USAF Automatic Test Systems (ATS) Program Office

NDIA Update
17 APR 18

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Automatic Test Systems (ATS) Agenda

- ATS/PGM Update
  - Org Structure
  - Overview
  - Family of Testers Update
  - Initiatives on the Horizon
  - Cybersecurity
Operational Command Structure

AIR FORCE MAJOR COMMANDS
Clarifying Lead Command and Centralization

AFMC Major Process Flow:

Enterprise OPR

Lead Command

Life Cycle Manager

Enterprise Planning, Programming Advocate

Feedback loops exist at all levels

Constitutes Centralized Management/Improves Warfighter Support
AFMC’s Role

Nuclear

Technology

Life Cycle Management

Test & Evaluation

Sustainment

Installation & Mission Support

Nuclear Systems Management And Life Cycle Management

Discover and Develop

Acquire and Support War-Winning Capabilities “Cradle-to-Grave”

Perform World-Class Test and Evaluation

Sustain Air Force Capabilities through World-Class Depot Maintenance & Supply

Responsive Installation and Mission Support to Commanders, Airmen & Families
AFMC’s Role

- Nuclear Systems Management and Life Cycle Management
- Discover and Develop
- Acquire and Support War-Winning Capabilities “Cradle-to-Grave”
- Perform World-Class Test and Evaluation
- Sustain Air Force Capabilities through World-Class Depot Maintenance & Supply
- Responsive Installation and Mission Support to Commanders, Airmen & Families
• Product Group Manager (PGM) for ATS

• ATS Program Office executed $130M in FY17 - DoD
  – Multiple funding sources/funding types

• By the Numbers
  – Personnel – 130 (Robins & Hill AFBs)
  – 4 Product Lines, 51 Programs/Groups (7,775 Configured Items)
    – Organizational Level (Flightline)
    – Intermediate Level (Backshop)
    – Depot Level (ALCs)
    – Test Measurement & Diagnostics Equipment (TMDE)
  – Five AML (ACAT III) Programs
  – Tech Orders – 12K
  – ATS Selection Requirements Analysis – 25/year

• Major Acquisition/Mod Programs
  – Bomber Armament Tester (BAT)*
  – Common Aircraft Portable Reprogramming Equipment Secure Memory Loader Verifier (CAPRE SMLV)*
  – Versatile Diagnostic Automatic Test Station (VDATS)*
  – B-1B Advanced Radar/Electronic Warfare Test Station (ARTS)*
  – A-10 Portable Automated Test Station (PATS-70)*
  – Joint Service Electronic Combat Systems Tester (JSECST)

* AML Program

No mission success without ATS!
Air Force
ATS Program Office
User Fleet

ATS supporting users at field and depot locations
Joint Service Electronic Combat System Tester (JSECST) - Textron
- 2 configurations: AN/USM-670 and AN/USM-670A
  - Initial Fielding: 2001 (AN/USM-670) and 2016 (AN/USM-670A)
- Assets: 600+ DoD, 200 Air Force
- Production of 670A testers: 57; Retrofit kits: 170 delivered to date
- CCB approval for retrofit kit installation completed Nov 16
- Robins AFB Depot kit installed: 12 retrofits to date
- Repair contract (2 yrs) awarded Apr 08
- New production contract in work
DoD AF Family of Testers (FoT)

**Versatile Diagnostic Automatic Test Station (VDATS®)**

- **VDATS® Core Configurations:** DA-1 and DA-2
- **VDATS® Production Deliveries:**
  - 148 VDATS fielded to date; 10 DA stations in manufacturing for upcoming new requirements
- **VDATS® Customers:** AF Depots (Robins ALC, Tinker ALC and Ogden ALC), Tobyhanna Army Depot, BAE and currently one intermediate level location (Whiteman)
- Approximately 1,250+ TPSs developed & approved for use on VDATS® to date
- VDATS® currently supports over 30 weapon system workloads for numerous aircraft platforms
- **Recent Program Activities**
  - M9 Series Digital Test Instrument (DTI) obsolescence; approved upgraded to a Di Series DTI card for production
  - Accepted new orders from Predator/Reaper Program Office
DoD AF Family of Testers (FoT)

• **Common Benchtop Automatic Test Systems (CBATS)**
  - PXI based systems with 2 configurations
    - 101: (70) deployed at Hill AFB and Kadena AFB
    - 201: (60) deployed at Hill AFB, Kadena AFB, and Robins AFB
      - CBATS DXR Roll-up – In use at Ogden ALC
  - Currently on hold for FoT referral
    - Need to improve sustainability
    - Infrastructure must be in place
• **Advanced Radar/Electronic Warfare Test Station (ARTS) - Textron**
  - 5 years ICS – FY18
  - 20 of 24 total systems delivered to the field
  - TPS development ongoing
    - 2 of 24 TPSs fielded

• **Bomber Armament Tester (BAT) - BAE Systems**
  - O-Level Testers/I-Level Testers
  - Supports B-52/B-1/B-2; decrease number of testers for each platform
  - Contract awarded Sep 17
    - System Requirements Review – Mar 18
• **Common Aircraft Portable Reprogramming Equipment (CAPRE)**
  - 29 weapon systems supported
  - Potential users: CRH, KC-10, KC-46

**CAPRE Secure Memory Loader Verifier (SMLV) - ACAT III**
  - Initiated to enhance cybersecurity
  - Rehost F-16 MLV requirements in work
  - Field refurbished hardware starting in 2020

• **Common Munitions BIT Reprogramming Equipment (CMBRE) – Northrop Grumman**
  - 600+ CMBRE unit fielded supporting 18+ weapon systems
  - Organic CMBRE Service Life Extension Program (SLEP) - ongoing development to address obsolescence
    - SLEP to field in phased approach starting in 2020
ATS Future Initiatives (RFP)

- Analysis for Common Armament Tester - Fighter (CAT-F) - Competitive
- JSECST Production - Sole Source, Textron Systems
- Control Test Set Sustainment (A-10) - Sole Source, Command Technical Services Inc. (CTSI)
- B-1B DAAE Repair - Sole Source, Harris Corporation
- B-1B ARTS ICS - Sole Source, Textron Systems
- Electrical Electronic Equipment Test Station (EETS) - Competitive
- PLM-4 Strategic Buy/Repair Contract - Sole Source, Harris Corporation
- CMBRE Production Contract - Sole Source, Northrop Grumman
- B-1B ADTS & EPCAT - Competitive
- CMBRE SLEP Production/ICS - Competitive
- ATS Product Support Requirements Contract - BAE Systems
Cyber Security Purity (CSP)

- What assurance do I have when I open the “box” that the instrument is free of malware?
- Would like industry to collaborate on a set of standards “1.0” to provide assurance of initial purity
- CSP standard will give all users assurance that the instruments used start operations free of malware

Must be VIRUS FREE at the instrument level to ensure purity of ATS
ATS PGM Updates

• Agile Combat Support (ACS) Leadership
  • Outgoing PEO: Ms. Lynda Rutledge, assigned as AFLCMC Mobility PEO
  • Incoming PEO: Col Bradley Hauboldt, reassigned from Deputy PEO to PEO
  • Incoming Deputy PEO: Col James Moore

• ATS Leadership
  • ATS Program Office Chief: Mr. Jimmy Bailey
  • ATS Deputy Chief: Lt Col David Sutter
  • ATS Deputy Chief, Nuclear: Mr. David Hand
Questions ???
AFSC/CC
(Air Force Sustainment Center)
Lt Gen Lee Levy II

448 SCMW/CL
448th Supply Chain Management Wing
Mr. Dennis D’Angelo
448 SCMW/DV
Col Randall Warring
(Deployed)
Col Hilary Feaster
(Acting Vice Director)

748SCMG/CC
Col Paul Smith
748SCMG/DD
Ms. Pamela Lee

638SCMG/CL
Ms. Kimberly Herren
638SCMG/DD
Mr. Hugh Foskey

848SCMG/CC
Col Robert Kielty
848SCMG/DD
Ms. Belinda Slavick

948SCMG/CL
Ms. Lois Huizar
948SCMG/DD
Mr. Jeffrey Slayton

Legend
Tinker, Robins, Scott, Hill, Langley, Holloman,
Tinker-Hill-Robins, & Wright-Patterson, Wright-Patterson, Ft. Belvoir.