

Currency and Startle Factor - How to Beat It

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Good news - the vaccine is here!

Slowly but surely passengers will begin returning to the skies. **Which means pilots will too.** Just like a huge ship, our industry has inertia. You cannot simply take your foot off the brake and straight back onto the gas.

In 2020, it went into a deep hibernation. Remember those pictures? Thousands of gleaming tails stuck depressingly in the desert? Well, pilots didn't fare much better. **Thousands of pilots were put into deep storage too.**



Furlough and redundancy. For now, pilots are much the same way.

To give you an idea of scale, get a load of these stats- the first post-Covid worldwide survey found that **58% of the world's pilots are currently grounded**. 33% lost their jobs completely while a big bunch are on furlough with no clue when they'll fly next.

So as the industry begins to recover (and it will), a legion of seriously **“non-current” pilots** will find themselves back in the hot seat facing the same challenges they did back when things were booming and your skills were Chuck Yeager sharp.

Beginning to get the picture? I'll give you a hint...

It's not like riding a bike.



The seat may feel familiar, but it's been a while.

We're not machines and **our skills degrade over time** no matter how good you are.

Secondly, you might think a bunch of extra training will soon get you back to speed. The issue is **resources** - it is such a big task to get everyone current again you are likely to find yourself at the controls *legally* current, but not necessarily at your best.

So if something goes wrong, you're likely to be **further behind the 8-ball**. So let's talk about **startle factor**. Yep that old chestnut. We've all been there. Something has gone wrong and fast. One minute you're talking about that great place that does burgers near the crew hotel, the next you're seeing more red lights than Amsterdam. For a fleeting moment all that training and knowledge is gone. **You go blank but feel compelled to act**. Sadly it is in these brief moments that some crew have tragically become unstuck.

Here's the issue.

When you're not current you are more likely to fall victim to **startle factor**. And you can bet your bottom dollar that whatever is about to happen is not going to wait for you to get a few sectors under your belt first.

So if I get a call up next week, what can I do about it?

- **Understand what is happening in your brain when something goes *bang*.**

Startle factor is **normal**. It affects everyone because a 'fight or flight reflex' has been hard wired into our brains since the days we were running away from woolly mammoths and sabre tooth tigers. It is a physical and mental response to something unexpected.

When something gives us a fright, our brain activity changes. We think less and act instinctively while our bodies are pumped full of adrenaline and stress hormones. Effectively for a short time **our thought processes are hijacked**. We can get into a vicious cycle of bad decisions in a hurry. This post-startle brain fog has had tragic consequences in avoidable accidents.

- **Don't act. At least right away.**

Just for a moment, **resist the knee-jerk reaction**. Slow it down. By sitting on our hands even for a second or two you are giving your brain a chance to pass through its instinctive reaction and give you back control of your decision making. You have to understand what is actually happening before you can do anything to fix it.

- **Be Ready.**

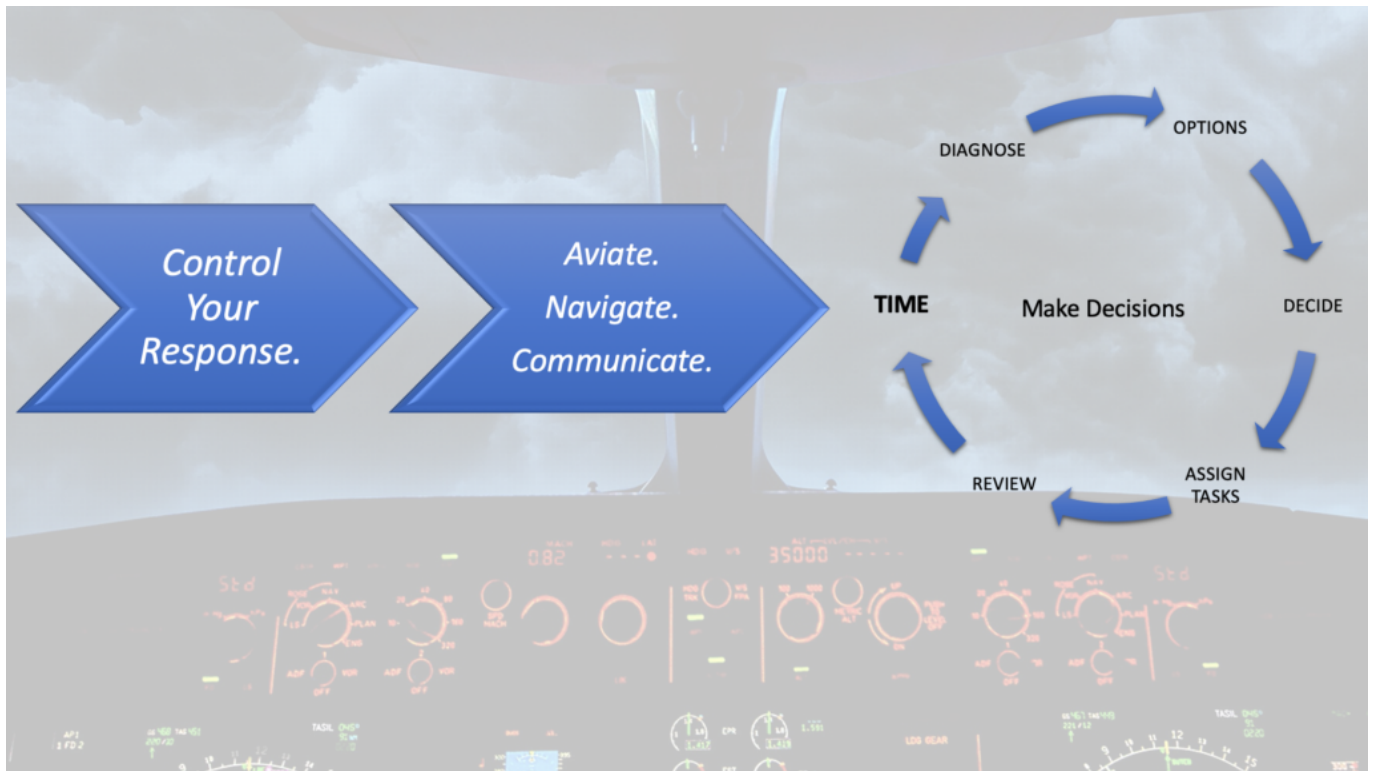
Fight boredom and be alert. In each phase of flight think about what could go wrong and how you will react. For those less superstitious, **dare your plane to fail**. By keeping your brain in state of readiness you will overcome the startle factor more easily.

- **Get Back On the Script.**

Ah, yes. **Familiar territory** - nothing helps you get over a shock than what you already know. Use a robust decision making process and watch your ol' capacity bucket grow.

You have probably heard of some - SAFE, GRADE, FATE etc. There are lots of them but it is important to have one and **practice it consistently**.

T-DODAR is another tried and true method, and US Airways flight 1549 shows how it can be used in some of the most startling circumstances that could have been thrown at a crew.



The 'T-DODAR' Decision Making Model

Sully Sullenberger kicked a field goal that fateful day in 2009 when they took a flock of Geese straight through both noise-makers.



The Miracle on the Hudson.

He paused, sat on his hands and tried to **understand the status of the airplane**. What had happened, and why. Whether he had power or not. He got himself back in the loop. He took control of the airplane, established it in a glide and turned the aircraft back towards the airport. He then told ATC. **Aviate, navigate, communicate.**

Once he had the capacity, he went to work. He knew he had **no time** and had to land. The **diagnosis** was obvious – a bunch of birds damaged both engines. Sully worked through his **options**: Return to La Guardia, go to another airport or ditch. He made his decision – “We’re gonna be in the Hudson.”

Once the **decision** was made, he **assigned** tasks. He would fly the plane, his First Officer would run checklists and try and get an engine back and his cabin crew would prep the cabin.

As they descended toward the river he turned to his colleague and with a simple question covered off his **review** – “Got any ideas?”. In other words, anything we haven’t tried yet? 155 people were saved by the crew’s ability to make decisions effectively. Apply a framework and you create so much extra brain space to concentrate on other things.

Oh, and about the sim.

Traditionally, airlines have followed **matrices**.

What’s that you say? Matrices, cyclics, whatchamacallits – predictable training programs that meant that every year or two that horrible multiple hydraulic failure would pop up yet again. That **canned exercise**

that you were born ready for because you spent all last night studying it over a room service steak.

While I'd be the first to admit that when it comes to sim assessments, **I love to know what's coming**, that's not how the world works. The real reality is... who knows? There is an un-countable number of factors at play that will decide what an actual airplane is going to throw you at you. So the best defence is **being comfortable with what you don't know**.

Spend a few minutes looking up 'Evidence Based Training.' Chances are you've already heard of it. It's about assessing competencies no matter what's thrown at you and it's **a revolution for pilot training**. If you have the right tools in your bag you can fix almost anything - and that's the whole point.

Simulator time is valuable, and if you get the chance use the extra time. **Get something new thrown at you** - because at the moment, we need all the help we can get!

Some other interesting stuff...

- IATA's guide on Evidence Based Training
- 'Without Warning' A great article on the topic of 'Pucker Factor' from 'Down Under' (what are the odds!?).