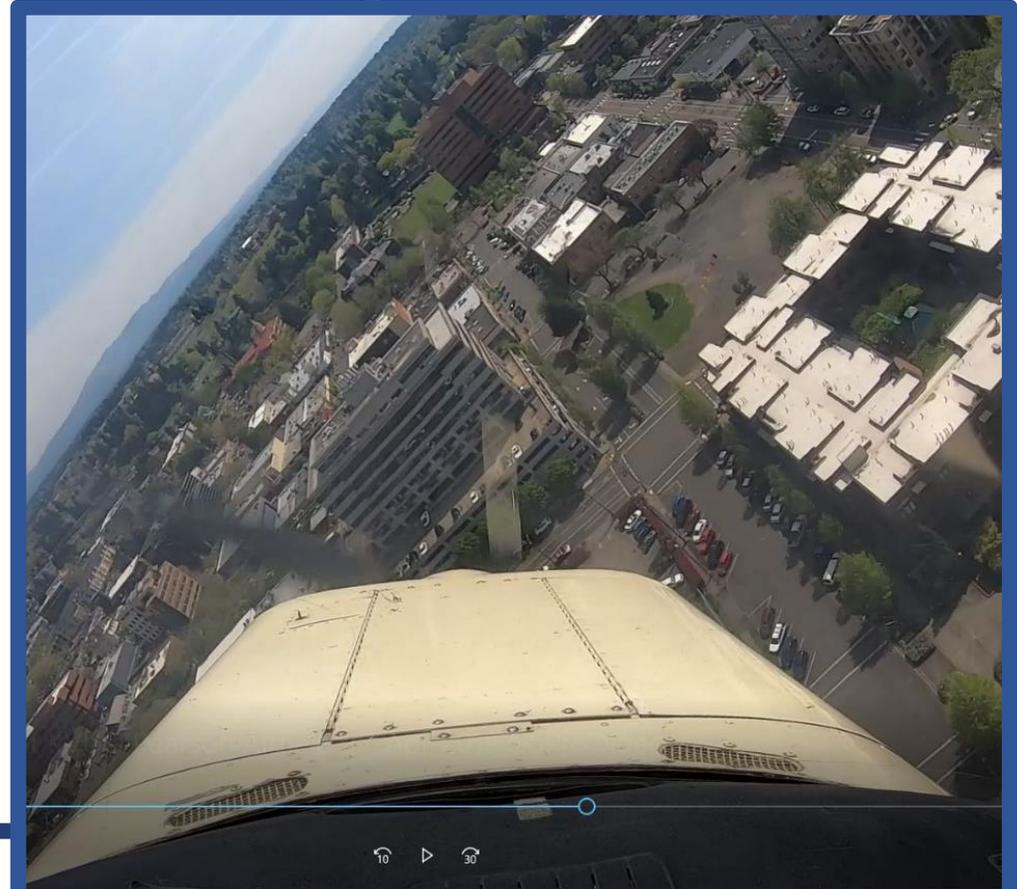
What Went Wrong

- Dismissed the strong odor too easily
- **Failed to notice engine sound change early**



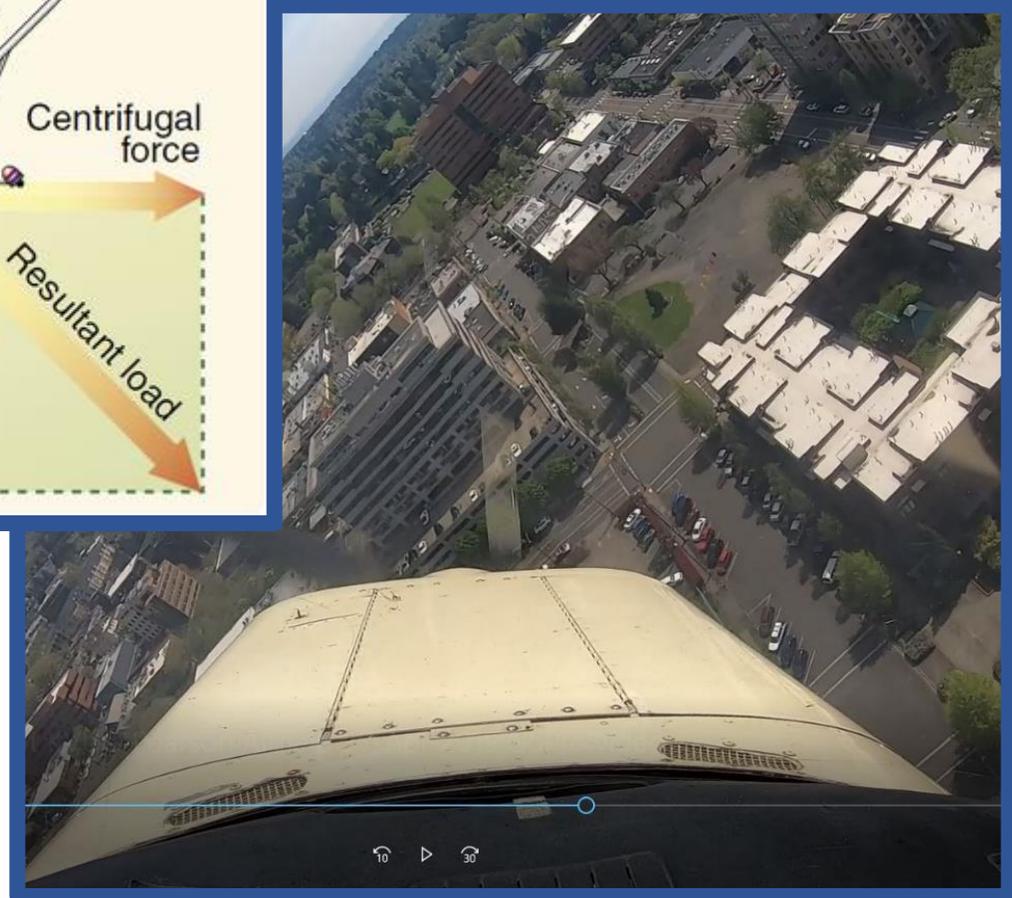
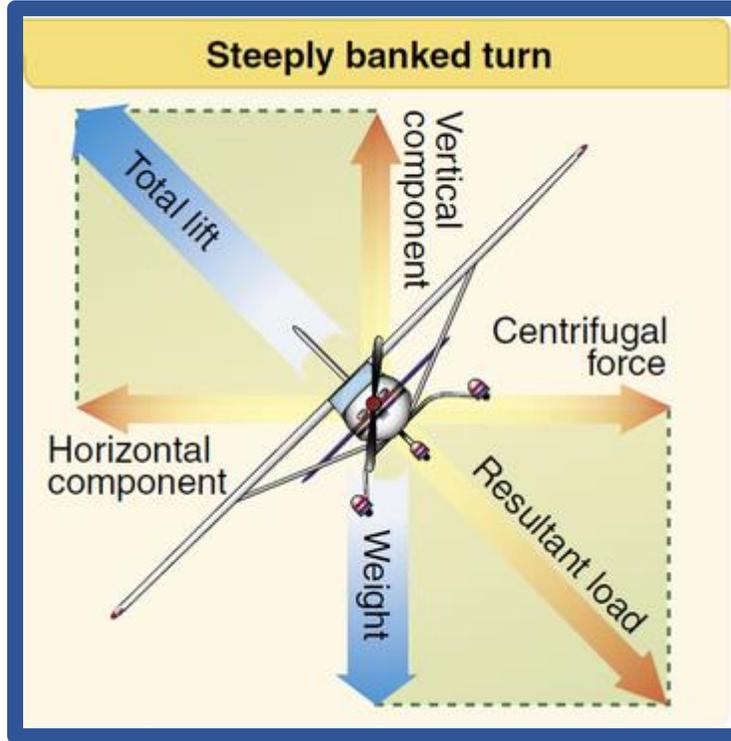
What Went Wrong

- Dismissed the strong odor too easily
- Failed to notice engine sound change
- **Banked too steeply?? Maybe...**



What Went Wrong

- Dismissed the strong odor too easily
- Failed to notice engine sound change early
- Banked too steeply?? Maybe...
- **Excessive back pressure: Accelerated Stall**



What Went Wrong

- Dismissed the strong odor too easily
- Failed to notice engine sound change
- Banked too steeply?? Maybe...
- Excessive back pressure: Acceleration
- **Fuel valve: OFF after landing**



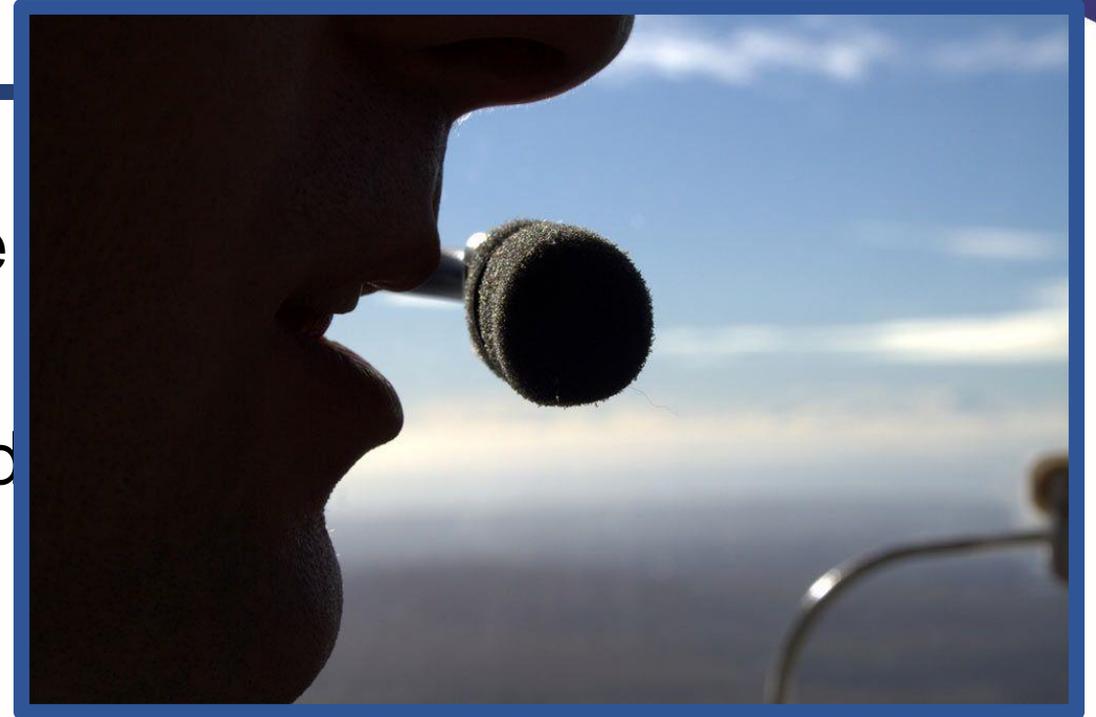
What Went Wrong

- Dismissed the strong odor too
- Failed to notice engine sound
- Banked too steeply?? Maybe..
- Excessive back pressure: Accel
- Fuel valve: OFF after landing
- **Flaps: UP after landing**



What Went Wrong

- Dismissed the strong odor too easily
- Failed to notice engine sound change
- Banked too steeply?? Maybe...
- Excessive back pressure: Accelerated
- Fuel valve: OFF after landing
- Flaps: UP after landing
- **Did not cancel emergency...discuss...**





What Went Right



What went right

- **Promptly took control of the aircraft**
 - ✦ **Positive Exchange of Flight Controls**

**Private Pilot – Airplane
Airman Certification Standards**

Appendix 6: Safety of Flight

Positive Exchange of Flight Controls

There must always be a clear understanding of who has control of the aircraft. Prior to flight, the pilots involved should conduct a briefing that includes reviewing the procedures for exchanging flight controls.

The FAA recommends a positive three-step process for exchanging flight controls between pilots:

- When one pilot seeks to have the other pilot take control of the aircraft, he or she will say, "You have the flight controls."
- The second pilot acknowledges immediately by saying, "I have the flight controls."
- The first pilot again says, "You have the flight controls," and visually confirms the exchange.

Pilots should follow this procedure during any exchange of flight controls, including any occurrence during the practical test. The FAA also recommends that both pilots use a visual check to verify that the exchange has occurred. There must never be any doubt as to who is flying the aircraft.



Positive Exchange of Flight Controls

- There must always be a clear understanding of who has control of the aircraft. Prior to flight, the pilots involved should conduct a briefing that includes reviewing the procedures for exchanging flight controls.

-



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- **Pilots should follow this procedure during any exchange of flight controls, including any occurrence during the practical test. The FAA also recommends that both pilots use a visual check to verify that the exchange has occurred. There must never be any doubt as to who is flying the aircraft.**

What went right

- **Assessed engine power – tried different throttle settings**
 - Most, if not all, power loss emergency checklists say, “Throttle – Full Open”
 - Not all power losses are total engine failure
 - Consider trying different throttle and/or mixture settings



What went right

- **Assessed engine power – tried different throttle settings**
 - Most, if not all, power loss emerged
 - say, “Throttle – Full”
 - Not a
 - Cons
 - setting

**Always satisfy
your POH or AFM!**



What went right

- **Assessed engine power – tried different throttle settings**

KITPLANES[®]

Dealing With Off-Nominal: Part 2

What to do when the engine has “quit.”

Paul Dye December 26, 2021

“Throttle, mixture, prop, carb heat (if applicable, or alternate induction air), fuel selector, fuel boost pump, ignition—that pretty much covers it for most planes. Move each through its range and see if it makes a difference.”

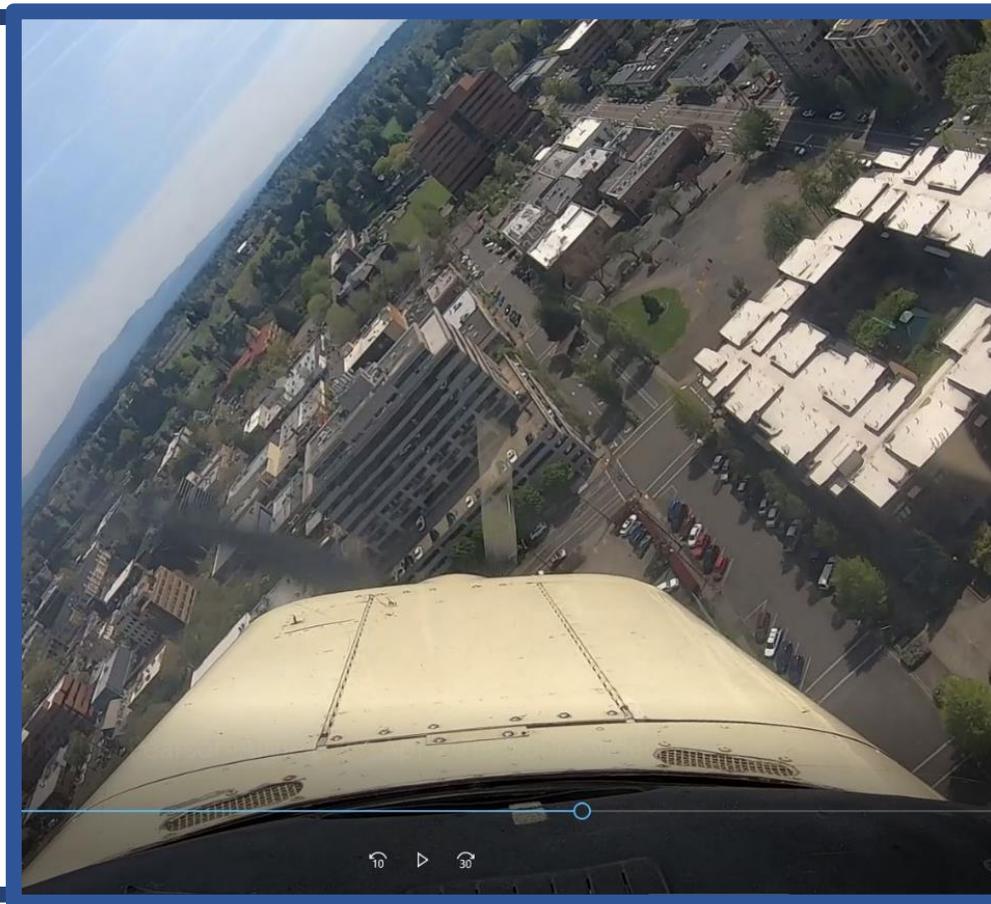
What went right

- Assessed engine power – tried different throttle settings
 - Most, if not all, power loss emergency checklists say, “Throttle – Full Open”
 - Not all power losses are total engine failure
 - Consider trying different throttle and/or mixt settings
- **Made a plan, then acted immediately**



What went right

- **Recognized and recovered from the accelerated stall before it was too late**



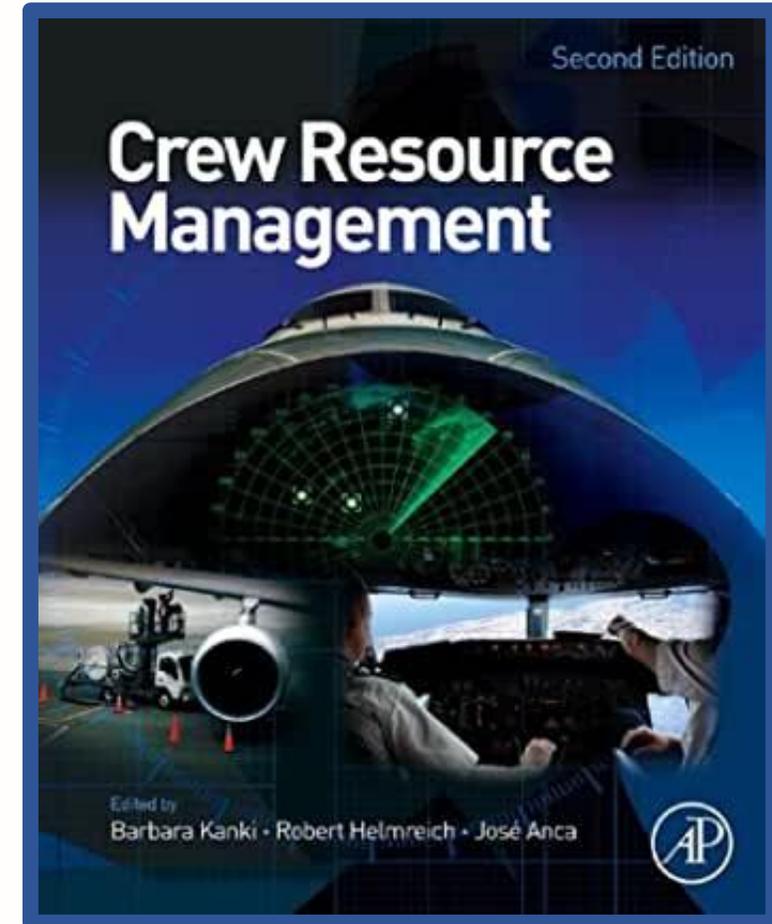
What went right

- Recognized and recovered from the accelerated stall before it was too late
- **FLEW THE PLANE**



What went right

- Recognized and recovered from the accelerated stall before it was too late
- FLEW THE PLANE
- **Cockpit Resource Management (CRM)**
 - Asked student to declare emergency
 - Asked student to unlatch door and open door and window
 - Asked student to add flaps
 - Both pilots released seat belts after landing

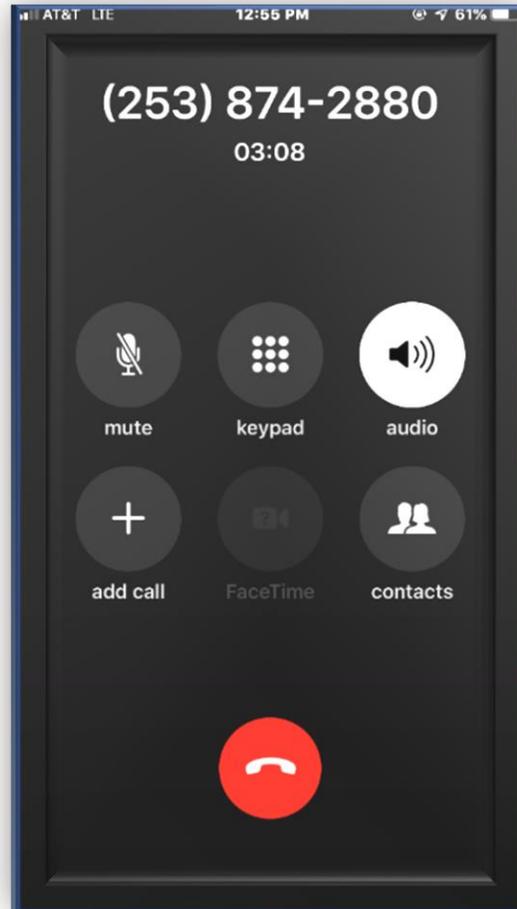




Engine Failure/Power Loss Checklist – A, B, C, D, E, (F)

- A –
- B –
- C –
- D –
- E –
- (F) –

NTSB – did we need to report?





Practice, practice, practice..!!

- **Phil:**
“Nothing teaches like teaching.”

-



Practice, practice, practice..!!

- Phil:
“Nothing teaches like teaching.”
- **Aristotle:**
“**Teaching is the highest form of understanding.**”

Stress Response

- **Fight**



- **Flight**



Stress Response

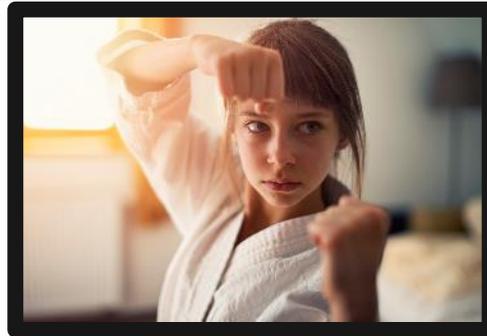
- **Fight**

- **Flight**



Stress Response

- **Fight**



- **Flight**



- **Freeze**



Stress Response: Fight

If you assess the immediately menacing force as something you potentially have the power to defeat, you go into fight mode.



Trauma and the Freeze Response: Good, Bad, or Both?
Psychology Today – Posted Jul 08, 2015

Stress Response: Flight

If you view the antagonistic force as too powerful to overcome, your impulse is to outrun it (and the faster the better). And this, of course, is the flight response...



**Trauma and the Freeze Response: Good, Bad, or Both?
Psychology Today – Posted Jul 08, 2015**

Stress Response: Freeze

If you've concluded...that you can neither defeat the frighteningly dangerous opponent...nor safely bolt from it, [you might exhibit the freeze response].



Trauma and the Freeze Response: Good, Bad, or Both?
Psychology Today – Posted Jul 08, 2015



Brain Freeze

Brain freeze, tunnel vision, and task fixation are potential reactions to stress and are only a small part of a broader stress-related syndrome known as “tunnel senses.”

BRAIN FREEZE: PART ONE
October 1, 2018, Kenneth Stahl MD, FACS,
AOPA Pilot Protection Services



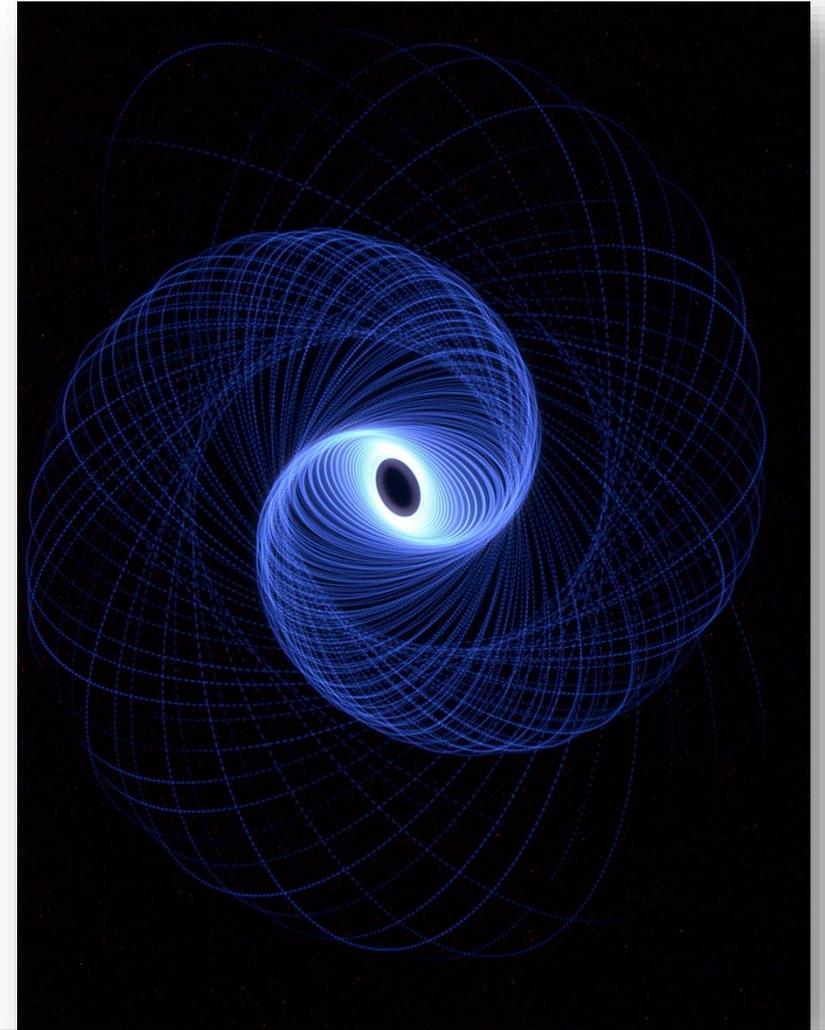
Brain Freeze (cont'd)

“These factors add up to the physiological definition of loss of situational awareness. When you are suffering from tunneled senses your situational awareness and big picture perception [are] pretty much *gone*...”

BRAIN FREEZE: PART ONE
October 1, 2018, Kenneth Stahl MD, FACS,
AOPA Pilot Protection Services

The National FAA
Safety Team Presents

The Startle Response



Power loss on takeoff

- Cessna-175B
- Partial power loss on takeoff
- Pilot said, “Oh no, this isn’t good.”
- Sharp right, turn to return to airport
- Stall, spin, crash
- One fatality, 3 injuries





Beechcraft Musketeer A23A

Specialized Support



Murphy's Law restated

Murphy's law is wrong: "What can go wrong usually goes right, and then we draw the wrong conclusion: that it will go right again and again."

Beechcraft Musketeer – Exterior

Stock photo (not subject airplane)



Beechcraft Musketeer

Continental IO-346
4-cyl, 165 hp

Stock photo (not subject
airplane)



Beechcraft Musketeer – Interior

Stock photo

Manual flaps

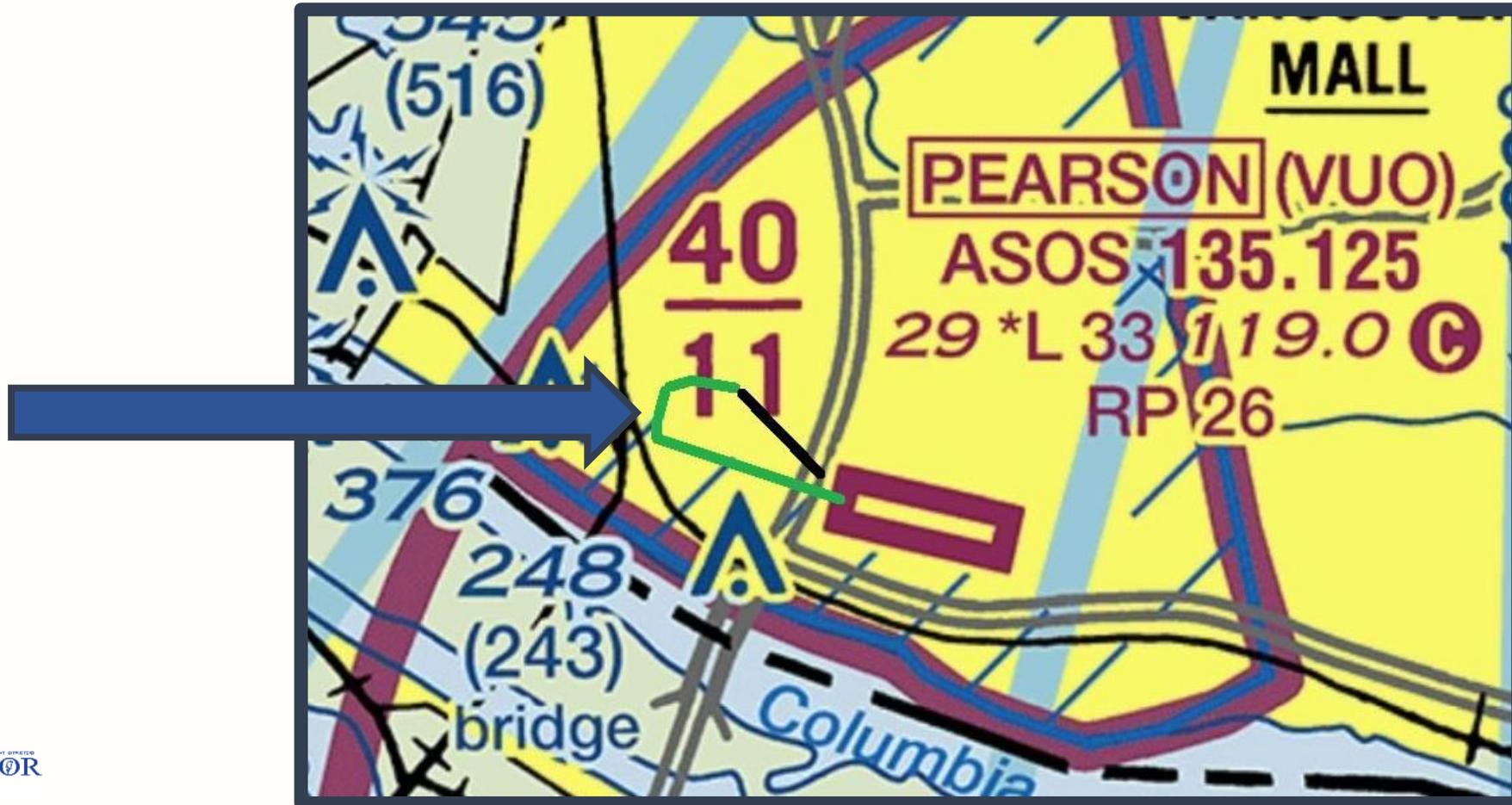




What will you see in the video?

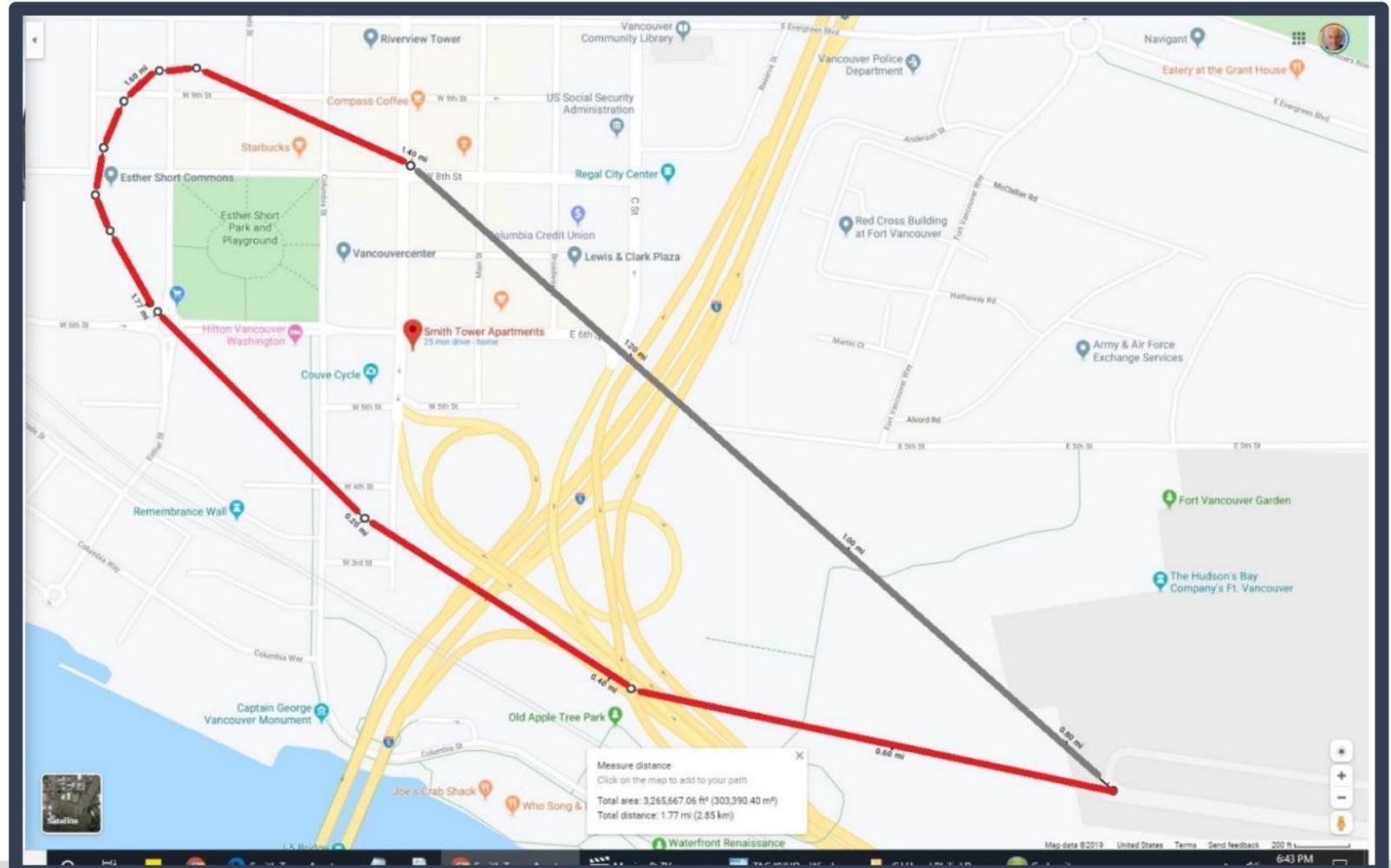
- **Aircraft taxis toward the hold line**
- **Aircraft takes the runway**
- **Takeoff and initial climb, stall buzzer busy**
- **Engine noise changes dramatically**
- **Aircraft turns sharply to the right, nose low**
- **Aircraft recovers and lands opposite direction on runway**

Full flight path Sectional Chart



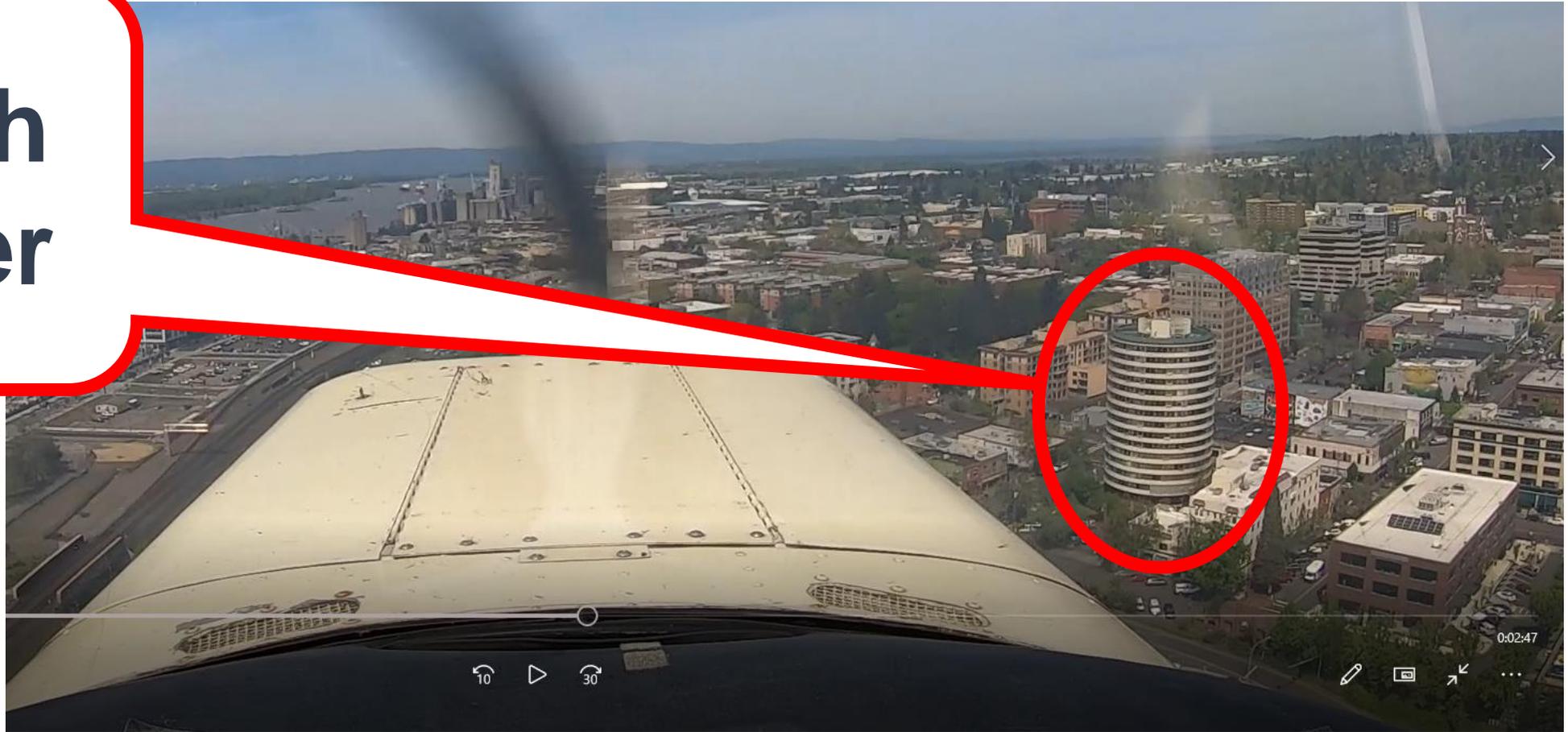
Full flight path Google maps

**Approx. 2 min
wheels up
to wheels down**



Full flight path Google Earth

**Smith
Tower**



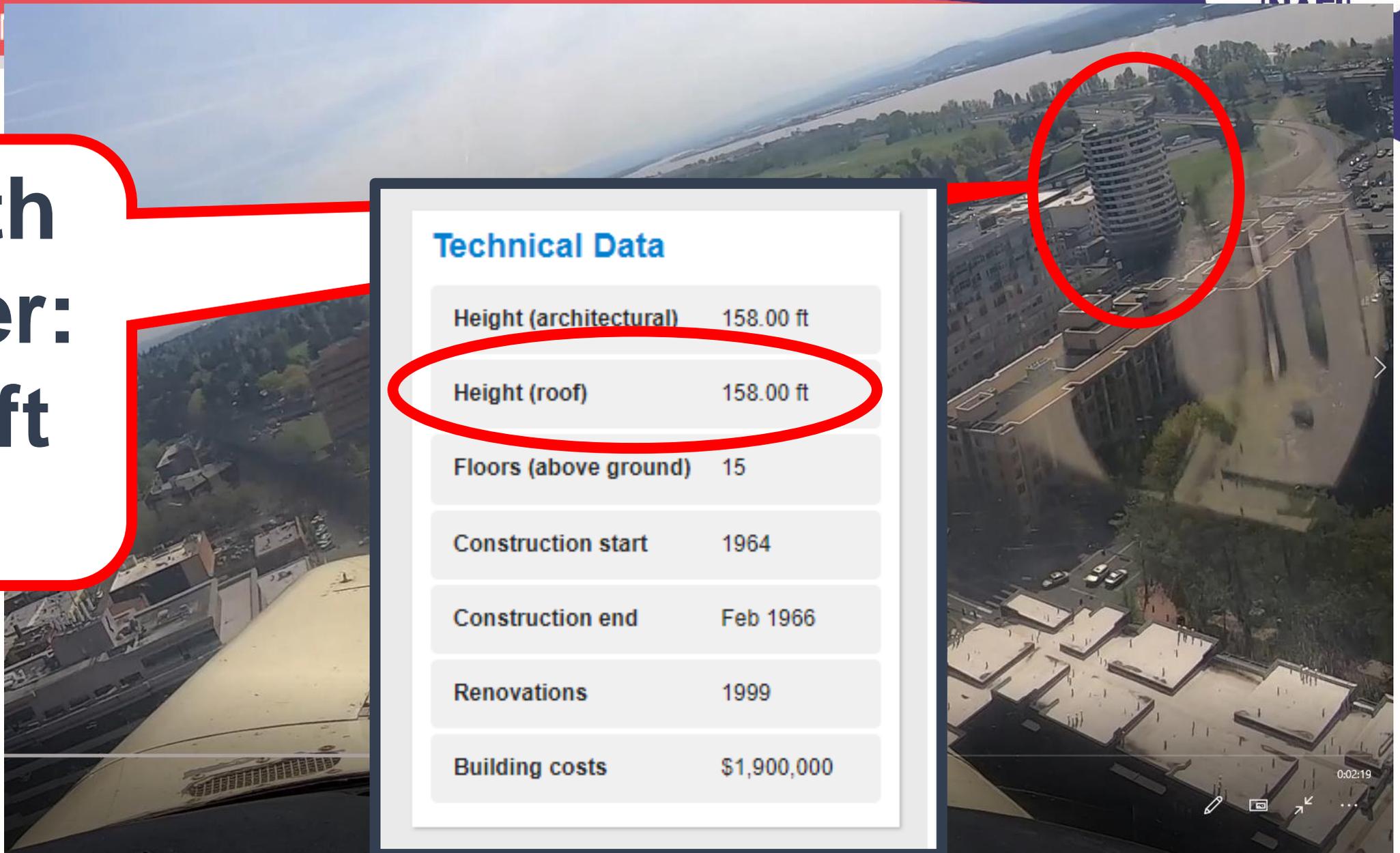
Smith Tower





**Smith
Tower:
158 ft
tall**

Technical Data	
Height (architectural)	158.00 ft
Height (roof)	158.00 ft
Floors (above ground)	15
Construction start	1964
Construction end	Feb 1966
Renovations	1999
Building costs	\$1,900,000



NATION



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2 - full video raw





2 - full video raw



Whew...



Cochlear Implant



“Over
the ear”

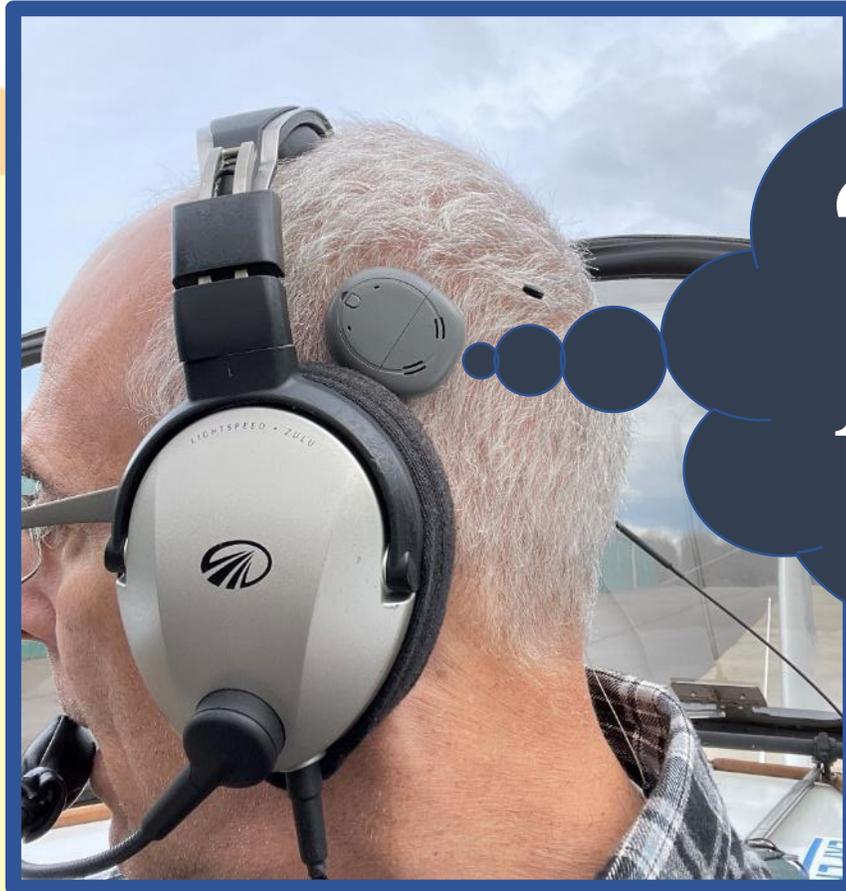
Cochlear Implant

**Micro-
phones**



“Over
the ear”

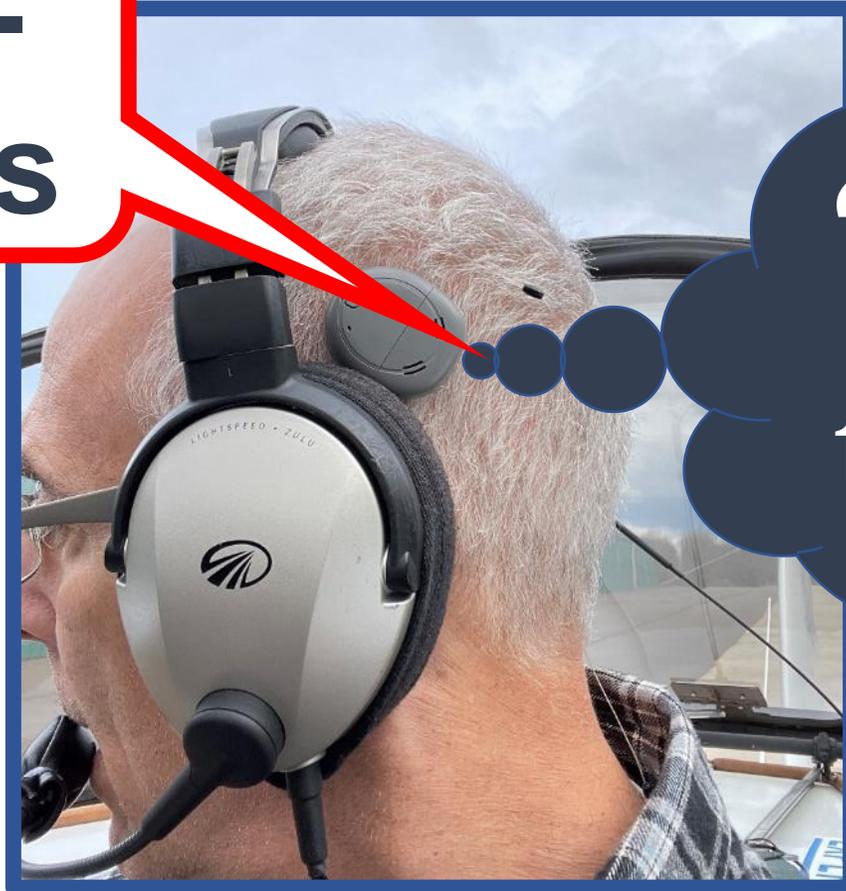
Cochlear Implant



“Behind
the ear”

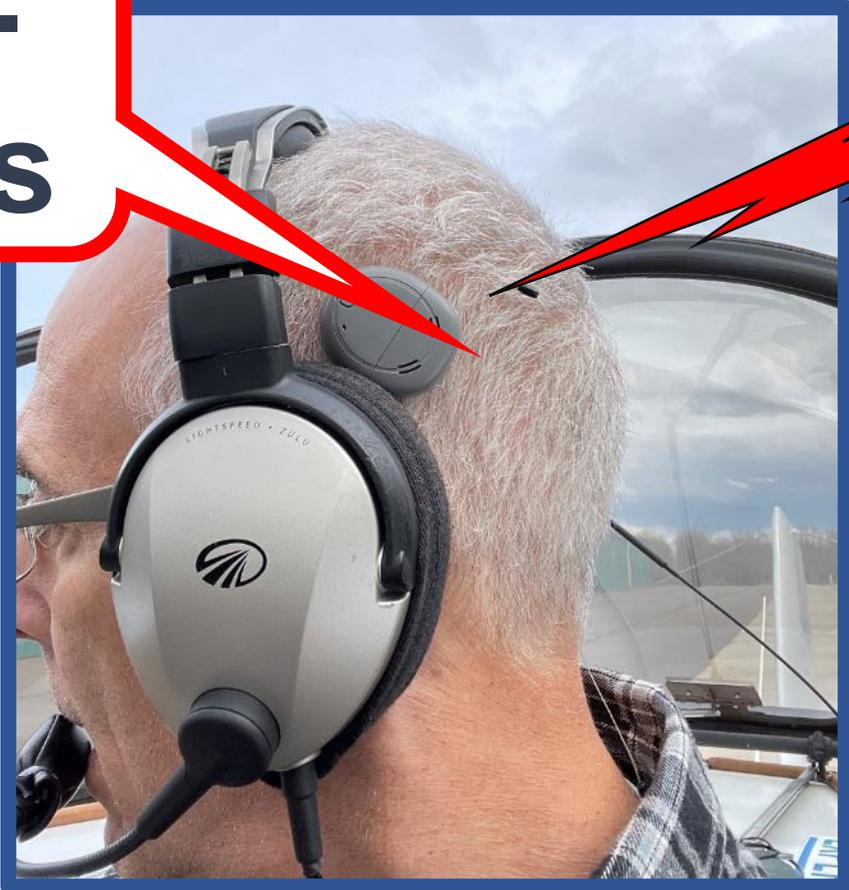
Cochlear Implant

**Micro-
phones**



“Behind
the ear”

**Micro-
phones**



Mini-mic



ANC/ANR Headsets

**ANC
Headset**



**ON: Cannot hear
engine noise**

Automatic Noise Canceling Headsets

**ANC
Headset**



**ON: Cannot hear
engine noise**

**OFF: Can hear
engine noise**

Accelerated Stall





**Under pressure, you don't rise
to the occasion, you sink to
the level of your training and
RECENT practice**

1-G (unaccelerated) Stall

50 mph IAS



Accelerated Stall

70 to 60 mph IAS





Checklist
Pre-flight
1. Fuel
2. Oil
3. Air
4. Water
5. Lights
6. Instruments
7. Controls
8. Engines
9. Landing
10. Takeoff

RPM MP O/O/CH-H
Engine Information System
2300 10.8 8.0274
57.57 4.5 132

Oil-T/Oil-P GPH EGT-H
1.00 1.00 1.00 1.00



3 - Accelerated Stall video

70 to 60 mph IAS



Accelerated Stall: “mush”

FAA-H-8083-3B

Airplane Flying Handbook
GLOSSARY

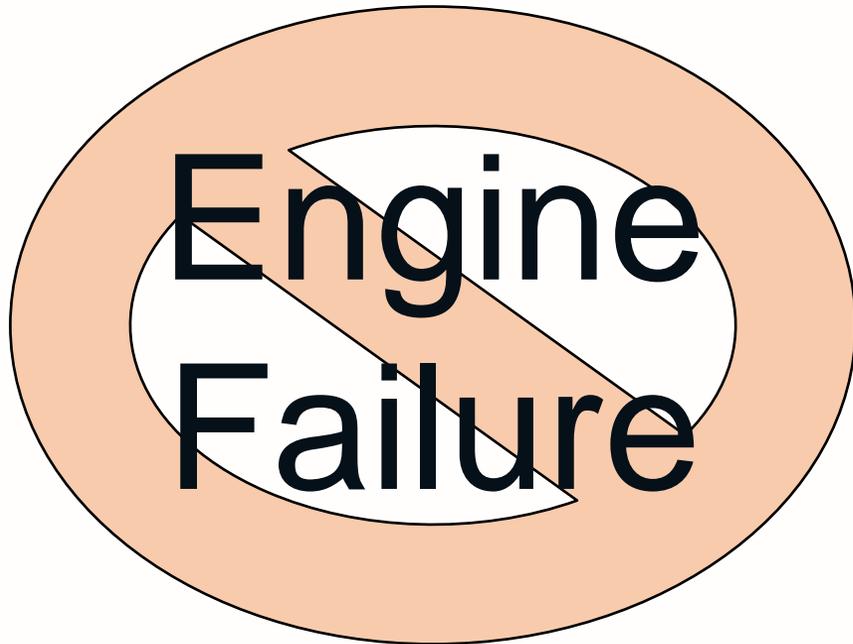
Mushing. A flight condition caused by slow speed where the control surfaces are marginally effective.



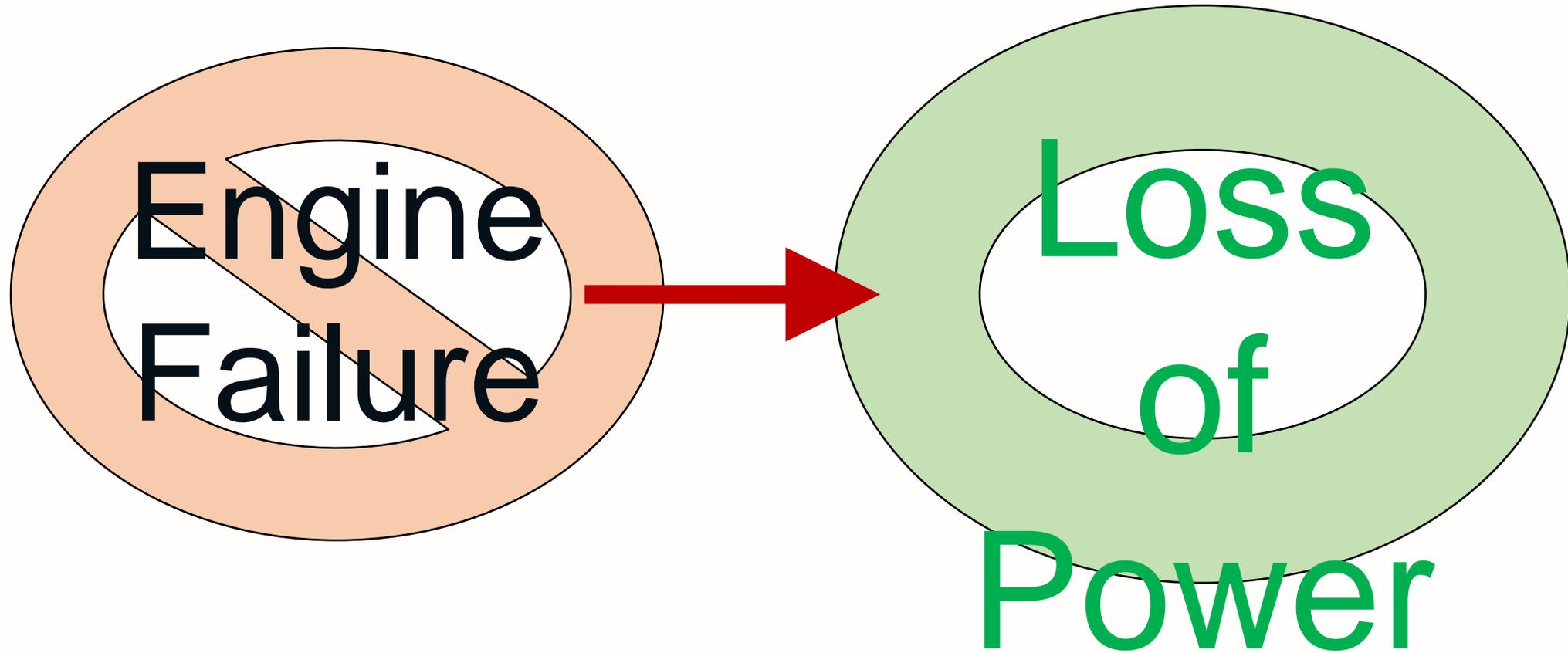
Accelerated Stall: “mush”



Reframe “engine failure”



Reframe “engine failure”



4 - full video with subtitles



4 - full video with subtitles





**Under pressure, you don't rise
to the occasion, you sink to
the level of your training and
RECENT practice**



Engine Failure/Power Loss Checklist – A, B, C, D, E

- **A –**
- **B –**
- **C –**
- **D –**
- **E –**



Engine Failure/Power Loss Checklist – A, B, C, D, E

- A –

- B –

- C –

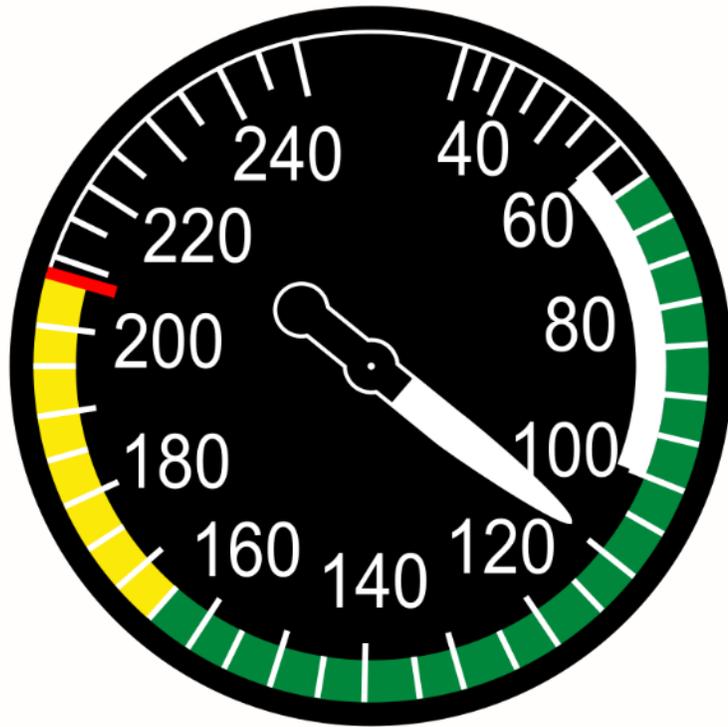
- D –

- E –

**Always satisfy
your POH or AFM!**

Airspeed or Attitude, B, C, D, E

- **A – Airspeed or Attitude**



A, Begin..., C, D, E

- **A – Airspeed or Attitude**
- **B – Begin to head for a place to land (not necessarily “Best place to land”)**





A, B, Cockpit check, D, E

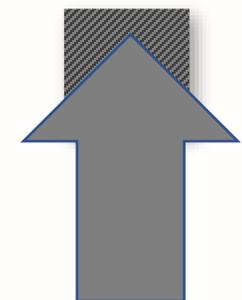
- **A** – Airspeed or Attitude
- **B** – Begin to head for a place to land
- **C** – Cockpit check, if useful
(use printed checklist **IF YOU HAVE TIME**)

A, B, Cockpit

- A – Airspeed or Att
- B – Begin to head f
- C – Cockpit



Upside-down question mark



A, B, C, Declare, E

- **A** – Airspeed or Attitude
- **B** – Begin to head for a place to land



- **D** – **Declare IF YOU HAVE TIME**
(Squawk 7700. Ctc ATC, FSS, or 121.5)
...and...wait for it...



A, B, C, Declare, E

The screenshot shows the FAA Safety Team website interface. At the top left is the Federal Aviation Administration logo. To the right are links for 'Home' and 'About the FAAS Team', and a search box for the 'FAASafety Website'. Below this is a navigation menu with tabs for 'Activities, Courses, Seminars & Webinars', 'Maintenance Hangar', 'Pilots', 'Resources' (which is highlighted), and 'Administration'. A 'Page Help' link is also present. A secondary navigation bar contains links for 'The FAAS Team', 'Directory', 'FAQ', 'Library', 'News', 'Notices', 'Representatives Library', 'Online Resources', 'RSS Web Feeds', 'Search', 'Sharepoint', 'Support', and 'Training Providers'. On the right side, there is a user profile for 'phmand@gmail.com (Lead Representative)' with a 'Logout' link and an 'open' button. The main content area is titled 'Notices' and features the 'FAA Safety Team FAAS Team' logo. A large blue arrow points from the logo to a specific notice titled 'FAAS Team Notice'. The notice details are: Type: General Information, Notice Date: Wednesday, March 24, 2021, Notice Number: NOTC1747, and a title 'When to activate the ELT after the engine goes silent'. It also states 'This posting will be removed on Sunday, July 24, 2022'. The notice text discusses the importance of ELT activation and provides instructions on when to activate it during an emergency. At the bottom, a partial sentence reads: 'That's why I recommend manually activating an ELT while still in flight. If you rely on the crash to set it off, and you are injured, how will you know if it'.



A, B, C, Declare, E

That's why I recommend manually activating an ELT while still in flight. If you rely on the crash to set it off, and you are injured, how will you know if it activated or not? You want to be found, RIGHT AWAY! If you have remote activation capability, turn the darn thing on when you are squawking 7700 and declaring the emergency. Let people know you are in trouble. Make yourself easy to find and be rescued, for sure. All the modern 406 ELTs have panel mounted remote switches. **Just push the button.**

“That’s why I recommend manually activating an ELT while still in flight. If you rely on the crash to set it off, and you are injured, how will you know if it activated or not? You want to be found, RIGHT AWAY! If you have remote activation capability, turn the darn thing on when you are squawking 7700 and declaring the emergency. Let people know you are in trouble. Make yourself easy to find and be rescued, for sure. All the modern 406 ELTs have panel mounted remote switches. Just push the button.”



A, B, C, D, Egress

- **A** – Airspeed or Attitude
- **B** – Begin to head for a place to land
- **C** – Cockpit check (use printed checklist IF YOU HAVE TIME)
- **D** – Declare IF YOU HAVE TIME (7700, ATC or FSS or 121.5)
- **E** – Egress (i.e., prepare for egress/rescue)



A, B, C, D, Egress

- **Seat belts/shoulder harnesses: Secure**
- **Door(s): Unlatch and ?_Open_?**
- **Fuel valve: Off?**
- **Mags: Off?**
- **Master switch: Off?**
- **What else...?**
- **After landing: Ideas?**



A, B, C, D, E, F...???

What is “F” ??



A, B, C, D, E, Fly The Plane!!!

**F: FLY
THE
PLANE**



Fly The Plane, then: A, B, C, D, E

F – FLY THE PLANE

- **A – Airspeed or Attitude**
- **B – Begin to head for a place to land**
- **C – Cockpit check (use printed checklist IF YOU HAVE TIME)**
- **D – Declare IF YOU HAVE TIME (7700, ATC or FSS or 121.5)**
- **E – Egress (i.e., prepare for egress/rescue)**

NTSB Part 830:

NOTIFICATION AND REPORTING
OF AIRCRAFT ACCIDENTS OR
INCIDENTS AND OVERDUE
AIRCRAFT, AND PRESERVATION
OF AIRCRAFT WRECKAGE,
MAIL, CARGO, AND RECORDS



NTSB Part 830

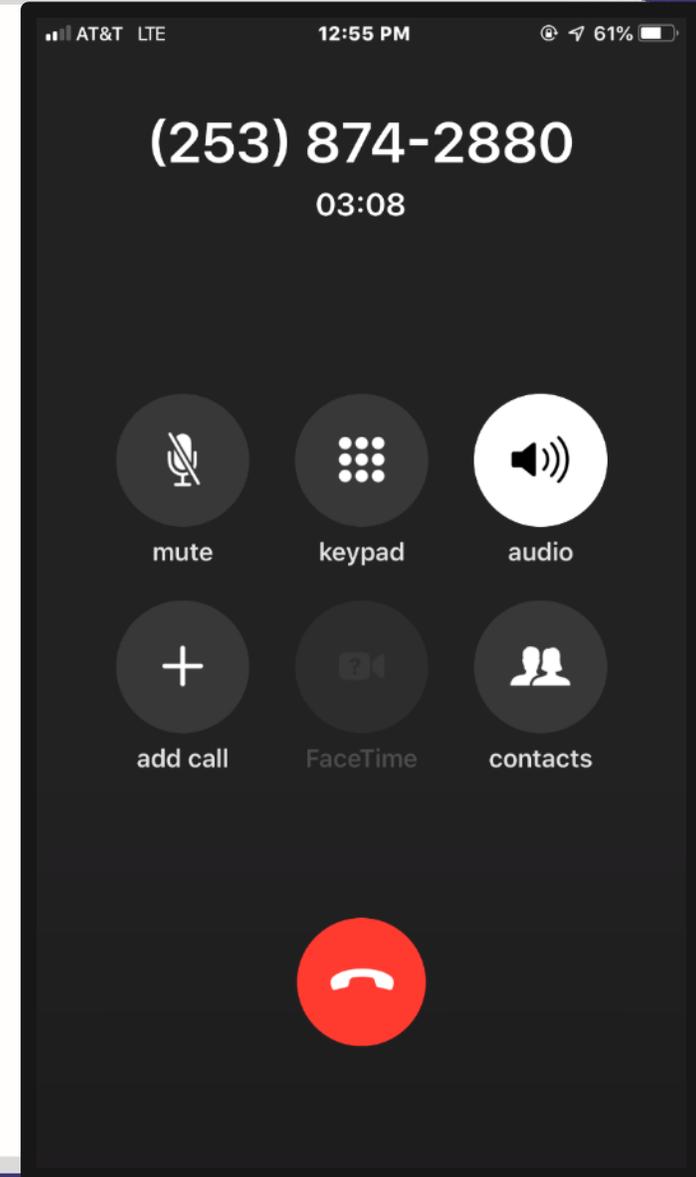
§ 830.5 Immediate notification.

The **operator** of any **civil aircraft**...shall immediately...notify the nearest National Transportation Safety Board (NTSB) office, when:

(a) An **aircraft accident** or any of the following listed serious **incidents** occur:

(1) Flight control system malfunction or failure;

(2) ...etc...



NTSB – did we need to report?

Question:

Is engine failure / loss of power considered “Flight control system malfunction or failure?”

NTSB – did we need to report?

Question:

Is engine failure
considered a

Answer: NO



Review

Under pressure, you don't rise to the occasion, you sink to the level of your training and RECENT practice



What Went Wrong

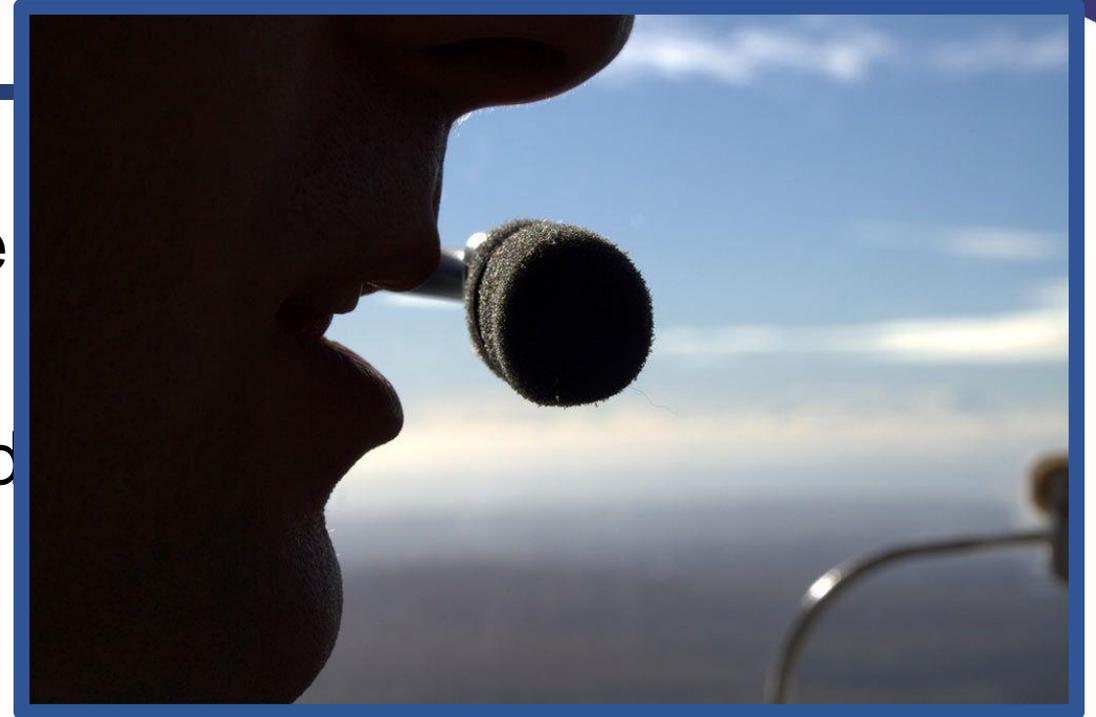
What Went Wrong

- Complacency, inattentiveness during critical phase of flight
- Auditory issues
 - SSD (single sided deafness)
 - ANC/ANR headsets
- Failure to have a plan in case of an emergency on a continuous basis
- Turned toward buildings



What Went Wrong

- Dismissed the strong odor too easily
- Failed to notice engine sound change
- Banked too steeply?? Maybe...
- Excessive back pressure: Accelerated
- Fuel valve: OFF after landing
- Flaps: UP after landing
- Did not cancel emergency...discuss...





What Went Right

What went right

- **Promptly took control of the aircraft**
 - ☑ **Positive Exchange of Flight Controls**

**Private Pilot – Airplane
Airman Certification Standards**

Appendix 6: Safety of Flight

Positive Exchange of Flight Controls

There must always be a clear understanding of who has control of the aircraft. Prior to flight, the pilots involved should conduct a briefing that includes reviewing the procedures for exchanging flight controls.

The FAA recommends a positive three-step process for exchanging flight controls between pilots:

- When one pilot seeks to have the other pilot take control of the aircraft, he or she will say, "You have the flight controls."
- The second pilot acknowledges immediately by saying, "I have the flight controls."
- The first pilot again says, "You have the flight controls," and visually confirms the exchange.

Pilots should follow this procedure during any exchange of flight controls, including any occurrence during the practical test. The FAA also recommends that both pilots use a visual check to verify that the exchange has occurred. There must never be any doubt as to who is flying the aircraft.

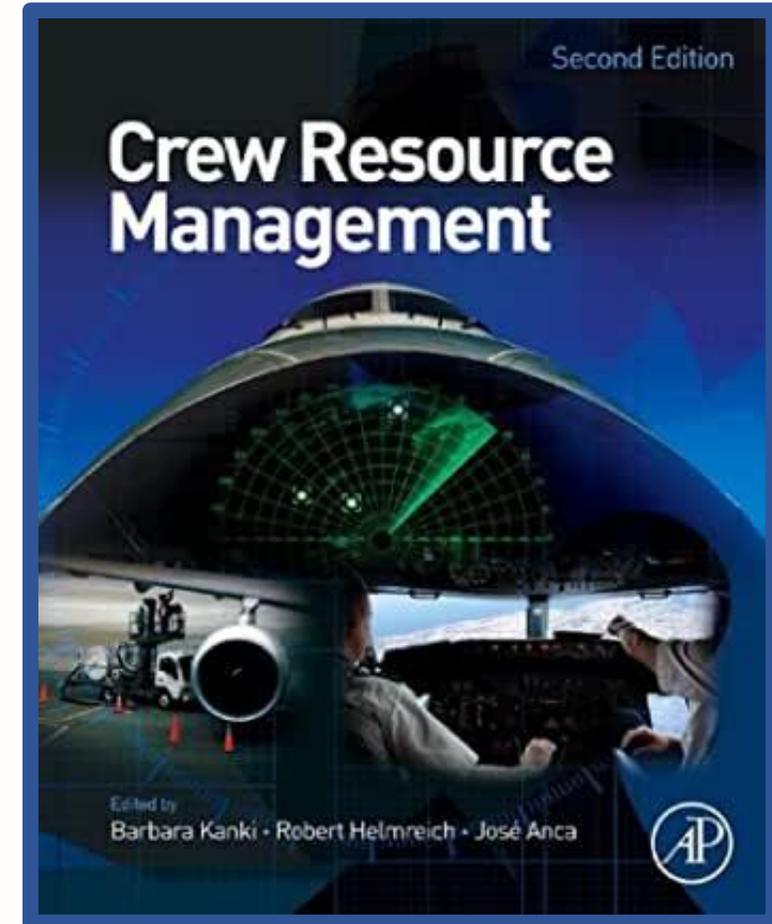
What went right

- Assessed engine power – tried different throttle settings
 - Most, if not all, power loss emergency checklists say, “Throttle – Full Open”
 - Not all power losses are total engine failure
 - Consider trying different throttle and/or mixt settings
- Made a plan, then acted immediately



What went right

- Recognized and recovered from the accelerated stall before it was too late
- FLEW THE PLANE
- Cockpit Resource Management (CRM)
 - Asked student to declare emergency
 - Asked student to unlatch door and open door and window
 - Asked student to add flaps
 - Both pilots released seat belts after landing





Engine Failure/Power Loss Checklist – A, B, C, D, E, (F)

- A –
- B –
- C –
- D –
- E –
- (F) –



YouTube channel
bit.ly/training-videos-1

A screenshot of a YouTube playlist titled "Training videos 1" by Philip Mandel, showing 52 videos. The first six videos are visible:

- Traffic issues around the... (1:14:53)
- NASA ASRS: Where, Why, and How (45:19)
- Landing at dusk Twin Oaks Airpark rwy 02 cockpit... (2:10)
- Departing Twin Oaks Airpark rwy 02 cockpit camera (2:21)
- Departing Twin Oaks Airpark rwy 02 wing camera (2:34)
- Landing at dusk Twin Oaks Airpark rwy 02 wing camera (2:11)

Discussion



Thank you for attending

You are vital members of our GA safety community



Thank you for attending

Philip Mandel, CFI
flyphil.INFO
phmand@gmail.com



Power Loss at 300 Feet – What Went Wrong, What Went Right

Presented by Philip Mandel, CFI-I, MEI, AGI, IGI



A screenshot of a MentorLIVE! course page. The main content area shows the course title "NAFI - Training The Blarney Out of..." and a "MentorLIVE!" logo. A sidebar on the right contains a list of links: "CFI & Learner Resources", "About This Course", "Christine Madden - Presenter", "Earn WINGS Credit!", "Nick DeLozdi - Presenter", "Karen Kalschek - Host", "Previous MentorLIVE! Programs", "Course Evaluation Link", and "NAFI Education Foundation Grant".

Earn WINGS Credit!
New 2-clicks to quiz

Course Resources

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Save the Date!

Join us for next month's MentorLIVE, February 16th at 8:00 p.m. ET



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