



**U.S. AIR FORCE**

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**USAF Liaison  
Report**

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# AGENDA

- Near-Term ATE Efforts/Contract Vehicles
- Advanced Fuels - Test Opportunities
- Logistics Transformation/USAF RE21 Status
- USAF PGM Status
- VDATS Update
- News
  - Budgets/Programs
  - USAF Modernization/Sustainment Programs
  - AF Taskings/New Commands

# Near-Term ATE/Vehicles

- **F-15 ESTS Modernization**
  - ~\$40M upgrade effort over 3 year period
  - F-15 SPO WP running procurement/WR assist
  - Award Summer 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
  - Requirements definition in work
  - [Three phase procurement \(Proof of Concept, Follow-on Development, Production\)](#)
- **VDATS PBA**
  - PBA ( BTP and Parts Availability)
  - Will Evolve into PBL
  - IDIQ 5 year contract
  - 15 Systems to be built yearly for new opportunities
  - Building procurement plan
    - ASP pending final approval
    - RFP April 09, Award Late 4th Qtr 09
    - Small Business Competitive Set-aside, Size factor. Still TBD
- **Hill AFB R-ATE IDIQ**
  - RFI May 27
  - RFP late 2008, TBD (Will likely move to the right)
  - ATE Replacement/Sustainment via a Services contract TBD
- **Hill AFB DESPIII RFI**
  - IDIQ - Building (Procurement plan)
  - RFP FY10 timeframe
  - Eng, Tech, Support Services
  - Can be utilized by ALL DoD agencies
- **BRAT PBL**
  - 5 yr. Contract, RFP Summer 09 award later CY 09

# Advanced Fuels - Test Opportunities

- **Executive order EO13423, 24 Jan 2007 directs DOD/DOE to achieve Energy Independence**
  - AF wants to increase use of Alternate fuels by 10% a year
  - By 2025 AF has been directed to be utilizing 25% renewable sources
  - Goal for US is to have 400M Gallons of FT fuel produced annually by 2016
    - Blend with JP-8. NOTE: Currently the USAF uses 800 Million Gallons of JP-8 a year
  - AF mandated to utilize FT fuel blend in all Military jets by 2011
  - MIL-PRF-83133F established for new alternate fuel sources
- **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](http://www.robins.af.mil/units/apto.asp) for details**
- **Dollars are coming from Congress and RT&E funding.**
- **Refinery locations identified in SE Ohio and Wyoming/Montana for new Syn Fuel efforts**
- **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
    - [JAL 747 Flight test Jan 09 \(Expect utilization by Airlines in 3-5 years\)](#)

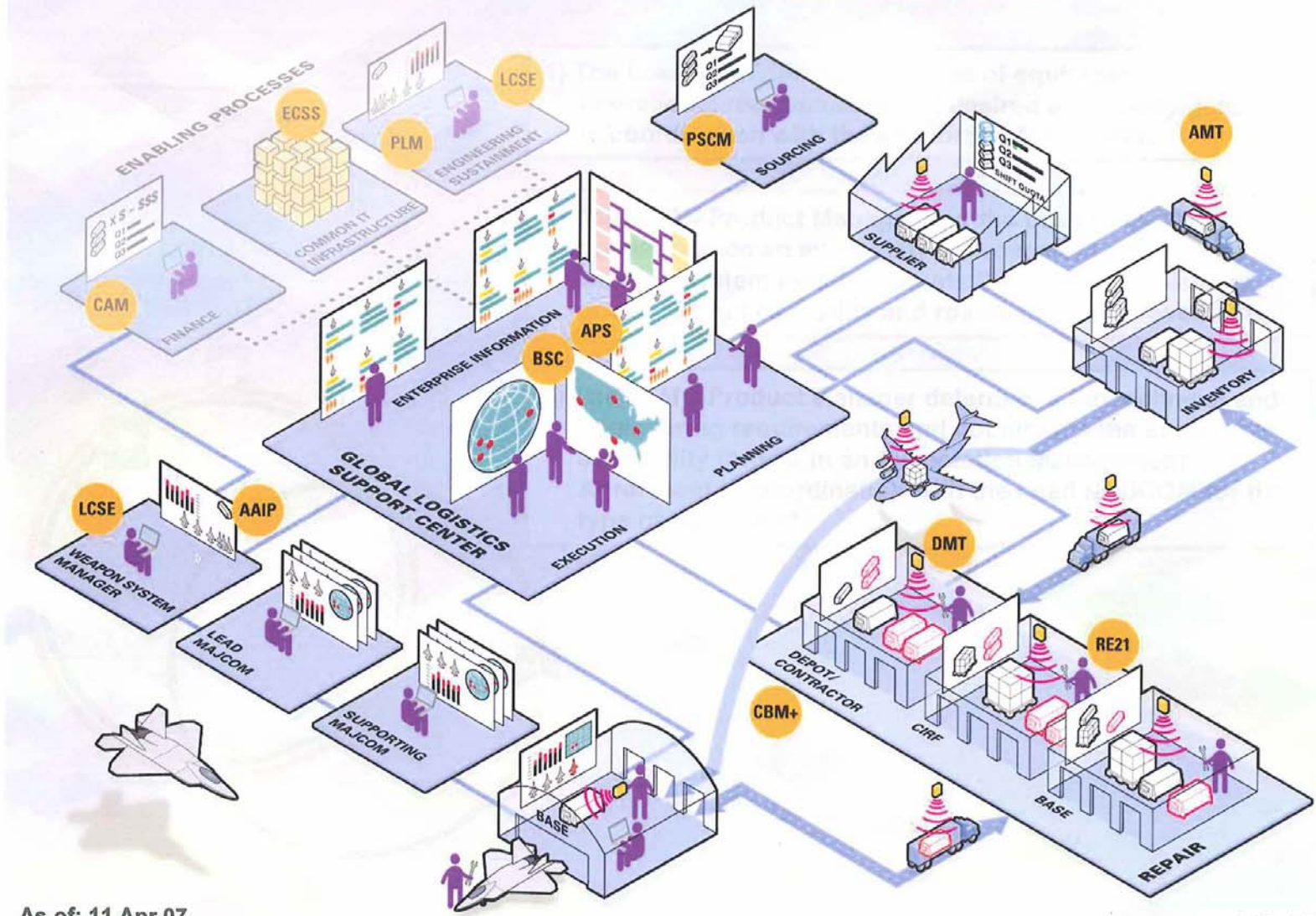
# Logistics Transformation - News

- **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)
  - Pentagon Directorate for GLSC, AFMC has over-all oversight.
  - Main HQ Scott AFB - Activated 20 Jan 2008
  - Each ALC has a GLSC element.
  - Ultimately 6 locations within CONUS
  - Trying to get away from the stovepipe way of business
    - Centralized Asset Management (CAM)
      - Centralize \$\$ from SPDs
      - Reprioritize \$\$ based on AF needs versa Stovepipe
  - Contracting functions (5 Regions) Delayed
  - Centralized Management of AMMO

**NOTE:** Will ultimately interface into similar Navy/Army programs thru common Commercial software

- **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. By CY 2010](#)
  - ALCs stood up 1 Oct. 2007
  - Ultimately USAF to stand up (10) CONUS CIRFs (5) Active, (1) ANG and (4) Integrated
    - **Bases Selected (still in work) for CONUS CIRFS**
    - Active/ANG/AFRES
  - Regional Supply Centers already established (1) Langley (1) Scott

# AIR FORCE "TO BE" LOGISTICS PROCESSES



As of: 11 Apr 07

OPR: A4I

# USAF ATS Policy/Plan

- ATS Family for Depot support and New programs
  - Policy letter stating VDATS as USAF Tester
  - Desire that legacy ATE build software/hardware bridge to VDATS
- VDATS replacement plan for older legacy ATE in work
- Wants to implement PBL partnerships with industry
  - Test by the hour, Provide ATE Availability to USAF
  - Get the ALCs out of the ATE repair business/focus on generating LRUs/SRUs
- 742 CBSG leading an AF ATS Roadmap in work
  - ATS PGM, ACC, AFMC, AMC Etc.
  - 3 year RAND Study (high level ATS review) awarded Dec 08
  - Support from USAF Leadership
- **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
  - Stand-up June 09 - Location – WR
- Funding profile for ATS being realized
  - A4/SAF ATS PE assigned and coded for ATS FY 10
  - Funding is flowing for VDATS
    - \$22M in FY08 GWOT for VDATS to include an Integration Lab
    - \$270M being POM for out year VDATS requirements

# ***Transformation Initiatives***

## ***VDATS Maturation***

### ■ ILCM Action Items for ATS:

- Issue an ATS Policy Letter to all SPDs/PGMs regarding the role of the 742d CBSG as the ATS Leadership Office for the Air Force and identify VDATS as the first standard family of AF ATS
- Develop ATS RFP Checklist Information for acquisition programs
- Develop SOO and cost estimates to develop a new ATS Roadmap
- Develop a BCA for VDATS re-host activities -- \$270M starting FY11

- Pursue AFSO21 Transformation and 3010 funds in FY09/10

### ■ 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

- Software CSCIs still in work to include system software, wrapper, self-test, calibration, and test executive.

### ■ VDATS program requirements to date (52 Stations)

- B-2 – 1-6 DA-2s (dependent on EW upgrade)
- F-15 IFF/F-16 IFF – 2 DA-2/2 RF
- 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
- System Integration Lab

# ATS Transformation Roadmap Plan of Attack

## ■ O-Level Maintenance – ID Families of Devices

- Reprogramming Tools
- Line Analyzers
- Armament Testers
- Flight Control Testers
- Nav/Targeting Testers
- Etc

Standard Testers by  
Functional Area

## ■ Depot Level Maintenance – ID Standard Depot Testers Under RE21

- VDATS
- BRAT, LM STAR
- IAIS/RIAIS
- Etc. Others

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

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

- KC-X
- CSAR-X
- Etc

Synthetic Instruments  
High Speed Fiber  
Sensors

Looking for Industry input on new technologies

# News –Budget and Programs

- Top 5 USAF requirements:
  - **KC-45A Tanker Replacement**
    - 10 Sept Program terminated by SECDEF ( Defer decision on a new Tanker to next Administration)
    - POM funding remaining in place FY10-15
      - FY 09 Funding diverted to other programs
    - New AF Chief predicts 2-4 years before new acquisition
    - **New Tanker RFP in FY10 Traditional Procurement**
      - No split buy
      - SECDEF wants award in CY 10
    - Fair & Open “aimed at needed Performance not excessive Performance” , “meet technical requirements, best deal for Tax Payer”
  - **CSAR-X** Re-solicit amended RFP Nov 07 – Award delayed (2 yrs and counting)
    - 141 Helos.
    - Award delayed until Mid CY 09
  - **Satellites for Early Warning/Com**
  - **F-35**
    - First AC to USAF 2010
    - LRIP 2 Approved June 08 12 AC 6A/6B
    - 7 AC in FY 09 Budget
    - Remains a congressional target. Final AC number is still TBD
  - **NGLRS (2018)**
    - No 2009 \$, \$ 2010, Appears little National Will and USAF support/Delay
    - AoA complete, Current technology as of 1 Jan 09
    - Potential merge with Prompt Global Strike Requirement (PGS)
    - Current technology, PGS ICBM with Conventional war head
    - **Teams have formed, and indicated that 2018 AC on ramp is possible**
- **AF Strategic Plan**
  - **Shifting to Irregular Warfare, USAF in a Support Role, “era of persistent conflict”**
  - **Recent JFCOM report Stresses balance between Irregular/Regular Warfare**
  - **New QDR initiated**
  - **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.**

# News- Budgets and Programs

- **FY10 POM Solidified**
  - Submitted to Congress in Feb 09
    - Obama review with outline in Late Feb and specifics by April 09
    - Defense official NDA on Details of FY10 until Administration allows
    - FY10 \$537B \$50B less than Bush submittal, but \$24B more than FY09
    - 10% challenge to DoD, Gates wants \$17B from FY10 for Irregular Warfare
  - USAF \$100B shortfall over next 6 years, \$310B DoD total
  - **DoD asking for additional \$360B over 6 years to address recapitalization needs**
  
- **Beginning to lose the Edge in Air Dominance due to number of factors**
  - Limited number of F-22 AC, Sacrifice F-22 to protect F-35 visa versa?
  - More sophisticated Air Defenses
  - Declining overseas bases
  - Too few airborne sensors and Tankers
  
- **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
  - SASC “ We are going to cut Weapons Systems”
    - F-22, Msl Defense, Ship building are targets
  - 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.
  - AF wants early data rights to new products to allow ALC organic support.

# News- Budgets and Programs

## ■ Obama administration Insight

- Preserve USAF unparalleled Air Power with emphasis on C-17 and KC-X
- Key decisions on future of F-22 and F-35 and their mix
- Acquisition Reform
  - “Significant changes coming”
    - 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 possible

## ■ 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
- Launch 2010 QDR in Feb
  - Results plus FY11 Budget will define Obama Administration
  - Hints in FY 10 Budget

# Modernization/Sustainment/Retirements

## ■ Modernization/Sustainment efforts

### ■ F-22 - Bases: Langley, Elmendorf, Hickam and Holloman AFB

- There will be initially 7 Squadrons
- ~120 AC delivered to date
- F-22 FOC 12 Dec 07 Fully Combat Ready Over 50,000hrs
- Mission Capability at 62% - lower than expected
  - MX MH per flying hour has increased
- AC fleet size will be determined by Obama,
- Obama team to decide on F-22 quantity/future in April
- Gen Schwartz to ask SECDEF for More AC. Zero-60 AC?

### ■ F-35 -

- First AF Mx cadre at Edwards/Eglin to begin training. Eglin delayed
- Initial Flight Test test Edwards completed, additional test to follow
- IOT&E planned 2013-2014
- First STVOL flew 13 June. A model now has 50+ flights. First Supersonic Flight
- First weight-Optimized CTOL Variant AF-1 F-35 delivered 23 Dec.
- 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
- Depots OO-ALC Airframe, Engines OC-ALC and FRC Cherry Point Jacksonville

### ■ F-15 - F-15 Fleet and F-22 decisions impacted by results of Stress Test

- Aircraft to go thru a full Fatigue test/analysis
- Start retirement of A&B this year and into FY09 (49) AC

### ■ A-10 - Wing Crack inspection on 132 AC

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

### ■ F-117 - Retired and out of fleet May 2008

### ■ 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 - Production funded in recent 08-09 Supplemental 6 AC**
    - AF purchased 15 additional C-17 6 Feb for \$2.9B
    - FMS: Canada, UK, Australia, Qatar, NATO ~14 AC
    - Total fleet size could reach ~220
    - Admin appear to be supporting more C-17s
    - Boeing awarded \$3.0B PBL for full logistics support to C-17
  - **C-130J - Production continues for SOF requirements want ~132 AC**
  - **Upgrades to E-3 ( Blk 40/45), JSTARS Engines (ISR), C-5**
  - **Expand UAV fleets (AF pushing to manage all UAVs) Looking beyond Predator**
    - AF/Army drafting joint Concept of Operations for Med Alt UAVs
    - Admin wants more UAVs
  - **B-2 RMP upgrade**
  - **B-52 - EW Jammer (SDD Funded) E-10 back on the table**
    - B-52 Fleet reduced to 76 AC (18 to recallable storage)
  - **C-27J - Joint Cargo Aircraft - First flight 17 June, First delivery 25 Sept**
    - Multiple FMS sales to date
    - Production location agreement resolved
    - AC-27 Gunship funding FY10 9-16 AC ( AC-XX to replace AC-130)
  - **MV/CV-22 - Multi year production award \$10.4B 141/26**
    - Last USAF MH-53 Combat Mission 27 Sept (Moved to Navy)
  - **New AF One planned 2017**

# AF Personnel Changes Plus

## ■ 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, final HQ location by end of June.
- 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

## ■ SECDEF halted AF reductions and increase authorizations

- More Maintainers, Special Ops and Nuclear specialties
- Cancel idea to realign MX under Operations

## ■ AF Cyber Command

- HQ location TBD in June

## ■ AF to brief SECDEF 15 Dec on 40 year vision for UAVs

- Requirements & Technology)



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