



U.S. AIR FORCE

1 Nov 2015

**USAF Liaison
Report**

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AGENDA

- Near-Term AF ATE Opportunities/Contract Vehicles
- USAF ATS/PGM updates
- *****
- AF Budget Impacts
- FY 16 Budget Review
- Top AF Programs
- World Aviation News
- Aviation News

ATE Opportunities

■ Armament Testers

■ O-Level Testers/ I-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 Pre-Solicitation Day 18-19 Nov 2015
 - Draft RFP data will be released prior to above event,
 - Industry advised to watch FedBizOps for updated program information at:
https://www.fbo.gov/index?s=opportunity&mode=form&id=8f02f4b58fa1af38fd8e38321d7a7cf4&tab=core&_cvview=1
 - BAT is placed under the “Should Schedule” test case.
- F-22 COLT I-Level requirements will continue to be supported by COLT

■ VDATS® Progress

- **104** Total VDATS® currently fielded or in production for legacy and new customer requirements:
 - Delivered for Legacy ATS replacements: 63 Digital-Analog (DA) stations
 - In Manufacturing for Legacy ATS replacements: 7 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 currently, one Intermediate Level location
- 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 989 TPSs** developed and approved for production, and used on VDATS®
- VDATS® currently supports over 30 weapon system program workloads for numerous weapon system platforms such as:
A-10, AC-130, 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

VDATS® Systems Software, and TPS handbook is the key to standardization

ATS PGM Update

■ JSECST

- Production of 670A testers & retrofit kits = 35 delivered to date
- Retrofit Kit installation validated

■ CMBRE

- A joint use tester (AF, Navy, Marines, and 31 FMS countries), but not a family of testers
- 1000th delivered to AF

■ CBATS Progress

- PXI based systems with 2 configurations
 - 101 (70) deployed at Hill AFB and Kadena AFB
 - 201 (54) deployed at Hill AFB, Kadena AFB, and Robins AFB

■ ATS Challenges

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

**NOTE: Embedded Systems at risk, Study launched to focus on RPAs.
(Scientific Advisory Board)**

■ Changes in ATS Management and Oversight

- ATS Division Chief: Jimmy Bailey
- Depot ATS Section Chief: Nicola Bruno
- ATS Deputy Director: Vacant



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**USAF Budget
Impacts/Plans
and Aviation
News**

FY-16 Budget DoD Request

- **DoD requested \$534.3B Plus OCO Submitted to Congress 2 Feb**
 - Goal eliminate BCA
 - 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 - Exceeds BCA by \$38B
 - Efforts to relax spending limits on DoD in work by Congress
 - AF and other services holding the line on National Security requirements. .i.e. Manpower and weapons systems needs.
- **AF Issues going forward**
 - \$300B needed to sustain and Modernize the US Nuke Enterprise over next 10 years
 - **Currently only Half of the CAF is combat ready (SECAF) Need to resolve BCA and SEQ**
 - ACC releases 2015 Strategic Plan to address modernization and how to transform USAF to meet 21 Century Challenges
 - **USAF may No longer be the Best Global AF, but at risk of becoming the Best Regional AF in the world.**
 - Infrastructure too large, need BRAC and Cuts in Civilian personnel

FY-16 Budget

- **House and Senate version of the FY-16 NDAA**
 - \$515B (496.4B) Core plus \$89B for OCO
 - Concerns from DoD that OCO funding takes away from long-term planning needed for modernization
 - Sent to President on 20 Oct, 22 Oct President Veto
 - **Congress Reworking entire FY16 Budget and pursuing a 2 year deal**
 - More into base Defense budget versa OCO
 - \$25B over the BCA
 - Extends SEQ thru 2025
 - Base Budget \$548B Plus some OCO
 - Full authorization for AF Top 3 programs F-35, LRS-B and KC-46
 - Prohibit A-10 Retirement, protects E-3, KC-10 JSTARS, and EC-130
 - Major changes to Services Retirement plans
 - CR Budget agreement thru 11 Dec

- **SECAF - 50 New starts at Risk if CR or No Budget**
 - F-35 Production will be impacted by a CR and lack of Defense Budget for FY16
 - Kendall “Greatest threat to US is lack of a reasonable Defense Budget”.
 - Technology edge being eroded.

- **DoD National Military Strategy**
 - Released July 2015
 - Address how to employ US forces to cover the multitude of global issues
 - Stresses need for Agility, innovation and Integration

AF Key Programs

■ Top 3+ USAF Focused/Protected Requirements:

■ F-35

- Over 140 AC delivered to date, 651 AC planned world wide in 7 Countries by 2020.
 - 200 Pilots 1800 Mx Trained
- Goal to get cost to \$85M by 2019, \$75M ea in the future, \$105M now
 - Block software issues continue to impact schedule
- AF monitoring Navy with thrust to 3-Level Mx to lower sustainment costs
- **AF IOC Aug 2016 (Ramping up Mx Manpower needs based on Production)**
 - Early F-16 to F-35, Hill 388th activated first F-35 SQ 21 July, (15) AC by Sept (79) AC by 2019
 - Navy 2019, USMC IOC declared 31 July Yuma (10) AC
- F-35 bases and schedule
- Eielson 2 SQ July-Nov 2020, Brulington VT July 2020-May 2021, Lakenheath UK June 2021-Sept 2022
 - AC at Luke, Eglin, Nellis and Edwards
- AF standing up a Integration office to assist in fielding AC
- 53 yr LCC \$1.4T – Congress now questioning total qty of F-35 needed.
- MROs for Airframe/Engine support Italy, **Japan****, Turkey. First International F-35 Roll out FACO, Italy
- Norway's first F-35 nearing completion
- **ALIS and AF Networks under Cyber attack daily. Special software/Certifications going forward.**

■ KC-46A Tanker (Pegasus)

- **First KC-46 Flight 25 Sept.**
 - Delayed due to wiring harness, Fuel Management issues.
 - Write downs of over \$800M to date
- Production 179 thru 2027 (15 AC a yr)
- 18 Combat ready AC by 2017 IOC maybe impacted by above
- KC-Y-X likely will be unmanned

■ LRS-B Airborne Strategic Deterrence –LRS Family

- **NGC awarded the LRS-B, LM/Boeing Protest possible**
- Expect LRS AC fielded by 2024, Nuke certified 2026
- **Plan 80-100 AC or less**, Target cost \$550M per copy, Plan 16-20 AC per year, 5 Lots
 - First lot 21 AC
 - \$21.4B EMD phase
- **Standard Maintenance support plan for the LRS-B**

■ Other Priorities

- T-X (FYDP FY17) \$600M in next 5 years, Award FY18, IOC **2023**
 - **Redesigned AC** now the key
 - 350 AC
- JSTAR Replacement - Competitors NGC, LM, Boeing
 - In risk reduction phase
 - Planned **2023** IOC, based on Commercial Business jets

World & Aviation News

- **China**
 - Aggressive stances continues
 - ADIZ - Island grab South China Sea China Sea/ Creating Islands expanding
 - 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.
 - Roll out of F-35 look alike Sept 2015 during visit by PACAF/CC
 - 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, near-term bomber fleet upgrades TU160 by 2019
 - Has already modernized their Nuclear arsenal, 150 New AC and Helos to be delivered CY15.
 - Plan 1000 New AC by 2020
 - 5th Gen fighter T-50 PAK-FA first production 2016
 - 50+ AC by 2020
 - Hedging on Non-Proliferation efforts and previously signed no aggression treaties
 - Spending over \$631B over next 5 Years for above,.
 - Deploying forces forward
 - Pressing NATO, Canadian airspace, and advancing in the Arctic Region
 - Plan to begin Operations in Gulf of Mexico and coastal US (Cold War profile)
 - Syria
- **NOTE: Russian Economic woes may impact this aggressive modernization plan**
- **UCAV/RPA efforts proceeding**
 - X-47B, X56, Fury continues flight test
 - UCLASS RFP expected soon
 - X-37B returns from 2 years in orbit, and re-launched again in May
 - UAV/RPA spending to double in next decade
 - USAF ramping up RPA Orbits by 50% in next 4 years
 - Retire Predators by 2018 in lieu of all Reaper Fleet
- **B-52 Re-engine being considered again along with increased weapons load.**

Aviation News

- **US Bomber fleet stable thru 2012 then reduced by (5)AC each year going forward**
 - B-1B to GSC 1 Oct, all Bombers now under GSC 8th AF.
 - B-2 planned to remain in service thru 2058
 - Msn Capability rate at 50%
 - B-52 planned service thru 2040
 - First of 30 De-Nuked B-52s by 2017, Nuke fleet (66) AC 20 B-2 - 46 B-52s

- **E-3 AWACS fleet in NATO being reduced from 17 to 14 AC.**

- **F-16V makes first flight in Oct.**

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

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

- **Flex Tech Alliance Ashton Carter**
 - \$75M DoD Project 162 Industry players
 - Wearable Technology

- **ISIS airstrikes**
 - 75% USAF 25% US Navy - US carrying 70% of all sorties, (KBA 1000 ISIS per month*)
 - A-10 back in the fight Nov 2014, New defined end life 2027-28
 - Both House and Senate Defense Budgets protect A-10 in FY16
 - F-22 Leading Legacy AC into the fight

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
 - AF F-35 being fitted for updated B-61 for mid 2020s.
- **Last C-17 came off the Longbeach production line Sept 2015**
- **F-22 Life potential 2050-60**
- **Space Shuttle Replacement underway with Demo vehicles**
 - Boeing, NGC and Master Space Systems
- **LM Proposing a U-2/Global Hawk replacement - TR-X**

- **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

- **Boeing projects a Commercial need for over 38,000 new AC over next 20 years – worth \$5.6T**

- **Leadership changes**
 - Ashton Carter - new SECDEF Feb 2015
 - LtGen Ellen Pawlikawski - New AFMC/CC
 - MG Lee Levy - New AFSC/CC Tinker

- **60 years ago this year - Anniversary of the beginning of Vietnam War**



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