



United States Air Force



Air Force Aerial Targets

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NDIA Brief

San Antonio, TX

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Director

691st Armament Systems Squadron

Eglin AFB, FL



Overall Classification of This Briefing is Unclassified and Cleared by AAC/PA No. 09-26-08-429



Overview



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- **System Description**
- **Organizational Structure**
- **Product Groups**
 - **Subscale Aerial Targets**
 - **Fullscale Aerial Targets**
- **Summary**

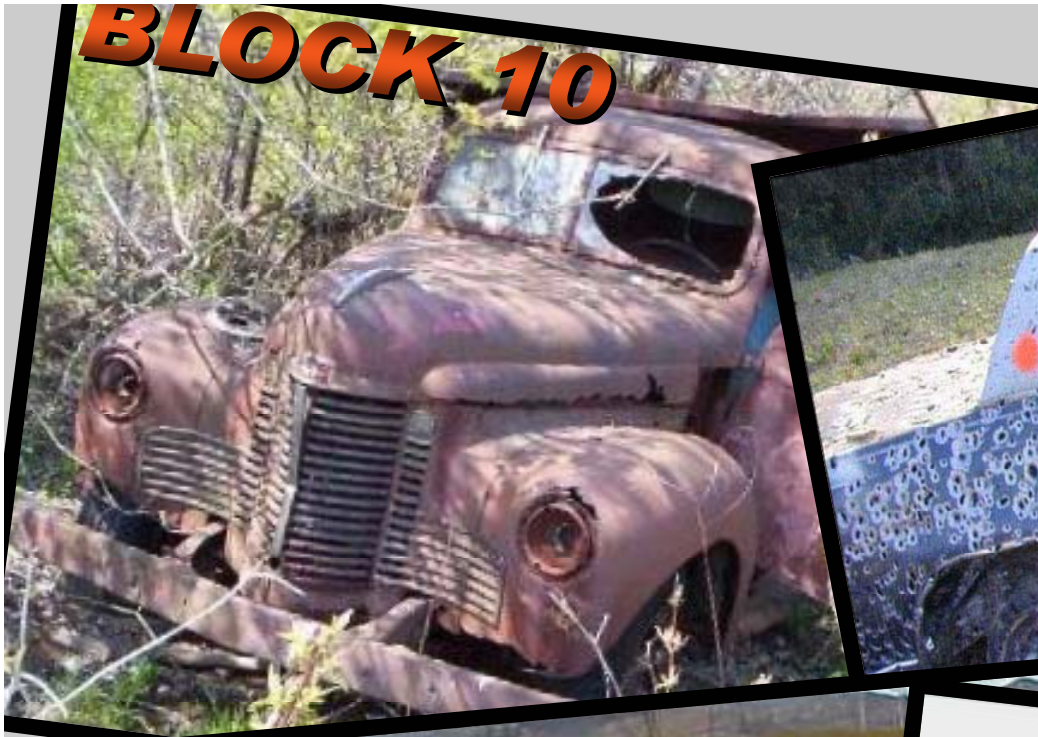


Aerial Targets



... IT'S JUST LIKE BUYING A CAR!

BLOCK 10



BLOCK 15



BLOCK 25



BLOCK 30



AERIAL TARGETS CAR ANALOGY

SYSTEM REQUIREMENTS

Select and
Remove Retired
Vehicles From
Storage

Must be Compatible
with
Ground Based
Infrastructure

Add Remote
Control
Capability!

Allow for
Imaginative
Next
Generation
Growth
Potential

Add Engines

Provide Maximum
Vehicle Performance
in the Intended
Operational
Environment

Affordable
Operation

Safety
Approved

Government
Integrates
Engine and
Refurbishes
Vehicle

Representative of
4th Generation
Threat

Integrate Multiple
Use
Payload Capability

Deliver User
Expectations

Provide
Refurbished
Vehicles to
the Contractor

... AND WHEN IT'S PERFECT...



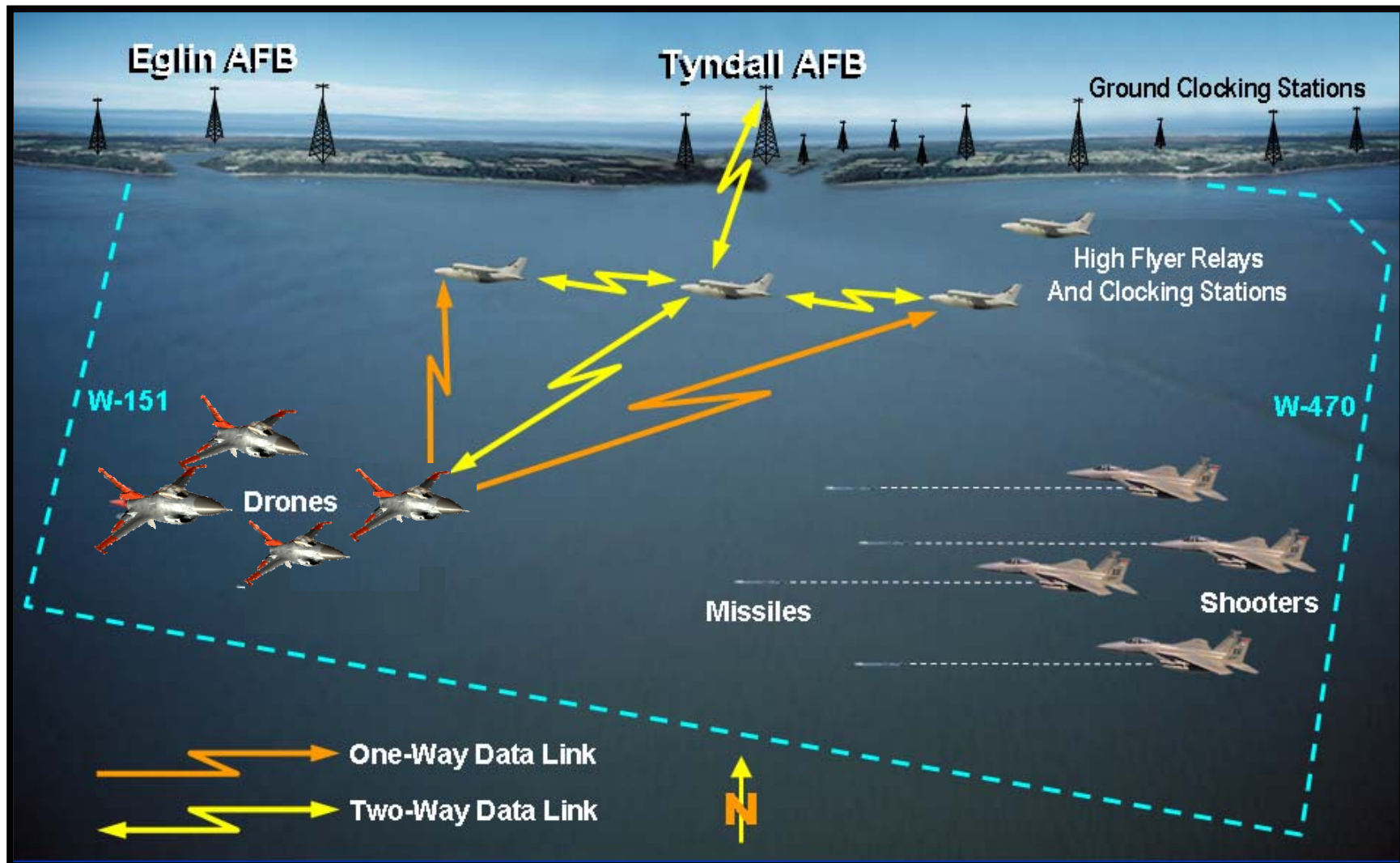
... LET'S BLOW IT UP!



Operational View



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Where We Fit In



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Air Force Headquarters



Air Force Materiel Command



Maj Gen David Eidsaune, Commander
Air Armament Center



Dr. Bruce Simpson, Director
308th Armament Systems Wing



Col Cyril Socha, Commander
728th Armament Systems Group



Ms. Michele Brazel, Director
691 Armament Systems Squadron



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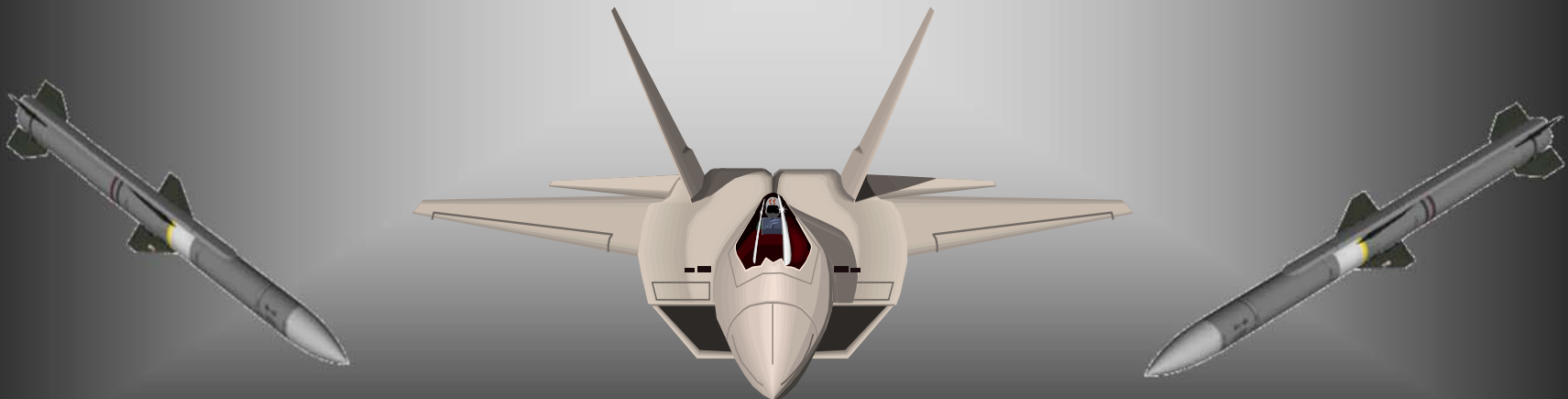


Who Are Our Customers?



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MISSILE DEVELOPMENT PROGRAMS AND TESTERS



SHOOTERS • OPERATORS • MAINTAINERS

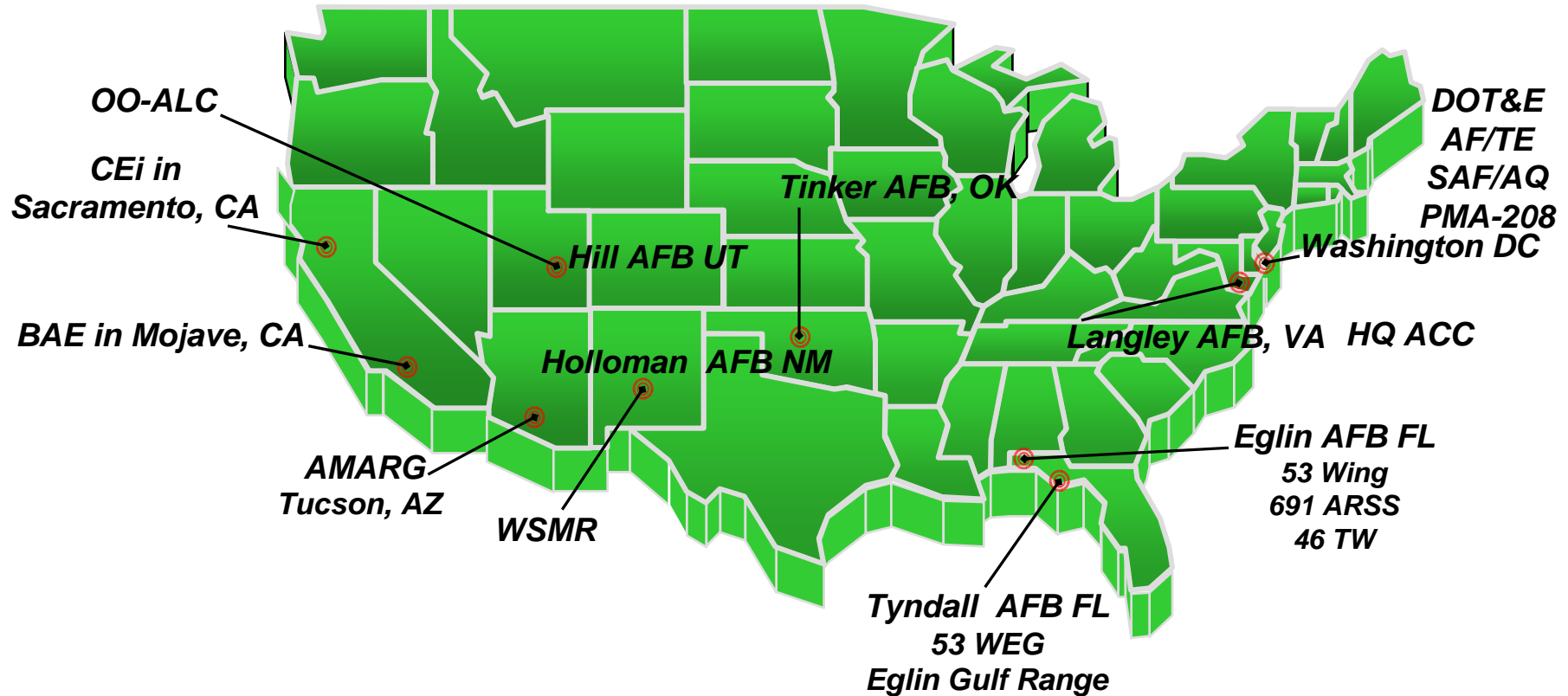
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USAF Aerial Targets Stakeholders



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AFSAT Sub Scale Aerial Target

Program Manager: Mr. Jim Cornwell



Description

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

Key Features

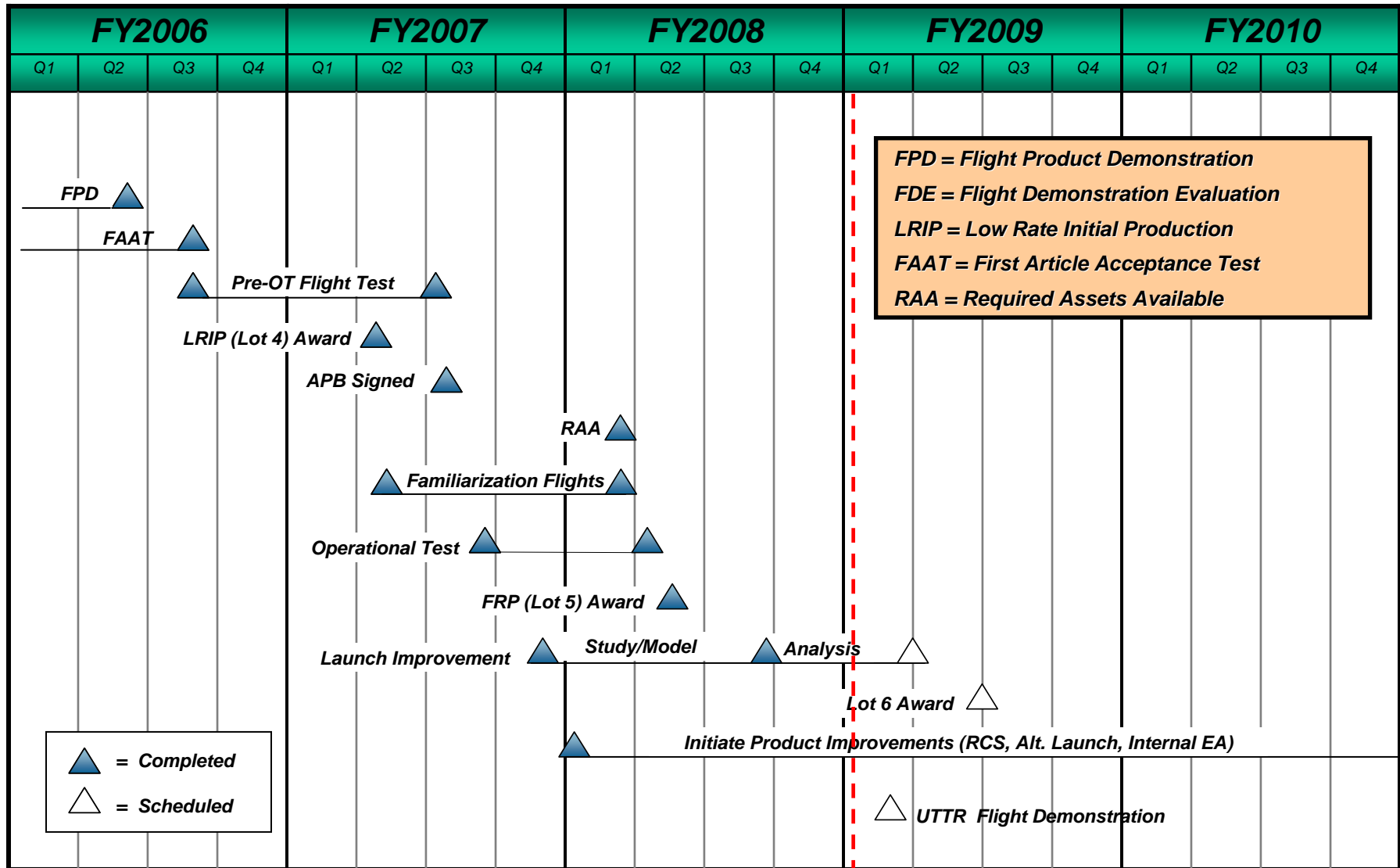
- **Supports Title 10 "Live Fire/Lethality"**
- **Operates via Ground Based Target Control System**
- **Subsonic, Relatively Heavy Payload Capability**



AFSAT Master Schedule



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AFSAT FY08 Accomplishments



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- **Completed Operational Testing**
- **Received ACC Fielding Decision**
- **Obtained Full Rate Production Decision**
 - **Lot 5 Contract Awarded**
- **100th Target Delivered**
- **42 WEG Operational “Hot” Missions Supported**
 - **73 Launches**
 - **243 Presentations**
 - **177 Missile shots**
- **UTTR Demo Planned Nov 08**



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

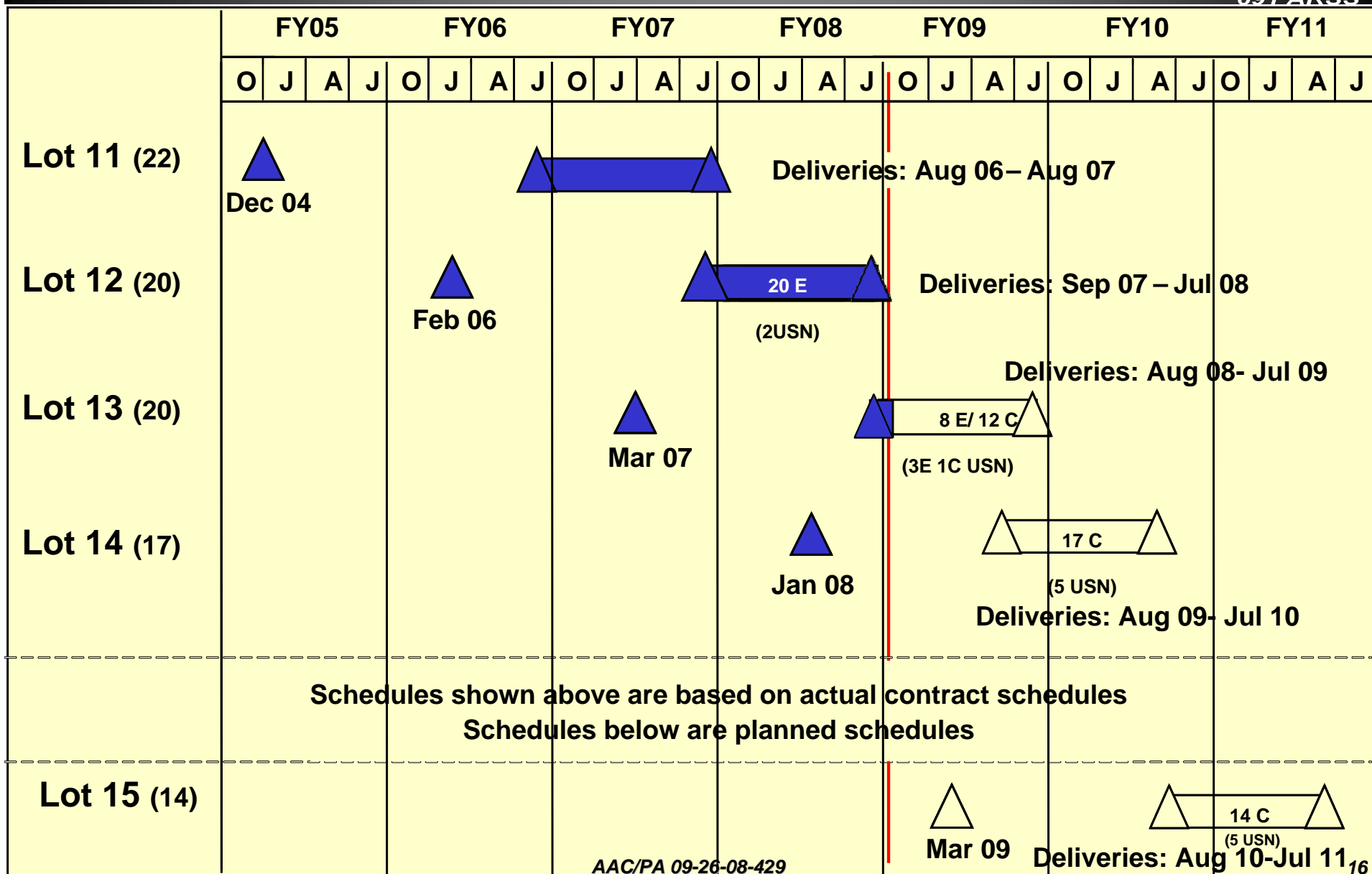
- **Supports Title 10 "Live Fire/Lethality"**
- **Operates via Ground-Based Target Control System**
- **Supersonic, High-G, Heavy Payload Capability**
- **Provides 3rd Generation Threat Representation**



QF-4 Master Schedule



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QF-4 FY08 Accomplishments



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- **Completed Lot 12 -- Started Lot 13 Deliveries Oct 08**
 - **Total of 244 QF- 4s Delivered to Date**
- **Awarded Lot 14 Contract Jan 08**
- **Transitioned from F-4E to RF-4C Production in Jul 08**
 - **Provides Three Additional Years Of Full Scale Capability**
- **Lots 1-14 on Contract with 1 Option Available (Jan 09)**
 - **Two Additional Lots (16 & 17 are planned)**
- **Supported 43 NULLO Test Missions in FY08**
 - **93 Missiles Fired / 18 Kills**



QF-16 Air Superiority Target

Program Manager: Mr. Ken Hislop

Description

- **Full Scale 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**

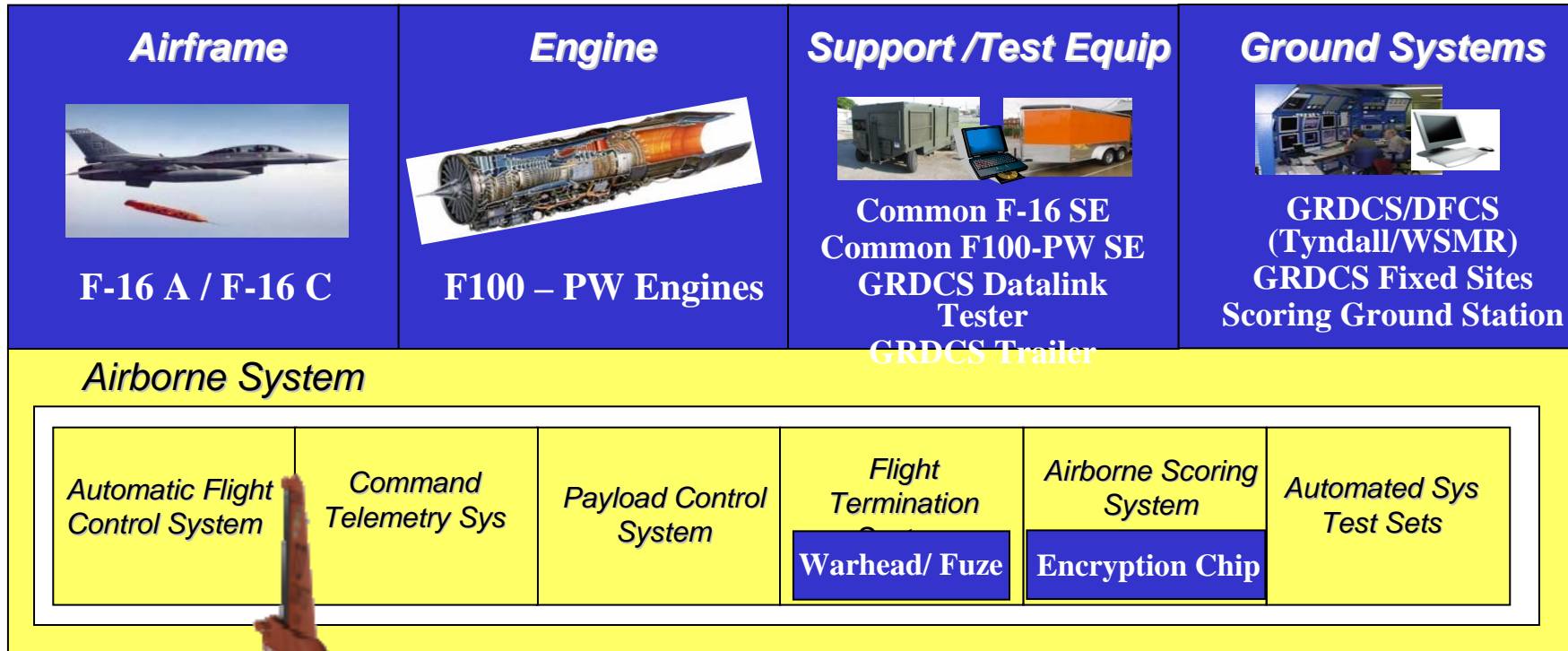
Key Features

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



QF-16 AST System

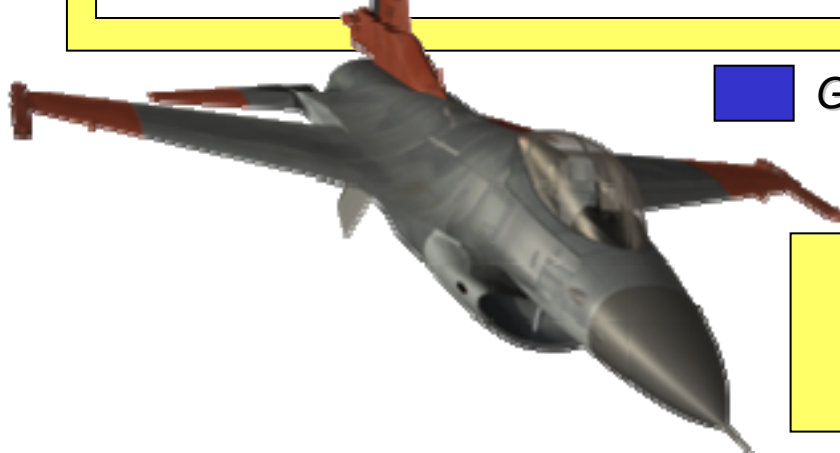
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Government Furnished



Contractor Developed



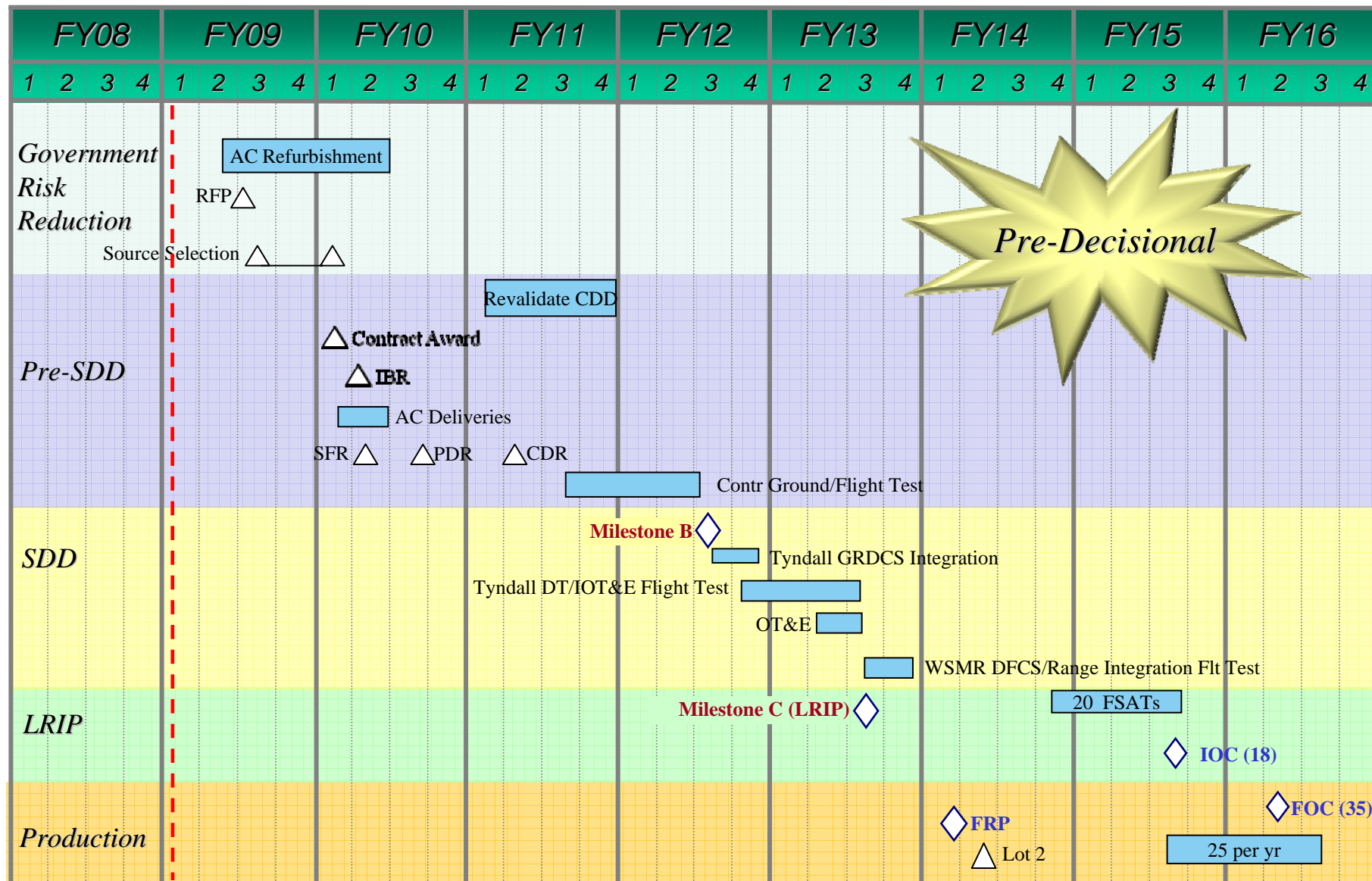
QF-16 System Integration:
Contractor Drone Peculiar Equip w/ GFP



Program Schedule



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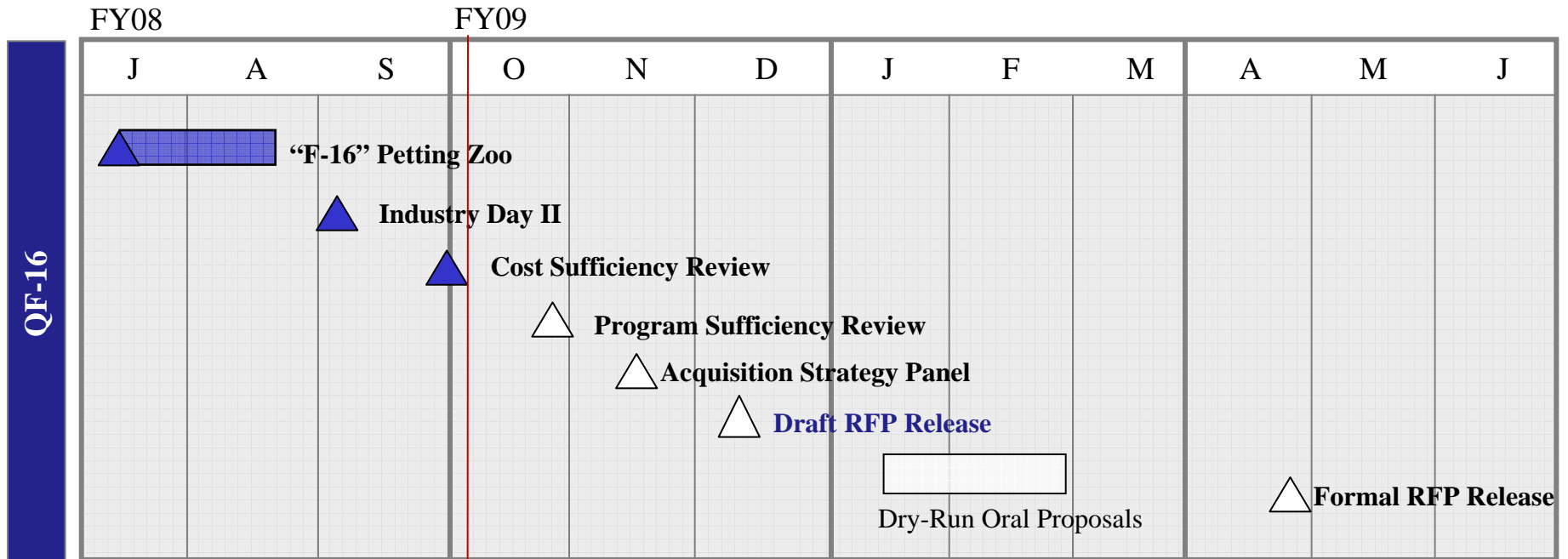




QF-16: Path to Contract Award



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Contract Award Planned 1QFY10

Direct
Inquiries to: **Ms. Leanne Green, QF-16 Contracting Officer**
(850) 883-3382, leanne.green@eglin.af.mil



QF-16 Regeneration



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- **Aerospace Maintenance and Regeneration Group (AMARG)**
 - Regeneration at Davis Monthan AFB, AZ
- **Refurbish Aircraft to Applicable Standards**
 - All Aircraft will be Man-Rated
 - Will have Between 50 and 300 Hours of Serviceable Life
 - No Service Life Extension or Subsequent PDM Planned
 - TCTOs to be Accomplished by Tail Number
- **Will Establish Functional Baseline for Each Block**



QF-16 Risk Reduction Activities



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- **F-16 Airframe Study Ongoing**
 - **Assessing Condition & Availability of Block 15 and 25s**
 - **Gauging Cost of Refurbishment**
- **Engine Study Completed**
 - **Unmanned Configuration:**
 - **F100-PW-200D w/out Back-up Fuel Control (BUC)**
 - **Manned Configuration:**
 - **F100-PW-220F**



QF-16 Risk Reduction Activities



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- **Target Control System (TCS) Risk Reduction Ongoing**
 - **GRDCS Data Link Tester Development**
 - **Integrate Government Furnished Ground S/W with Contractor-Developed Airborne S/W**
 - **Portable TCS**
 - **Supports Contractor Development Testing**
- **Petting Zoo (Contractor Aircraft Survey)**
 - **Allowed Potential Primes Access to Block 15/25 Aircraft**
 - **Phase I Conducted Jul – Aug 08**
 - **Potential Phase II in 2QFY09**



QF-16 Status



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- **CDD Approved 21 Apr 08**
 - **Currently Assessing Feasibility of Adding Block 30 to SDD**
- **Program Fully Funded**
- **2nd Industry Day Completed Week of 8 Sep 08**
 - **70+ Industry Attendees, Representing 17 Companies**
- **Acquisition Strategy Panel Planned for Nov 08**
- **Draft RFP Release Planned for Dec 08**
- **Formal RFP Release Planned in 3QFY09**
- **Contract Award in 1QFY10**



Summary



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- **AFSAT Program Meeting User's Need**
 - **UTTR Demonstration on Track for Nov 08**
 - **Lot 6-10 Contract Award Planned for 2QFY09**
- **QF- 4 Program Progressing Well**
 - **New QRF- 4C Deliveries Beginning 2QFY09**
 - **Production Planned Through FY13; Depleted in FY15**
- **QF-16 Program in Full Swing**
 - **Contract Award Planned for 1QFY10**
 - **Asset Deliveries Planned to Start FY14; IOC FY15**

