SOMETIMES “AH-HA” IS A FOUR-LETTER WORD

JIM SANDBERG, SETP (F)
The theme of the workshop is

“Ah-hah moments in flight test: discovery and close calls - what we learned and the resulting tactics, techniques and procedures to test safely.”
SOMETIMES “AH-HA” IS A FOUR-LETTER WORD
SOME TIMES IT’S GOOD:
SOME TIMES IT’S GOOD:

SIERRA HOTEL
SOME TIMES IT’S BAD:
SOME TIMES IT’S BAD:

$#!+
SOME TIMES IT’S REAL:
SOME TIMES IT’S REAL:

TINS
AND SOME TIMES IT AIN’T:
AND SOME TIMES IT AIN’T: RUSM?
SOMETIMES “AH-HA” IS A FOUR-LETTER WORD
F-18A HIGH AOA TESTING
“Sooner or later, programs need an excuse to do the right thing...”

F-18 HIGH AOA TESTING

F/A-18E/F SPIN TESTING
Upright Spin, 120 deg/sec, Left

3 Tank Interdiction Loading

Flight 266, Run 28, 10 July 98

Pilot: CDR Niewoehner
AH-HAs

• Spin it first on purpose  (F-18)
AH-HAs

• Airshows are VERY DANGEROUS! (F-20)
AH-HAs

• Test engines in multi-engine airplanes (YF-23)
AH-HAs

• FBW *should* be different (B-2)
F/A-18E/F VMCA

F-18E
Vmca Testing

F/A 18 E1
Simulating 14 AOA/
Max A/B Off Cat

4 Drops + Buddy Store
AH-HAs

- Stand on your boss’s desk (F/A-18E/F)
Fast Carrier - 1995
F-35B IST (2011)
AH-HAs

• Make it easy = make it safe (F-35B)
AH-HAs

- Spin it first on purpose (F-18)
- Airshows are **VERY DANGEROUS!** (F-20)
- Test engines in multi-engine airplanes (YF-23)
- FBW *should* be different (B-2)
- Stand on your boss’s desk (F/A-18E/F)
- Make it easy = make it safe (F-35B)
QUESTIONS?

COMMENTS?