



U.S. AIR FORCE

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**USAF Liaison
Report**

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AGENDA

- Near-Term AF ATE opportunities/Contract Vehicles
- USAF ATS/PGM updates
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- AF Budget Impacts
- FY 15 Budget Review
- FY16 Budget - Plans going forward
- Top AF programs
- Aviation news

ATE Opportunities

■ Armament Testers

■ O-Level Testers

- Long-term goal: Have a standardized Armament tester across Bombers, decreasing the number of testers for each platform type
 - Existing testers and other viable sources being considered
- BAT B-2 COLT replacement Industry Day 18-19 Feb 2015
 - Schedule: RFP 4th Qtr FY15, Award 2-3 Qtr FY16
- F-22 COLT I-Level replacement RFP expected end of 3rd Qtr FY15

■ VDATS[®] Progress

- **102** Total VDATS[®] currently fielded or in production for legacy and new customer requirements:
 - Delivered for Legacy ATS replacements: 62 Digital-Analog (DA) stations
 - In Manufacturing for Legacy ATS replacements: 4 DA stations
 - Delivered for new workload requirements: 36 DA stations
- Utilized in AF Depots (Warner Robins ALC, Oklahoma City ALC, and Ogden ALC), Tobyhanna Army Depot and Intermediate Level locations
- 2 core configurations: DA-1 and DA-2
- All TPS efforts (Contractor or Organic) must be developed [IAW the VDATS[®] TPS Style Guide and MIL-PRF-32070A](#)
- **Approximately 859 TPSs** developed/rehosted and used at depot
- VDATS[®] currently supports 37 weapon system program workloads for numerous weapon system platforms such as:
 - A-10, AC-130U, AC-130H, B-1B, B-2, B-52, C-130J, C-17, C-5, E-8 (JSTARS), F-15, F-16, KC-135, MC-130H, Navy: EP-3, P-3C, SH-60B, UP/VP-3A, Navy Ships: OC-135, and UH-1N

NOTE: VDATS[®] Systems Software is the key to standardization

ATS PGM Update

■ JSECST

- Recently delivered 500th tester

■ CBATS Progress

- Newest member of the AF ATS Family
- PXI based systems with 2 configurations
 - 101 (36) deployed and (45) additional on contract
 - 201 (26) deployed (22) additional on contract
- Digital roll-up still in testing and not designated as part of the family at this time

■ ATS Challenges

- **Cyber Security (previously called Information Assurance)**
 - Requirement for ALL ATS systems
 - Improvements for legacy ATS
 - Standards for future ATS acquisitions

■ Changes in ATS Management and Oversight

- ATS Division Chief, Col Sean Rivera, reassigned to F-35 DSM at JPO – Summer 2015 replacement TBD
- New PEO: Ms. Lynda Rutledge, AFPEO and Director, Agile Combat Support (ACS)



U.S. AIR FORCE

Spring 2015

**USAF Budget
Impacts/Plans
and News**

USAF proposed DoD FY 15 Budget/Impacts

- DoD Budget \$491B AF Budget \$109.3B Core
 - 2/3 O&M, 1/3 Modernization/Recap
- F-35, LRS-B and KC-46 all protected, but (slight reductions in Production)
- Cut A-10 and U-2 (Process could take years, but U-2 Fully terminated in FY16)
 - AF Options to off set A-10 Cut (51) F-15C, & (7) AWACS
- Keep Global Hawk as replacement for U-2
- Reduce Predator but and begin replacement to all Reaper Fleet
- Invest in Propulsion Technology
- Active force reductions of 13% ANG/AFRC 5%
 - 25K Active force reduction over 5 years
- BRAC for 2017??
- Reduce Legacy fleet by 500 AC thru 2019
 - Funding for 59 Flying Squadrons – 7 Squadrons below requirements /needs
- Growth in Special OPSs
- AF now smallest force since inception in 1947

- If SEQ continues in FY16
 - Cut KC-10, Global Hawk Blk40
 - Cut C-5 Variants or 80 C-17s
 - Cut size of remaining KC-135 fleet
 - Reaper Fleet sooner versa later, (fewer CAPs)
 - Reduce buys of F-35
 - Cut an additional legacy 550 AC
 - 60% of madernization Budget impactred
 - 35% of O&M impactred

- QDR
 - 2015-2019 Reflects SEQ reductions
 - 2020-2024 Hope to begin buying capability back
 - AF impact noted above
 - DoD cannot accomplish Nat'l defense strategy if SEQ continues, Based on QDR.

- AF Strategic Document
 - Completed by June 14, Called “Strategic Agility”
 - Look at 30/20/10 year threats, Priorities and Operations
 - ACC Strategic Plan Released Mid June 14 (Goals and objectives under fiscal restraints)

FY-15 Budget

- **Defense Budget for FY15 signed 16 Dec.**
 - \$496.1B Core
 - Does not allow Retiring of MQ-1, U-2, E-3 or divesting of A-10 or KC-10
Protects AWACS, JSTARS, KC-10 and A-10
 - To procure:
 - (34) F-35
 - 7 KC-46A
 - C-130 AMP funding
 - ANG/AFRES NGREA account additive \$1.25B
 - \$188M additive for AF depots
 - Additives for Nuke Modernization
 - AF manning at 312K

- **SECAF wants BRAC**
 - 30% excess infrastructure
 - Congress bulking at more BRACs
 - AF budget to grow 8%+ in FY16
 - Wants to reduce number of Contracts and contract vehicles

- **Kendell** - US Technology edge is decreasing
- **La Plante** - US no longer has Technology edge, Need more R&D

FY-16 Budget

- **\$534.3B Plus OCO Submitted to Congress 2 Feb**
 - Going thru Review process, Goal eliminate BCA
 - Exceeds BCA by \$38B
 - AF \$152.9B - \$16B over FY15
 - O&M \$47.8B
 - Procurement \$25.3B (\$6B more than FY15)
 - R&D \$18B (\$2B more than FY15)
 - SE budgets buried within Weapon system programs
 - Meets Majority of QDR demands
 - FY16 Budget exceeds SEQ limits
 - Efforts to relax spending limits on DoD in work
 - AF and other services holding the line on National Security requirements. .i.e. Manpower and weapons systems needs.
- **See AF FY16 Budget Charts**

AF Key Programs

■ Top 3+ USAF Focused/Protected Requirements:

■ F-35

• LRIP status

- LRIP7 - (43) AC 29 US 14 International
- LRIP8 - (35) AC 3.6% lower price than LRIP 7 - 48
- LRIP9 - (57) 34 USAF Planned
- LRIP10 - (96) 55 for USAF Planned -74
- LRIP11 - (121) 68 for USAF Planned -117
- Full combat capability 2017 (3 F)
- Goal to get cost to \$85M by 2019, \$75M ea in the future, \$105M now
- Block software issues continue to impact schedule

• AF IOC Aug-Dec 2016 (Ramping up Mx Manpower needs based on Production)

- Bulk of Mx folks were to come from A-10 , early F-16 to F-35 Hill
- Navy 2019, USMC 2015

• F-35 engine issue still to be resolved,

• AF standing up a Integration office to assist in fielding AC

• 53 yr LCC \$1.4T

• MROs for Airframe/Engine support Italy, Japan, Turkey. First International F-35 Roll out FACO, Italy

■ KC-46A Tanker (Pegasus)

- First flight 29 Dec, First KC-46 Flight planned Summer 2015, Production 179 thru 2027 (15 AC a yr)
- 18 Combat ready AC by 2017 IOC still okay
- First production AC (2) 767-2 (2) KC-46
- Wiring Harness issue resolution in work, but beginning to impact schedule
- KC-Y-X likely will be unmanned

■ NGLRS (ABSD) LRS-B Airborne Strategic Deterrence –LRS Family

- Expect LRS AC fielded by 2024, Nuke certified 2026
- Plan 80-100 AC, estimated cost \$550M per copy
 - Multiple variants, Proven technologies, adaptive Technologies

• RFP released (9 July 14)

- Down select Summer 2015

■ Other Priorities

- T-X (FYDP FY17) \$600M in next 5 years. planned RFP planned 3rd Qtr FY16, Award FY18 IOC 2023
 - Redesigned AC now the key
 - 350 AC
- JSTAR replacement (planned 2022 fielding based on Commercial Business jets)
 - RFI possible 2016

Aviation News

- **China/ Russia/ISIS/Iran**
 - Aggressive stances continues
 - ADIZ - Island grab South China Sea China Sea/Ukraine/Middle East
 - Seen as further attempt to push US out of the region and land grab contested land/Islands
 - Chinese UAV MQ-9 Look alike on display
 - Y-20 Airlift first flight March YC-15/C-17 look alike
 - Building second of 4 planned Carriers
 - China pursuing Hypersonic vehicles and Weapons
 - #5 Military World exporter
 - China 12% increase in FY15 Defense Budget - China ~\$200B, Russia ~\$100B
 - GDP exceeded US 1 Dec largest economy in the world
- **NOTE: Large Weapon Systems build up in Pacific/Middle East/ and Old Eastern Block countries**
 - China to fly their competitor to 737-A320 next year C-919, Orders for 400, market of 6000 in China
- **Russia go ahead for New Bomber PAK-DA**
 - Flying Wing design
 - Production 2020 IOC 2025-2030
 - New ground launched and sea launched ALCM being tested (START Violation)
 - Modernizing entire ICBM fleet by 2020
 - Has already modernized their Nuclear arsenal
 - Pressing NATO and Canadian airspace
 - Plan to begin Operations in Gulf of Mexico and coastal US (Cold War profile)
 - 5th Gen fighter T-50 PAK-FA first production 2016
 - 50+ AC by 2020
 - Hedging on Non-Proliferation efforts
- **UCAV efforts proceeding**
 - X-47B, X56, Fury continues flight test
 - UCLASS RFP expected soon
 - X-37B returns from 2 years in orbit
 - UAV/RPA spending to double in next decade
- **C-17 Production ending by Sept 15 and close Long beach facility.**
- **B-52 Re-engine being considered again along with increased weapons load.**
- **New DoD Export rules to help streamline sales boost innovation and focus on more interoperability between countries.**

Aviation News

- **US Bomber fleet stable thru 2012 then reduced by (5)AC each year going forward**
 - B-1B to GSC

- **Next Generation Fighter study to begin in FY15 (\$\$ Provided) Exploring options**
 - AF 2030+ Air Dominance Fighter F-X
 - Navy F/A-XX
 - Potential Mach 5 + AC, Laser Wpns, Advanced Stealth, New Propulsion and sensors +
 - To include Directed energy weapons and additive technologies that can be retrofitted to 4th and 5th Gen AC
 - Likely a joint effort

- **Sikorsky wins:**
 - Selected to build the next Presidential Marine 1, (21) AC by 2023
 - AF combat Rescue 112 Helos based on HH-60
 - First deliveries 2019

- **New AF 1 will be a 747-8 Dash 8**
 - Existing AF1 will be 30 years old 2017
 - RFP this FY New AF 1 to be delivered as early as 2018 IOC 2023
 - Extended Upper deck and New Wing

- **Top AF R&D efforts for FY15**
 - Hypersonic
 - Autonomous Flight
 - Directed Energy Weapons
 - Fuel efficient Engines

- **ISIS airstrikes**
 - 75% USAF 25% US Navy - US carrying 70% of all sorties
 - A-10 back in the fight Nov 2014, New defined end life 2027-28
 - F-22 Leading Legacy AC into the fight

- **AIA study**
 - US Military FMS Sales Flat for 2014 at \$87B
 - Projects significant reductions if SEQ returns in FY16
 - Reductions in F-35
 - Retire KC-10, Global Hawk, reduce MQ-9 buys and reduced Depot Budgets along with lower R&D

Aviation News

- **ACC exploring new A-10 for CAS. May impact F-35 use**
 - Based on a light Attack platform.
- **Nuke Modernization being impacted by SEQ/BCA**
 - GSC establishing a “SAC light” dedicated group
- **50 years ago, 22 Dec 1964, SR-71 made first flight**
 - Original starting cart was based on twin Buick 454 V-8s running in Tandem.
- **50 years ago in Jan first DC-9 rolled out**
 - 2400 Variants built
- **Leadership changes**
 - Ashton Carter - new SECDEF Feb 2015
 - LtGen Ellen Pawlikawski - New AFMC/CC
 - MG Lee Levy - New AFSC/CC Tinker



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