Headquarters U. S. Air Force

Integrity - Service - Excellence

23rd Annual National Test & Evaluation Conference



Mr. Dave Hamilton Service T&E Executives Speak 15 Mar 07

U.S. AIR FORCE





- AF T&E Update
- AFSO21 Initiatives
- Early Involvement
- Suitability



Air Force Missiles Fired from UTTR vs WSMR

Utah Test and Training Range (UTTR)

- AF Owned and Controlled
- Ease Scheduling Conflicts
- Reduced Cost Fewer Program Schedule Slips



Weapon System Evaluation Program (WSEP)

Annual Brief to CSAF

- Directed Increased Utilization of Guns Across CAF
 - 83 FWS to Investigate Options to Combat Banner
- Significant Increase in Missile Firings
 - Improved Confidence Levels
 - Combat Archer Requested ~150/year





AFSAT (BQM-167A)

- Replaces two legacy subscales (BQM-34 & MQM-107)
- Flight test has been delayed due to reliability issues
- **QF-4**
 - Resolved Control Amplifier Issue Which Caused a 10 Aug 06 Crash At Holloman AFB
 - Resumed to NULLO (Not Under Live Local Operator) Ops
 - Inventory

Air Superiority Target

- AoA In Progress ECD Mar 07
- Program funded for FY08 start





EDO Advance Capability Pod (ACaP) Jammer

U.S. AIR FORCE





- Purchased 6 ACaP Jammers, Support Equipment and Spares in FY05 for \$11.65M From EDO Corporation
- Improved Electronic Attack Threat Representation for Aggressors to Better Support CAF Training Requirements
- 1550+ Total Aircrew Exposed to DRFM EA, 500+ Fighter Crews
- "Best EA Training Ever Experienced" Red Flag Aircrew



AFSO21 - 5 T&E Initiatives

Early Tester Involvement

- Enhance Value of Test to Acquisition
- Enhance T&E Efficiency

Integrated DT & OT

- Reduce # of Stop Tests and Failures in OT&E
- Deliver Warfighter Capability Sooner

Information and Data Management

- Enhance T&E Workforce Effectiveness and Development
- Reduce Late Defect Discovery
 - Eliminate Cost Overruns

Optimizing Test Data Requirements

- Minimize Data Collection & Duplication
- Use Common Data Repository



Early Involvement and Integrated Testing Work

Small Diameter Bomb

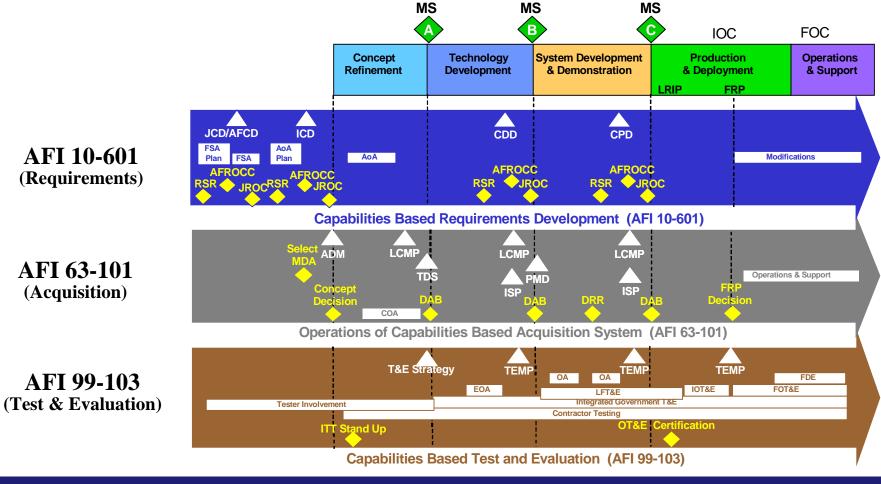


- Integrated Test Applied to Initial Seamless Verification Test (DT/OT)
 - Enhanced Operational Relevance During CT and DT
 - Maximized Opportunity to Use Early Test Data for IOT&E
- Results: Fewer Weapon Releases Required for IOT&E
 - JDAM = 132 Weapons
 - SDB = 28 Weapons



3 Major Processes Aligned --Requirements, Acquisition, & T&E

"Collaboration between the requirements, acquisition, DT&E and OT&E communities is key." SAF/AQ (Dr. Sambur) and AFOTEC/CC (MGen Peck), April 02







Defense Acquisition Objective:

- Field Operationally Suitable Systems
- Available for Combat when Needed
- Reliable Enough to Accomplish its Mission
- Does not Impose an Undue Logistics Burden

Operational Test and Evaluation is Statutory

 Required to Assess the Effectiveness and Suitability of Defense Systems Under Consideration for Procurement

Suitability has a Large Impact on Effectiveness



Suitability Drivers

Suitability Deficiencies have been Responsible for Many of the Fielding Problems with Newly Acquired Systems

- Crucial Suitability Issues are not Adequately Identified Early
- Not Addressed in Operational Test Plans
- RAM are Driving Suitability Deficiencies

Suitability Should be Assessed From Early Development Through Fielding





- Field Operationally Suitable Systems
- Enhanced early involvement and information sharing will allow us to identify problems early, engage the contractor to find fixes sooner, with the goal of ensuring systems are ready to enter dedicated OT&E with a high probability of passing.*
- Collaboration is Key to Transformation
 - Requirements Acquisition Test communities

Support Quality Acquisition Through Credible T&E

* "

AFOTEC Ownership of Test Compression Target Programs," Joint SAF/AQ (Sambur) -- AF/TE (Manclark) memo, 8 April, 2002