

United States Air Force





Air Force Aerial Targets October 2007 NDIA Brief San Diego, CA



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Overall Classification of This Briefing is Unclassified and Cleared by AAC/PA No. 10-25-07-624







• Purpose

- System Description
- Organizational Structure
- Product Groups
 - Full-scale Aerial Targets
 - Subscale Aerial Targets
- Summary





- Provide "Presentations" of Realistic Threat Representative Systems (Aircraft and Cruise Missiles) in Support of the Following:
 - 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 Ground-to-Air and Airto-Air Missiles and Aircraft Systems
 - Emulates Performance, Signatures and Countermeasures (Infrared and Electronic Attack)







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- Aerial Target "Presentations" include:
 - The Target Itself
 - Target Control System
 - Gulf Range Drone Control System (GRDCS)
 - Launch, Recovery, Maintenance & Repair of Target







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691st Armament Systems Squadron





Develop, Procure and Sustain Aerial Targets and Related Systems

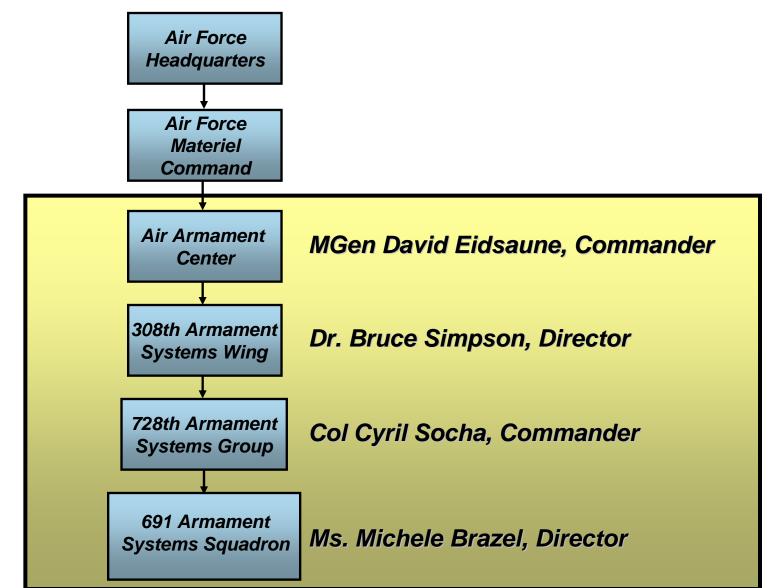
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Where We Fit In





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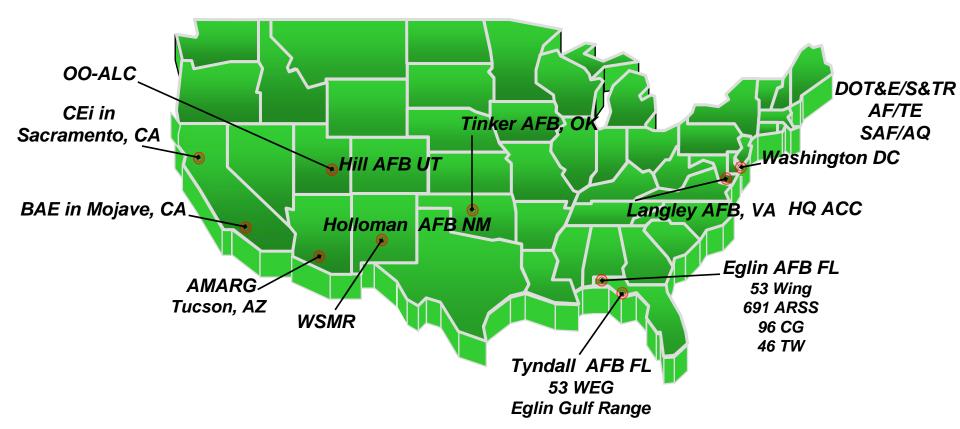
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USAF Aerial Targets Stakeholders





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QF-4 Full Scale Aerial Target Program Manager: Ms. Lee A. Neugin









Description

- Full Scale Aerial Target for Threat-Representative Weapon System Evaluation
- > Meets USAF, Army, Navy, Allied Test Requirements
- Droned Refurbished F-4 Aircraft Out of AMARG
- Program in Full Rate Production
- Prime Contractor is BAE Systems, Mojave, CA

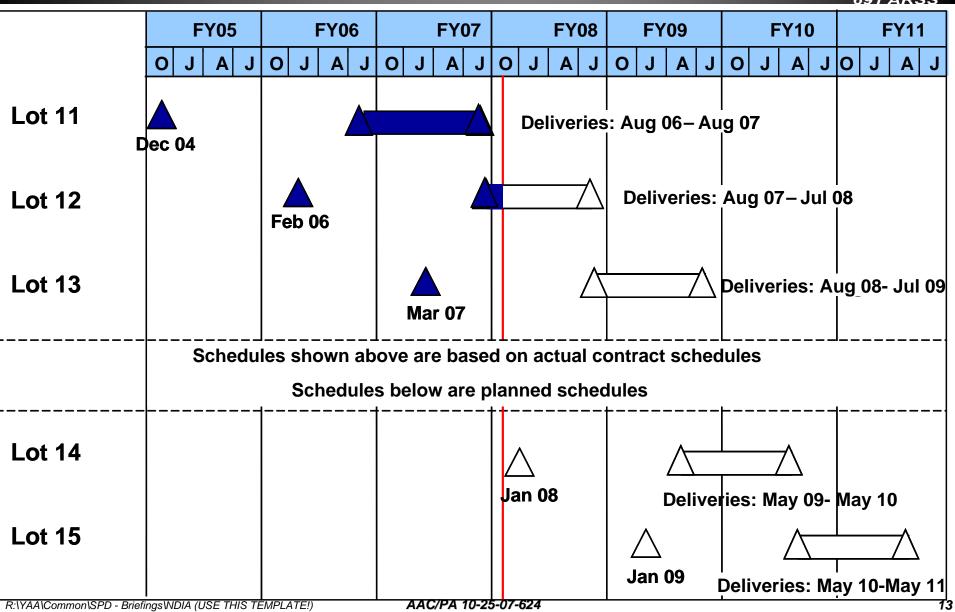
Key Features

- Satisfies Title 10 "Live Fire/Lethality"
- Operates via Ground-Based Target Control System
- Supersonic, High-G, Heavy Payload Capability
- Provides 3rd Generation Threat Representation



QF-4 Master Schedule









- Completed Lot 11 and Began Lot 12 Deliveries
 - Total of 226 QF-4s Delivered to Date
- Conducting Government Ground Test of QRF-4C Model
 - Provides Three Additional Years Of Fullscale Capability
 - Projecting 17 Production Lots vice Current 15 Lots
- Supported 42 NULLO Test Missions in FY07
 - 61 Missiles Fired
 - 8 Kills





- Lots 14 17 Will Consist of RF-4C Models Only
- Last QF-4 Delivery Planned For FY13
- Sufficient Inventory through FY15
 - Assumes 16 20 QF-4 Kills Per Year
 - Bridges Ops Capability Until QF-16 Deliveries



QF-16 Air Superiority Target Program Manager: Mr. Ken Hislop

Description

- Fullscale Target for Threat-Representative Weapon System Evaluation
- > Meets USAF, Army, Navy, Allied Test Requirements
- Program in Pre-System Development and Demonstration Phase
- Droned Refurbished F-16 Aircraft
- Risk Reduction in Progress: Airframes, Engines & Target Control System

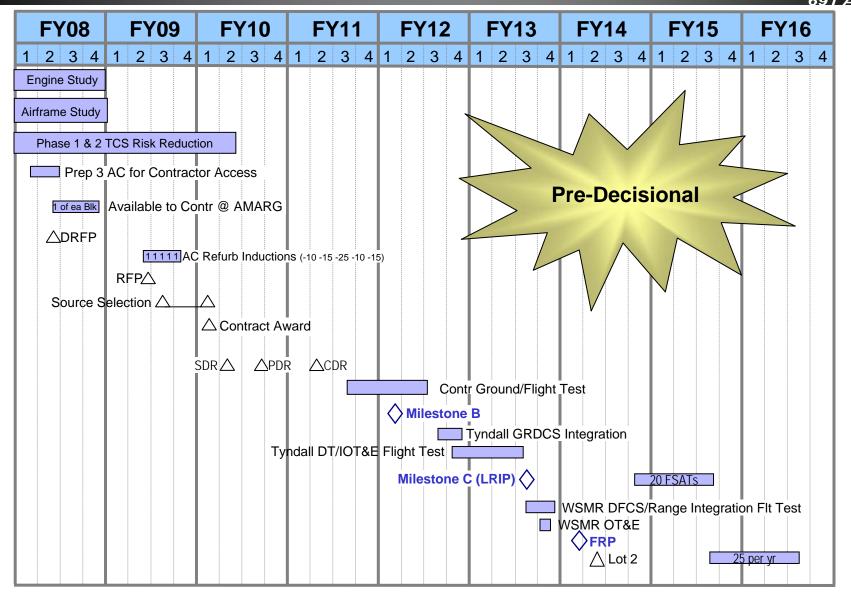
Key Features

- > Follow on for QF-4 Program: Supersonic, High-G, Heavy Payload Capability
- > Satisfies Title 10 "Live Fire/Lethality"
- Provides 4th Generation Threat Representation



Proposed QF-16 Schedule FY08-FY16





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- Risk Reduction Activities: FY07 09
 - Focus on Government Furnished Equipment
- F-16 Airframe Study
 - Assess Condition and Availability of Block 10, 15, and 25s
 - Cost of Refurbishment
- Engine Study
 - OSS&E Impacts to Manned and Unmanned Capability
 - Assesses Multiple F100 Engine Configurations
- Target Control System (TCS)
 - Data Link Tester Development
 - Integrate Ground S/W with Contractor-Developed Airborne S/W
 - Portable TCS For Contractor Development Support





Pre-Decision

- Provide Potential Primes Access to Airframes
 - Three F-16s Available at AMARG in Late FY08
 - Blocks 10, 15 and 25
 - Government Crew Chief Supervises Visits
 - Program Office Set Ups Visitation Schedule
 - Aircraft Will Be On Ground Power For Analysis
 - Gun and Ammo Canister Will Be Removed
- Multiple Visits May Be Permitted







- FY09 PBR Funding Approved
 - Air Force and Navy Funded
- 1st Industry Day Complete
 - 63 Industry Attendees Representing 23 Companies
- Draft RFP Due Out in Mar 08
 - Key Focus For Industry Day II
- 2nd Industry Day Planned 3QFY08
 - Increase Use of One-on-One Sessions
- RFP Release in 2QFY09
- Contract Award in 1QFY10

Acquisition Strategy not yet Approved – Information Regarding Future Events / Strategy is Tentative







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AFSAT Sub Scale Aerial Target

Program Manager: Mr. Jim Cornwell



- > An Affordable, All-Composite Airframe
- Flies Faster/Slower, Higher/Lower, and Provides 3x+ More Presentations Than Legacy USAF Subscale Targets
- Program in Initial Production Phase
- Prime Contractor is CEi, Sacramento, CA

Key Features

- Satisfies Title 10 "Live Fire/Lethality"
- Operates via Ground Based Target Control System
- Subsonic, Relatively Heavy Payload Capability

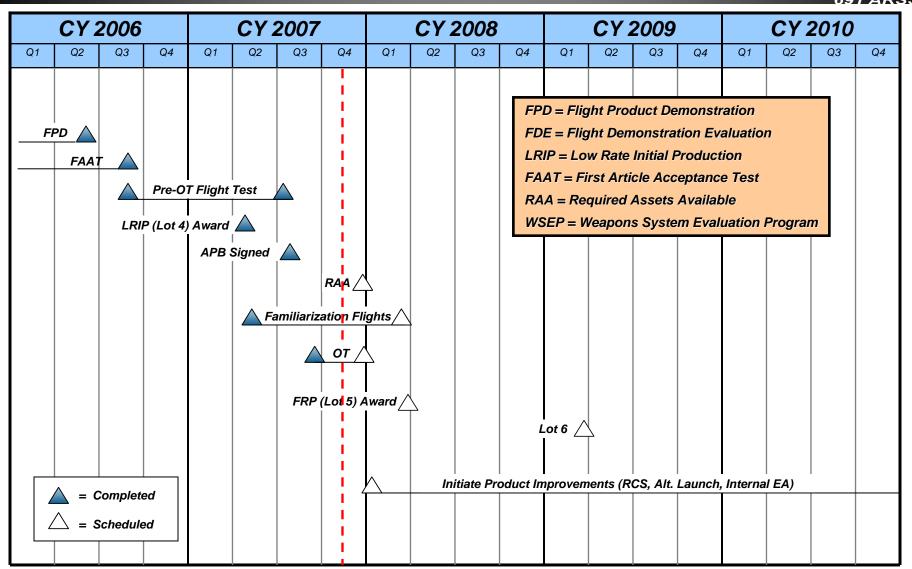






AFSAT Master Schedule









- Completed Pre-Operational Testing
- Supported 21 Familiarization/Weapon System
 Evaluation Program Missions
 - 114 Presentations Achieved with 103 Missiles Fired
 - 5 Kills
- Currently in Operational Testing
 - Estimate Completion by Nov 07
- Full Rate Production Decision Planned NLT Mar 08







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- QF-4 Production Planned Through FY13 Using RF-4C Model
 - Inventory Depletion Expected in FY15
- QF-16 Strategy Underway
 - Draft Request for Proposal (RFP) Planned 2QFY08
 - Production Deliveries Planned to Begin in FY15
- AFSAT OT Testing Complete / Awaiting OT Final Report
 - Next Step to Execute Lot 5 Award 2QFY08