



Air Force Aerial Targets October 2012 NDIA Brief Orlando, FL

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Aerial Targets Branch (AFLCMC/EBYA)
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System Description

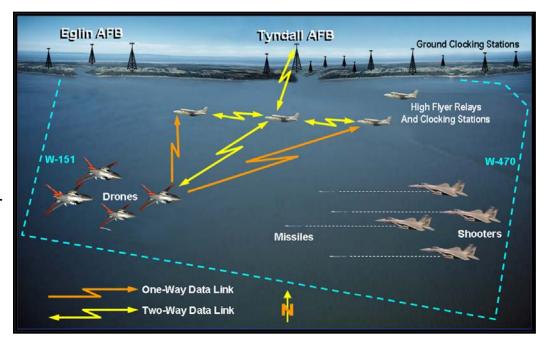
- Product Groups
 - Subscale Aerial Targets
 - Full-Scale Aerial Targets
 - Target Control Systems (TCS)
- Summary



System Description



- Provide "Presentations" of Realistic Threat Representative Systems in Support of Joint Requirements:
 - Lethality Testing Required for New or Improved Weapon Systems Prior to Production (10 USC 2366)
 - USAF Air-to-Air Weapon System
 Evaluation Program
- Validate Performance of DoD Airto-Air Missiles and Aircraft Systems
 - Emulates Performance, Signatures and Countermeasures (Infrared and Electronic Attack)



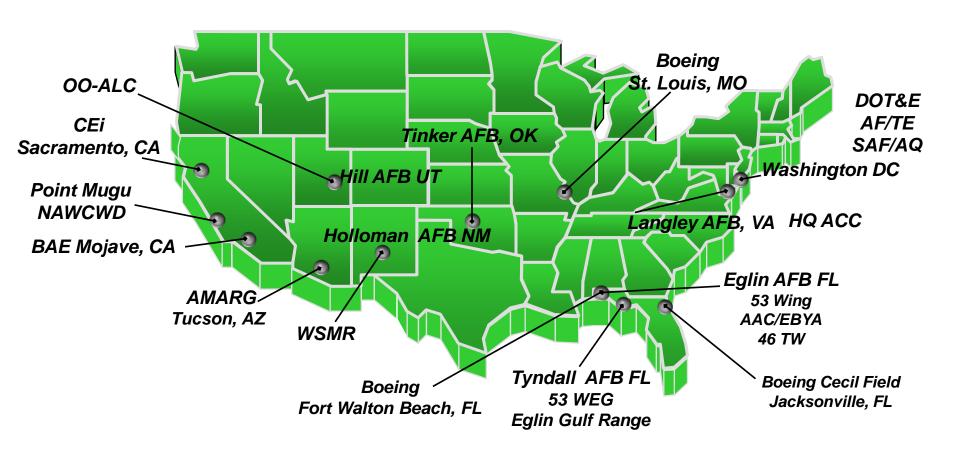
Aerial Target "Presentations" Include:

- The Target Itself
- Threat Representative EA/IR Payloads
- Target Control System (TCS)
- Missile Scoring
- Launch, Recovery, Maintenance & Repair of Target



USAF Aerial Targets Stakeholders

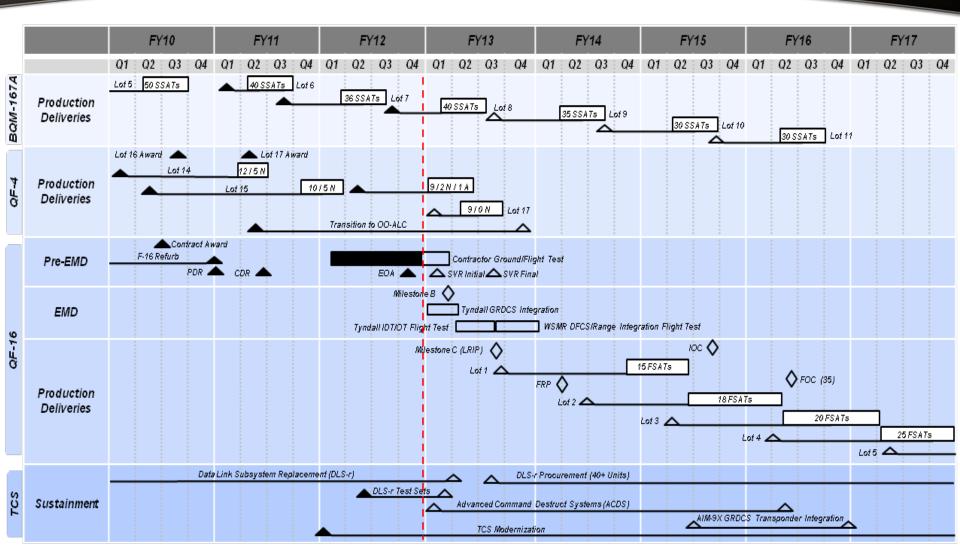






Program Schedules









- System Description
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AFSAT Subscale Aerial Target

Ms. Melody Rodgers, Program Manager











Prime Contractor: Composite Engineering, Inc. (CEi)

ACAT III Contract Type: FFP

Description:

- An Affordable, All-Composite Airframe
- Flies Faster/Slower, Higher/Lower, and Provides 3x+ More Presentations Than Legacy Subscale Targets
- Program in Production/Sustainment Phase
- Operates via Ground Based Target Control System
- Subsonic, Relatively Heavy Payload Capability



- Current Program Focus
 - Sustainment Planning Through FY25
- Awarded Lot 9 Production
 - 265/318 Targets Delivered to Date Ahead Of Schedule
- FY12 Operations
 - Launches: 107
 - Presentations: 352
 - Missile Shots: 280
- Installed 6 LRSs at Tyndall 3 Available for TBD Location
- Awarded IDIQ Spares Contract Sep 2012



FY13 Road Ahead



- Continue Production
 - Lot 10 Award ~Jan 2013 ~24 Targets
 - Final Lot Under Current Contract
- Planning for Lot 11-15 Production Contract
 - RFP Release ~Feb 2013
- Fielding Decision Launch Rail System ~Mar 2013

Current Procurement Quantity is 800 AFSATs





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QF-4 Full-Scale Aerial Target

Capt Jacob Habrun, Program Manager









Prime Contractor: BAE Systems, CA

ACAT III Contract Type: FFP

Description:

- Full-Scale Aerial Target for Threat-Representative Weapon System Evaluation
- Meets USAF, USA, USN, Allied Test Requirements
- Droned, Refurbished F-4 Aircraft Out of AMARG
- Program in Full Rate Production
- Operates via Ground-Based Target Control System
- Supersonic, High-G, Heavy Payload Capability
- Provides 3rd Generation Threat Representation



QF-4 2012 Accomplishments



- Bridging the Gap Until QF-16 IOC 73 QF-4s On Hand
 - Sustainment Planning Through 2017
- Awarded Last Production Lot (Lot 17) Feb 11
 - Delivered 303/317 QF-4s To Date Only 14 To Go!
- FY12 Operations
 - 1109 Manned Missions
 - 44 NULLOS
 - 20 Kills



End of Program Challenges



- Regen/Repair Challenges With Older QF-4C Aircraft
- Post Production Planning
 - Production Deliveries Complete 1QFY14
 - Sustainment Support In Place
 - Post Production CLINs for EN/LG Reach-back
- QF-4 Transition to OO-ALC 1QFY14
 - DSM Function Complete After Last Delivery 1QFY14



QF-16 Full-Scale Aerial Target

Mr. Kenneth Hislop, Program Manager





Prime Contractor: Boeing Company, St. Louis, MO

ACAT: II Contract Type: FPIF / FFP

Description

- Next Generation Full-Scale Target for Threat-Representative Testing & Weapon System Evaluation
- Provides 4th Generation Threat Representation
- Meets USAF, USA, USN, Allied Test Requirements
- Refurbished F-16 Aircraft With Drone Mod Installed
- Supersonic, High-G, Heavy Payload Capability
- Operations Via Ground Based Target Control System



QF-16 Program Snapshot



- Production Quantity 210 QF-16s (AF Only)
 - Production Options in Place for Lot 1-4
- DT/OT Oversight Program
- Six QF-16s Undergoing CT&E at Cecil Field Going Well
- Concurrent Subsystem Qual Tests Underway
- Upcoming Program Milestones:
 - Milestone B 1QFY13
 - Milestone C 3QFY13
 - IOC 3QFY15
 - FOC 2QFY16

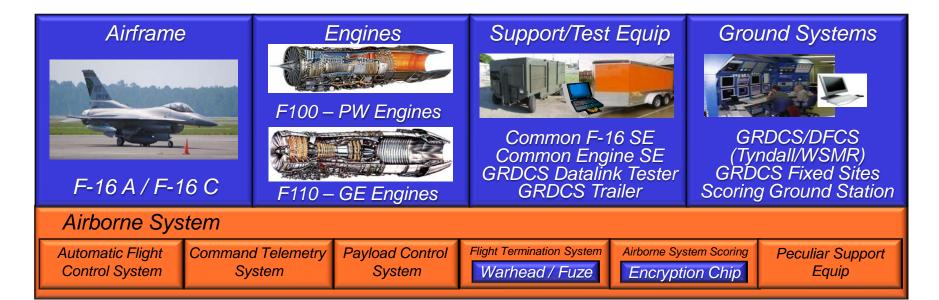


QF-16 System Integration



Contractor Developed

(33% of \$)



QF-16 System Integration:
Contractor Drone Peculiar Equipment w/ GFP

(67% of \$)

Government Furnished





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Target Control System (TCS)

TARGETS BRANCY

Ms. Kathy Fuszner, TCS Program Manager



Description

- > Tracks/Controls 4 Targets & 10 Aircraft/Missiles
- Provides Command Destruct of Targets and Missiles
- Compatible with QF-4, AFSAT (QF-16 Integration Ongoing)
- System Developed by 96 TW, Operated by 53 WEG



Ranges





Tyndall AFB / Eglin AFB

- Main Mission Ops (53 WEG)
- GRDCS Sustainment & Dev (96 TW)
- Target & Target Control Acq (AFLCMC/EBYA)

Holloman AFB / WSMR, NM

Support FSAT Ops (53 DET)
 Utilizing Drone Formation
 Control System (DFCS) at
 White Sands

Utah Test & Training

Support Combined Combat
 Archer and Combat Hammer
 Evaluation (53 WEG)



Current TCS Efforts



Data Link System Replacement (DLS-r)

- Provides Data Relay for Remote Drone Ops
- Replacement Reduces Risk for Test/Trng Programs
- Qual Testing Underway
- DT/OT Starts Jan 2013
- IOC 4QFY13

DLS-r



DLS

Platform Specific Efforts

- v58 SW Fielded Dec 2012: AFSAT & QF-4
- v59 SW Adds QF-16 Capability for EMD







TCS Upgrades

- Replacing Obsolete Proprietary Systems w/ Open Standards
- Modern Technology Display
- AIX to LINUX Conversion
- CDS (Analog) to Advanced CDS (Digital)





Mobile TCS Trailer/Towers



- Track and Control Capability at Cecil Field for Contractor Ground/Flight Test
- Remains at Cecil for Production





- Technology Refresh
- TCS Tech Data Package (Drawings/Manuals)

Other TCS Sustainment









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Summary



AFSAT Workhorse for Warfighter

- Supported 49 Operational Missions in FY12
- Next Step: Award Lot 10 in FY13

QF-4 Production Deliveries End 1QFY13

- Program Transition to Logistics Center for Sustainment
- Planning for Availability Through 2017

QF-16 Preparing for MS B

First Production Delivery Late FY14

TCS

- Modernization Underway
- Backbone for Target Platforms





Questions?

