416th Flight Test Squadron

Lt Col Scott Fann
GPF CTF Director
416 FLTS/CC
Global Power Fighters (& Trainers)
Overview

• Mission
• Aircraft
• Flight Test Basics
  • Flight Sciences
  • Weapons Integration
  • Sensors
  • Mission Systems
• Support & Training
Mission

CTF (Combined Test Force) Mission is:

Forge Global Power Fighter technologies and capabilities for U.S and Allied Air Forces

Our Vision is:

Recognized world authority for end-to-end Global Power Fighter test
Aircraft & Missions

- **F-16**
  - Active Duty
  - Guard
  - Reserve
  - Foreign Military Sales (FMS)
    - EPAF
    - Morocco
    - Iraq
    - Taiwan
    - South Korea
    - Singapore

- **F-15**
  - Various models and programs

- **T-38C**
  - USAF advanced fighter/trainer

- **T-6A**
  - USAF primary trainer

- **Light Attack**
  - Experimental light fighter

- **T-X**
  - New advanced fighter/trainer
Flt Test Basics: Flight Sciences

• **AGCAS**
  – Allowing the jet’s brains help save lives!

• **Structures**
  – Old airplanes, new parts and manufacturers
Flt Test Basics: Flight Sciences

- Hi Angle of Attack (fancy name for “out of control”)
  - New wpns, new software, same flying/recovery qualities?
Flt Test Basics: Weapons Integration

- Missiles
  - Radar regression
  - Helmet mounted sight
- Bombs
  - Foreign and Domestic
- Gun
  - Automation projects
Flt Test Basics: Sensors
(Advanced Targeting Pods, Radars)

- **New Hardware**
  - AESA radar
- **Significant New Capabilities**
  - Tgt Pod Moving Target Capability
  - 2-way Video Data Link
Flt Test Basics: Mission Systems

- Integrating new sensors, weapons, displays, human factors for combat effectiveness
Major Support and Training Projects

- F-35
- F-22
- B-2
- Navy
- KC-46
Questions?
1. REPORT DATE (DD-MM-YYYY) | 2. REPORT TYPE | 3. DATES COVERED (From - To)
Date of Approval (when PA # issued) | 416 FLTS Overview Briefing slides | 2/28/19

4. TITLE AND SUBTITLE
CTF Overview Brief 2019

5a. CONTRACT NUMBER | 5b. GRANT NUMBER | 5c. PROGRAM ELEMENT NUMBER

6. AUTHOR(S)
SCOTT S. FANN, Lt Col, USAF
Commander, 416th Flight Test Squadron

5d. PROJECT NUMBER | 5e. TASK NUMBER | 5f. WORK UNIT NUMBER

7. PERFORMING ORGANIZATION NAME(S) AND ADDRESS(ES) AND ADDRESS(ES)
416th Flight Test Squadron
245 South Flight Line Rd. Bldg. 1199
Edwards AFB, CA. 93524

8. PERFORMING ORGANIZATION REPORT NUMBER
412TW-PA-19088

9. SPONSORING / MONITORING AGENCY NAME(S) AND ADDRESS(ES)
412th Test Wing
195 E Popson Ave
Edwards AFB CA 93524

10. SPONSOR/MONITOR’S ACRONYM(S)
N/A

11. SPONSOR/MONITOR’S REPORT NUMBER(S)

12. DISTRIBUTION / AVAILABILITY STATEMENT
Approved for public release A: distribution is unlimited.

13. SUPPLEMENTARY NOTES
Open/Promotional

14. ABSTRACT
The CTF Overview brief 2019 is to be used for off-base briefs (for example, honorary commander events) and visitors to the 416 FLTS such as a school field trip. This along with the 416 FLTS Highlights Reel 2019 will be used together for the briefing

15. SUBJECT TERMS
CTF Overview Brief 2019

16. SECURITY CLASSIFICATION OF:
   a. REPORT | b. ABSTRACT | c. THIS PAGE
   Unclassified | Unclassified | Unclassified

17. LIMITATION OF ABSTRACT
   None

18. NUMBER OF PAGES
   13

19a. NAME OF RESPONSIBLE PERSON
   412 TENG/EN (Tech Pubs)

19b. TELEPHONE NUMBER (include area code)
   661-277-8615