

FY 2009
Unfunded Requirements
List
Feb 2008



U.S. AIR FORCE

SAF/FMB

Budget and Appropriations Liaison Office

(703) 614-8110

Requirement	FY09 Amount (\$M)	Item Description
B-52 NDAA Compliance (76 aircraft)	183.1	FY08 Authorization Act directed 76 TAI/44 Combat Coded (CC) fleet with common configuration. Currently funded at 56 TAI/32 CC. Funds four additional aircraft Programmed Depot Maintenance inductions, increased MILPERS/flying hours, and modifications for additional aircraft. Maintains viability and execution of B-52 CONECT program. Selective Availability Anti-Spoofing Module (SASSM) GPS receiver upgrade is required to address capability deficiencies, maintain combat capability and ability to deliver all modern weapons. Supports Required Force.
F-22 (+4 aircraft)	600.0	Adds FY09 funds to procure 4 additional aircraft to the Lot 9 purchase. Maximizes current production line; aircraft deliver in CY12. Part of Required Force structure of 381 aircraft.
F-22 Lot 10 Advance Procurement	497.0	Funds Lot 10 long-lead and advanced production for 24 F-22s, building toward a Required Force of 381 aircraft. Continues only fifth-generation aircraft production line operating at full rate production. Supports Required Force of 381 aircraft.
Total Force End Strength for Required Force	385.0	The FY08 Appropriation Act tasked the AF to report on end strength requirements. This requirement requests funding to increase Active end strength by 13,554, civilian by 1,830, and reserve by 3,400 in FY 09 in support of the Air Force's 86 Combat Wings (Required Force). Also includes McConnell AF Reserves.
C-130J (+8 aircraft)	576.0	C-130J procurement ensures recapitalization of the aging C-130E fleet, iaw Fleet Viability Board recommendation. Continued C-130J procurement allows the Air Force to continue meeting the Intra-theater Airlift requirements for the Combatant Commanders. Part of Required Force.
C-17 (+15 aircraft)	3,900.0	Procures 15 C-17s, keeping only active strategic airlift production line open. Part of Required Force.
C-27B (+2 aircraft) for SOF	74.8	Funds two C-27B aircraft, initial spares, and ground support equipment for delivery to AFSOC. Accelerates delivery of C-27B aircraft to AFSOC by 2 years, meeting Commander's needs for precision attack and specialized airlift. Part of Required Force.
CV-22 (+1 aircraft)	82.0	Buys one additional CV-22 in FY09 to accelerate fielding of SOF aircraft as directed by QDR. Part of Required Force.
F-35 Advance Procurement	67.0	Funds advanced procurement items for 6 additional aircraft to be programmed in the FY10 budget to meet Required Force. Without procuring additional aircraft to meet Required Force, the Air Force is unable to sufficiently recapitalize its aging aircraft.
F-35 (+5 aircraft)	761.0	Procures 5 additional F-35s plus advanced procurement to meet Required Force procurement profile.
Global Hawk Attrition Reserve (+5 aircraft)	616.0	This request is contingent upon the ADM decision of USD(AT&L). Funds AP and production for 5 additional Global Hawk aircraft--3 Block 30 and 2 Block 40 to be added to the Lot 8 contract. Deliver capability 3 yrs early to plan. Supports Required Force
Space-Based Space Surveillance (SBSS) Training	27.3	Funds the accelerated development of training materials, technical orders, and a training/simulation environment required to sufficiently train Air Force blue-suit operators (vice contractors) of the Space-Based Space Surveillance (SBSS) Block 10 program. SBSS operations are part of the Required Force.
Space Environmental Situational Awareness	9.4	Space environmental situational awareness, space weather, is a critical component of a fully integrated space situational awareness (SSA) effort and improvements must be accelerated to keep pace with other SSA initiatives. Funds ground based space sensing and space weather modeling. The demonstration of the Chinese Anti-Satellite capability in Jan 07 generated national focus on rapid improvement of SSA, now part of the Required Force.
HUSIR Upgrade	25.0	The Haystack Ultra-Wideband Satellite Imaging Radar (HUSIR) program will upgrade the existing Haystack radar to W-band, while retaining the current X-band capability. The goal of HUSIR is to attain 8 GHz of bandwidth for imaging near earth objects. Supports Required Force.
AEHF Schedule Delay	10.0	These funds are required for SV-1 and SV-2 schedule delay. These funds will be placed on the Lockheed Martin, CLIN0001, cost plus award fee contract for build of SV-1 & SV-2. Supports Required Force.

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F-22 Hill (Depot) Initial Operating Equipment	29.4	Funds Initial Operating Equipment (IOE) required for Hill AFB depot maintenance MILCON projects. Engine Test Cell and Radar Cross-Section facilities programmed to begin construction in FY10. Lead time for IOE necessary to ensure delivery of equipment as construction is completed. Supports Required Force beddown and compliance with 50/50 legislation.
F-22 MILCON	24.6	Funds LO/CRF for F-22 beddown at Hickam AFB (ANG). All projects identified in FY09-13 MILCON FYDP and support Required Force beddowns.
F-22 Tyndall DMO	27.3	Funds retrofit of Tyndall AFB Block 20 F-22 simulators to the current Distributed Mission Operations (DMO) configuration. Allows Tyndall F-22 pilots to train in a realistic environment and meets USD/P&R direction for DMO compliance. Supports Required Force.
F-35 Maint/AMU Hangar	37.5	Funds Maintenance/AMU with 6-bay hangar to support permanent beddown of F-35A aircraft at Nellis AFB. Also funds relocation of A-10 AMU. All projects funded in FY09-13 FYDP. Supports Required Force beddown.
B-1 ATP Integration (Laptop Controlled Targeting Pod) & FIDL Procurement	48.6	USCENTAF Urgent Need Request (UNR) to install Advanced Targeting Pods (ATP) on the B-1B to enable positive target identification, ROVER downlink, and expand B-1B non-traditional ISR capability to support ongoing operations in the AOR. Fully Integrated Data Link (FIDL) provides Link 16 line of sight and beyond line of sight data link capabilities to improve combat situational awareness, command and control, and connectivity with package forces. FIDL will also replace rear cockpit displays with multi-functional displays required to utilize data links. Part of Required Force.
B-2 Sustainment	71.7	Replaces obsolete display/processors, Special Test Equipment (STE) for the Defensive Management System (DMS) and processors for the Combat Electromagnetic Simulator (CEESIM). Grounding aircraft projected to begin in FY09 (displays); DMS STE failing at an increasing rate and face obsolescence issues which prevent repair; current CEESIM processors are not repairable and no spares are available. Supports Required Force.
Classified Requirement	300.0	Classified Requirement, details can be provided separately.
Air-to-Air Missile Procurement	72.7	Funds shortfall in AIM-120D and AIM-9 X air-to-air missile All Up Round (AUR) procurement. Procures an additional 67 AIM-120D and 30 AIM-9X missiles to meet inventory requirements. Supports Required Force.
BLU-121 Procurement	5.1	Procures 48 BLU-121 bomb bodies, for F-15E employment of GBU-15 and AGM-130 weapons against tunnel and other target complexes. Supports COCOM request. Supports Required Force.
BLU-126 Partial Fill JDAM - LCD	1.0	Produces 200 BLU-126 Low Collateral Damage (LCD) bomb bodies, for integration with JDAM and Laser-Guided Bomb kits. Supports COCOM request and meets Required Force
Hellfire Procurement	65.1	Procures 662 Hellfire missiles for MQ-1 and MQ-9 UAS, to support increased ops tempo, test, and training. Projected annual expenditure rate is currently higher than production rate. Required Force.
JDAM	98.5	Produces 4320 JDAM guidance kits to meet inventory shortfall caused by increased ops, test, and training requirements. Annual expenditures are greater than annual buys. Required Force.
Basic Expeditionary Airfield Resources (BEAR)	24.3	A sub-set of War Reserve materiel, BEAR establishes living/working facilities and an industrial base to support operations in austere locations. Includes emergency airfield lighting systems, aircraft arresting systems, generators, support equipment. Required Force.
Contractor Logistics Support (CLS)	1,086.3	Increases CLS funding to 95% to fund maintenance requirements and flying hours. Reduces additional workload to the field and onto already stressed blue suit maintainers. The additional \$1086.3M will minimize the risk associated with possible aircraft groundings and ensure availability of supported weapon systems through funding contract field teams and spare parts (overhaul/repair). Included in Required Force.
MRAP CLS	190.0	Funds FY09 MRAP Contract Logistics Support for 558 vehicles. Includes Depot Labor/Training/Repair Parts/In Theater Support at \$340k per vehicle

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Critical Base Services	276.9	Provides critical funds to base services that impact the quality of life for all Airmen. Adjustment will bring non-pay programs to 85% of the total requirement, consistent with historical execution rates. FY09 baseline funding is at 63% and barely covers the average execution for contracts, and does not adequately fund services such as base shuttle service, dining hall service hours, fitness/recreation programs, etc. Lack of funding impacts the entire base community and, specifically, junior Airmen. Support Required Force.
Depot Purchased Equipment Maintenance (DPEM)	667.8	Increases DPEM funding to 90% to prevent growth in backlog. The additional \$667.8M eliminates 29 aircraft deferrals and 56 engine deferrals across various platforms for FY09 and maintains deferred maintenance in other DPEM funded categories at a manageable level. Supports Required Force.
ECSS Software Licenses and Support	3.8	The Expeditionary Combat Support System (ECSS) is the Enterprise Resourcing Planning (ERP) system designed to replace (400+) legacy IT systems with a COTS IT suite of 10+ integrated modules with software/hardware, embedded/updateable best business practices. Request buys additional software licenses and subject matter expertise for system development and deployment. Supports Required Force.
Restoring Mission Facilities Capability	487.1	This funding would address "Degraded" facility requirements within the Restoration and Modernization (R&M) program, which includes operations & training facilities; airfield infrastructure, maintenance facilities, and dormitories for our junior Airmen. Required Force.
FORCE	14.3	Fuels Operational Readiness Capability (FORCE) replaces 50 year old fuel equipment. Supports Required Force
Integrated Base Defense Equipment (IBD)	85.7	Supports integration of ground based radar technologies and wide area thermal imagers into base defense systems. Allows AF security forces to achieve the principle concept of "See First, Understand First and Act First" by having a common operating picture of the installation. Supports Required Force.
Support Equipment	133.8	Procures aircraft support equipment and other base maintenance support equipment. Equipment (maintenance stands, aircraft air conditioners light-alls, generators/electrical power units, bomb lifts, testers, etc) provides direct support to generating aircraft sorties. Part of Required Force.
Tactical Vehicles	73.4	Funds 194 Family of Medium Tactical Vehicles (FMTV) to support Combat Communications Flights, Air Support Operations Squadrons (ASOS), Explosive Ordnance Disposal (EOD) units and other tactical support units throughout the AF. Funds 395 Security and Tactical vehicles that supports Air Force Explosive Ordnance Disposal (EOD), Civil Engineering (CE), and Security Forces (SF) requirements as well as essential ongoing Force Protection/Anti-Terrorism efforts. Supports Required Force.
Remote Visual Assessment (RVA)	0.3	Funds Contractor Logistics Support (CLS) of deployed RVA systems and pays commercial satellite lease costs for operations; operations costs beyond FY09 will increase as AFSPC deploys more RVA systems. In accordance with Blue Ribbon Review.
ICBM Payload Transporter (PT) High security locks	4.2	Adds High-security locks to Payload Transporter III System (current PT), reduces/eliminates security vulnerabilities. Locks enclosed in tamper resistant steel enclosures. 7 locks placed on each PT, including the personnel access door (1), emergency egress door (1), front interior compartment (1), rear cargo doors (2), and small arms protection doors (2). Keyed in "A" and "B" sets of two keys each. No additional funds required in FYDP. In accordance with Blue Ribbon Review.
Common Vertical Lift Support Platform (CVLSP)	4.5	For FY09, additional funds further refine initial development efforts and accelerate the development of requirements documentation. Requested funds would complement \$4.2M funded by CSAF in FY09 to stand up the SPO. Current UH-1N helicopter cannot meet key performance parameters (Range, Speed, Payload, Endurance) for ICBM Security capability. CVLSP develops and purchases replacement helicopter. In accordance with Blue Ribbon Review.
Radiation Sensors	5.8	Places 12 portal monitoring devices at vehicle entry points and primary/alternate convoy routes for CONUS WSAs. (Minot: 2, Whiteman: 3, F.E. Warren: 2, Malmstrom: 1, Kirtland: 2, Nellis: 2). Cost \$400K per sensor plus \$1M per year in sustainment (maintenance, repair, calibration). In accordance with Blue Ribbon Review.

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ICBM Cryptography Upgrade, Increment II	7.5	Funds initial design/development of weapon system modifications required to fully implement remote code change and irreversible transformation. Remote code change capability eliminates the requirement to penetrate 450 launch facilities during annual and emergency code change, eliminates transportation of critical nuclear codes and the associated security vulnerabilities, and reduces security vulnerabilities from site penetrations. Irreversible transformation of enable and launch codes reduces a potential nuclear surety vulnerability. In accordance with Blue Ribbon Review.
Nuclear Storage Structures/Areas Upgrades	15.4	Nuclear Facility Security Upgrades -- Modernizes the Kirtland AFB (AFMC) restricted area security system by integrating security detection, assessment and surveillance and delay. Shooter Detection System -- Procure shot spotter technology for nuclear weapons storage areas at Minot AFB, ND and Whiteman AFB, MO. Massive Modular Block Berming -- Redeploys existing MMBs from Barksdale AFB to Whiteman and Minot AFBs. Storage Structure Assessment -- Modernizes our ability to assess resources located within storage structures by alleviating the requirement to respond to structures in alarm status so long as the alarm resets and security of the resource can be verified through assessment versus immediate response. Wide Area Assessment -- Enhances current area assessment capabilities by expanding the view beyond the WSA perimeter. The capability would reduce a potential adversary's ability to dominate time and space around WSA Areas of Interest (AI). Wide Area Assessment interferes with the enemy's ability to move, plan or observe the WSA without being detected. In accordance with Blue Ribbon Review.
New ICBM Payload Transporter (PT)	20.0	Vehicle age of existing PT drives a need for full replacement (33 PTs) to sustain the weapon system through 2030. Existing PT does not meet required security standard because current vehicles cannot support the weight of security enhancements. DTRA has invested \$1.8M in a security prototype. In accordance with Blue Ribbon Review.
Nuclear Surety: SDT	6.0	Funds transpo costs to realign nuclear assets based on force reductions and stock-pile adjustments. Also, to ship munitions trailers to undergo modification to meet nuclear cert reqts. Requirements are in accordance with Blue Ribbon Review.
Nuclear Surety: Test Equipment	9.0	Accelerates procurement of Re-entry System Test Set (RSTS), and funds calibration devices for Electronic Sys Test Set (ESTS). Requirements are in accordance with Blue Ribbon Review.
Nuclear Surety: Procure non-powered munitions trailer	22.8	Replacement recapitalization for electric munitions loaders and non-powered munitions trailers. Requirements are in accordance with Blue Ribbon Review.
Nuclear Surety: Powered Munitions Trailers	4.0	Funds service life assessment, engineering analysis, out-year supportability assessments, and propose equipment recapitalization (modernize or replace) options. Requirements are in accordance with Blue Ribbon Review.
Eastern Range Central Command Remoting System	26.0	Central Command Remoting System is mandatory for every launch from Eastern Range. Request replaces the Eastern Range Central Command Remoting System, which was rebuilt in late 1980's and currently experiencing a high failure rate. June 2007 Atlas V/NROL-30 launch attempt was scrubbed as a result of system failure.
ICBM Solid Rocket Motor Life Extension	31.0	Following completion of Minuteman III Propulsion Replacement Program this initiative would fund a low-rate ICBM Solid Rocket Motor sustainment production line producing 6 booster sets per year to maintain critical industrial skills, certifications, and supplier base. Mitigates impact of loss of critical propulsion skills/industrial base until a follow-on booster program is approved.
U-2 Vanishing Vendor Mitigation	17.4	Funds for Vanishing Vendor Mitigation of ASARS On Board Processor (OBP). Funding will purchase two OBP's. Additionally, diminishing manufacturing suppliers and increased GWOT ops-tempo is accelerating depletion of Remote Airborne Sensor (SIGINT sensor - RAS-1R) spares, support equipment, Senior Year Electro-optical Reconnaissance Sensor (SYERS) visible and IR focal planes and circuit card assemblies. Insufficient spares inventory to sustain operations results in the inability to meet COCOM intelligence collection requirements.
A-10 Propulsion Upgrade Program (PUP)	275.0	Develops propulsion system with new fan with upgraded high pressure compressor/turbine and low press turbine linked to digital control--provides high hot takeoff capability, essential to meet CoCom taskings in AOR.
A-10 Wing Replacement Acceleration	88.3	A-10s require extensive wing refurbishment or replacement to meet CAF demand. Procures an additional 17 thick skin wings in FY09, above baseline program.

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Advanced Targeting Pods (ATP) Procurement	170.0	Procures additional Advanced Targeting Pods and upgrades to existing pods fill warfighter requirements. Consists of \$44M (\$11M for 73 Video Data Link kits and \$33M for AFRC upgrades to LITENING pods) \$4M for initial spares, and \$122M for 61 additional ATPs (1-AFRC/33-ANG/27-ACC).
BRAC	235.0	Funding in the OSD BRAC account was reduced by the FY08 Omnibus Appropriation Act (\$939M); the AF share of the cut is \$235.2M. Restored funding is needed to maintain BRAC implementation schedules to meet the statutory 15 Sep 2011 completion date. Restoration of funds would fully fund the FY09 BRAC account.
C-37/C-40 Procurement (DV & COCOM Airlift)	642.8	Adds 7 C-37B aircraft and 1 C-40 -- 5 C-37Bs will replace aging VIPSAM C-20Bs in the current fleet. An additional C-37 will be assigned for CONUS based Combatant Commander support with the remaining C-37 and C-40 dedicated to AFRICOM.
C-40D Procurement (+3 aircraft)	370.0	Fund purchase of three multi-role C-40Ds for 932 AW at Scott AFB II. Current Combatant Command/CODEL mission requests exceed aircraft availability/capability with no defined solution to maintain or increase OSA fleet.
Cyber: Advanced Tactical Targeting Technology (AT3) ACTD Transition	5.0	Funds Nonrecurring engineering to install/integrate the ALR-69A/AT3 on A-10 platform. AT3 is a "card" inserted into a digital RWR (ALR-69A) to geolocate an RF threat. This is being demonstrated in an ACTD that completes in May 08 using pre-block 40 F-16s. These F-16s are too close to retirement to warrant this modification. The A-10 also uses the ALR-69 and also has a documented requirement for a new/improved RWR with geolocation capability.
Cyber: Air Force Agency for Modeling and Simulation	2.0	Funds an integrated Live, Virtual, Constructive (LVC) environment at the Air Force Warfare Center. The Modeling and Simulation Agency has been requested to provide Constructive simulation and to develop architectures, standards, databases, and networks to integrate with Live & Virtual for the purpose of broadening the Western Range complex for joint exercises.
Cyber: ALR-69A PLAID	12.7	Funds development of specific emitter identification and geolocation and Non recurring engineering for MC-130P aircraft (23).
Cyber: ALR-69A RDT&E Shortfall	7.7	Completes ALR-69A development, which provides aircrews with threat information and situational awareness to enhance self protection.
Cyber: Area Processing Center	28.7	To facilitate Command and Control of AF networks with reduced numbers of blue-suit communications experts, AFNetOps will provide AF users enterprise services (messaging, web, storage) from 11 regional network centers (known as Area Processing Centers or APCs). 3 of 4 APCs are currently funded. Request buys 4th APC to better synchronize AFNetOps with workforce reductions.
Cyber: COMPASS CALL Aircraft Survivability	19.7	Provides survivability for CAF EC-130 aircraft engaged in the Global War on Terrorism. Procures digital Radar Warning Receiver (RWR) for 14 EC-130s. Procures Emergency Locator Beacons, and paratroop doors with larger, square windows for 14 EC-130s and 1 TC-130H. Allows for detection and avoidance of radar threats.
Cyber: Defense Cyber Crime Center (DC3)	16.1	DC3 is the DoD's center of excellence for digital forensic analysis, media exploitation, RDT&E and training to support defense criminal investigations, counterintelligence, security organizations, Special Operations Forces and COCOMs. Funds additional contractor and civilian positions to improve capability. Purchases two Storage Area Networks with the ability to store over 150+ terabytes of digital media.
Cyber: Defense Red Switched Network (DRSN)	37.1	The AF maintains 35 red and 21 black DRSN switches that provide secure command and control communications. Current DRSN equipment has exceeded serviceable life and is difficult and costly to sustain due to unavailability of spare parts. Funding will upgrade 19 DRSN switches to the next generation switching platform to resolve obsolescence and increases subscriber capacity to meet requirements.
Cyber: EA Pod (ALQ-131 & 184)/Technology Transition Digital Radio Frequency Memory (DRFM)	22.0	Procures DRFM and advanced techniques generation for EA Pods to provide A-10 & F-16 RF Jx self-protection against the modernizing RF threat. Provides DRFM wave form development for electronic attack self protection systems thru tech insertion.
Cyber: EC-130H Electronic Attack Shortfall	31.3	Fixes immediate funding shortfall to complete one aircraft kit and associated training equipment required to meet current GWOT operations.

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Cyber: Knowledge Operations	67.5	Current servers/storage at AF installations are insufficient to support EIM deployment to APCs. Additional storage is needed to store site databases. Additionally, already installed HAF software requires continuous support.
Cyber: GCSS-AF	24.3	Provides O&M, plus hardware, software, middleware, and licensing required to support Expeditionary Combat Support System (ECSS) and the Defense Enterprise Accounting and Management System (DEAMS), as well as the Enterprise Information Management (EIM) program as a repository for unstructured information, such as documents, and associated services, such as records management and workflow, within the GCSS-AF construct.
Cyber: High Frequency Global Communications System (HFGCS) Station 17	14.9	There is currently no HFGCS station in the Southwest Pacific theater providing complete coverage of Australia/New Zealand and other areas west of Australia. WHCA requires additional coverage in the Southwest Pacific region. This funding will purchase a complete 4 level station; which includes site surveys to establish materiel requirements for transmit, receive and control sites; procurement of all equipment items; shipping, and contractor installation and testing support.
Cyber: Systems Defense	109.8	Upgrade Active Duty and AF Reserve network infrastructures to meet ensure overall Air Force mission assurance. The AFNetOps/CC identified survivable and resilient networks as a critical AFCYBER requirement. Accelerates Assured Service networks at 5 bases.
F-15 Modifications	437.9	Accelerates modification of F15C to meet changing threat environment: 24 APG-63(V)3 radar upgrades, Mode S/5, Avionics Control Unit (ACU), Secondary Power, Digital Video Recorder (DVR) F15E: Joint Helmet Mounted Cueing System (JHMCS), Mode S/5, Secondary Power, Digital Video Recorder (DVR)
F-16 Modifications	126.8	Accelerates modifications of F-16s for Centcom and Northcom taskings. Includes 18 PW -229 engines for Combat Coded Blk 42s, 126 Secure Line of Sight Radios (SLOS), 16 Beyond Line of Sight Radios (SLOS/BLOS) for Blk 30 series F-16s, Initial Production Units for Commercial Fire Control Computer (CFCC) for Blk 30 series F-16s.
F-22 Common Configuration	19.0	Reduces the six different Operational Flight Programs (OFP) in the F-22 fleet to three and upgrades earlier production aircraft to more recent configurations. Upgrades 5 F-22 Block 20 aircraft to Block 30 configurations.
Massive Ordnance Penetrator (MOP)	89.2	Addresses Joint Urgent Operational Need (JUON) for Hard and Deeply Buried Target (HDBT) capability. RDT&E (3600) \$83.7M, Aircraft Procurement (3010) \$5.5M
Modular Handgun System	116.4	Enhance combat capability of Battlefield Airmen, aircrew, security forces, AFOSI and other service users by providing 100,600 new modular handguns with improved ergonomic design and higher caliber effectiveness. This initiative has been reviewed and approved by the AFROC and sent forward to the Joint Staff for approval.
NATO C-17 Payments	61.7	The FY08 Defense Authorization Act authorized the transfer of one C-17 to the NATO Airlift Management Organization in support of the NATO Strategic Airlift Capability (SAC). Funds would be used for the US monetary cost share to fund US participation in the consortium, as directed by the DepSECDEF on 12 Jan 07.
Non-linear Battlespace Ops (Base Defense Group)	175.0	Equips a new Base Defense Group to meet emerging "Outside the Wire" requirements to operate in a high threat environment and to mitigate MANPAD, rocket and mortar threats. Funds Base Defense Group full logistics detail to include vehicles.
Non-linear Battlespace Ops (Fourth Squadron)	59.2	Adds a fourth squadron to the 820 Special Forces Group (SFG) at Moody to meet emerging "Outside the Wire" capabilities. Right sizes the 820 SFG to combat the prevailing asymmetric threat. Funds logistics detail to include vehicles for the fourth squadron.
Predator production surge (+ 10 air vehicles)	80.0	The MQ-1B Predator provides the Air Force's primary full motion video (FMV) capability. CENTCOM requirements are quickly outpacing the program of record as Combat Air Patrols (CAPs) increases are continually requested to meet urgent operational needs. Current program of record supports 21 CAPs by FY09, however recent surge requirements increased to 24 CAPs in FY08. The proposed plus-up adds additional MQ-1 aircraft, spares, and ground control stations to meet rapidly increasing full motion video requirements allowing MQ-1 to meet increasing FMV urgent operational needs.
ANG Recruiting and Retention Bonuses	33.1	The ANG will not be able to compete with other branches of service to attract the numbers of accessions needed which will affect mission readiness, unless the ANG can offer comparable incentive amounts. Enlistment incentives are vital in retaining and recruiting ANG members.

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ANG Recruiting and Retention Initiatives	10.8	The ANG will not be able to compete with other branches of service to attract the numbers of accessions needed which will affect mission readiness, in turn will effect meeting end strength for the 4th year in a row. The impact on individual members of the Air Guard is the above programs going unfunded and having to be terminated to the detriment of increased accessions and community awareness campaigns and support.
Recruiting Marketing	24.7	Funds will allow the Recruiting Service to utilize their most cost effective marketing tools to include TV Advertising, Sales Promotional Items (SPI), On-Line Advertising and Diversity Advertising. Historically, the number of visitors to Air Force recruiting websites increases during and immediately following an Air Force on-line banner ad, while SPI's activate potential recruits.
Energy Investment	368.8	Executive Order (EO) 13423 doubled energy reduction goal to 3% per year. This funding would directly support the EO goal; funds will be used for validated energy projects that meet life-cycle-cost business case analysis with savings-to-investment ratios greater than 1.50 and simple payback of 4-8 years.
Low Speed Vehicles	25.8	Accelerates the procurement of Low Speed Vehicles (LSV). An energy efficient, low cost alternative to the light duty class of vehicles. Funding ensures AF target of LSVs comprising 30% of Light Duty Vehicle fleet.
Required Force Networks-- Air National Guard	76.0	AF Roadmap beddowns weapon systems at 42 ANG installations. Predator and DCGS dependent on high-bandwidth, robust networking. All weapon systems rely on network for C2, crypto and reachback support. ANG networks significantly lag Active Duty installation capabilities. Procures fiber optic backbone, network equipment, encryption devices and building wiring for 10 ANG bases.
Academy Combat Squad Weapons Simulator	2.4	Funds a combat squad weapons simulator to provide realistic combat training scenarios. Enhances readiness and combat survivability to the warfighter. Force multiplier in that simulator would also be used in the combat training of 4,000 cadets, Airmen from 4 surrounding bases, USNORTHCOM and AFSPC.
AMRAAM Electronic Protection	6.7	Funds risk reduction in support of AMRRAM software upgrades that will provide protection against current and emerging advanced electronic attack threats. Joint effort with the Navy.
C-130 AMP-166 For AFSOC Aircraft	39.0	Begins AMP-166 program for AFSOC aircraft (17 X AC-130U, 8 X AC-130H, 20 X MC-130H), allows for a one-year acceleration.
C-130 IETMS Support	0.7	Infrastructure directly supports C-130 Interactive Electronic Tech Manuals (IETMS) and AMC's global visibility requirements by procuring rugged commercial of the shelf laptops. Equipment is required to use the C-130 IETMS being delivered in FY08, a \$60M Air Force investment.
C-5A Defensive Systems	18.0	Equip 12 of remaining 34 unprotected C-5As with Airlift Defensive Systems (ADS) allowing them worldwide access to fully support the Global War on Terrorism (GWOT)
Challenger 604 Aircraft	35.0	Buys one Challenger 604 aircraft to replace two C-21 aircraft. Supports Air Force Flight Standards Agency instrument procedures development, Operation Noble Eagle, and Combat Flight Inspection surge capability.
Consolidated Remote Operations Facility-Airborne (CROF-A) Upgrade & DGS-4 System Support	0.8	Procures 10 additional CROF-A Deployable Ground Intercept Facility (DGIF) workstations to provide intelligence & direct threat warning to GWOT warfighters with an additional 4 Deployable Ground Intercept Facility (DGIF) Workstations ISO EUCOM, CENTCOM, & AFRICOM
Counter-Chemical Biological, Radiological, Nuclear (C-CBRNE) Ops (Counter-Proliferation)	12.0	Buys down unfunded requirement for oversight and synchronization of combating WMD activities across all five counterproliferation pillars: Proliferations Prevention, Counterforce, Active/Passive Defense, and Consequence Management.
CSAF Innovation Programs	14.5	Funds additional rapid prototyping, op eval & fielding of short notice, high payoff innovations; classified MQ-1 mission support/enhancements; ROVER streaming full motion video; Falconview mission planning integration.
CSAR C-130 Emergency Locator Beacon (ELB)	2.4	Replaces legacy Emergency Locator Transmitters (ELTs) which will be obsolete on 1 Feb 09. ELBs operate on a different frequency than the legacy ELTs, and provide Search and Rescue forces accurate positional data essential to quick recovery of personnel and equipment.

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DCGS Intelligence Fusion	11.1	Procure Workstations, software, tech refresher to support three AF DCGS DARTS. Sustains contract analyst personnel for 3 DCGS Analysis and Reporting Teams (DARTs), (DGS-1/-2, and the National Air & Space Intelligence Center (NASIC)) and procures tools/capabilities for NASIC consistent with other DARTS.
Defense Meteorological Satellite Program-SCU Replacement	3.3	Buys 16 of needed 32 Satellite Communication Unit Replacements (SCU-R). Current SCU are no longer supportable and are being maintained by cannibalization. Funding will accelerate replacement, reducing risk of losing ground sites and interruptions of critical data supporting 1-01 missions.
Digital Airport Surveillance Radar (DASR)/DoD Advanced Automation System (DAAS) Upgrades	13.0	Buys DASR/DAAS for Selfridge and DASR for Holloman.
Dorm Furnishings	13.0	Funds replacement of current furnishings inventory at 14% annually, in accordance with Air Staff goals.
F-16 HARM Targeting System R7 Pod Procurement	29.5	Procures 35 R7 pods to achieve CSAF directed inventory of 292 pods for a 1:1 pod to aircraft ratio with 10% spares. FY08 GWOT request addresses this requirement. If FY08 GWOT is approved, this requirement is satisfied.
F-22 Squadron Operations Support	15.4	Funds squadron operating costs associated with additional squadrons, consistent with O&M costs experienced at operating locations. Includes engineering tech data, general support equipment, computer and classified security.
GEO Base (IGI&S) Install Mapping/VIZ	63.5	Installation Geospatial Information and Services (IGI&S) leverages existing relational databases, geospatial information systems (GIS), global positioning systems (GPS), remote sensing, and imagery to reduce decision risk for commanders through improved C2 and situational awareness. Provides aggregate view of mission space; reduces potential damage to AF assets and loss of life and enables critical mission areas supporting real property accountability, environmental liabilities, airfield obstruction management, explosive safety siting, aircraft parking, emergency response operations, and expeditionary beddown planning.
Global Hawk Block 20/30 Shelters	6.0	Funds new shelters needed to beddown Block 20/30 aircraft at CENTCOM FOL. Current shelters house Block 10 aircraft which are smaller and too narrow to accommodate Block 20/30. Due to harsh weather conditions, the aircraft cannot be unsheltered.
Ground Combat Training Squadron (GCTS)	2.1	Funds GCTS operations and maintenance at a capability level necessary to support recurring training. Funds cost of unit travel, per diem and excess baggage costs of AFMC SF personnel assigned to deployable UTCs to attend required training.
Ground Multi-band Terminal	20.7	Funding accelerates purchase of 18 units by one year and levels production spike in FY10. Allows the users to transition from the aging/obsolete Ground Mobile Forces fleet one year earlier and move from expensive commercial SATCOM to military SATCOM while keeping industrial base at a more constant level.
HARM DEAD Attack Module Procurement	30.8	Provides tooling, test equipment and procurement of approx 200 HARM Destruction of Enemy Air Defenses (DEAD) Attack Module (HDAM) Modification Kits. The HDAM is a modification to the AGM-88C missile control section to add precision navigation capability.
HC/MC CSAR Capability Enhancements	2.7	Includes installation of Enhanced Ground Proximity Warning System (EGPWS) and Tactical Data Link (SADL). EGPWS provides aircrew instant terrain situational awareness and predictive (look-ahead) aural and visual ground collision warnings. SADL allows interoperability with other airborne and ground assets on the battlefield which greatly enhances situational awareness during Combat Rescue missions.
HC-130 Recap/MX Training Support	133.7	Provides one HC-130J, long lead spares, and training systems for a full modernized aircraft with CNS/ATM compliance.
Hydrophone Replacement	9.0	Replaces aged/decaying system of ocean floor hydrophones at Reagan Test Site used to score reentry vehicle impacts for ICBM test launches.

Requirement	FY09 Amount (\$M)	Item Description
ICBM Defense Access Roads	21.7	Keeps ICBM Transporter/Erector routes capable of supporting transit of key maintenance vehicles. Accomplishes necessary work to maintain 310 miles of gravel roads per year, addresses structural deficiencies and completes assessment of 3 missile wings road inventory.
ICBM Generator Replacement	1.0	O&M unfunded in support of the ICBM diesel electric unit (generators) at the Missile Alert Facilities and Launch Facilities.
Intelligence Broadcast Receiver (IBR) for MC-130W	12.0	Fund permanent installation of a IBR system and integration of a Tactical Interface Unit, Machine to Machine Server and display for the MC-130W aircraft.
JASSM Weapons Data Link (WDL)	23.9	Develops ASuW (attack capital ships at sea) capability for JASSM. JASSM program recertification pending Apr 08.
Joint STARS Reengining Ship Set	63.0	This FY09 buy will allow earlier procurement of one shipset of engines (4) accelerating retrofit for one aircraft by 1 year saving approx \$63M in overall inflation, EPA, sustainment, and maintenance costs. Improves mission capable rates due to high failure rates.
Joint Theater Air Ground Simulation System (JTAGSS)	3.1	Provides capability for ASOC and TACP units to train/rehearse command and control battlestaff skills in a DMO environment with TACS/AAGS units.
Joint Threat Emitter (JTE) Double Digit Capability	10.7	Funds RDT&E to accelerate JTE spiral development of double digit Surface-to-Air Missile (SAM) threat training.
LAIRCM	437.6	Accelerates purchase and installation of 49 LAIRCM Kits and 10 NexGen Missile Warning System. Improves AF's ability to fully and rapidly support COCOMs, decreases operational risk on aircraft with current defensive systems and negative fallout of inadvertent flare dispenses.
M-4 Carbine for Joint Sourcing Solution Requirement	11.4	Procure 6,500 M4 carbines with M-58 Close Combat Optics to support ongoing Joint Sourcing Solution taskings (formerly In Lieu Of (ILO)). Majority of JSS tasking require the M-4 combat rifle.
M-4 Carbines to Modernize the Force	367.0	Funds upgrade of Vietnam era M-16/M-16A1 rifles to the M-4 Carbine with M-68 Close Combat Optics. Procures 210,000 weapons.
MC-130 Recapitalization	93.7	Buys one additional MC-130 recap aircraft in FY09
MILCON Projects	748.5	MILCON program funds construction, improvement, planning, and design of facilities required for mission beddown and recapitalization of real property. MILCON is a significant enabler of Air Force missions as we operate, train, and live at our installations. Adjustment will fund projects in priority order based on the AF's funded FYDP list to bring the Facility Recapitalization Rate from 110 yrs to 67 years in FY09.
MM ALCS Support Equipment	13.6	Test station to verify operation of ALCS equipment aboard Navy E-6B aircraft. Re-hosts obsolete/failing ALCS Test Station on existing Ground MM Automatic Test System (GMATS).
MM Codes MC3	8.1	Master Code Cartridge Conversion Program. Current Code Processing System cannot accept data on CD-ROM media. NSA to deliver Master Codes on CD-ROM beginning in FY11.
Mobility Air Intel System	1.4	Program funds training, sustainment and maintenance of classified Mobility Air Force Intel network/systems and web applications that tie together Air Operations Center, Air Mobility Command's global enroute structure, and 91 Active, Guard, and Reserve units.
Mobility Aircraft Surveillance and Navigation	44.6	Provides Enhanced Mode S capability for C-5, KC-135, C-32, and C-40 aircraft allowing uninhibited access to CNS/ATM European airspace beginning in 2009. C-5 SAASM ensures GPS integrity by enhancing signal security.

Requirement	FY09 Amount (\$M)	Item Description
MP-RTIP Development	285.5	Accelerates MP-RTIP development while the AF determines the most viable platform to carry the future MP-RTIP sensor.
Personal Protective Equipment	3.6	Provides funding for replacement and modernization of deployable equipment (impact gloves, Advance Combat Helmet (ACH), knee pads, elbow pads, Surefire lights and Interceptor vests with ESAPI plates). This equipment is necessary to provide force protection and support mission accomplishment during deployment.
Physical Security Equipment	59.9	Physical security equipment provides physical security of protection level 1, 2, and 3 assets required to meet both AF requirements and mitigate the prevailing threat. Funds validated AT/FP vulnerability mitigation equipment at AF Materiel Command bases. Supports program reviews, vulnerability assessments and other force protection evaluations, as well as Mobile Training Teams (MTT).
SAR Complex Acceleration	2.0	Provides the appropriate data for MASINT analysis to identify high-value targets. Current capacity resides on U-2 which is scheduled to retire in FY12. Acceleration will deliver capability to RQ-4 in FY12 vice FY13.
SBIRS Ops & Training	71.2	Funds capabilities not currently included in the increment 2 baseline. Funding is required to develop a SBIRS Increment (Inc) 2 training capability to merge the current Inc 1 Defense Support Program (DSP) training with the required Highly Elliptical Orbit (HEO) payload & Geosynchronous Earth Orbit (GEO) satellite training. Funding would be used to fit-up the current MCSB-H facility for Inc 2 operations. Inc 2 operations includes SBIRS ground control, SBIRS telemetry, tracking and control (TT&C), SBIRS mission management/sensor tasking, and SBIRS mission processing/reporting.
Science and Technology	25.2	Additional funding required to support AFRL programs designed to prepare AF for future challenges (via Propulsion, Cyber Defense, Space Situational Awareness, etc.); UPL adds funding to variety of AF S&T programs spread across the AFRL Tech Directorates to further develop these critical capabilities.
Science and Technology (Directed Energy)	5.0	The Advanced Tactical Laser (ATL) funding will allow the Air Force to comply with SECAF ATL letter of 5 Sep 2006 to Congress. It will supplement funding added in the FY09 PB, and allow the Air Force to conduct meaningful demonstrations to support user evaluations of airborne tactical high energy laser weapons.
SDT	74.4	Funds movement of AF material to support overseas locations to include subsistence items. Includes APO mail and AFMC Centrally Managed Account (CMA) which funds various shipments including vehicles, munitions and ground equipment.
Security Forces LOGDET Requirements	7.4	The Air Base Defense Program requires logistics detail (LOGDET) equipment and provides for the sustainment of security forces (CONUS, OCONUS, and in-place mobility) assigned to detect and defeat various threats directed against Air Force resources and personnel during peacetime contingencies and execution of war plans.
Small Diameter Bomb (SDB) I Focused Lethality Munition (FLM)	6.0	Procures low rate initial production (100) of SDB I FLM, following completion of the Joint Capabilities Technology Demonstration. Meets COCOM desire for a low-collateral damage weapon.
Space Professional Development	2.8	Funds development/sustainment of advanced courses and distance learning programs at the National Security Space Institute.
Space Superiority/Missile Warning O&M	38.3	Funds higher sustainment costs and improved operations of the Space Test and Training Range, Upgraded Early Warning Radars, dedicated radars for AF Space Surveillance System, and Space Surveillance Network.
Standard Space Trainer	5.2	Deliver a single Standard Space Trainer (SST) for C ² operator training that employs commercial off-the-shelf (COTS) hardware and operating systems, and one common training system architecture which will launch system-specific simulations developed to execute space operations training for a number of different satellite systems.
T-1A Simulator for Columbus AFB, MS	11.0	Aircraft simulator device used to support Specialized Undergraduate Pilot Training (SUPT) and Pilot Instructor Training (PIT). The acquisition of one additional T-1A simulator (T96) for Columbus AFB, MS. Columbus currently has 2 T-1 simulators and the other SUPT bases Laughlin AFB TX, and Vance AFB, OK, each have 3 devices. (plus one at Randolph AFB for PIT).

Requirement	FY09 Amount (\$M)	Item Description
Trainer Aircraft Shelters for Sheppard AFB, TX	5.1	\$5.1M provides the US portion for building 70 T-6 and 36 IFF T-38C aircraft shelters at Sheppard AFB, TX. The primary reason for constructing aircraft shelters is to protect sophisticated aircraft electrical components from UV radiation and structures from hail, sun, rain, freezing rain and snow. Costs are shared with Euro-Nato Joint Pilot Training nations.
Training: Centralized Air Mobility; Digital Airport Surv.; Tactics and Training Ctr Upgrade	4.1	Tactical vehicles for use in Tactical Security Element--high priority training for USAF SF forces to protect OSI agents outside the wire and downrange. Also Air Advisor Course, a training program teaching shoot-move & communicate combat skills to USAF personnel being deployed to train Iraqi Air Force. Funds nuclear, space and pre-deployment training (AFSPC). For nuclear training this is the only location our nuclear field members receive team training on nuclear recapture/recovery skills, off-base nuclear convoy tactics, and the Tactical Response Force teams receive certification to comply with DoD S-5210.41M requirements. Provide centralized computer systems and training for all Air Mobility Training, relieving AMOSs and AMDs from the responsibility. Initiative is for FY09 only.
Transportable Digital Airport Surveillance Radar	45.7	Purchases two Transportable Digital Airport Surveillance radar (T-DASR) systems with associated displays, automation systems, voice switch, radios, operations shelters and engine generators.
UH-1N Helicopters	34.0	Funding for 24 hour helo maintenance contract, 65 transponder/emergency beacons, 28 rescue hoists, 20 gun mounts, 27 multiple integrated laser engagement system kits and 1000 additional flight hours. Funds also required to meet Programmed Depot Maintenance schedule of 8 aircraft/year and 5 engine overhauls.
Upgrade for Link-16 & IBS-I	2.0	Currently the DGIF Multi-Source Correlation System is not able to automatically update Link-16 and IBS-I systems that result in critical delays in information transfers. Upgrade will decrease timelines associated with passage of threat warning intel to the warfighter by minutes.
VC-25 Lower Lobe Cooling	2.5	Installs a Lower Lobe cooling system on second VC-25 aircraft. Heat problems in the Forward Lower Lobe have caused critical systems to shut down and can not be reactivated until lower lobe temperature has cooled.
Vehicle Denial Barriers	4.3	Funds installation of 8 shallow mount final denial barriers at Tinker and 1 at Hill AFB (AFMC). Funds purchase of final denial barriers - (12) at Hanscom AFB and (44) at WPAFB.
Voluntary Protection Program	2.0	Buys materials and contracted support to assess, train and implement DoD-directed/SECAF-endorsed Voluntary Protection Program (VPP) Implementation for improved ground safety and reduced injuries at Air Force installations.
WC-130J Civil SATCOM	5.3	Congress directed the 53rd Weather Reconnaissance (reconn) Sq to perform weather reconn as a critical protection measure for DoD installations and East and Gulf coasts populations. The National Hurricane Operations Plan (NHOP) requires tasked reconn missions to be flown at altitudes too low for radar coverage and line-of-sight communications, yet within Federal Aviation Administration (FAA) controlled airspace. Procures 20 Civil SATCOM radios.
Weapon Telemetry Kits	1.2	Procures telemetry kits for AGM-130 to enable fully realistic training and testing at the Weapon System Evaluation Program.
Weather Agency Ops Transition	3.4	Congress appropriated \$34M (MILCON) for construction of a new building for AF Weather Agency. Funds the transition of operations from the current structure.