



U.S. AIR FORCE

24 June 2009

**USAF Liaison
Report**

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AGENDA

- Near-Term ATE Efforts/Contract Vehicles
- Advanced Fuels
- Logistics Transformation/USAF RE21 Status
- USAF ATS Policy updates
- VDATS Progress
- News
 - Administration Focus and goals
 - 2010 Budget AF Spending Plan
 - Top 5 AF programs
 - USAF Modernization/Sustainment Programs
 - AF Taskings/New Personnel

Near-Term ATE/Vehicles

■ F-15 ESTS Modernization

- ~\$40M upgrade effort over 3 year period
- F-15 SPO WP running procurement/WR assist
- Award slipped to Nov 09
- Competitive Small Business

■ A-10 Combined Armament Tester (CAT)

- Study completed Nov 07 (Not to be released to Industry at this time).
- Spec being defined. A-10 launch point for a universal armament tester.
- Initial funding possible FY10
- SOW definition in work
- Three phase procurement
 - Independent review of sources
 - TPS demo
 - Production FY 12

■ VDATS PBA

- PBA (BTP and Parts Availability)
- Will Evolve into PBL
- IDIQ 5 year contract (3+2)
- ~15 Systems to be built yearly for new opportunities
- Building procurement plan
 - ASP approved April
 - DFRP 8 April
 - RFP Pending, Award Late 4th Qtr 09
 - Small Business Competitive Set-aside, Size factor **500**

■ ARTS (Advanced REW Test Station) B-1B

- REW, DAAE, RF DAAE into one station
- Spec Inwork, 06 Spec being reworked
- Performance based spec, all options being reviewed
- Industry Day planned late Summer 09, based on Policy review
- FY11 funding, Jan 11 RFP Award Summer 11

Near-Term ATE/Vehicles

- **WR Small Business Acquisition & Sustainment Tool (SbAST) (WR Only)**
 - SB contract NAICS 336411 1500
 - 7 yr PoP, 5 yr ordering 3 basic +2 year options
 - \$420M IDIQ
 - 5 Contract awards
 - Planned schedule
 - ASP April 09
 - RFP June 09
 - Award Feb 10
 - WRALC.PKF.SBMODPGM@Robins.af.mil
- **Hill AFB DESPIII RFI**
 - IDIQ - Building (Procurement plan)
 - RFP FY10 timeframe
 - Eng, Tech, Support Services
 - Can be utilized by ALL DoD agencies
 - Industry Day OO 7-9 July
- **BRAT PBL**
 - 5 yr. Contract, RFP Summer 09 award later CY 09

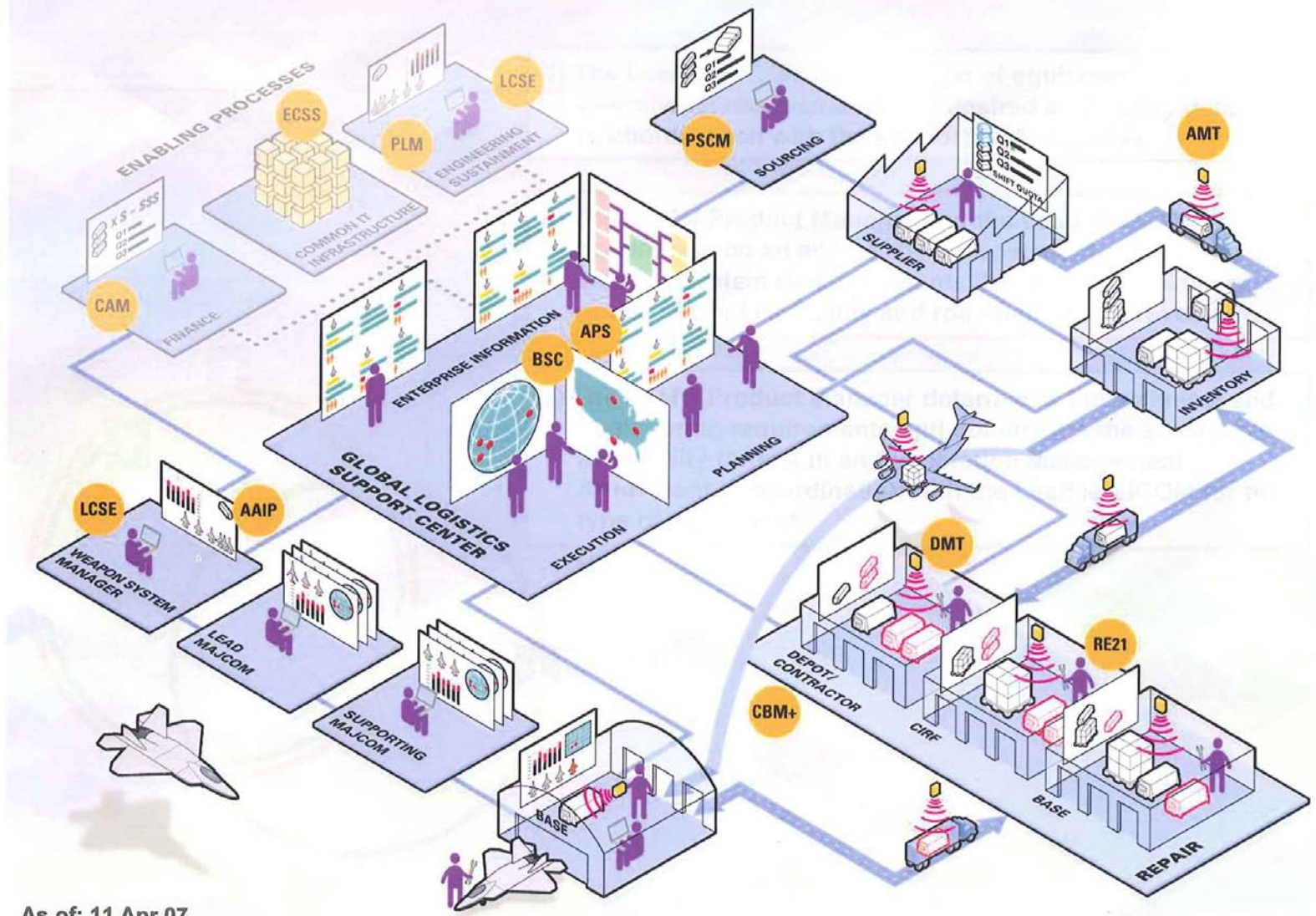
Advanced Fuels - Test Opportunities

- **Alternative Fuel Certification Office (AFCO)** established at WP AFB
- **USAF Advanced Power Technology Office (APTO)** Located WR-ALC
- **OSD is over-all lead for US and oversees efforts from other Services.**
 - Looking for new ideas to demo and test. Many sources now being validated
- **Hickman AFB HI - Demonstration Center** for all approved new energy sources. **Validate and help certify.**
- **Numerous upcoming SBIR efforts for Industry thru APTO and AFRL --Looking for white papers**
- **www.robins.af.mil/units/apto.asp for details**
- **Dollars are coming from Congress and RT&E funding.**
- **Obama Stimulus plan has funding for Research in Renewable energy**
- **Activities to date**
 - USAF and Eielson AFB in Negotiations with Alaska to build F&T Refinery on Federal Land
 - F-22 GTL , C-5 Syn Blend Jan 09 Bulk of AF AC have flown on Syn Blends
 - Commercial Airline consortium to further development of Syn Fuels
 - Honeywell/Boeing Jatropa Plant, Algae - Continental 737 CFM 56 8 Jan 09
 - 3 Dec Air New Zealand 747 Flight test
 - Test revealed ~2% fuel savings on 6K flight
 - 60% less greenhouse emissions
 - On target for 10% use of alternate fuels by 2013
 - JAL 747 Flight test Jan 09 (Expect utilization by Airlines in 3-5 years)
 - **ONR - Hydrogen power fuel cell UAV tested "Ion Tiger"**
 - **USAF to use Commercial A Aviation fuel in lieu of JP8.**
 - **NOTE: USAF uses 2.5Billions gallons of JP8 a year.**

Logistics Transformation - News

- **GLSC and ECSS the new enterprise system for improving over-all Supply Chain Management.**
 - Global Logistics Support Center GLSC (The POC for all other functions noted) i.e. the quarterback. (USAF Lead USAF/ILM)
 - **New AFMC CC reviewing realignment of ALC personnel for GLSC**
- **ECSS will enable a single data entry for Logistics info. (Will replace over 240 existing Mx and Logistics databases)**
 - Begin roll out in 2010 with FOC planned 2013
 - COTS tools, CSC leading effort
 - AF will adapt Mx Logistics procedures to COTS systems
 - **Other services will be linked via a common commercial software called SCORE**
 - First ECSS sites Ellsworth AFB (B-1B) and Gunter AFB
- **RE 21 Repair Enterprise (Regional Repair Centers and ALC - field to depot repair support)**
 - **SecAF has directed USAF to expedite the RE21 process.**
 - ALCs stood up 1 Oct. 2007
 - Ultimately USAF to stand up (10) CONUS CIRFs (5) Active, (1) ANG and (4) Integrated
 - **Bases Repair Network (still in work) for CONUS CIRFS (delayed ~ 1 year)**
 - Active/ANG/AFRES
 - Regional Supply Centers already established (1) Langley (1) Scott
 - **Repair Network Integration (RNI) path forward**
 - Phased Implementation for Commodities and Weapons Systems
 - Multi-year journey- Working Enterprise Management activities and Standardization processes first
 - Shape and size Network next (CRFs)

AIR FORCE "TO BE" LOGISTICS PROCESSES



As of: 11 Apr 07

OPR: A4I

USAF ATS Policy/Plan

- **ALL ATE** falling under control and Management of ATS PGM
 - OO/OC ATE to be managed by WR ATS PGM
 - Armament and EW Test migrating to the ATS PGM now
- Col. French's Group to migrate to Global Logistics Support Center
 - Realignment being reviewed by AFMC/CC
- Funding profile for ATS being realized
 - **A4/SAF ATS PEM assigned LTC Thompson and PE coded Jan 09**
 - Funding is flowing for VDATS
 - \$22M in FY08 GWOT for VDATS to include an Integration Lab
 - \$270M being POM for out year VDATS requirements beginning in FY11
 - **\$23.9M ATS unfunded requirements FY10. Impact TBD**

Transformation Initiatives

VDATS Maturation

- FCA/PCA completed with participation from OO-ALC, OC-ALC, and AFMETCAL
 - All level III drawings completed final format & style review
- Formal CCB complete on DA-1, DA-2, RF-1 roll-up
- VDATS program requirements beyond Robins AFB
 - B-2 – from 1-6 DA-2s (dependent on EW upgrade)
 - F-15 IFF – 1 DA-2/1 RF-1
 - F-16 IFF – 1 DA-2/1 RF-1
 - Global Hawk – 5 DA-2/2 RF-1
 - LAIRCM – 2 DA-2 and development of EO roll-up
 - Kadena Mini-Depot/CIRF – 2 DA-2/2 RF-1
 - Space Crypto – 1-5 DA-2

Transformation Initiatives

VDATS Performance Based Acquisition (PBA)

- **Vision: Link ATS availability to weapon system availability**
 - **Consolidated Asset Management (CAM) process prioritizes funding requirements across the entire AF enterprise by weapon system availability**
 - **CAM will enable the AF to surge readiness of some weapon systems and reduce readiness of others**
 - **Ideal State: All weapon systems operating on a common diagnostic platform – move workload in real-time to meet AF changing priorities**
- **PBA is a key enabler to ensure the availability of VDATS**
 - **Leverage our industry partners supply network to manage daily availability and obsolescence**
 - **Industry participation in VDATS build-to-print opportunities**
 - **Contract award scheduled Fall 09**

Transformation Initiatives

ATS Roadmap Plan of Attack

■ O-Level Maintenance – ID Families of Diagnostic Tools

- Reprogramming Tools
- Line Analyzers
- Armament Testers
- Flight Control Testers
- Navigation/Targeting Testers
- EW

Head of Family by
Diagnostic Tool Type

■ Depot Level Maintenance – ID Standard Depot Testers Under RE21

- VDATS
- LMSTAR
- Etc

Increase Production Flexibility
Focus on Generating LRUs/SRUs – Not Fixing ATE
Implement PBL Support to Buy ATS Availability

■ Future Weapon Systems – what diagnostic tools/technologies are required to support the CSAF acquisition priorities

- KC-X
- Satellite
- Etc

Synthetic Instruments
High Speed Fiber
Sensors

Transformation Initiatives

ATS Roadmap Way Forward

- **ILCM Action Item: “Build SOO and cost estimates to develop a new ATS Roadmap”**

- **Aug 08: Secured AFSO21 funding for the ATS Roadmap**

- **RAND Study**

- **Dec 08: WR-ALC/CC and Air Staff approved RAND for first phase of the program**

- **Dec 08: RAND initiated data collection both in the field and depots**

- **May 09: RAND White Paper out brief to WR-ALC/CC**

- **Looking at the entire ATE Logistics Enterprise**
- **Reviewing business case analysis of impact and cost to rehost B-1B TPSs onto VDATS**
- **Multi-phased study more details to follow**

News- Budgets and Programs

■ Administration Insight and focus

- Shift away from Expensive Weapons systems to more cost effective equally capable systems.
- Acquisition Reform
 - More Competition, less Sole Source, More SB
 - Dollars from various services to support the big picture
 - Wants faster fielding more “Fly before you buy”
 - 80% solution now versa 100% perfection
 - Rebuild procurement corps. Not just a AF/DoD Problem
 - More Organic capability – less outsourcing
- Future of Military Tactical aircraft will be F-35 and UAVs

■ All Programs on the table for review and possible cuts

- If it does not contribute directly to fight terror or irregular warfare possibly at risk.
- Move away from Supplements
- Launched QDR in Feb 09
 - Results plus FY11 Budget will define Obama Administration
 - Hints are in the FY 10 “Reform Budget”

AF 2010 Budget

- **AF focus**
 - Irregular Warfare, joint fight, support to combat CCs
- **AF Budget \$160.5B**
 - Retire 250 AC (F-15, F-16, and A-10)

 - Increase UAVs Funding for MC. HC, C-130, CV-22 and (8) C-27
 - Increase Special Forces
 - Increase ISR
 - Halt AF personnel reductions, Total force at 333,000
- **Specifics**
 - C-17 shut down line at 205 AC
 - CSAR-X Terminated, possible funds to readdress in QDR
 - CSAR may become a Joint operation
 - F-22 Shut down line at 187 {TACAIR Optimization Study (260)}
 - Transformational Sat'I Canceled
 - Funding for more proven technology platforms
 - F-35 Second Engine recommended Cancellation
 - ABL Reduced to one AC, Missile Defense program cut
 - No Funding for NGLRS 2018 Bomber
 - Funding for upgrades to B-1, B-2 and B-52
 - \$\$ for new flight software for F-16, A-10, Radar F-15 and modernization of F-22

News- Budgets and Programs

- **Budget Crunch coming (2011-Beyond)**
 - Predictions - cuts similar to 1970s and 1990s
 - Signal will be end of Emergency Supplemental
 - Do not expect future supplemental to fill requirements
 - Over all budgets to level off and decrease in coming years.
 - Expect 4%-5% growth in near-term - level to negative going forward
 - Expect tough decisions on new programs going forward.
 - AF wants early data rights to new products to allow ALC organic support.

FY-10 AF Budget +

- DoD Budget –
 - \$534B - USAF portion ~ \$160.5B
- All Cuts/ Additives etc must be approved by President and Congress
- “Last Supplement”? approved \$84B +\$22.6B

USAF 2010 “Reform Budget”

- Terminations and Cuts
 - F-22 stopped at 187 Aircraft (17 Jun HASC \$\$ for (12)AC long lead parts)
 - C-17 Stopped at 205 Aircraft (8 AC added in War Supplemental)
 - CSAR-X Cancelled (Possible revive as Joint program)
 - ABL program stopped. No 2nd AC, 1 remaining for R&D, Missile Defense Cut \$1.2B
 - AF looking at ALHK Concept as back-up to above
 - Kill Transformational Satellite Program (Focus on Extremely High Freq Com Sat’L)
 - Retire over 250 Legacy Fighters in FY 10
- Delayed
 - NGLRS 2018 Bomber Pending QDR results - need more requirements definition
- Survivors
 - Tanker Program to restart this summer with award planned by early CY 2010
 - No Split Buy?
 - F-35 Increase production and purchase quantity to 2443
 - Maximize UAV production Predator and Reaper
- NOTE: VH-71 Cancelled- Possible New program and competition to start this summer?
 - First 9 Helos delivered to LM 29 April
- Contractor support to DoD to be reduced by over 10%. More DoD Organic capability
 - Realign 11000 Acquisition Contracting jobs to DoD
 - Hire 9000 Acquisition Officers
 - Hire 30000 new Civil Servants to replace support Contractors

News –Budget and Programs

■ Top 5 USAF requirements:

■ KC-45A Tanker Replacement

- SECDEF wants award in CY 10

- Fair & Open “aimed at needed Performance not excessive Performance”, “meet technical requirements, best deal for Tax Payer”
- Gates no split buy (Est. \$7-14B increase in program)
- Congress versa Pentagon on how to proceed

■ CSAR-X - Terminated

■ Satellites for Early Warning/Com - Refocused

■ F-35 –Increased Production (2443)

■ NGLRS (2018) No Funding Delayed until completion of QDR

■ AF focus going forward/Impacts

- Shifting to Irregular Warfare, USAF in a Support Role, “era of persistent conflict”
- QDR to address force structure changes, due in Feb 2010
- Expect a smaller CAF going forward
- USAF Aircraft Mission Readiness rates are declining at a cost of 87% increase in Dollars to sustain an older fleet.
- Depot \$ for Maintenance now funded at 74% of the requirement.

Modernization/Sustainment/Retirements

■ Modernization/Sustainment efforts

■ F-22

- Software upgrades in Work

■ F-35 “Last Manned Fighter”?

- \$2.1B LRIP Lot 3 17 AC US and FMS
- 2443 (US) 730 (FMS) Current plan
- 2010 first USAF AC
- 2015 FRP Planned, Automated moving line (1 AC per day) Min Prod 110 a year
- Bases selected: Hill, Moody, Mountain Home, Shaw, and Eielson AFB

■ F-15

- “Silent Eagle” First flight 1st qtr. 2010

■ A-10

- Worse than expected, Structural repair required 242 AC beginning FY11-FY16

■ KC-135E - Retire (80) AC by end of Sept 09 (Possible recall)

■ NOTE: Significant AF Legacy AC retirements to begin in 2010

■ F-15 fleet by one-third 132 AC

■ F-16 Fleet by 15% 177 AC

■ A-10 Fleet 9 AC

■ \$\$ Saved to be applied to recapitalization needs

■ Fighter Gap 2017-2024

Modernization/Sustainment Cont.

- **Modernization/Sustainment efforts (See FY 09 Unfunded Requirements)***
 - **C-17**
 - Last USAF AC in final assembly
 - **C-130J –**
 - Production continues for SOF requirements want ~132 AC
 - (AC-XX to replace AC-130)
 - **E-3**
 - Block40-45 Upgrades complete
 - **JSTARS**
 - New Engines
 - **UAV fleets**
 - Expand fleet
 - Looking beyond Predator
 - AF/Army Joint Concept of Operations for Med Alt UAVs
 - Admin wants more UAVs
 - **B-2**
 - RMP (Radar) upgrade
 - **B-52**
 - EW Jammer (SDD Funded)
 - B-52 Fleet reduced to 76 AC (18 to recallable storage)
 - **C-27J**
 - First delivery 25 Sept 08
 - Multiple FMS sales to date
 - AC-27 Gunship funding FY10 9-16 AC
 - **MV/CV-22**
 - Multi year production award \$10.4B 141/26
 - **New AF One planned 2017**
 - **New Light Attack FAC Aircraft for Special Ops**
 - Navy taking lead other services
 - Based on EMB-314 Super Tucano
 - “Imminent Fury”
 - **Historical NOTE:**
 - 50th Anniversary of the First T-38 flight
 - 1184 AC built 1959-1972
 - Cost \$765K ea.

AF Personnel Changes +

- **Top AF Priorities for New SECAF and Chief**
 - ****GWOT**
 - **Fix Nuclear Enterprise**
 - Single Command for Nuclear Forces
 - USAF **Global Strike Command (A-10)** to be stood up as a MAJCOM by Sept 09, Bolling temp HQ
 - Significant funding to upgrade and replace existing Nuclear Infrastructure
 - **Permanent HQ Barksdale AFB LA. Select 3 April**
 - Responsible for Nuclear capable bombers and ICBMs
 - Nuclear Weapons Center Kirtland AFB NM
 - Address Shortage of UAVs/ISR in War Zone
 - Repair Acquisition System
 - ****Recapitalize the Fleet**
- **Ashton Carter to replace John Young Under SECDEF A&TL (On Hold)**
 - Wants all programs reviewed for performance and schedule
 - Pushing FFP Contracts going forward. His criteria for FFP
 - Stable Requirement
 - Maturity of Technology
 - Ability to accurately price program
 - Stable Gov. funding
- **GAO not complimentary of (96) Programs**
 - John Young and Pentagon challenging GAO criteria
- **Weapon Sys Acquisition Reform Act 2009 SASC**
 - Programs Terminated if exceed 50% of original cost



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