



Federal Aviation
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The National FAA Safety Team Presents

Topic of the Month – November 2023 Normalization of Deviance

Presented to: Safety Minded Aviators, Everywhere...
By: Stephen Bateman, CFI, AOPA Flying Clubs
Date: Tuesday 21st November 2023

Produced by:
The National FAA Safety Team (FAASTeam)



Welcome

- Steve Bateman, CFI, AOPA Flying Clubs, FAASTeam Lead Rep
Portland FSDO, *WINGS*Pro



- Your monthly 33-minute dose of aviation safety



- *WINGS* Credit: Yes...!

- Probably no time for questions, but please send me email:

steve.bateman@aopa.org

Tel: 301 695 2356



So...

- **No recording...but even better...**
 - <https://youcanfly.aopa.org/flying-clubs/flying-club-newsletter>
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 - November edition 11/19/2023

The screenshot shows the AOPA Flying Clubs website. At the top, there is a navigation bar with links for 'AOPA Credit Card', 'Donate', 'AOPA Foundation', 'Ambassadors', and 'Scholarships'. Below this is a secondary navigation bar with 'FLYING CLUBS', 'RUSTY PILOTS', 'FLIGHT TRAINING', and 'HIGH PERFORMANCE'. The main content area is titled 'FLYING CLUB CONNECTOR NEWSLETTER' and includes a 'SUBSCRIBE' button circled in black. Below the subscription button is a section titled 'ARTICLES BY TOPIC' with buttons for 'NEWS FROM HQ', 'QUESTION OF THE MONTH', 'CLUB SPOTLIGHT', 'AIRCRAFT SPOTLIGHT', 'SAFETY', and 'EVENT SPOTLIGHT'. The 'SAFETY' button is also circled in black. At the bottom of the page, there is a 'CLUB CONNECTOR ARTICLES' section with a 'NARROW RESULTS' dropdown menu.





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FLYING CLUB CONNECTOR NEWSLETTER

Your source for the latest news on flying clubs all over the country. AOPA's research has shown us that flying club leaders are hungry to learn more about the practical experiences of other clubs. So, we have created this monthly e-newsletter.

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CLUB CONNECTOR | NOVEMBER 19, 2023

Safety: Normalization of Deviance

In this month's safety section, we'll take a look at Normalization of Deviance, which happens when established standards and limits gradually decay over time, becoming new norms—with predictable results. Could this be a reason why accidents during non-commercial GA operations (some 80%) have stayed pretty constant over a decade, with around 70% of those accidents being caused by some form of pilot (human) error? Well, let's dig and see..

[GO TO ARTICLE >](#)

CLUB CONNECTOR | OCTOBER 15, 2023

Safety: Gaming the Aviation Medicine System

Gaming The System can be defined as using rules and procedures designed to protect a system, to instead manipulate it for a desired outcome. Lying, withholding information, claiming ignorance, macho, anti-authority, and entitlement all play a role in this. In this month's safety section, we'll take a look at Gaming the Aviation Medicine System and suggest a few easy solutions that will keep you alive to sneeze another day.

[GO TO ARTICLE >](#)

CLUB CONNECTOR | SEPTEMBER 17, 2023

Safety: Preflight After Maintenance



Overview

- **The Situation In No Uncertain Terms**
 - Doing the same things and expecting different results is...
- **A Multitude of Biases and Human Traits**
- **Normalization of Deviance**
- **Changing the Game With Human Factors**
- ~~**Maintaining Improving Proficiency**~~



GAJSC, CFIT and Biases

- **The General Aviation Joint Safety Committee (GAJSC) Controlled Flight Into Terrain (CFIT) working group suggests that human biases—particularly Plan Continuation Bias—are significant factors in CFIT accidents.**
- **Plan Continuation Bias...nibbles away at the no-go/go decision**
 - Done it before?
 - Done it recently?
 - Worked out previously
 - Establishes a new normal
- **Normalization of Deviancy**



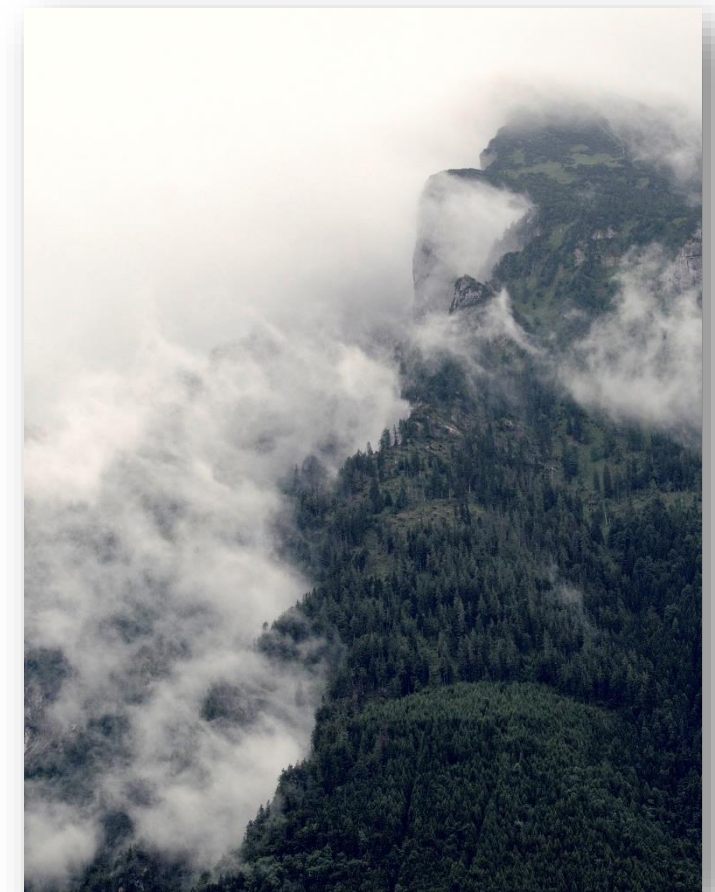
*GAJSC – General Aviation Joint Safety Committee



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So, what's that got to do with CFIT?

- CFIT is the *result*
- The *cause* is very often us...
- The 5-whys of root cause analysis:



The 5-Whys:

- **An airplane crashed into a hillside...seemly under control...**
- **Why did the airplane hit the hillside?**
 - The plane crashed due to rising terrain and lowering ceilings
- **Why did the pilot not see the rising terrain and lowering ceilings**
 - Because the pilot was confused and distracted
- **Why was the pilot distracted?**
 - Because the GPS showed something different than expected
- **Why was it different?**
 - Because the pilot failed to update the flight plan when departing
- **Why did the pilot fail to update the flight plan?**
 - Because of done-it-many-times-before complacency

 ***This is the root cause***



Obviously, I would never do that!



It's not like we do this...

- I'm going to go flying and have an accident...which one shall I choose today?
 - Loss of Control
 - CFIT
 - *FR into IMC
 - Unstable approach
 - Jump in and go
 - Hazardous attitude(s)
 - Fuel mismanagement
 - Out of currency proficiency
 - Fly a new-to-me aircraft without any training
 - Incorrect response to situation
 - Brain burb in flight
 - Ignore hazardous attitudes
 - Throw ADM out of the window...

**The data suggests
that we do...**

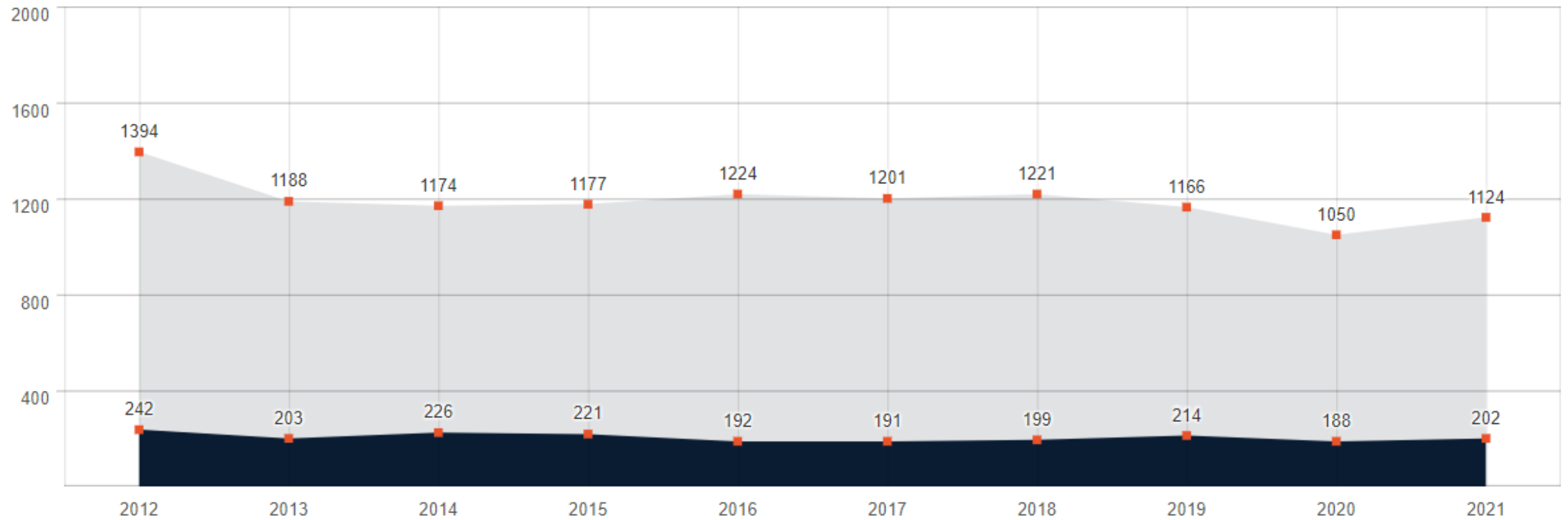


All GA Accident Trend

[AOPA ASI Nall Report](#)

General Aviation Accident Trends 2012-2021

2021 Overall Summary



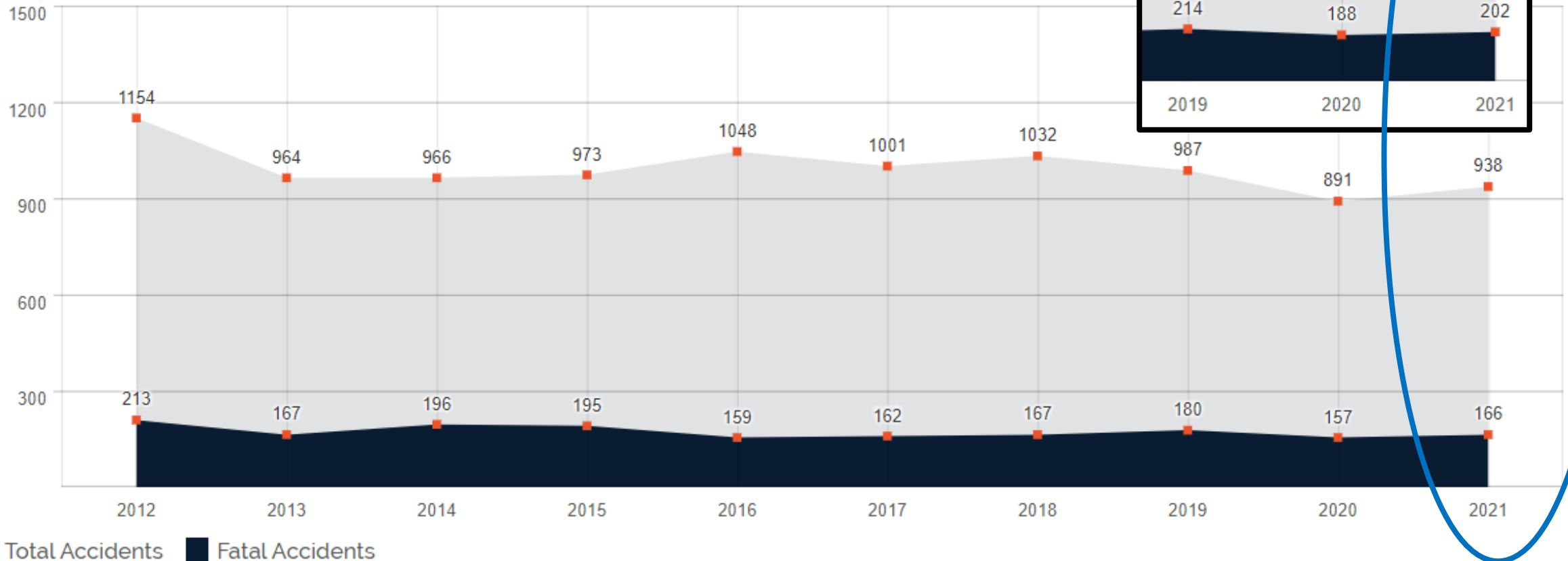
■ Total Accidents ■ Fatal Accidents

Non-Commercial Fixed-Wing Trend:

Overlay All GA

Figure 1.2: General Aviation Accident Trends 2012-2021

2021 Non-commercial fixed-wing



Who and When...

Figure 1.4: General Aviation Accidents in 2019

2019 Non-commercial fixed-wing



	Accidents		Fatal Accidents	
Pilot-Related	614	62.1%	88	49.2%

Figure 1.4: General Aviation Accidents in 2020

2020 Non-commercial fixed-wing



	Accidents		Fatal Accidents	
Pilot-Related	614	69.1%	79	51.6%

Figure 1.4: General Aviation Accidents in 2021

2021 Non-commercial fixed-wing



	Accidents		Fatal Accidents	
Pilot-Related	647	69%	103	62%

Mechanical	151	16.1%	12	7.2%
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Other / Unknown	128	13.6%	46	27.7%
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null	12	1.3%	5	3%
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Figure 1.7: Flight Conditions

2021 Non-commercial fixed-wing



	Accidents		Fatal Accidents		Fatalities	
Day VMC	834	88.9%	114	3.6%	165	4.5%
Night VMC	53	5.7%	17	3.6%	26	4.5%
Day IMC	23	2.5%	18	3.6%	41	4.5%
Night IMC	13	1.4%	11	3.6%	22	4.5%
Unknown	15	1.6%	6	3.6%	12	4.5%

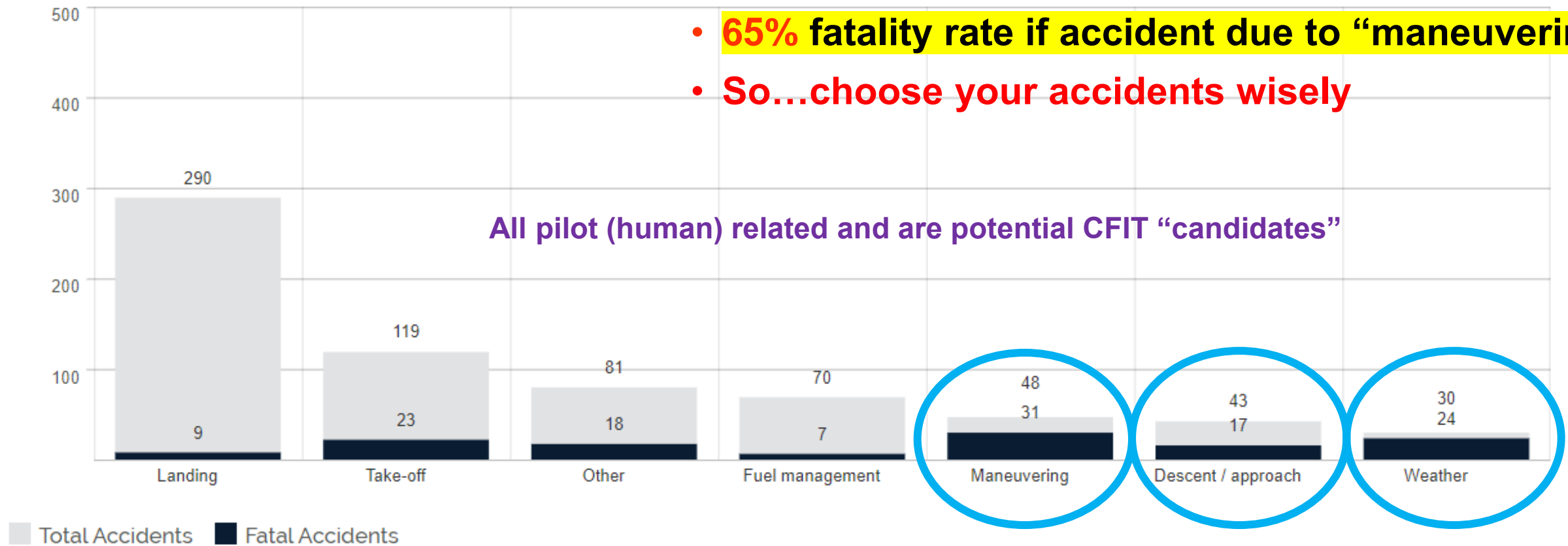
*Night fields include dusk.



Pilot (Human) Related

Figure 1.11: Major types of accidents

2021 Non-commercial fixed-wing



All pilot (human) related and are potential CFIT “candidates”

- Landing dominates number of accidents, but generally survivable (not including go-around)
- **80% fatality rate if accident is weather related**
- **40% fatality rate if accident on descent and approach**
- **65% fatality rate if accident due to “maneuvering”**
- **So...choose your accidents wisely**



Good news...bad news...

- **Good News!**
 - We are not inventing new ways to have accidents!
- **Bad News!**
 - We are still practicing the old ways!
- **Why is this? Even with all the safety education we do...**
- **Have we met a “natural limit” of accident reduction? Or is it just a threshold to overcome?**
- **Will more regulation solve the problem? At what price?**
- **Or...is there a New Frontier that we must embrace to cross a threshold?**



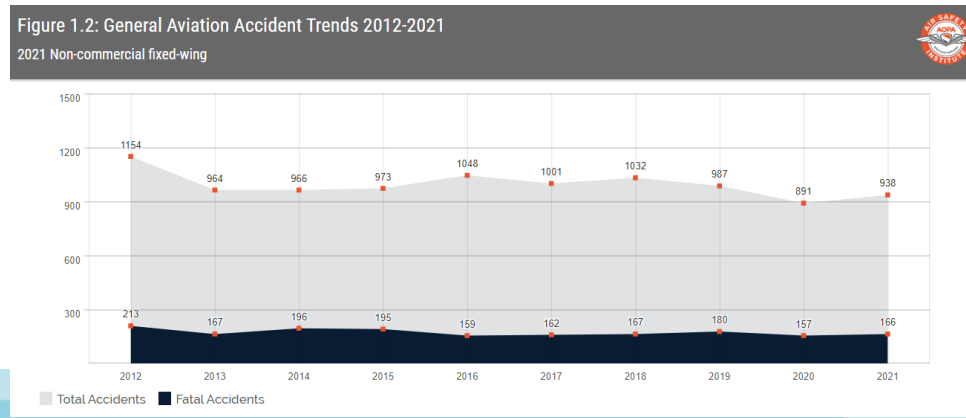
Human Factors The Final Frontier



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Are We Ready and Smart Enough to Accept It?

- Hobbs, A. (2004). Human Factors: The Last Frontier of Aviation Safety? *The International Journal of Aviation Psychology*, 14(4), 335–341. https://doi.org/10.1207/s15327108ijap1404_1
- The argument is that, only once we have tackled the “easy” causes of accidents, like lack of proficiency, mechanical and technical failures, will be ready to look at the most difficult factor—our human selves.
- Looks like we are there...



So...What is General Aviation

- General aviation (GA) is all flight activity except that of the military and scheduled airlines
- Commercial GA is where someone gets paid for the flight...freight, sightseeing, law-enforcement, flight school...
- Non-Commercial GA is for personal and recreational use

Non-Commercial GA accounts for:

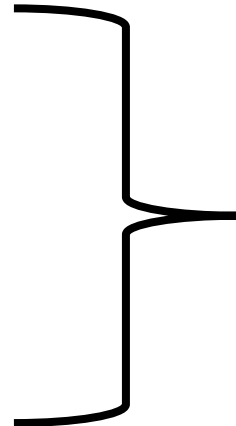
- **84% of GA accidents**
- **82% of GA fatalities**



Why...?

Non-Commercial GA accounts for:

- **84% of GA accidents**
- **82% of GA fatalities**



- **Jump in and go?**
- **Lack of SoPs?**
- **Infrequent training?**
- **Inadequate training?**
- **Lack of sim training**
 - **Practical skills**
 - **Human factors scenarios**
 - **Training to handle “biases”?**



Complications

- **Bias**—a prejudice in favour of or against one thing...
- **Normalization of Deviance**
 - Operational Drift
 - Erosion of compliance to standards and limits
 - Gets easier to justify, over time
- **Normalization of Biases**
 - We get used to having them through familiarity – have we become aviation bigots?



Examples of Biases in Aviation

- Confirmation bias (Confirming or supporting a plan or perception)
- Continuation bias (Plan continuation)
- Hindsight Bias (“Life can only be understood backwards but it must be lived forwards”)
- Outcome bias (“Some of you may die, but it is a risk *I’m* prepared to take”. Shrek.)
- Expectation bias (Expectation about an outcome dominates actions)
- Framing bias (Gains and losses)
- Ambiguity effect (Avoid options that are ambiguous)
- And...more...

<https://skybrary.aero/>

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Countermeasures to Mitigate Cognitive Bias

- Biases are part of human behaviors and traits that we must understand before we can counter them:
 - Hazardous attitudes
 - Human factors
- The first defense against any hazard is to recognize that it exists. *Awareness of how these biases can affect decision making must be included in basic and refresher training.* Umm...
 - The word “bias” occurs only three times in the PPL ACS...to do with taxiing
 - “Human Factors” occurs once, as part of preflight
 - Lack of scenarios involving real-life ADM to illustrate human factors problems—and solutions
- One of the most effective and proven strategies to combat human error is [crew resource management \(CRM\)](#). (Check and balances)

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Everyday Example (Epidemic?)

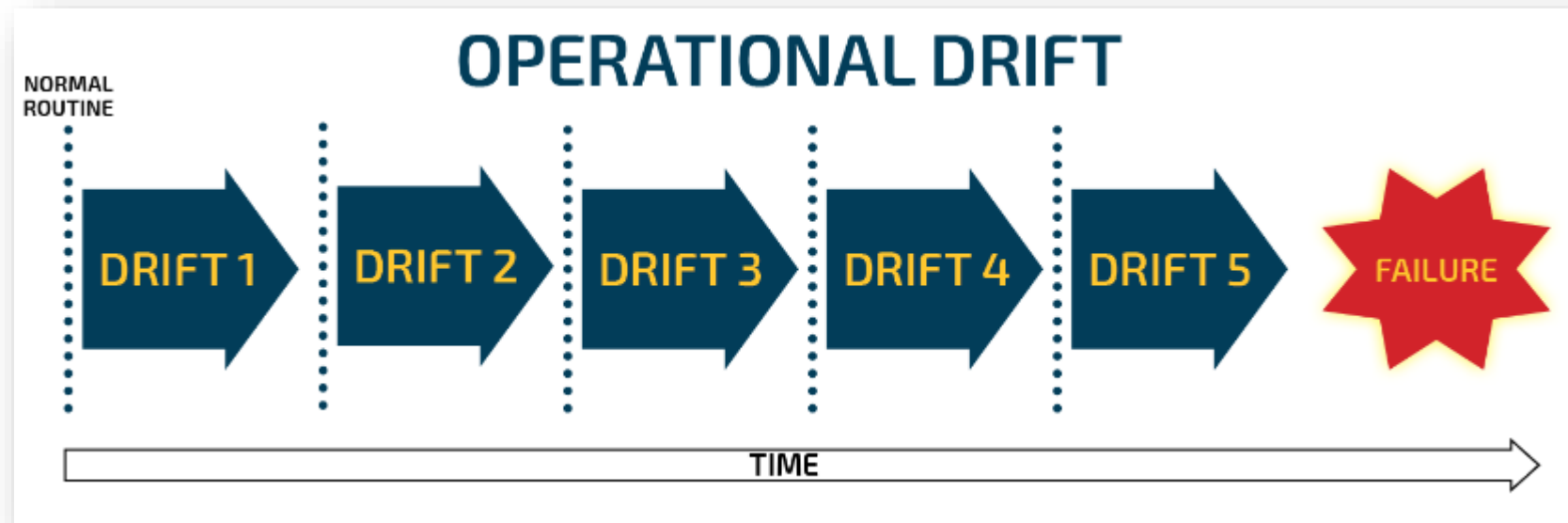
- **Posted vs. Practical Speeds?**

- Anti-authority hazardous attitude—don't tell me what to do—or...
- Rationalization:
 - I'm not speeding—just keeping up with traffic flow
 - It's not safe to drive at the limit—I'll get wiped out...
 - Average speed on the 405 in LA is 75 MPH (65 is the posted limit). New norm.



Operational Drift

- Acceptable process limits tend to drift over time



Change “Obvious” Perspectives

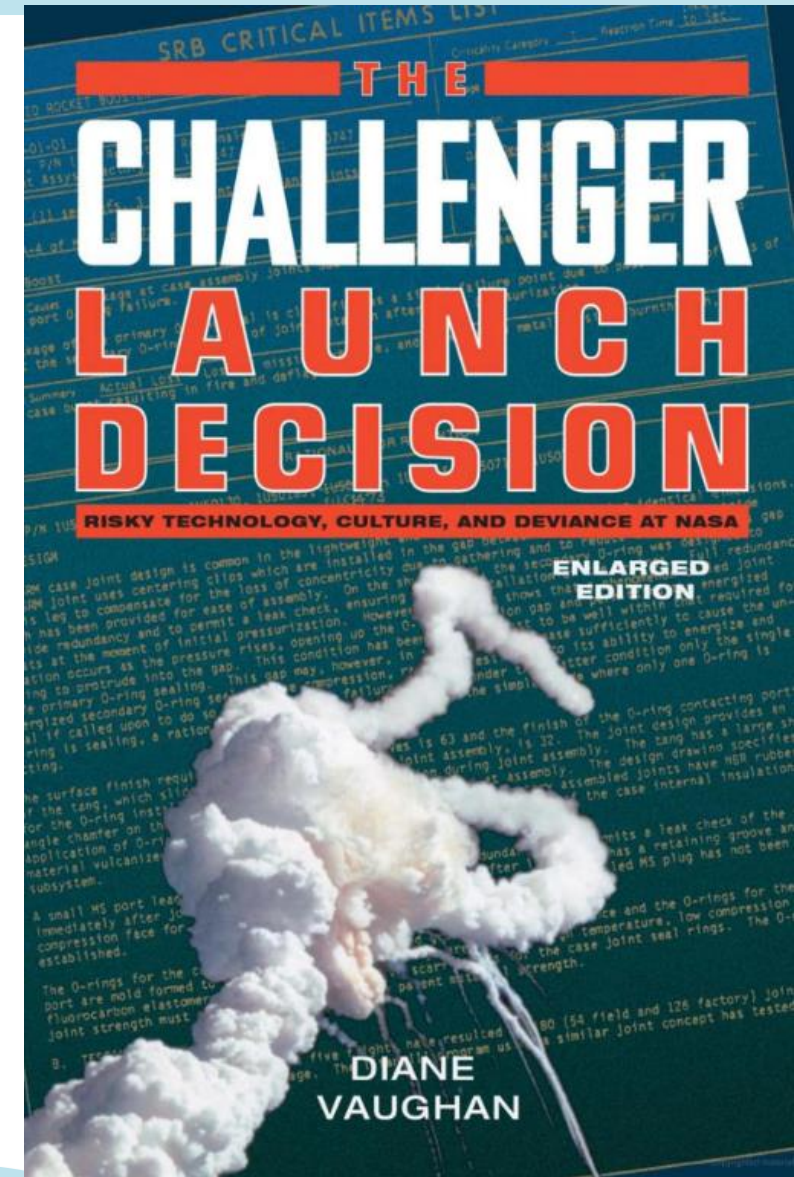
- ***“The Challenger Launch Decision: Risky Technology, Culture, and Deviance at NASA”***
- **Author: Diane Vaughan**

- **Changed the accepted cause from “technical issues” (O-ring) to drifts in procedures...**

“a long incubation period [before a final disaster] with early warning signs that were either misinterpreted, ignored or missed completely.”

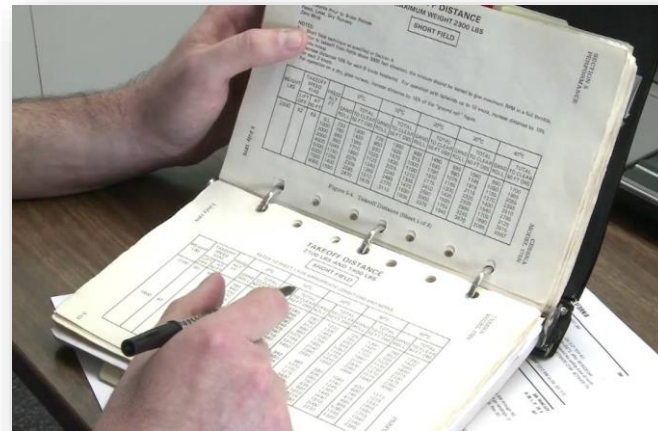
- **Normalization of Deviance**

“The gradual process through which unacceptable practice or standards become acceptable”

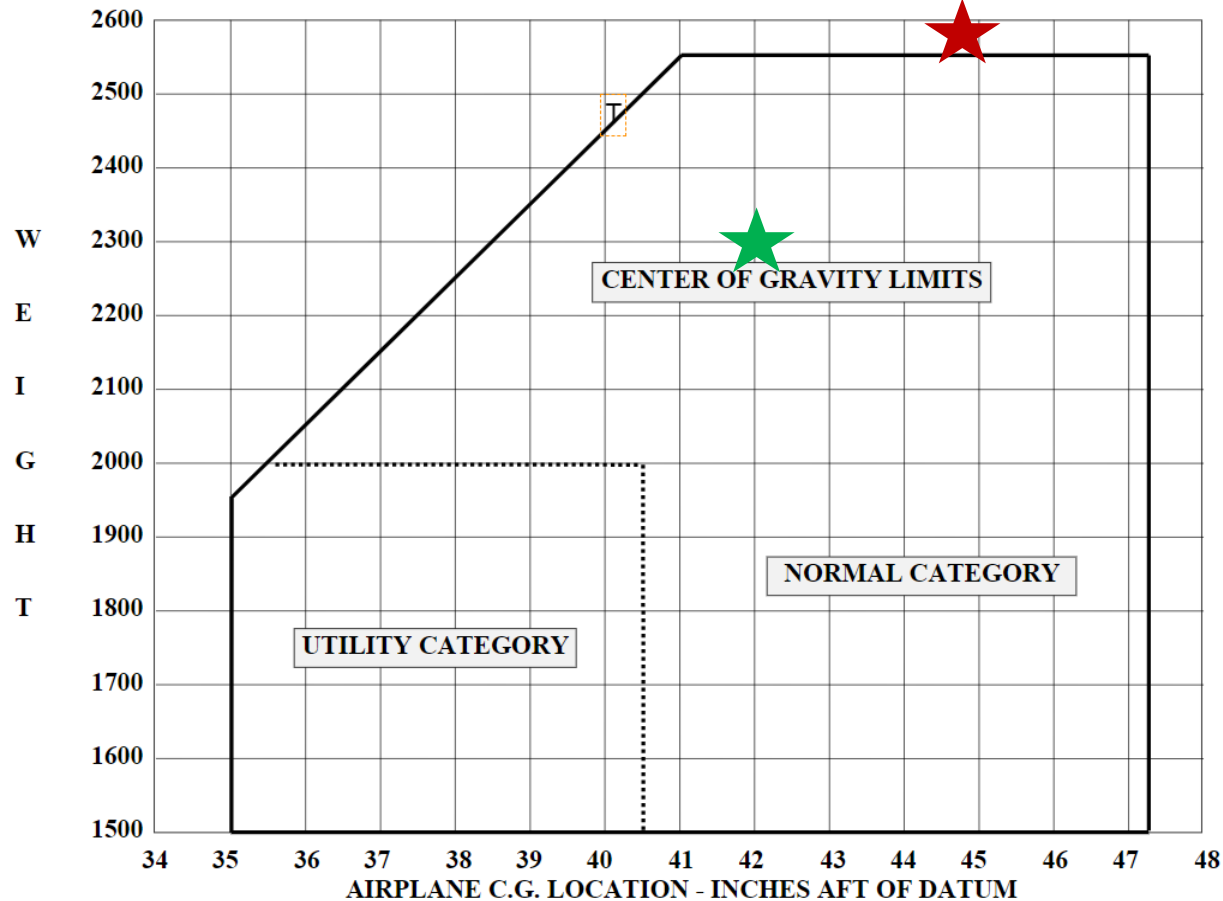


How often have you heard....

- She'll haul anything you can fit through the door
- Relax—it flew in here, it'll fly out
- We've got plenty of fuel—I've done this trip dozens of times
- No contamination in left tank...no need to check the right



Ten years of creeping operational drift



- Weight increased slowly over time
- Performance reduced slowly over time
- A new normal, at every slight change
- The deviance becomes normalized
- Sneaky, insidious, creeps-up...until...



Operational Drift and CFIT

Reduced margins of safety

CFIT—a possibility



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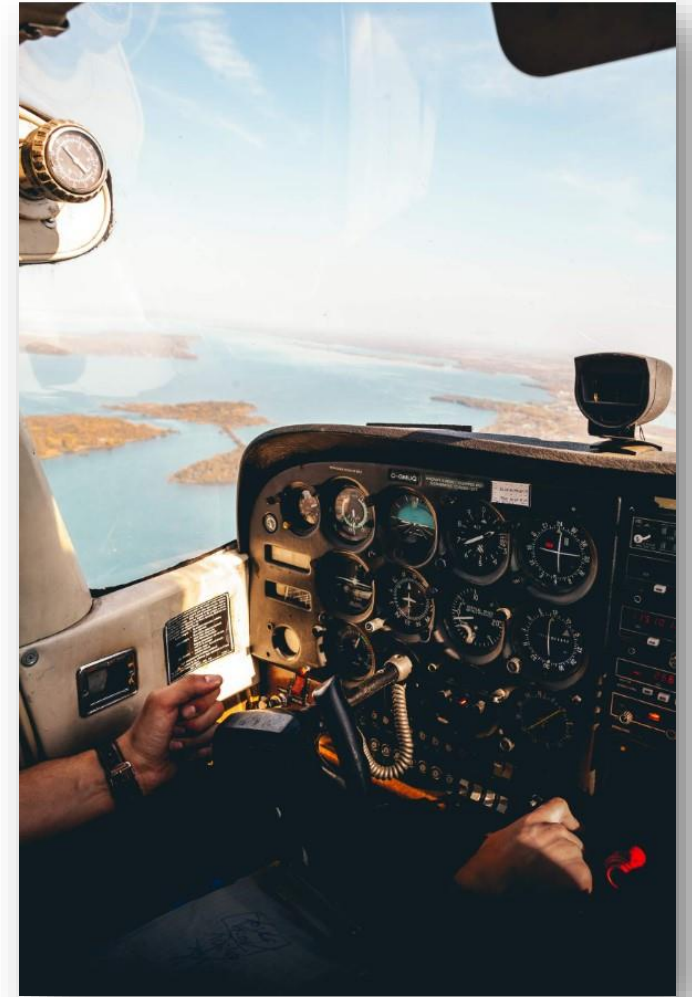
Coping with Normalization of Deviancy

Recognition

- Everyone is susceptible
- Awareness is the first step
- Admit you are human and so are fallible
- Go back to basics
- Be kind and listen to others

Document and operate within limits

- POH
- Regulations
- Personal
- Cultural expectations and norms



Fly the Way You (Should Have) Been Trained

- **If you weren't, then that is job #1...**
- **Practice Safety Risk Management**
 - Identify hazards and risks associated with your flights
 - Heady stuff – *so psychologists try to make it easy for us...*
 - *This is not psychobabble...treat it seriously*
 - PAvE, IMSAFE, DECIDE, 3Ps, 5Ps...
 - Six hazardous attitudes – IM AIRE
- **Human Factors**



Personal Minimums

Pilot

Aircraft

en**V**ironment

External pressures



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Pilot (Human)

- Certification level
 - Total experience
 - Recent experience
 - Health
 - Fatigue
 - Stress
- } IM SAFE



Aircraft (Human Interpretation)

- Performance
- Range
- Instrumentation
- Navigation equipment
- WX avoidance equipment



enVironment (Human Interpretation)

- Topography
- Runway & approach aids
- Wind and weather
- Lighting conditions
- Weather



External Pressures (Human)

- Employers & passengers
- Schedules & deadlines
- Monetary costs



Regulations

- They exist for a reason...don't be that %@#
- Provide a frame of reference for all of us
- Well...some of us...speed limits apply to other people...
- Remember the 6 hazardous attitudes
 - 7-mile extended left base for runway 29...uh...*what?*



The Six Hazardous Attitudes of Being Human

IM AIRE

	Attitude	Symptom	Antidote
I	Invulnerable	It won't happen to me	It can happen to me
M	Macho	I can do this	Taking chances is foolish
A	Anti-Authority	Don't tell me what to do	Follow the rules - they are there for a reason
I	Impulsive	Got to do something...anything...	Slow down - follow your training
R	Resignation	I'm helpless - can't change the outcome	I can make a difference

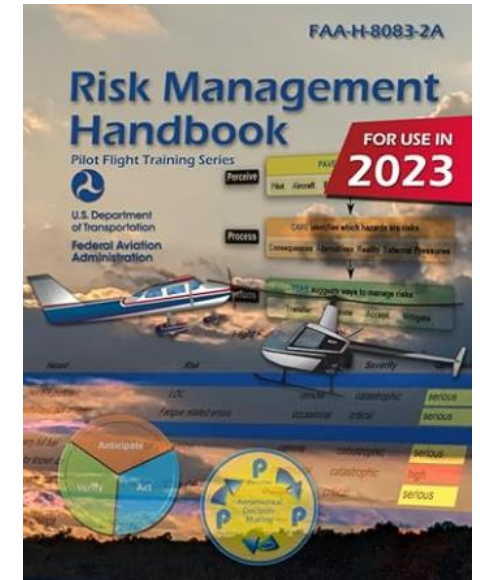
E	Entitlement	I have the right to do this	Flying is an equal privilege, get back in line
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Adjust for Specific Conditions

	If you are facing	Adjust baseline personal minimums by
Pilot	Illness, use of medication, stress, or fatigue; lack of currency (e.g., have not flown for several weeks)	At least 500 feet to ceiling
Aircraft	An unfamiliar airplane or an aircraft with unfamiliar avionics or other equipment	At least 1/2 mile to visibility
enVironment	Unfamiliar airports and airspace; different terrain or other unfamiliar characteristics	At least 500 feet to runway length
External Pressures	"Must meet" deadlines, pressures from passengers, etc.	At least 5 knots from winds

Add
Subtract



Adjust to more conservative levels



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Develop & adjust with your CFI

- **CFIs provide:**
 - Perspective
 - Consistency
 - Coaching
 - Experience
- **Non-judgmental (Choose your CFI wisely)**
 - Read [“Death by Time Builder”](#) for an illustration of bad behaviors
- **Regular Reassessment**
 - Required for professionals, including CFIs
 - Highly recommended for all pilots

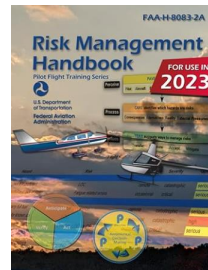


Preflight with a FRAT

Flight Risk Assessment Tools

When implementing a Safety Management System (SMS), one of the most critical components to develop is a Flight Risk Assessment Tool (FRAT). Because every flight has some level of risk, it is critical that pilots are able to differentiate, in advance, between a low risk flight and a high risk flight, and then establish a review process and develop risk mitigation strategies. A FRAT enables proactive hazard identification, is easy to use, and can visually depict risk. It is an invaluable tool in helping pilots make better go/no-go decisions and should be a part of every flight.

- Risk Management Handbook, Chapter 3
- Mixed thoughts...only useful if you are honest
- It will NOT give you the answer
- It's the thought process that counts



Using a Flight Risk Assessment Tool (FRAT)

Identifying hazards and associating them with risks can be accomplished using a simple spreadsheet or form during flight planning. The form used to record each hazard is known as a Flight Risk Assessment Tool (FRAT).

Numerical FRATs

A numerical FRAT lists different hazards and an associated number, which indicates the significance of each hazard. The pilot selects the relevant hazards, and derives a total score. Typically, the score falls into three ranges. If the total score is below a certain minimum, the FRAT indicates low risk. If it is in an intermediate range, the pilot is advised to "exercise caution." If the score is above an upper threshold, the FRAT indicates danger. [Figure 3-6]

Category	Question	Score
SLEEP	1. Did not sleep well or less than 8 hours	2
	2. Slept well	0
HOW DO YOU FEEL?	1. Have a cold or ill	4
	2. Feel great	0
	3. Feel a bit off	2
WEATHER AT TERMINATION	1. Greater than 5 miles visibility and 3,000 feet ceilings	1
	2. At least 3 miles visibility and 1,000 feet ceilings, but less than 3,000 feet ceilings and 5 miles visibility	3
	3. IMC conditions	4
HOW IS THE DAY GOING?	1. Seems like one thing after another (late, making errors, out of step)	3
	2. Great day	0
IS THE FLIGHT	1. Day?	1
	2. Night?	3
PLANNING	1. Rush to get off ground	3
	2. No hurry	1
	3. Used charts and computer to assist	0
	4. Used computer program for all planning	Yes: 3, No: 0
	5. Did you verify weight and balance?	Yes: 0, No: 3
	6. Did you evaluate performance?	Yes: 0, No: 3
	7. Do you brief your passengers on the ground and in flight?	Yes: 0, No: 2

Column total: _____

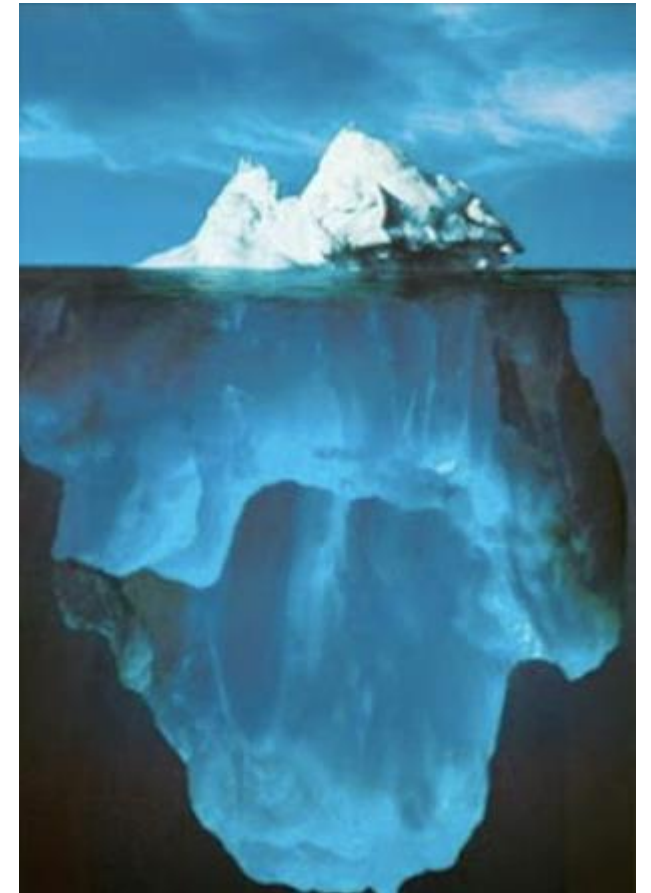
TOTAL SCORE: _____

Risk Level Indicator: Low risk (0-10), Exercise caution (10-20), Area of concern (20-30), En dangerment (30+)

Figure 3-6. Example of a numerical FRAT.

Proficiency and Peace of Mind

- **Fly regularly with your CFI—WINGS activities**
 - Do different things to become familiar
 - Do familiar things differently
- **“Revert to training” ...only works if...?**
 - a) You've seen it before
 - b) You've done it recently
 - c) **Insist on scenario training during your flight review and/or WINGS flights. Dig into options, understand predispositions (biases)**
- **Practice, practice...**
 - Get in your head
 - ...and keep it there...for when you need it

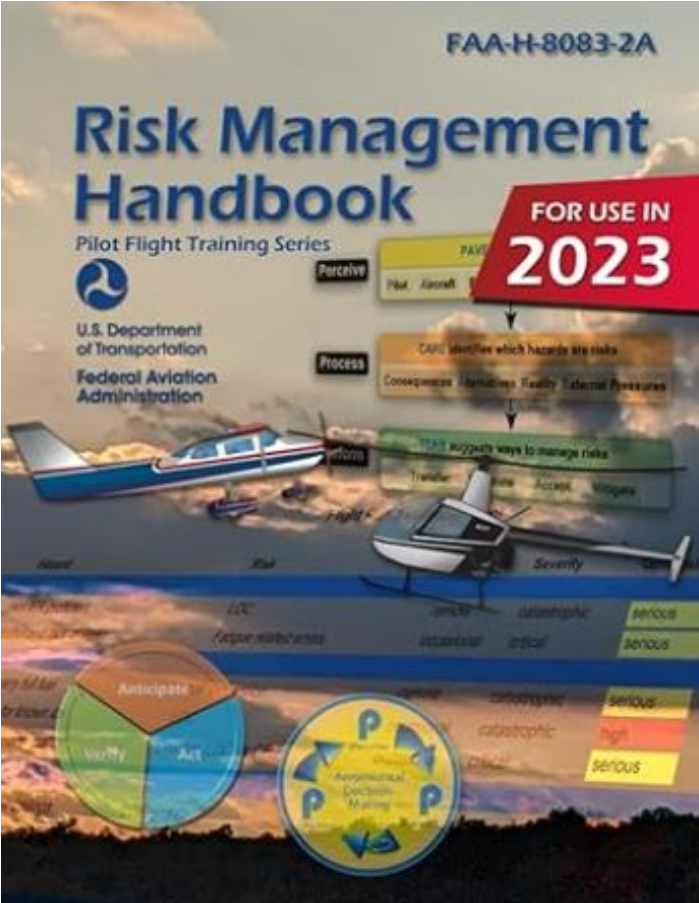


Summary:

- **Non-commercial GA accidents and fatalities remain stubbornly flat. Another force is holding us back (ourselves).**
- **Human biases are patterns of reasoning that weigh the value of information according to pre-conceived beliefs, not facts.**
- **Normalization of Deviance is the progressive and subtle deviation from standards and limitations, so resulting in new (often unacceptable) norms.**
- **As deviations from standards and limitations progress, checks, balances and system safety factors are eroded or completely lost.**
- **Pilots must commit regularly revisiting original standards and limits to understand and counter drift.**
- **Pilot organizations such as flying clubs should also commit to this best practice.**
- **This goes beyond human error and requires the understanding of human behaviors and traits.**
- **Documentation of personal minimums and periodic objective pilot performance assessments should be made in consultation with a flight instructor. Only useful if you are honest...and we are human...**
- **Objective in-flight “how-goes-it?” assessments should be frequently made to ensure that operations are conducted within expected standards, limitations, and norms.**

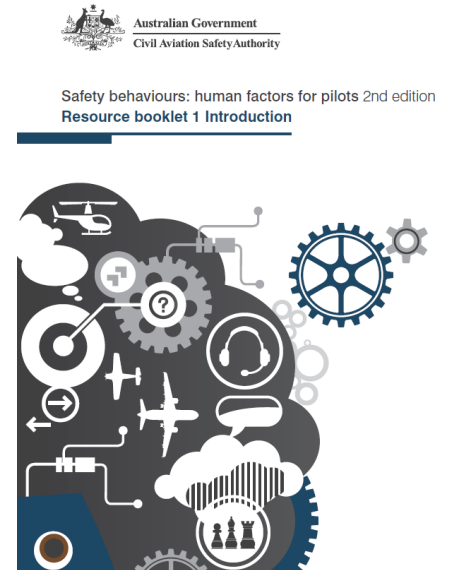


Homework-1: Read the Risk Management Handbook



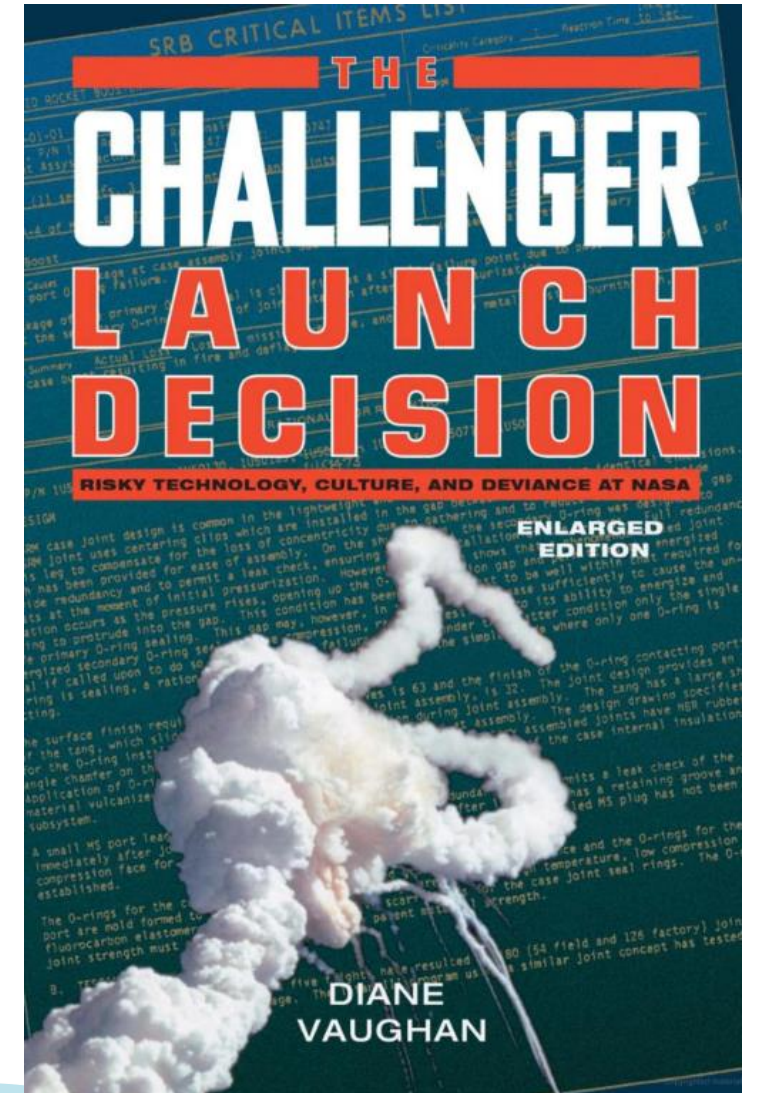
Homework-2 (Overdue from previous months)

- **Ask a loved one once if you should invest the time in this course...**
- **New Human Factors Course—Ten Modules**
 - Videos, quizzes, workbooks, tests.
- **Log into faasafety.gov:**
- **Go to activities-> courses-> all available courses**
 - Search for human factors
 - Then scroll to find these ALC codes:
 - 730, 731, 732, 825, 826, 827, 828, 829, 830
 - Here is a handy QR code to get you to 730 (modules 1 and 2):



Homework-3a: Read the Book on Normalization of Deviance

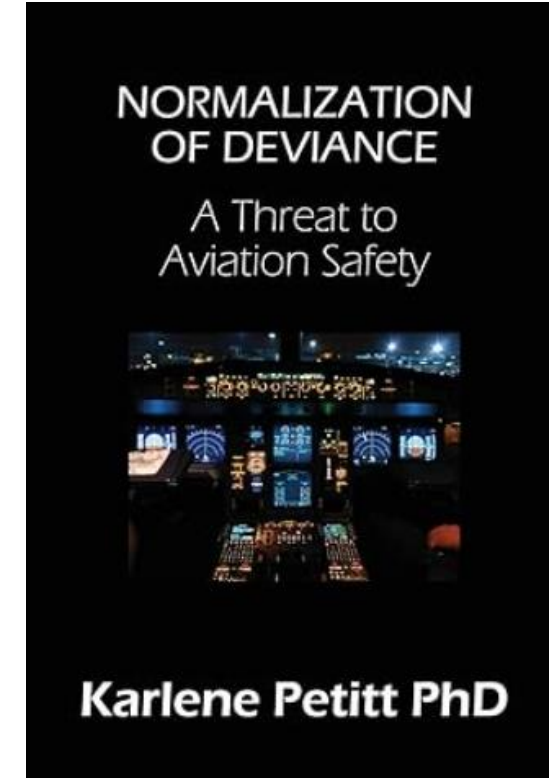
“The Challenger Launch Decision: Risky Technology, Culture, and Deviance at NASA”; by Diane Vaughan



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Homework-3b: Read Another Book on Normalization of Deviance

“This book is the result of the author’s doctoral research—
Safety Culture, Training, Understanding, Aviation Passion:
The Impact on Manual Flight and Operational
Performance.”



Homework-4: Internalize AC90-66C

- It's risky enough even when people follow the rules!
 - 13-mile straight in runway 34
 - 7-mile extended base for runway 29
- The catalyst for the 6th hazardous attitude (E = Entitlement)
 - Why is this so difficult?
 - Because people get away with it:

Normalization of Deviancy



U.S. Department
of Transportation
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Advisory Circular

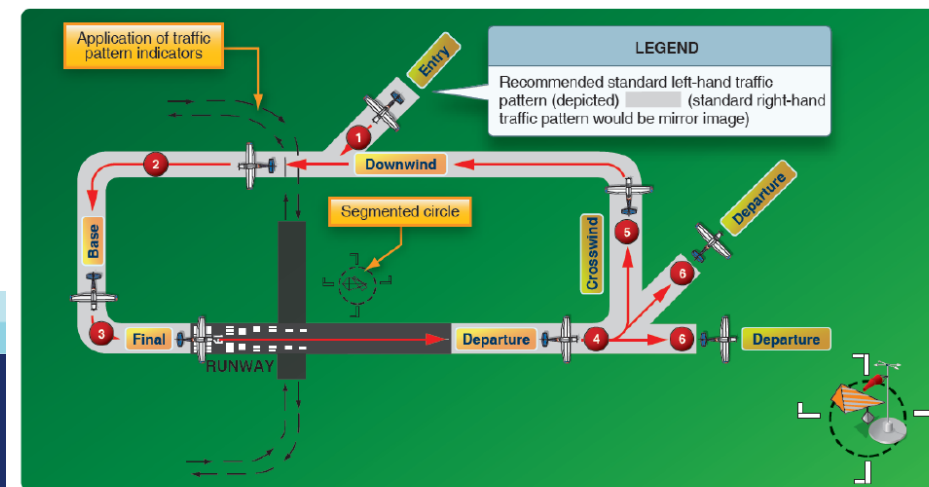
Subject: Non-Towered Airport Flight
Operations

Date: 6/6/23

AC No: 90-66C

Initiated by: AFS-800 Change:

- 1 **PURPOSE OF THIS ADVISORY CIRCULAR (AC).** This AC calls attention to regulatory requirements, recommended operations, and communications procedures for operating at an airport without a control tower or an airport with a control tower that operates only part time. It recommends traffic patterns, communications phraseology, and operational procedures for use by aircraft, lighter-than-air aircraft, gliders, parachutes, rotorcraft, and ultralight vehicles. This AC stresses safety as the primary objective in these operations. This AC is related to Title 14 of the Code of Federal Regulations (14 CFR) part 1, § 1.11 (traffic pattern), and part 91, § 91.113 (Careless or Reckless Operation), § 91.113 (Right-of-Way Rules: Except Water Operations), and § 91.126 (Operating On or In the Vicinity of an Airport in Class G Airspace). The contents of this document do not have the force and effect of law and are not meant to bind the public in any way, and the document is intended only to provide information to the public regarding existing requirements under the law or agency policies.



Homework-5: Resources

- **Spend some quality time with these resources:**
- <https://www.aopa.org/training-and-safety/air-safety-institute>
- [Safety to Go](#)
- faasafety.gov
- [Pilot Minute](#)
- [57 Seconds To Safer Flying](#)
- [FAA Safety Briefing Magazine](#)
- [From the Flight Deck](#)
 - <https://www.youtube.com/playlist?list=PL5vHkqHi51DSNpsBC8nb8Q8gFcGVmWhGA>
 - https://www.youtube.com/watch?v=303Pd_2UAmU

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Homework-6: SLAP

After every flight, *SLAP* yourself and create actions for the next flight:

S: How were my **Skills** today?

L: What did I **Learn** today?

A: How was my **ADM** today?

P: How was my **Planning** today?



So...

- **No recording...but even better...**
 - <https://youcanfly.aopa.org/flying-clubs/flying-club-newsletter>
- **You can download the presentation!**
 - This and earlier ToM presentations are available...
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 - November edition 11/19/2023

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Home > Flying Clubs > Club Connector Newsletter

FLYING CLUB CONNECTOR NEWSLETTER

Your source for the latest news on flying clubs all over the country. AOPA's research has shown us that flying club leaders are hungry to learn more about the practical experiences of other clubs. So, we have created this monthly newsletter.

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ARTICLES BY TOPIC

NEWS FROM HQ	QUESTION OF THE MONTH	CLUB SPOTLIGHT
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CLUB CONNECTOR ARTICLES

NARROW RESULTS ▾



Next Month...

The National FAA Safety Team Presents

Topic of the Month – December Making the Numbers

Presented to: Safety Minded Aviators, Everywhere...
By: Stephen Bateman, CFI, AOPA Flying Clubs
Date: Tuesday 19th December 2023

Produced by:
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Thank you for attending!

You are vital members of our GA safety community!

