```
WEBVTT
1
00:00:00.600 --> 00:00:04.500
background and resume x35 retired combat
00:00:03.500 --> 00:00:07.900
Marine Aviator and a
3
00:00:06.900 --> 00:00:09.700
friend of the society and great
00:00:09.700 --> 00:00:10.300
Americans, so
00:00:22.200 --> 00:00:26.200
Okay, so normally the chairman wouldn't be presenting. I
00:00:25.200 --> 00:00:28.500
would not have done this but we actually and
7
00:00:28.500 --> 00:00:31.300
I'm telling you this for a reason we had a
00:00:31.300 --> 00:00:34.500
bit of a challenge get enough papers to fill all the slots for this.
00:00:34.500 --> 00:00:37.200
So the reason I shared that
10
00:00:37.200 --> 00:00:41.200
with you is that if you've presented before you
11
00:00:40.200 --> 00:00:43.200
know how rewarding it is to do this
12
00:00:43.200 --> 00:00:46.200
if you've never presented before you've seen
13
00:00:46.200 --> 00:00:48.700
at least so far today and hopefully through the rest of the day tomorrow.
```

```
00:00:50.600 --> 00:00:53.600
Everyone in this room has something worth talking
00:00:53.600 --> 00:00:56.000
about and you'd have to can you have to pull me aside and convince me
16
00:00:56.200 --> 00:00:59.200
that I'm wrong on that. So if you haven't presented before
17
00:00:59.200 --> 00:01:00.900
consider doing this
18
00:01:01.600 --> 00:01:05.200
So with that said I will get started how many
19
00:01:05.200 --> 00:01:09.400
in this room would consider themselves part
20
00:01:08.400 --> 00:01:11.900
of the aviation broad picture
21
00:01:11.900 --> 00:01:15.000
part of the aviation profession show
22
00:01:14.200 --> 00:01:15.400
of hands.
23
00:01:16.800 --> 00:01:19.500
Okay, pretty much Universal. How many
24
00:01:19.500 --> 00:01:23.400
of you Aviation professionals would
25
00:01:22.400 --> 00:01:25.500
say that you are dangerous?
2.6
00:01:27.800 --> 00:01:30.700
interesting
27
00:01:31.700 --> 00:01:31.900
```

```
Okay.
28
00:01:33.600 --> 00:01:35.000
29
00:01:37.600 --> 00:01:39.800
So we we know that we have.
30
00:01:41.300 --> 00:01:44.200
Danger endanger is something that we don't typically talk about
31
00:01:44.200 --> 00:01:47.800
in a positive light because the outcome of
00:01:47.800 --> 00:01:50.200
danger is often bad.
33
00:01:51.500 --> 00:01:52.800
Danger is inherently.
34
00:01:54.100 --> 00:01:54.600
dangerous
35
00:01:55.900 --> 00:01:58.100
so we don't like it, but
36
00:01:59.200 --> 00:02:02.600
We do it and someone once complained
37
00:02:02.600 --> 00:02:05.300
that I don't put enough data in my presentation. So I
38
00:02:05.300 --> 00:02:08.100
went out and as my aunt Ida would say go to the
39
00:02:08.100 --> 00:02:11.800
Google. So I went to the Google and I found data and
40
00:02:11.800 --> 00:02:14.100
it said that yes, if you
```

```
41
00:02:14.100 --> 00:02:18.500
can't read the fine print so I made it bigger that Yeah, we actually
intentionally
42
00:02:17.500 --> 00:02:21.300
go out and do dangerous things.
43
00:02:22.800 --> 00:02:25.700
But with the exception of the eight who raised
00:02:25.700 --> 00:02:28.800
their hands, it's not all of us. It's just
45
00:02:28.800 --> 00:02:31.300
some of us and mostly we
46
00:02:31.300 --> 00:02:35.000
refer to the US that is doing dangerous things
00:02:34.900 --> 00:02:37.800
as the them. They
48
00:02:37.800 --> 00:02:40.900
they do dangerous things like
49
00:02:40.900 --> 00:02:43.700
them who do the run
50
00:02:43.700 --> 00:02:46.500
with the bulls every year most famous in
00:02:46.500 --> 00:02:49.500
Pamplona Spain you get out and
52
00:02:49.500 --> 00:02:52.000
you they put Bulls in the street
53
00:02:52.200 --> 00:02:55.600
and you run from the Bulls now, they have some rules you
```

```
00:02:55.600 --> 00:02:58.700
must be 18 or older. You have
55
00:02:58.700 --> 00:03:01.100
to run in the same direction of the
56
00:03:01.100 --> 00:03:05.600
Bulls which sounds like a reasonably good risk mitigation. You are
57
00:03:05.600 --> 00:03:08.500
not allowed to incite the Bulls and
58
00:03:08.500 --> 00:03:11.300
you are not allowed and this is kind of what kills
59
00:03:11.300 --> 00:03:14.800
it for me. You're not allowed to be drunk when you do it because that
would be the only way I
60
00:03:14.800 --> 00:03:17.800
would get out there and do that. We also
61
00:03:17.800 --> 00:03:20.100
have them who do all over the
62
00:03:20.100 --> 00:03:22.500
world this happens Polar Bear Plunge.
63
00:03:22.700 --> 00:03:25.400
Normal people in whatever physical condition. They may
64
00:03:25.400 --> 00:03:28.700
be in throw their bodies into freezing cold water, which
65
00:03:28.700 --> 00:03:31.000
is not a really good thing for the human body.
66
00:03:31.700 --> 00:03:34.200
Every Easter on the Greek
00:03:34.200 --> 00:03:35.500
```

```
island of chios.
68
00:03:36.200 --> 00:03:39.600
Two churches have a fireworks battle
69
00:03:39.600 --> 00:03:42.800
with homemade bottle rockets using gunpowder as
70
00:03:42.800 --> 00:03:45.400
their principal explosive and propellant.
71
00:03:46.500 --> 00:03:49.500
Tens of thousands of rockets are
00:03:49.500 --> 00:03:52.900
launched during this festival with the
73
00:03:52.900 --> 00:03:55.900
goal being trying to hit the bell in the
74
00:03:55.900 --> 00:03:58.300
other church, but humans are
75
00:03:58.300 --> 00:04:02.000
launching. This isn't any automated Disney Night Extravaganza. There's
76
00:04:01.300 --> 00:04:04.600
humans lighting the fuses and launching all these
77
00:04:04.600 --> 00:04:05.200
things.
78
00:04:06.800 --> 00:04:09.800
And then in the Gano Japan the onshawn
79
00:04:09.800 --> 00:04:12.700
bureau Festival, they go out into the woods and
80
00:04:12.700 --> 00:04:16.100
they cut down 16 giant trees tournament
```

```
81
00:04:15.100 --> 00:04:18.600
to pillars and then they move these pillars
00:04:18.600 --> 00:04:21.700
without equipment. Just human labor to
83
00:04:21.700 --> 00:04:24.600
the site some miles away of some Temple
84
00:04:24.600 --> 00:04:27.000
where they rebuild the Temple with these pillars.
85
00:04:27.900 --> 00:04:31.100
In order to get there, they have to go downhill and
86
00:04:30.100 --> 00:04:33.900
it is considered a proof
87
00:04:33.900 --> 00:04:37.000
of Bravery to ride those
88
00:04:36.600 --> 00:04:39.100
giant logs as they are
89
00:04:39.100 --> 00:04:41.200
going downhill.
00:04:42.200 --> 00:04:45.300
uncontrolled sliding down the side
91
00:04:45.300 --> 00:04:47.000
of a mountain on a log
92
00:04:48.100 --> 00:04:50.400
the good news is they only do this every seven years.
00:04:51.800 --> 00:04:54.500
So after looking at all that I have determined
94
00:04:54.500 --> 00:04:58.200
```

```
that perhaps we just like Danger.
95
00:04:59.400 --> 00:05:03.000
Now any of you who have seen me present before have heard
96
00:05:02.200 --> 00:05:05.300
me use the term sticky learning and sticky learning
97
00:05:05.300 --> 00:05:08.500
if you haven't heard me before is this simply I
98
00:05:08.500 --> 00:05:11.400
know that I can tell you something and I can consider that something
00:05:11.400 --> 00:05:14.300
very important. But you may not remember it if
100
00:05:14.300 --> 00:05:17.200
I were to come to you 10 years from now you may or may not remember that
thing
101
00:05:17.200 --> 00:05:21.200
I told you even if it was important. However, if
102
00:05:20.200 --> 00:05:23.100
I stick it to something that I
103
00:05:23.100 --> 00:05:27.000
know will reside in your brain forever movie
104
00:05:26.500 --> 00:05:29.100
quotes song lyrics things like
00:05:29.100 --> 00:05:32.400
that that you will retain for the rest of your life then if
106
00:05:32.400 --> 00:05:35.100
I can stick it to that and I know you will attain it
107
00:05:35.100 --> 00:05:38.200
because I get people come up to me and say, you know,
```

```
108
00:05:38.200 --> 00:05:41.400
I was watching movie X Monty Python,
109
00:05:41.400 --> 00:05:42.800
whatever and I thought of you
110
00:05:43.700 --> 00:05:46.600
now some of that's encouraging some of that's a little creepy depending
111
00:05:46.600 --> 00:05:47.700
on how they come at you but
112
00:05:49.200 --> 00:05:49.600
anyway, so
113
00:05:51.200 --> 00:05:52.500
I will tell you that.
114
00:05:54.100 --> 00:05:58.000
I would consider myself when I was flying airplanes to
00:05:57.500 --> 00:06:01.300
be a non-dangerous pilot.
116
00:06:00.300 --> 00:06:03.100
I didn't intentionally go out
117
00:06:03.100 --> 00:06:06.100
and do dangerous things. I wore my
00:06:06.100 --> 00:06:09.400
proper safety equipment. I did all the proper procedures when operating
119
00:06:09.400 --> 00:06:12.400
the aircraft so I would
120
00:06:12.400 --> 00:06:13.600
have told you that I am not.
```

```
00:06:14.600 --> 00:06:15.400
a dangerous
122
00:06:16.200 --> 00:06:16.600
123
00:06:18.400 --> 00:06:21.700
But then if I were to take okay, this is a snapshot in
124
00:06:21.700 --> 00:06:22.400
time of that day.
125
00:06:23.400 --> 00:06:26.500
What I didn't say was hey that morning. Yeah that
126
00:06:26.500 --> 00:06:29.300
corned beef hash I had for breakfast was two days past but it
127
00:06:29.300 --> 00:06:31.100
just says Best Buy.
128
00:06:31.500 --> 00:06:34.800
On there, that's not that dangerous and {\tt I}
129
00:06:34.800 --> 00:06:37.200
drove and I I stayed within
130
00:06:37.200 --> 00:06:40.100
the allowable average of 10 miles an
00:06:40.100 --> 00:06:43.600
hour over the speed limit through my entire Drive.
00:06:43.600 --> 00:06:47.400
Yes. I did have two texts
133
00:06:46.400 --> 00:06:49.400
that I absolutely had to respond to on
134
00:06:49.400 --> 00:06:51.400
the way into work that day.
```

```
135
00:06:52.600 --> 00:06:55.100
Um, when I got home, my wife said there was a problem
136
00:06:55.100 --> 00:06:58.500
with the light switch that I had installed over the weekend. It wasn't
working. So
137
00:06:58.500 --> 00:07:01.100
I thought you know, I can quickly fix this because I wanted to get
138
00:07:01.100 --> 00:07:04.300
out and go do some exercise. I can quickly fix this took the panel off.
139
00:07:04.300 --> 00:07:07.200
It's a hassle to go turn off the power of the circuit breaker,
140
00:07:07.200 --> 00:07:10.300
but I can be very careful about manipulating the wires so
141
00:07:10.300 --> 00:07:13.500
I don't touch anything, right and then surviving that
142
00:07:13.500 --> 00:07:16.200
I did go out and get on my inline skates and go for my typical
143
00:07:16.200 --> 00:07:19.100
10 Mile thing now, I don't wear helmet. I don't wear pads because
144
00:07:19.100 --> 00:07:23.500
I've been skating for like 40 years and I've
145
00:07:22.500 --> 00:07:25.300
gotten pretty good at it. I have reasonably good
146
00:07:25.300 --> 00:07:28.200
balance or at least I did when I was in my 20s and
147
00:07:28.200 \longrightarrow 00:07:30.800
I just assumed that that doesn't change as you get older.
```

```
148
00:07:32.700 --> 00:07:34.300
and for at least
149
00:07:35.200 --> 00:07:38.600
I don't know 80% of my skate. I'm near
150
00:07:38.600 --> 00:07:41.600
grass so I can fall gracefully without too much injury. There's
1.51
00:07:41.600 --> 00:07:44.400
a 20% where I'm not near grass so that could be bad if a
152
00:07:44.400 --> 00:07:45.000
fall happened there, but
153
00:07:45.600 --> 00:07:46.900
what's the likelihood of that happen?
154
00:07:49.200 --> 00:07:53.100
So we've talked about infusing safety
155
00:07:52.100 --> 00:07:56.000
making our cultures safer.
156
00:07:57.500 --> 00:07:59.500
And when I look at my culture of one here.
157
00:08:01.300 --> 00:08:05.200
Hmm. Maybe I need to inject some more safety into my culture.
158
00:08:06.400 --> 00:08:07.300
but what if
159
00:08:08.100 --> 00:08:11.700
what if our culture could inject safety
00:08:11.700 --> 00:08:13.700
into us and isn't?
161
00:08:14.100 --> 00:08:17.800
```

```
That sort of what we would hope for we would have a culture that
162
00:08:17.800 --> 00:08:18.600
created.
163
00:08:19.600 --> 00:08:19.900
safe
164
00:08:21.200 --> 00:08:21.500
better
165
00:08:22.600 --> 00:08:23.200
safer
166
00:08:23.900 --> 00:08:24.400
I think so.
167
00:08:25.300 --> 00:08:28.300
So, let's see. What can we derive from our
168
00:08:28.300 --> 00:08:31.800
culture that can help us. This gets really good. I
169
00:08:31.800 --> 00:08:33.200
can help us stay safe.
170
00:08:36.300 --> 00:08:38.800
We are going to need a bigger boat.
171
00:08:41.700 --> 00:08:44.800
I shouldn't we always choose the proper equipment
172
00:08:44.800 --> 00:08:46.900
for everything we do.
173
00:08:48.300 --> 00:08:52.300
It's critical when we were developing the safety
174
00:08:51.300 --> 00:08:54.600
photo Chase plan for
```

```
175
00:08:54.600 --> 00:08:57.200
x35. It was
176
00:08:57.200 --> 00:09:01.000
kind of straightforward. Hey, we were a Lockheed product.
177
00:09:00.800 --> 00:09:03.200
There was a
178
00:09:03.200 --> 00:09:07.400
large number of F-16 available at
179
00:09:06.400 --> 00:09:09.400
Edwards. We were going to primarily do our flying so
180
00:09:09.400 --> 00:09:12.800
f-16s were kind of the easy choice for Chase.
181
00:09:12.800 --> 00:09:15.100
Most people already had quals in the airplane. So it was
182
00:09:15.100 --> 00:09:18.400
pretty straightforward but there was a version of the x35 called
183
00:09:18.400 --> 00:09:21.900
the x35b that could convert into
184
00:09:21.900 --> 00:09:24.900
short takeoff and vertical Landing mode hover into
185
00:09:24.900 --> 00:09:27.400
a vertical Landing now for doing all
186
00:09:27.400 --> 00:09:30.300
the supersonic stuff and all the high speed stuff
187
00:09:30.300 --> 00:09:33.500
the F-16 was an awesome Chase airplane, but it has a
188
00:09:33.500 --> 00:09:36.300
```

```
problem getting into a hover for anyone who
189
00:09:36.300 --> 00:09:36.900
has floated.
190
00:09:38.500 --> 00:09:41.600
So it wasn't necessarily the right
191
00:09:41.600 --> 00:09:45.500
size boat for that particular job.
192
00:09:46.400 --> 00:09:49.300
So we decided hey, well, maybe on the flights
193
00:09:49.300 --> 00:09:53.500
where we got to do both where we got to be high speed and no
194
00:09:52.500 --> 00:09:55.800
speed. Maybe we get something else.
195
00:09:56.700 --> 00:09:59.300
So we had a t34 from NASA. We
196
00:09:59.300 --> 00:10:03.200
used occasionally that could do lower speeds than everything.
197
00:10:02.200 --> 00:10:05.800
We had Harrier that we used occasionally
198
00:10:05.800 --> 00:10:08.200
on loan from our friends at China Lake.
199
00:10:09.100 --> 00:10:12.600
We just helicopters so that we were able to cover the
200
00:10:12.600 --> 00:10:15.600
way we wanted to cover the airplane with safety and
201
00:10:15.600 --> 00:10:18.500
photo Chase using the proper tool. So
```

```
202
00:10:18.500 --> 00:10:21.300
always pick the right size boot.
00:10:26.100 --> 00:10:29.700
Please do your research before purchasing a
204
00:10:29.700 --> 00:10:30.100
home.
205
00:10:31.900 --> 00:10:34.700
Because research is important what you
206
00:10:34.700 --> 00:10:38.200
don't want to find out is there was information available to
207
00:10:37.200 --> 00:10:40.400
tell you that something was dangerous, but you
208
00:10:40.400 --> 00:10:42.400
failed to do the research to find it out.
209
00:10:43.400 --> 00:10:46.300
In my command tour at Pax River. We are sitting
210
00:10:46.300 --> 00:10:48.500
in a test plan review one day.
211
00:10:49.300 --> 00:10:52.400
And one of the benefits of being in an organization like
212
00:10:52.400 --> 00:10:56.300
that is they tend to populate that with good experienced
213
00:10:55.300 --> 00:10:58.700
people. So my chief test engineer
214
00:10:58.700 --> 00:11:01.700
had been around for a long time had
215
00:11:01.700 --> 00:11:04.300
```

```
seen a lot of things. So when
216
00:11:04.300 --> 00:11:07.100
we're listening to this particular test plan here any new that
217
00:11:07.100 --> 00:11:10.400
hey we've done something like this before and here was a major Pitfall we
218
00:11:10.400 --> 00:11:13.000
encountered so when he asked the question about that,
219
00:11:13.900 --> 00:11:16.200
The team said now we don't
220
00:11:16.200 --> 00:11:19.200
know anything about that. Did you do what is required
221
00:11:19.200 --> 00:11:22.100
says right here in the plan to doing test plan stuff
222
00:11:22.100 --> 00:11:23.900
that you're supposed to go review the literature and everything.
223
00:11:24.800 --> 00:11:25.500
We didn't have time.
224
00:11:26.400 --> 00:11:28.900
To do this. So he embarked on this discussion about
225
00:11:29.900 --> 00:11:32.400
the thing and talking in equations and Greek
226
00:11:32.400 --> 00:11:33.900
letters and I yeah just
227
00:11:34.800 --> 00:11:37.500
You know kind of did that and finally he said
228
00:11:37.500 \longrightarrow 00:11:40.700
so what do you mean you don't you didn't have the time to do
```

```
229
00:11:40.700 --> 00:11:41.700
the research?
00:11:42.700 --> 00:11:45.200
And ah I can fix that. So I'm
231
00:11:45.200 --> 00:11:48.900
going to give everyone every other Monday morning off.
232
00:11:49.600 --> 00:11:52.400
To do things like research for your
233
00:11:52.400 --> 00:11:55.500
upcoming flight test to actually let the
234
00:11:55.500 --> 00:11:58.400
pilots have time to talk with their test
235
00:11:58.400 --> 00:12:01.200
Engineers because another thing we found out in that discussion
236
00:12:01.200 --> 00:12:04.700
was the pilot in the engineer had not talked before coming into
237
00:12:04.700 --> 00:12:05.900
the test plan review.
238
00:12:07.500 --> 00:12:10.900
Because quote were too busy flying.
239
00:12:12.200 --> 00:12:15.900
I can fix that. I'm the real easy doesn't
240
00:12:15.900 --> 00:12:18.500
take any effort now. I will tell you in a
00:12:18.500 --> 00:12:20.900
place like Patuxent River where there are a lot of program offices.
242
00:12:22.100 --> 00:12:25.300
```

```
Taking a half day off of flying even every other
243
00:12:25.300 --> 00:12:29.000
week was not a hugely popular decision on the other side of the
244
00:12:28.000 --> 00:12:29.300
base.
245
00:12:30.200 --> 00:12:33.400
But it was important enough to me to allow people time to
246
00:12:33.400 --> 00:12:34.800
do their research.
247
00:12:38.700 --> 00:12:41.000
Not all dogs are friendly.
248
00:12:42.400 --> 00:12:45.600
If you approached a strange dog,
249
00:12:45.600 --> 00:12:48.600
you would approach that strange dog, especially one
250
00:12:48.600 --> 00:12:49.400
that looks like this.
2.51
00:12:50.300 --> 00:12:51.100
with caution
252
00:12:52.100 --> 00:12:55.600
So shouldn't we approach the unknown with sort
253
00:12:55.600 --> 00:12:58.700
of the same level of caution? Shouldn't we
254
00:12:58.700 --> 00:13:01.800
go out and do things like first flights
255
00:13:01.800 --> 00:13:04.400
envelope expansion and approach them
```

```
256
00:13:04.400 --> 00:13:07.100
with some level of caution. Just
00:13:07.100 --> 00:13:10.300
like we would come up to this cute looking
258
00:13:10.300 --> 00:13:11.500
Saint Bernard.
259
00:13:12.700 --> 00:13:13.300
I think so.
260
00:13:18.600 --> 00:13:22.700
Good technology can
261
00:13:22.700 --> 00:13:23.400
be bad.
262
00:13:24.400 --> 00:13:25.400
So think about this.
263
00:13:26.300 --> 00:13:27.200
a system
264
00:13:28.200 --> 00:13:29.800
That is powerful enough.
265
00:13:30.600 --> 00:13:33.400
To protect a pilot like me
266
00:13:33.400 --> 00:13:36.900
and I didn't when I showed you that picture of me in the flight gear, but
Ι
267
00:13:36.900 --> 00:13:39.800
didn't tell you, you know, most people have this this impression,
especially
268
00:13:39.800 --> 00:13:42.400
if we talk to folks who are not in the profession. They
```

```
269
00:13:42.400 --> 00:13:46.000
have this impression that test pilots are these great pilots
270
00:13:45.100 --> 00:13:48.900
and I have met a lot of great test pods.
271
00:13:48.900 --> 00:13:51.300
In fact, we go to events like this and I said at a table and the
272
00:13:51.300 --> 00:13:54.000
waitress comes around says wow, that's a great pilot. That's a great
273
00:13:54.500 --> 00:13:57.500
pilot. That's a great pilot and turbo, you know a lot of great Pilots,
right? So that's
274
00:14:00.200 --> 00:14:04.500
Because I'm I was never a great pilot. I
275
00:14:03.500 --> 00:14:06.800
am a pilot who is here who still
276
00:14:06.800 --> 00:14:09.200
standing here and can talk about things they did as a pilot
277
00:14:09.200 --> 00:14:12.300
which I consider a plus I was a good
278
00:14:12.300 --> 00:14:16.100
pilot and I think I was a good buy only because I made
00:14:15.100 --> 00:14:18.300
a lot of mistakes. But each one
280
00:14:18.300 --> 00:14:20.900
of those mistakes made me a little bit.
281
00:14:21.700 --> 00:14:25.100
Better so if we have technology in
```

```
00:14:24.100 --> 00:14:27.900
an airplane, that is so powerful.
283
00:14:29.100 --> 00:14:33.000
That it doesn't require it can protect just a basic Good Pilot
284
00:14:32.300 --> 00:14:35.800
like me or maybe even protect a
285
00:14:35.800 --> 00:14:38.300
not so good pilot. Don't you think
286
00:14:38.300 --> 00:14:42.000
that incredible that incredibly powerful technology has
287
00:14:41.500 --> 00:14:44.600
the power to mess with you as well.
288
00:14:44.600 --> 00:14:47.400
If you don't understand it, if
289
00:14:47.400 --> 00:14:50.900
you don't know how to use it if you don't know what
290
00:14:50.900 --> 00:14:52.400
it's supposed to do.
291
00:14:53.300 --> 00:14:55.700
So good technology can be bad.
00:15:01.500 --> 00:15:04.500
Everyone has what it takes to be on
00:15:04.500 --> 00:15:05.200
the team.
294
00:15:06.400 --> 00:15:09.800
I would highly recommend if you were to get a friend request from
295
00:15:09.800 --> 00:15:12.300
either a Mr. F Kruger a Mr.
```

```
296
00:15:12.300 --> 00:15:15.300
Jay Voorhees or Mr. M. Myers that you
297
00:15:15.300 --> 00:15:18.300
swipe left. That's the bad one right swipe left on that. You
298
00:15:18.300 --> 00:15:21.200
don't want those people around there's no good that can come
299
00:15:21.200 --> 00:15:23.500
from having them as part of your team.
300
00:15:25.800 --> 00:15:28.700
But do we actually live in a world where
301
00:15:28.700 --> 00:15:31.500
we can pick and choose who is on our team? Some people
302
00:15:31.500 --> 00:15:34.500
would say? Yes, we have the luxury of doing that and some
303
00:15:34.500 --> 00:15:35.300
maybe not.
304
00:15:36.200 --> 00:15:40.000
But what do you do when you have a person who doesn't have whatever
305
00:15:39.400 --> 00:15:42.200
it is that's required to be
306
00:15:42.200 --> 00:15:45.300
not only an effective and contributing
307
00:15:45.300 --> 00:15:46.800
here, but not to be a dangerous.
308
00:15:47.700 --> 00:15:51.300
Part of that team or that organization. That
```

```
00:15:50.300 --> 00:15:53.600
is a huge cultural challenge.
310
00:15:54.800 --> 00:15:57.400
But our culture says hey, they're bad
311
00:15:57.400 --> 00:15:59.700
people out there. You just got to accept that they are.
312
00:16:00.500 --> 00:16:03.800
So we need to have thought through. How do we deal with
313
00:16:03.800 --> 00:16:05.700
that sort of situation?
314
00:16:09.500 --> 00:16:12.600
Never ever pick the window seat.
315
00:16:16.100 --> 00:16:19.300
Because you may have a vantage point from the
316
00:16:19.300 --> 00:16:22.800
window seat and you may see something from your perspective
317
00:16:22.800 --> 00:16:26.000
that looks really terrible but no one else because
318
00:16:25.200 --> 00:16:28.300
they're not sitting in the windows seat may have
319
00:16:28.300 --> 00:16:29.900
that same perspective.
320
00:16:30.800 --> 00:16:32.900
And then what what do you do?
321
00:16:34.200 --> 00:16:37.300
What is what is our culture tell us to do in that
322
00:16:37.300 --> 00:16:37.500
situation?
```

```
323
00:16:38.400 --> 00:16:41.700
Well, you've got to convince people that there's
324
00:16:41.700 --> 00:16:44.100
something bad out on the wing.
325
00:16:44.900 --> 00:16:45.100
right
326
00:16:46.700 --> 00:16:49.200
They can't see it. They're not in the
327
00:16:49.200 --> 00:16:49.800
right place.
328
00:16:51.300 --> 00:16:54.700
You've been acting a little strange lately. So maybe there's some
challenge
329
00:16:54.700 --> 00:16:57.500
to your credibility. But you've
330
00:16:57.500 --> 00:17:00.200
seen that thing out on the wing and you
331
00:17:00.200 --> 00:17:03.500
need to convince people. So this is kind of like the novo thing
332
00:17:03.500 --> 00:17:06.900
and how do you create an environment where it's
333
00:17:06.900 --> 00:17:10.300
okay to say I saw something scary.
334
00:17:09.300 --> 00:17:13.200
I saw something bad. I
335
00:17:12.200 --> 00:17:16.400
saw something that has me concerned and
```

```
00:17:15.400 --> 00:17:17.400
convince people.
00:17:18.400 --> 00:17:19.100
about that
338
00:17:25.900 --> 00:17:28.800
Beware of the triple dog dare
339
00:17:32.300 --> 00:17:35.500
how many in this room have ever
340
00:17:35.500 --> 00:17:38.400
experienced in any of its many
00:17:38.400 --> 00:17:39.800
forms or shapes?
342
00:17:40.600 --> 00:17:40.900
pressure
343
00:17:43.400 --> 00:17:46.300
so, you know about the Triple Dog.
344
00:17:47.000 --> 00:17:47.300
there
345
00:17:49.900 --> 00:17:50.500
so what do you do?
346
00:17:53.500 --> 00:17:56.800
We'd like to think that we choose to do the right
347
00:17:56.800 --> 00:17:57.100
thing.
348
00:17:58.200 --> 00:18:02.000
Right because the right thing is don't.
349
00:18:03.300 --> 00:18:05.600
```

```
Stick your tongue on the Frozen Pole.
350
00:18:09.400 --> 00:18:10.000
sometimes
351
00:18:11.300 --> 00:18:14.100
for me my ego got in the
352
00:18:14.100 --> 00:18:16.300
way of doing the right thing.
353
00:18:17.400 --> 00:18:20.500
Because I didn't want to seem like I was afraid to
00:18:20.500 --> 00:18:24.000
stick my tongue on the Frozen pole. I thought
355
00:18:23.300 --> 00:18:26.000
that I knew better. I thought that I
356
00:18:26.300 --> 00:18:28.500
was good enough that nothing bad.
357
00:18:29.600 --> 00:18:30.200
would happen
358
00:18:32.200 --> 00:18:35.600
flying Harrier 29 palms and some of you have heard me do this
359
00:18:35.600 --> 00:18:36.400
presentation before.
360
00:18:37.600 --> 00:18:41.100
We're operating at night night. No
361
00:18:40.100 --> 00:18:44.200
moon Starlight conditions on Generation 3
362
00:18:44.200 \longrightarrow 00:18:47.500
night vision goggles. So for those who've been around a while, those are
not very good.
```

```
363
00:18:47.500 --> 00:18:50.200
Those are the classic sort of soda straw. I
364
00:18:50.200 --> 00:18:52.000
can only see here in front of me.
365
00:18:52.600 --> 00:18:55.200
My system on the airplane for the
366
00:18:55.200 --> 00:18:58.900
forward-looking infrared that would show up on the display inside.
367
00:18:58.900 --> 00:19:00.400
The cockpit was degraded.
368
00:19:01.100 --> 00:19:05.000
so it wasn't giving me good visual and because I had degraded
369
00:19:04.200 --> 00:19:08.100
equipment and because it was a really bad condition
370
00:19:07.100 --> 00:19:10.300
night and even though we had
371
00:19:11.100 --> 00:19:14.500
Briefed to what? We thought was a pretty well thought out
372
00:19:14.500 --> 00:19:18.900
plan of how we were going to approach Landings at this expeditionary
Airfield.
373
00:19:17.900 --> 00:19:20.200
Nothing went according
374
00:19:20.200 --> 00:19:23.600
to plan that night where we were going to put marker lights
375
00:19:23.600 \longrightarrow 00:19:26.400
didn't happen and didn't work out the way we had planned how we
```

```
376
00:19:26.400 --> 00:19:29.300
were going to refuel the airplanes and then go out for the second story
00:19:29.300 --> 00:19:32.600
where we're going to practice The Landings we had to turn the taxiway
lights
378
00:19:32.600 --> 00:19:35.400
on and because we couldn't see her way
379
00:19:35.400 --> 00:19:38.300
to get to the fuel pits and we forgot to turn the taxiway lights
380
00:19:38.300 --> 00:19:41.400
off and taxiway lights through all these goggles look just like
381
00:19:41.400 --> 00:19:44.300
the markers we were going to try to put down on the side of the runway
382
00:19:44.300 --> 00:19:47.700
and long story short instead of landing on the runway,
383
00:19:47.700 --> 00:19:50.300
which is the more desirable place to
384
00:19:50.300 --> 00:19:53.400
land jet airplane. I landed on
385
00:19:53.400 --> 00:19:57.300
that space in between the runway and the taxiway in
386
00:19:56.300 --> 00:19:59.500
the desert and the only reason I'm here today to
387
00:19:59.500 --> 00:20:02.100
talk about that event is I happen to touch
388
00:20:03.300 --> 00:20:04.200
The Crossing taxiway
```

```
00:20:04.800 --> 00:20:07.100
So people use that Crossing taxi way to
390
00:20:07.100 --> 00:20:10.300
get from the runway to the taxiway, but they typically use
391
00:20:10.300 --> 00:20:13.200
the full width of it by Crossing in that direction. I used
392
00:20:13.200 --> 00:20:16.700
it the wrong way the short way flying at about 80
393
00:20:16.700 --> 00:20:18.100
miles per hour.
394
00:20:18.900 --> 00:20:21.100
But had it not hit I had I not hit
395
00:20:21.100 --> 00:20:24.100
that then ditch on this side ditch on that side. And somebody else
396
00:20:24.100 --> 00:20:27.700
is standing in front of you today talking I did
397
00:20:27.700 --> 00:20:30.300
that because I did not want to be seen
398
00:20:30.300 --> 00:20:32.700
as the person who couldn't hack it.
399
00:20:33.400 --> 00:20:36.600
I was the weapons and tactics instructor for
400
00:20:36.600 --> 00:20:39.600
the Squadron. I was one of the more experienced people
401
00:20:39.600 --> 00:20:42.000
in the Squadron. I was not going to
402
00:20:42.100 --> 00:20:46.400
be the one who couldn't hack what we were trying to do that night.
```

```
403
00:20:45.400 --> 00:20:48.300
So I let
404
00:20:48.300 --> 00:20:51.700
myself Triple Dog there myself into sticking
405
00:20:51.700 --> 00:20:53.700
my tongue on the pole.
406
00:20:58.200 --> 00:21:01.700
You've got to pay attention to things that happen
407
00:21:01.700 --> 00:21:04.400
and learn lessons.
408
00:21:05.600 --> 00:21:05.900
SO
409
00:21:06.900 --> 00:21:09.600
if I were to say hey.
410
00:21:10.400 --> 00:21:11.800
We're on our ship.
411
00:21:12.800 --> 00:21:15.300
And everything's cool up here on our ship. But there's
412
00:21:15.300 --> 00:21:18.300
a planet here. We want to go down because there's some weird stuff
happening down on the
413
00:21:18.300 --> 00:21:18.400
planet.
414
00:21:19.300 --> 00:21:23.100
So it's going to be me and you and you and that guy
415
00:21:22.100 --> 00:21:24.700
in the red shirt.
```

```
416
00:21:27.200 --> 00:21:30.500
And you don't have to be a Trekkie to know when it's
417
00:21:30.500 --> 00:21:33.500
time to go back to the ship who is not in the
418
00:21:33.500 --> 00:21:35.700
group at that point, right?
419
00:21:36.900 --> 00:21:37.100
so
420
00:21:39.300 --> 00:21:42.500
you would think that the rest of the dudes would
00:21:42.500 --> 00:21:43.600
figure it out, right?
422
00:21:45.300 --> 00:21:48.400
surely someone's paying attention to what's happening
423
00:21:48.400 --> 00:21:49.400
and can go
424
00:21:50.400 --> 00:21:54.000
Oh, that's it. Knee football
425
00:21:53.500 --> 00:21:56.500
in your eye. Hey Bill. Why don't you go on
426
00:21:56.500 --> 00:22:00.600
the thing with the guy in the yellow shirt? Because
427
00:21:59.600 --> 00:22:02.700
he's been paying attention to last
428
00:22:02.700 --> 00:22:05.100
me. I mean, that's kind of one of the
429
00:22:05.100 --> 00:22:08.400
```

```
big reasons. We do things like this. So that
430
00:22:08.400 --> 00:22:11.800
those of us who have gone down to the planet with
431
00:22:11.800 --> 00:22:14.200
the team can tell the rest of the people.
432
00:22:14.200 --> 00:22:17.300
Hey, if you're wearing a red shirt do not
433
00:22:17.300 --> 00:22:18.600
go on the mission.
434
00:22:25.800 --> 00:22:29.100
We need to pay attention and understand the
435
00:22:28.100 --> 00:22:31.500
numbers and we need to understand what the
436
00:22:31.500 --> 00:22:35.300
data is telling us because we know that 99
437
00:22:34.300 --> 00:22:37.800
Red Balloons is
438
00:22:37.800 --> 00:22:40.700
okay, right? It's it when you think of 99 Red
439
00:22:40.700 --> 00:22:43.400
Balloons you get this sort of poppy dancing
440
00:22:43.400 --> 00:22:45.800
happy sort of feeling right?
441
00:22:47.700 --> 00:22:49.000
but when you think of one
442
00:22:50.100 --> 00:22:51.200
red balloon
```

```
443
00:22:52.500 --> 00:22:55.300
not exactly the same feeling so you
00:22:55.300 --> 00:22:58.600
have to understand the numbers you
445
00:22:58.600 --> 00:23:01.300
have to understand the data is one
446
00:23:01.300 --> 00:23:04.300
thing and especially in the world. We live in today. We can
447
00:23:04.300 --> 00:23:08.100
collect and gather so much data.
448
00:23:09.600 --> 00:23:12.100
But do we have the capacity? Do we have
449
00:23:12.100 --> 00:23:12.700
the time?
450
00:23:13.700 --> 00:23:16.500
To analyze all that data and know what
451
00:23:16.500 --> 00:23:17.800
it is telling us.
452
00:23:21.600 --> 00:23:22.600
And the last one?
453
00:23:23.500 --> 00:23:25.800
Do not tempt fate.
454
00:23:28.200 --> 00:23:31.300
Do not say Beetlejuice three times.
455
00:23:34.400 --> 00:23:37.400
We know because someone has told us hey that can
456
00:23:37.400 --> 00:23:40.700
```

```
be hazardous that can be dangerous do
457
00:23:40.700 --> 00:23:43.300
not tempt fate. So I shared a
458
00:23:43.300 --> 00:23:46.200
story The Harrier that night where I'm I did the wrong
459
00:23:46.200 --> 00:23:49.300
thing. I triple dog there myself
460
00:23:49.300 --> 00:23:52.300
into a bad situation A Nearly
461
00:23:52.300 --> 00:23:53.800
fatal situation.
462
00:23:55.400 --> 00:23:58.400
But I learned from that I told you that one of the reasons I consider
myself
463
00:23:58.400 --> 00:24:01.200
a good pilot is because I made mistakes and I figured out from each of
464
00:24:01.200 --> 00:24:04.400
those mistakes how not to do that again and how to be a little bit better
about it
465
00:24:04.400 --> 00:24:06.600
so fast forward a little bit of time.
466
00:24:07.500 --> 00:24:10.500
X35 we're going out. We've just completed
467
00:24:10.500 --> 00:24:11.700
this highly successful.
00:24:12.800 --> 00:24:13.200
mission
469
00:24:14.200 --> 00:24:17.300
```

```
and we had to brief a bonus. Okay. We just did all
470
00:24:17.300 --> 00:24:20.200
this cool stuff. Now we're gonna do this bonus. We're gonna go out and do
471
00:24:20.200 --> 00:24:23.900
vertical takeoff with the airplane was not a requirement for program
472
00:24:23.900 --> 00:24:27.400
was not a requirement for the demonstration, but it
473
00:24:26.400 --> 00:24:29.300
was something that Lockheed knew
474
00:24:29.300 --> 00:24:32.000
that their competitor probably couldn't do with their airplanes so
475
00:24:32.600 --> 00:24:35.600
could help and give a little bit of competitive advantage in
476
00:24:35.600 --> 00:24:38.100
something. That was Loosely called a fly off between the two
477
00:24:38.100 --> 00:24:38.400
airplanes.
478
00:24:39.300 --> 00:24:42.800
And in the brief, they said you when attempting
479
00:24:42.800 --> 00:24:45.300
this vertical takeoff because you will be light on gas
480
00:24:45.300 --> 00:24:48.800
are going to go up like a champagne cork now. I'm
481
00:24:48.800 --> 00:24:51.000
a marine every now and then I have been at a party
482
00:24:51.100 --> 00:24:54.300
```

```
where Sam I can't afford champagne, but I've been at a party where
champagne has been
483
00:24:54.300 --> 00:24:57.300
served and I know that analogy. I know what champagne Court going up
exactly
484
00:24:57.300 --> 00:25:01.000
looks like when I Advance the power in that airplane, we
485
00:25:00.100 --> 00:25:01.600
went sideways.
486
00:25:03.700 --> 00:25:03.800
now
487
00:25:04.800 --> 00:25:07.700
not been to a lot of parties, but I've never seen a champagne cork
488
00:25:07.700 --> 00:25:10.200
come out of the bottle and go sideways. I've only ever seen
489
00:25:10.200 --> 00:25:13.400
it go up. It did not go according to plan.
490
00:25:14.500 --> 00:25:17.500
So control them says give us a minute. We've looked
491
00:25:17.500 --> 00:25:20.700
at all the data. Everything's fine. You are cleared to try again. I look
492
00:25:20.700 --> 00:25:22.000
in my airplane. There's no bad lights.
493
00:25:23.400 --> 00:25:23.900
All good.
494
00:25:25.500 --> 00:25:29.000
Don't tempt fate nothing about
495
00:25:28.200 --> 00:25:32.400
```

```
what just happened was what we talked about. Nothing about
496
00:25:32.400 --> 00:25:35.600
what just happened was what was supposed to happen. Nothing about
497
00:25:35.600 --> 00:25:38.500
what just happened was modeled or
498
00:25:38.500 --> 00:25:41.100
predicted. So I said no we are done for the
499
00:25:41.100 --> 00:25:42.900
day until we figure this out.
500
00:25:44.600 --> 00:25:48.300
So that's my thing. Look at all of these things culture.
501
00:25:49.400 --> 00:25:50.500
can do to make us
502
00:25:51.500 --> 00:25:52.000
safer
503
00:25:52.600 --> 00:25:54.300
You just have to pay attention.
504
00:25:55.300 --> 00:25:56.800
And I believe you with that.
505
00:25:58.400 --> 00:25:59.800
May the fourth be with you.
506
00:26:01.800 --> 00:26:06.200
Thanks. We'll do
507
00:26:06.200 --> 00:26:06.900
questions on the panel.
```