

DEFENSE BASE REALIGNMENT AND CLOSURE COMMISSION
2521 S. CLARK STREET, SUITE 600
ARLINGTON, VIRGINIA 22202
(703) 699-2950

MEMORANDUM OF MEETING

DATE: June 15, 2005
TIME: 9:00 am
MEETING WITH: Wright-Patterson AFB and Community Officials
OBJECTIVE: To discuss the BRAC recommendations affecting WPAFB
JCSG STAFF: Lester C. Farrington
Lesia Mandzia

OTHER COMMISSION PARTICIPANTS:

None.

NON-COMMISSION PARTICIPANT(S):

Name/Title/Phone Number

WPAFB OFFICIALS

COL Peter F. Hoene--AFMC Special Assistant for BRAC, 937-257-8975
Linda McLaughlin--Ass't. to the Commander, 88th Base Wing, 937-257-3942
CAPT Jason Decker---Public Affairs, 937-257-6306
Mark Paulson--AF Research Lab, 937-904-6765
Debra Miesle--AFMC/SGS, 937-656-3652
Wendell Banks--AF Research Lab, 937-656-0818DPCX,
William Borger---AF Research Lab, 937-255-2520
Charlene Xander---AFMC/Manpower, 937-257-0323
Tom Stafford--AFMC/XPS, 937-257-4141
Paul Ulrich--46OG/OGM/OL-AC, 937-255-6302
John Murphy---46)G/OGM/OL-AC, 937-255-6302
CAPT Elizabeth Miller--AFMC/SGSR, 937-656-3647

Lori Stryker---AFSG/OMY, 937-257-8389
Lynn Moad---DFSG/DC, 937-257-2714
Doug Fleaser---DFSG/OM, 937-257-1955
Pete Jacques---88 ABW/LGRRP, 937-904-3160
Gus Reed---AF Research Lab, 937-255-3267
Jay Asher---ASC/XPP, 937-904-8572
Barbara O'Brien---88 ABW/CECX, 937-257-4804
Linda Cardwell---88 MSS/DPC, 937-257-3699
Jerry Stryker---88 MSS/DPCX, 937-257-1888

COMMUNITY OFFICIALS

Louis C. Ferraro, Jr.,-- Ferro Consulting, 937-427-3834
Jim Leftwich---Dayton Development Coalition, 937-229-9074

MEETING RESULTS/FOLLOW-UP ACTION:

We met with the community officials at a separate meeting outside the base following the meeting with WPAFB officials.

Air Force officials provided us with a Mission Briefing of Air Force Materiel Command and then discussed each of the 7 BRAC recommendations affecting WPAFB. (4 technical, 2 medical and 1 hqs. & support). The net effect of these recommendations is a GAIN of 589 military personnel and a LOSS of 170 civilian personnel. Following the discussions we were given a windshield tour of Area B of the base that will be affected by the recommendations.

WPAFB officials made the point that they support the Secretary of Defense BRAC recommendations and they are not in a position to speculate or provide opinions on the results or the analysis behind the recommendations. After discussing each recommendation, WPAFB officials stated that the recommendations are not without challenges. Three challenges were discussed—(1) manpower (recruiting sufficient numbers of people for the skills required, (2) MILCON (determining the most appropriate locations to build on the base) and (3) implementation (ensuring organizational changes don't impact mission, ensuring new structure is aligned with common goals and metrics and the reconstitution of specialized functions).

WPAFB officials made the point that the Base has sufficient capacity and space to accommodate the influx of added workload to be received. They further stated that with respect to the sensor work to be received from Rome Lab, the work is compatible with the work that WBAFB now performs on sensors. Officials estimated that 718 people now work in WPAFB's Sensor Directorate (138 officers, 1 enlisted, and 579 civilian personnel).

As a result of our visit, WPAFB agreed to take on the following action items at our request:

1. **The number of people in WPAFB, Rome & Hanscom Sensor Directorates**
2. **Clarification of terminology—DFSG, OSSG & CFS.**
3. **The intent of the Rotary Wing Transfer—V-22, PRV, or both?**
4. **A discussion as to what (function and people) is moving out of WPAFB to China Lake concerning Live Fire testing. More precise terminology and specifics needed.**
5. **The intent of the CP0 consolidation (Hqs. & Support)**
6. **Results of recent WPAFB review of manpower impacts (SWAT team results).**
7. **Any disconnects/inconsistencies identified by WPAFB concerning the BRAC recommendations that need clarification.**
8. **Map of WPAFB showing facilities/areas affected by BRAC recommendations (incoming & outgoing)**

COMMUNITY MEETING

Community officials take issue with the recommendation that calls for Development and Fielding Group (DFSG) and other Operational Support Systems Group elements to Hanscom (Tech-6, 22). They are concerned with the evaluation of military value and the lack of available real estate at Hanscom to accommodate the movement from WPAFB.

They made the following points:

1. **Evaluation of military did not capture all available data**
2. **Local Dayton information technology contractors were not accounted for in the calculation of military value.**
3. **Collocation of acquisition and users should be maintained at WBAFB.**
4. **DOD does not perform IT R&D on Business Management Operations.**
5. **Inclusion of a business systems acquisition organization like DFSG in C4ISR was inappropriate and misleading.**
6. **Sufficient land for MILCON is not available at Hanscom AFB. Roughly, 40 acres are required and only 8.4 unconstrained acres are available.**
7. **Relocation to Hanscom does not adequately address the enormous differences in cost of operations between Hanscom and WPAFB.**

Community officials provided a working paper and other data at the conclusion of the meeting.

Air Force Materiel Command



Mission Briefing

May 2005



"War winning capabilities... on time, on cost."

Scope & Scale

Centers & Roles

Bottom Line



Air Force Materiel Command



Deliver War-Winning...

-- Technology

-- Acquisition Support

-- Sustainment



...Expeditionary Capabilities to the Warfighter



AFMC - Span of Operations



Human Systems



Research & Development



Testing
Weapon Systems

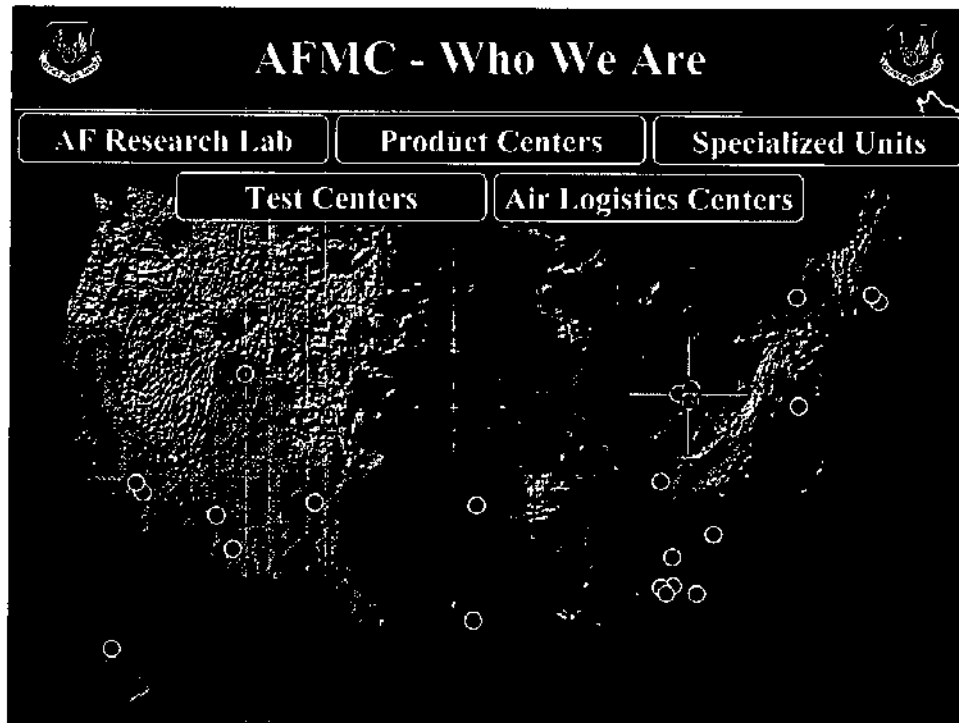


Delivering
Weapon Systems



Sustainment





AFMC - The People

	<u>AFMC*</u>	<u>AF*</u>	
Officers	7,150	72,752	10%
Enlisted	15,566	281,321	6%
AF Civ.	56,329	142,763	40%
Totals	79,045	496,836	16%

*31 May 05



AFMC - Global Operations

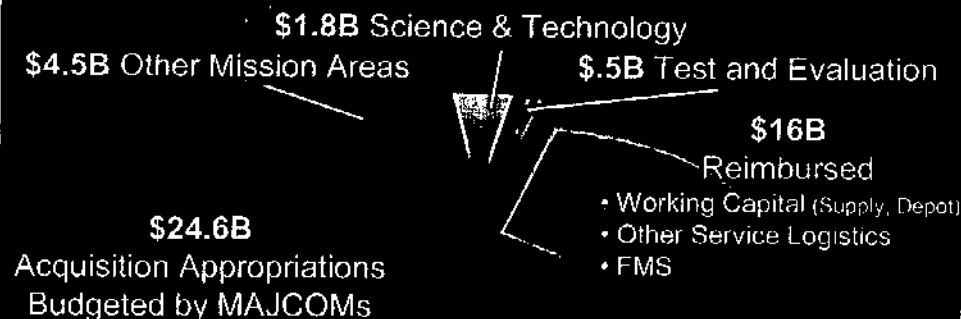


AFMC - Financial Highlights



\$47.4 Billion Managed*

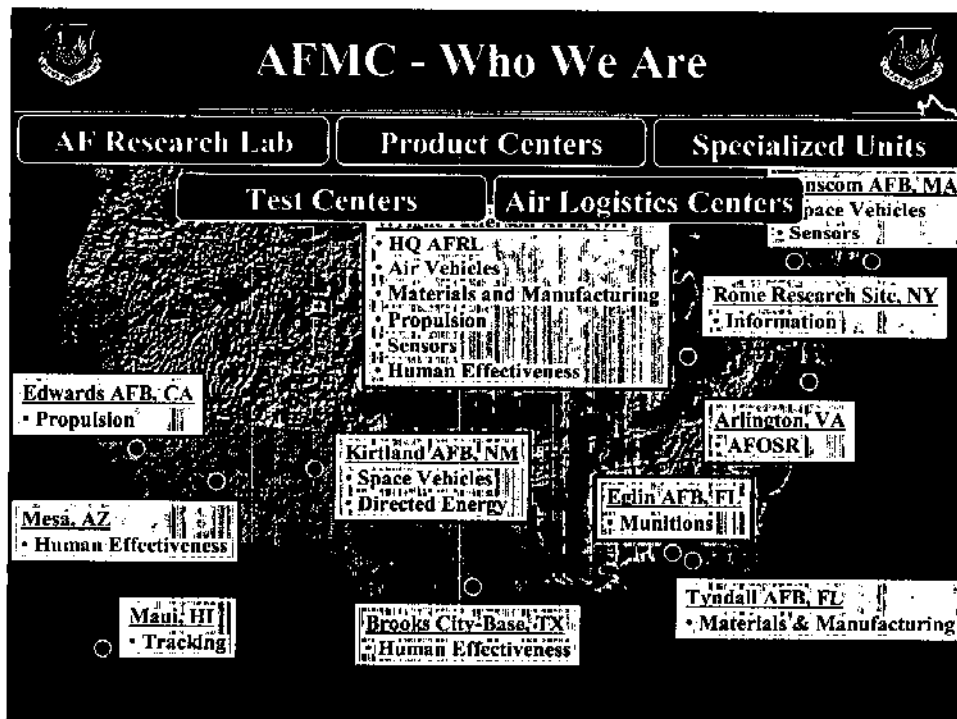
AFMC FY05 = \$6.8B



*FY05 Projected



Scope & Scale
Centers & Roles
Bottom Line





Air Force Research Lab



**“The First Essential of Airpower is
Preminence in Research”**

-Gen. H. H. Arnold, 1944



Air Force Research Lab



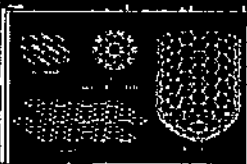
- **Biotech**
- **Nanotech**
- **Directed Energy**

Biotech

- Technology that exploits biological systems at the molecular level.
- Possible Payoff: self-healing space systems

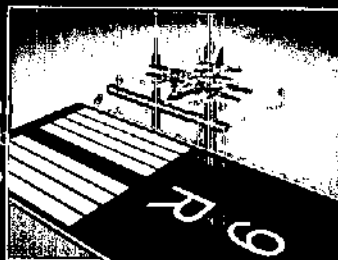


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NanoTech

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Directed Energy

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AFMC - Who We Are

AF Research Lab
Product Centers
Specialized Units

Test Centers

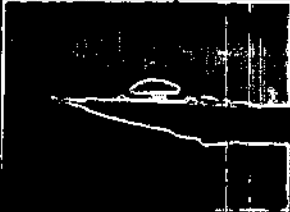

Hanscom AFB, MA
• Electronic Systems Center (ESC)

Wright Patterson AFB, OH
• Aeronautical Systems Center (ASC)



Eglin AFB, FL
• Air Armament Center (AAC)

AFMC Product Centers

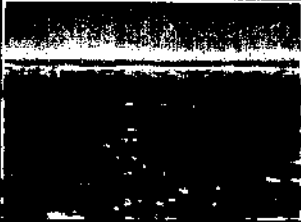

Aeronautical Systems Center
Wright-Patterson AFB OH

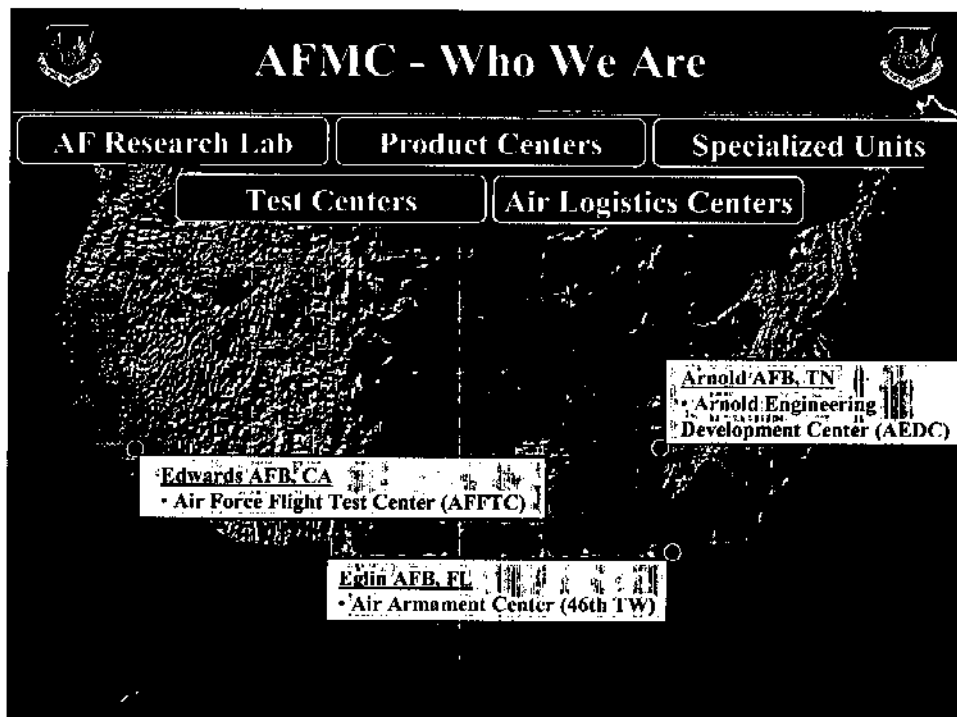
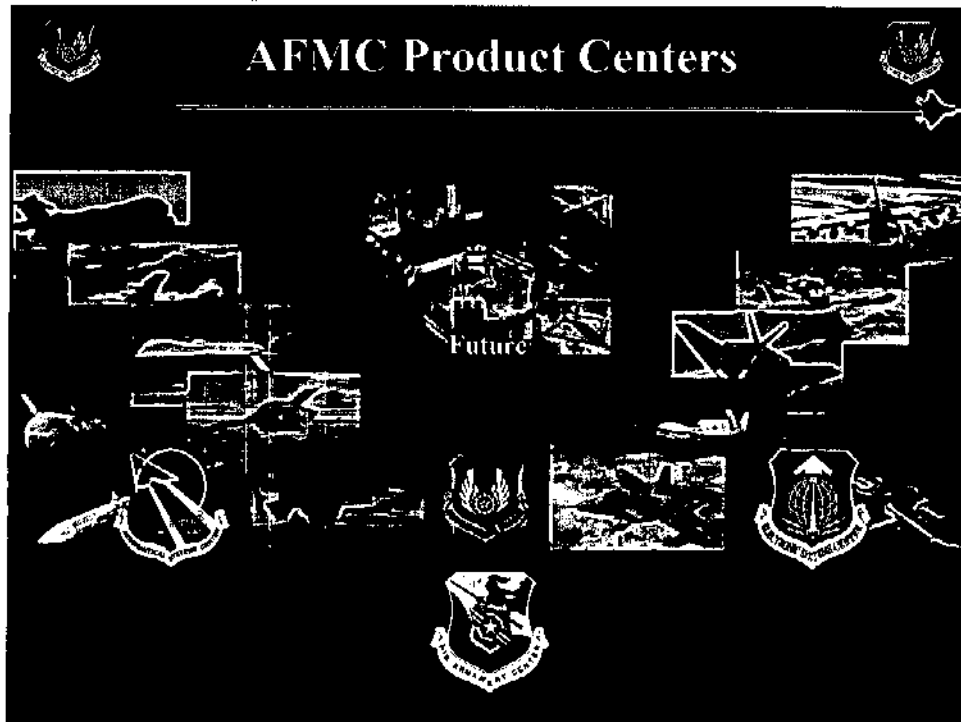



Air Armament Center
Eglin AFB FL

Electronic Systems Center
Hanscom AFB MA



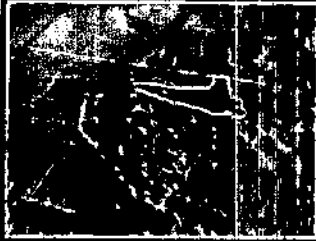


AFMC Test Centers



Air Force Flight Test Center
Edwards AFB CA

Air Armament Center
Eglin AFB FL



Arnold Engineering Development Center
Arnold AFB TN

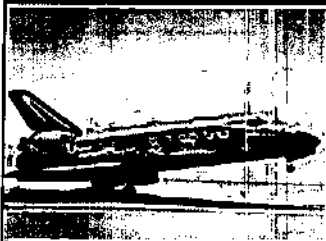


AFMC Test Centers



Air Force Flight Test Center
Edwards AFB CA

Air Armament Center
Eglin AFB FL



Arnold Engineering Development Center
Arnold AFB TN



AFMC - Who We Are

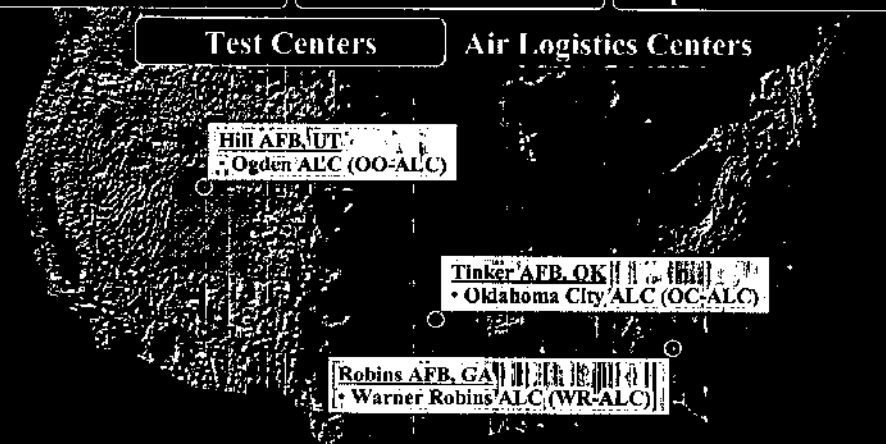
AF Research Lab

Product Centers

Specialized Units

Test Centers

Air Logistics Centers





Hill AFB, UT
 • Ogden ALC (OO-ALC)

Tinker AFB, OK
 • Oklahoma City ALC (OC-ALC)



Robins AFB, GA
 • Warner Robins ALC (WR-ALC)

Air Logistics Centers



Oklahoma City ALC
Tinker AFB OK

Ogden ALC
Hill AFB UT

Warner Robins ALC
Robins AFB GA



Air Logistics Centers



Oklahoma City ALC
Tinker AFB OK

B-1
B-2
KC-10
B-52
KC-135



Ogden ALC
Hill AFB UT

F-16
A-10
T-37/T-38
C-130
B-2
ICBMs
Landing Gear
Composites



Warner Robins ALC
Robins AFB GA

C-5
C-17
C-130
U-2
F-15
Helicopters
Etc



AFMC - Who We Are



AF Research Lab

Product Centers

Specialized Units

Test Centers

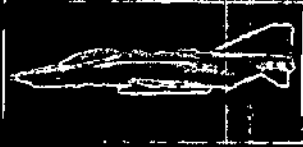
Air Logistics Centers

WPAFB, OH
• Air Force Security Assistance Center (AFSAC)
• National Museum of the US Air Force

Davis-Monthan AFB, AZ (ACC)
• Aerospace Maintenance & Regeneration Center (AMARC)



Specialty Centers



Aircraft Production—Regenerations*		
22	F-4E	Drone Program
2	C-9A	USAF
1	B-1B	
10	F-16	Italy
1	HU-25A	Coast Guard

Aircraft Production—Modifications*		
35	A-10A	USAF, AFRC and ANG
7	OA-10A	
Total Reclamation*		
Parts = 22,567		Value = \$695.2M

*FY04



AF Security Assistance Center



Radar Systems



Missiles

Night Vision Goggles

Contract Services

From a business perspective, FMS customers account for over 7% of the USAF wholesale supply & depot maintenance programs

AFSAC oversees decades of FMS sales, with current management responsibility for over 6,600 aircraft and 2,870 FMS cases



National Museum of the USAF



NATIONAL MUSEUM
OF THE UNITED STATES AIR FORCE



World's largest and oldest military
aviation museum

Significant volunteer staff (about 500)

1.2 million sq ft facility

Expanded into a new 200,000 sq ft hangar

Nearly 1.4 million visitors last year



Scope & Scale

Centers & Roles

Bottom Line



The Bottom Line



Our Vision...

To Be A Valued Team Member . . .

*Of The World's Most Respected
Air & Space Force*

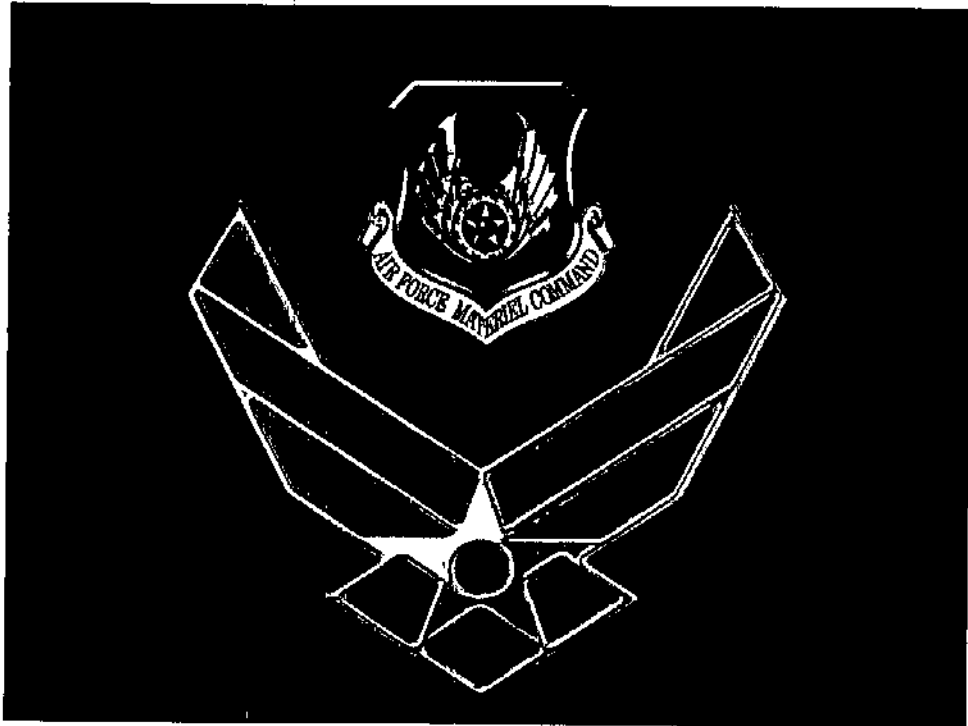
War-Winning Capabilities...On Time, On Cost



The Bottom Line



We deliver war-winning technology, acquisition support, and sustainment to the warfighter





AFMC

HQ AFMC
Briefing to BRAC Commissioner
Staffers
15 Jun 05
WPAFB, OH

1



AFMC

Overview

- ROE
- Criteria
- AFMC Base by Base Breakout
- Challenges
- Summary

2



Rules of Engagement



AFMC

- Support SECDEF recommendations
- Do not speculate or provide opinion on results or analysis behind them
- Follow Chain of Command and AF Comm Plan (PA channels) with regard to requests for information
- Support Commission visits to your installation
- Provide support for HQ teams
 - Provide full-time team to work with HQ AFMC site survey team
- SAF/PA is focal point for all requests for data



BRAC 05 Selection Criteria



AFMC

Military Value

1. Current/Future Mission Capabilities
2. Availability/Condition of Land, Facilities, & Associated Airspace
3. Ability to Accommodate Contingency, Mobilization, & Future Total Force Requirements
4. Cost of Operations & Manpower Implications

Other Considerations

5. Extent/Timing of Potential Costs & Savings
6. Economic Impact on Existing Communities
7. Ability of both Existing & Receiving Communities' Infrastructure to Support Forces, Missions, & Personnel
8. Environmental Impact for Restoration, Waste Management, & Compliance Activities



Wright-Patterson AFB Inbound



AFMCG

- **Inbound**

- **AFRL Sensors (AFRL/SN) from Rome NY and Hanscom AFB**
- **AFRL Human Effectiveness (AFRL/HE) from Brooks AFB and Mesa AZ**
- **Brooks City Base Closure**
 - United States Air Force School of Aerospace Medicine
 - Air Force Institute of Occupational Health
 - Naval Health Research Center Electro-Magnetic Energy Detachment
 - Human Systems Dev and Acq (Excluding Chem/Bio)
 - Disestablishing high-onset gravitational force centrifuge and relocating the physiological training unit to Wright-Patterson AFB from Holloman AFB.
- **Fixed Wing Aircraft Dev and Acq from Robins, Tinker and Hill**
- **Naval Aeromedical Research Lab from NAS Pensacola, FL**



Wright-Patterson AFB Outbound



AFMCG

- **Outbound**

- **AFRL Information (AFRL/IF) to Hanscom AFB**
- **Development and Fielding Systems Group (DFSG-- aka MSG)* to Hanscom AFB**
- **V-22 related Dev and Acq to Pax River MD**
 - Includes Personnel Recovery Vehicle (PRV)
- **Live Fire Testing (46 TW) to China Lake**
- **Consolidate CPOs at Randolph AFB**
- **Consolidate DLR Procurement in Place Under DLA**

* Organization not specifically identified in SecDef recommendations, but assumed to move



Brooks City Base



AFMC

- **Close Brooks City Base**
 - **To Wright-Patterson AFB**
 - United States Air Force School of Aerospace Medicine
 - Air Force Institute of Occupational Health
 - Naval Health Research Center Electro-Magnetic Energy Detachment
 - Human Systems Dev and Acq (Excluding Chem/Bio)
 - AFRL Human Effectiveness (AFRL/HE)
 - **To Aberdeen MD**
 - Human Effectiveness (311 HSW) Dev and Acq (Chem/Bio)
 - **To Lackland AFB**
 - Air Force Center for Environmental Excellence
 - Air Force Medical Support Agency
 - Air Force Medical Operations Agency
 - Air Force Element Medical Defense Agency
 - Air Force Element Medical-DoD
 - Air Force-Wide Support Element
 - 710th Information Operations Flight
 - 68th Information Operations Squadron
 - **To Ft Sam Houston**
 - Army Medical Research Detachment to the Army Institute of Surgical Research
 - **Disestablish any remaining organizations**



Hanscom AFB



AFMC

- **Inbound**
 - **AFRL Information (AFRL/IF) from Wright-Patterson AFB**
 - **Air & Space Info Systems Research and Dev. & Acq.**
 - Development and Fielding Systems Group (DFSG) from Wright-Patterson AFB*
 - Operations & Sustainment Systems Group (OSSG) from Maxwell-Gunter AFB*
 - Cryptologic Systems Group (CPSG--Dev & Acq) from Lackland AFB*
- **Outbound**
 - **AFRL Space (AFRL/VS) to Kirtland AFB**
 - **AFRL Sensors (AFRL/SN) to Wright-Patterson AFB**

* Organizations not specifically identified in SecDef recommendations, but assumed to move



Kirtland AFB



AFMCG

- **Inbound**
 - AFRL Space (AFRL/VS) from Hanscom AFB, MA
 - F-16 Block 30s to ANG from Cannon AFB, NM
 - Consolidate Army Reserve Center
- **Outbound**
 - Create single Southwest Regional Correction Facilities (to Miramar)



Rome NY, Mesa AZ, AFRL/AFOSR VA and Tyndall AFB, FL



AFMCG

- **Rome**
 - AFRL Sensors (AFRL/SN) to Wright-Patterson AFB
 - AFRL Information (AFRL/IF) Retained at Rome NY
- **Close AFRL/HE at Mesa AZ**
 - To Wright-Patterson AFB
- **AFOSR - Relocate to National Naval Medical Center, Bethesda, MD**
 - Co-Locate with Extramural Research Program Managers from Army Research Office, Office of Naval Research, DARPA, DTRA
- **Tyndall AFB, FL**
 - AFRL Chem/Bio Research to Aberdeen



Hill AFB



AFMPC

- **Inbound**
 - Realign base-level LANTIRN intermediate maintenance from Edwards AFB, CA; Mountain Home AFB, ID; and Luke AFB, AZ
 - F-110 Intermediate Maintenance from NAS Joint Reserve Base Fort Worth, TX and Nellis AFB, NV
 - F-16 Block 40 from Cannon AFB
- **Outbound**
 - Fixed Wing Aircraft Dev and Acq to Wright-Patterson AFB (Not Aircraft in Sustainment)
 - Weapons and Armament Dev and Acq to Eglin AFB (In-Service Engineering Only)
 - Consolidate CPOs at Randolph AFB
 - Consolidate DLR Procurement In-Place Under DLA
 - Retail Supply, Storage, and Distribution Management Reconfiguration
 - Relocate supply contracting function for tires to ICP at Defense Supply Center Columbus, OH
 - Privatize Commodity Management (Tires, Packaged POL, Compressed Gasses)
 - Distribute 419th Fighter Wing F-16s to Homestead ARB, FL and NAS Joint Reserve Base Fort Worth, TX



Robins AFB



AFMPC

- **Inbound**
 - Cryptologic ICP from Lackland AFB
 - Close NAS Atlanta
 - Consolidate/Co-Locate AF Personnel and Recruiting
 - Relocate Engineering Installation Squadron (ANG), from Middle Georgia Reg. Airport, GA
- **Outbound**
 - Rotary Wing Aircraft Dev and Acq to Redstone Arsenal AL (Not Aircraft in Sustainment)
 - Fixed Wing Aircraft Dev and Acq to Wright-Patterson AFB (Not Aircraft in Sustainment)
 - Consolidate CPOs at Randolph AFB
 - Consolidate DLR Procurement in Place Under DLA
 - Retail Supply, Storage, and Distribution Management Reconfiguration
 - Becomes Strategic Distribution Platform
 - Privatize Commodity Management (Tires, Packaged POL, Compressed Gasses)
 - 12 PAA of KC-135 aircraft to McConnell AFB



Tinker AFB



AFMC

- **Inbound**
 - 4 PAA of KC-135 from Portland IAP OR
- **Outbound**
 - Fixed Wing Aircraft Dev and Acq to Wright-Patterson AFB (Not Aircraft in Sustainment)
 - Global Air Traffic Operations Program Office (GATOPO) to Will Rogers Air Guard Station OK
 - Consolidate CPOs at Randolph AFB
 - Consolidate DLR Procurement in Place Under DLA
 - Retail Supply, Storage, and Distribution Management Reconfiguration
 - Becomes Strategic Distribution Platform
 - Privatize Commodity Management (Tires, Packaged POL, Compressed Gasses)



Eglin AFB



AFMC

- **Inbound**
 - Weapons and Armament Dev and Acq from Hill AFB (In-Service Engineering Only)
 - Defense Threat Reduction Agency from Fort Belvoir, VA
 - JSF Initial Training (AETC)
 - Realign 7th SFG from Ft Bragg NC (Army)
 - Relocate Armed Forces Reserve Center Expeditionary Combat Support manpower from NAS Joint Reserve Base Willow Grove, PA
- **Outbound**
 - C4ISR T&E to Edwards
 - Retire F-15s/MC-130Ps
 - Please Note: This is Not Listed as BRAC action in the SecDef's Recommendations



Edwards AFB



AFMC

- **Inbound**
 - Air & Space C4ISR T&E from Eglin
- **Outbound**
 - Create single Southwest Regional Correction Facilities (to Miramar)
 - Realign base-level LANTIRN intermediate maintenance to Hill AFB



Challenges



AFMC

- **Manpower**
- **MILCON**
- **Implementation**
 - Need to maintain mission focus during transition
 - Ensure organizational changes don't impact mission
 - Ensure new structure is aligned with common goals and metrics
 - Need to reconstitute specialized functions



Summary



AFMC

- **BRAC has entered Next Phase**
 - **Commission Review of SecDef Recommendations**
 - **8 Sep 05: Provide Recommendations to POTUS**
 - **Site Surveys—Gathering data for implementation**
 - **Draft P-Plan inputs**



AFMC

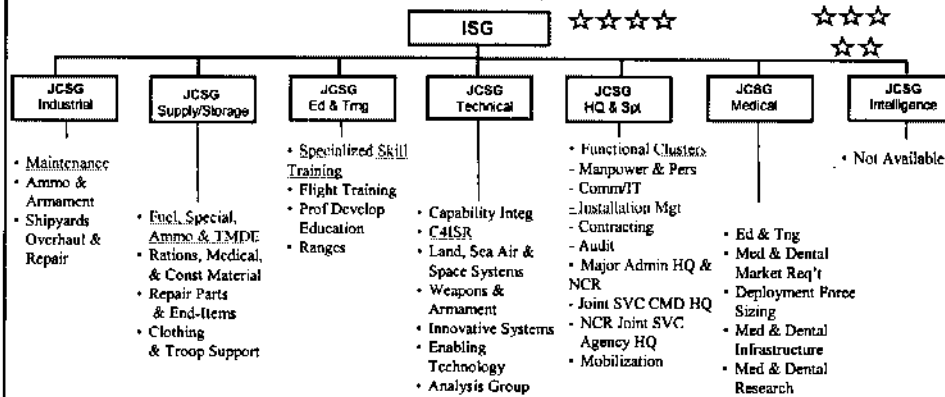
BACKUP



Joint Cross Service Groups (JCSG)



AFMOC



AF-Led Groups in Blue

Summary: 7 Joint Cross Service Groups;
55+ subgroups and working groups

[Return](#)

Dayton Development Coalition Working Paper

Excerpts from Technical Joint Cross Service Group Consolidate Air and Space C4ISR Research, Development and Acquisition, Test and Evaluation

Consolidate Air and Space C4ISR Research, Development and Acquisition, Test and Evaluation

Recommendation: Realign Wright-Patterson Air Force Base, OH, Maxwell Air Force Base, AL, and Lackland Air Force Base, TX, by relocating Air & Space Information Systems Research and Development & Acquisition to Hanscom Air Force Base, MA.

Justification: This recommendation will reduce the number of technical facilities engaged in Air & Space Sensors, Electronic Warfare, and Electronics and Information Systems RDAT&E from 6 to 2. Through this consolidation, the Department will increase efficiency of RDAT&E operations resulting, in a multi-functional center of excellence in the rapidly changing technology area of C4ISR.

Payback (Projected): The total estimated one-time cost to the Department of Defense to implement this recommendation is \$254.4M. The net of all costs and savings to the Department during the implementation period is a cost of \$115.3M. Annual recurring savings to the Department after implementation are \$36.2M with a payback expected in 8 years. The net present value of the costs and savings to the Department over 20 years is a savings of \$238.0M.

Economic Impact on Communities: Assuming no economic recovery, this recommendation could result in a maximum potential reduction of 2250 jobs (1262 direct jobs and 988 indirect jobs) over the 2006-2011 period in the Dayton, OH, Metropolitan Statistical Area, which is 0.44 percent of economic area employment. The aggregate economic impact of all recommended actions on these economic regions of influence was considered and is at Appendix B of Volume I.

Community Infrastructure: A review of community attributes indicates no issues regarding the ability of the infrastructure of the communities to support missions, forces, and personnel. There are no known community infrastructure impediments to implementation of all recommendations affecting the installations in this recommendation.

Environmental Impact: This recommendation has the potential to impact air quality at Hanscom. Additional operations at Hanscom may impact archeological sites, which may constrain operations. This recommendation may require building on constrained acreage at Hanscom. The hazardous waste program at Hanscom will need modification. Additional operations may impact wetlands at Hanscom, which may restrict operations.

This recommendation has no impact on dredging; marine mammals, resources, or sanctuaries; noise; waste management; or water resources. This recommendation will require spending approximately \$0.5M cost for waste management and environmental compliance activities. This cost was included in the payback calculation. This recommendation does not otherwise impact the costs of environmental restoration, waste management, and environmental compliance activities. The aggregate environmental impact of all recommended BRAC actions affecting the bases in this recommendation has been reviewed. There are no known environmental impediments to implementation of this recommendation.

DAYTON REGION RECOMMENDATION

The Development and Fielding Systems Group (DFSG) and other Operational Support Systems Group elements at Wright-Patterson Air Force Base (AFB) should *not* be realigned to Hanscom AFB for the following reasons:

1. Substantial data evaluations of DFSG's Military Value were not captured in the DOD BRAC analyses, and have the potential to increase the risk of failure in operations support acquisition programs, thereby jeopardizing logistics support for warfighting commanders.
2. Local Dayton Region IT development contractors supporting DFSG's acquisition mission are part of the intellectual capital and not accounted for in the calculation of Military Value. (The A&AS DFSG on-site contractors were factored into the BRAC equation).
3. DFSG provides acquisition services to AFMC functional users, who then, enabled by the business (i.e., operational support) systems, provide capability to the war fighter. Geographical separation of the acquisition service provider (DFSG) from the functional users and managers at Headquarters AFMC injects significant risk of acquisition program failure and increased costs. This collocation of the service provider (DFSG) to its users and system managers (located at Wright-Patt AFB) is a major critical element in the success or failure of development and fielding according to both government auditors and private industry research publications. (Source: Gartner Research & GAO-05-381, April 29, 2005; GAO-05-723T, June 8, 2005)
4. The Department of Defense does *not* perform IT Research and Development on Business Management (Operations Support) Systems. DOD's announced policy for its Business Management Modernization Program (Air Force identifies it as Operational Support Modernization Program) is to acquire Commercial-Off-The-Shelf (COTS), specifically Enterprise Resource Planning, solutions.
5. The inclusion of a **business systems acquisition** organization like DFSG in the broad C4ISR category was inappropriate and misleading. Most of the work

conducted at Hanscom AFB relates to developing and acquiring embedded C4ISR systems and subsystems rapidly produced as **weapons systems** for the warfighter. DFSG is an Acquisition organization focused on assisting its functional customers with business process reengineerings, evaluating the functionality of commercial-off-the-shelf business management solutions like Enterprise Resource Planning, managing requirements put in Requests For Proposals, and managing the acquisition and fielding of business management, aka operational support systems for the Air Force and DOD.

6. Sufficient land for Military Construction Programs is not available at Hanscom AFB. "Roughly 40 acres" are required. "Hanscom reported its largest parcel is 18.27 acres, and only 8.4 unconstrained acres are zoned for industrial ops." (Source: Summary of Scenario Environmental Impacts – Criterion 8, Technical Joint Cross Service Group, Consolidate Air and Space C4ISR Research, Development and Acquisition, Test and Evaluation).
7. The DOD recommendation to realign DFSG, and other Operations Support Systems Wing elements located at Wright-Patterson AFB, does not adequately address the enormous differences in cost of operations between Hanscom AFB, MA and Wright-Patterson AFB, OH. Examination of the "Economy" and "Cost of Living" data in the following table reveals that costs of operation for activities realigned to Hanscom AFB will soar because of locality pay differentials, difficulty in hiring qualified Government and contractor personnel (lower unemployment rate in Boston), housing costs, etc.

**Table I
Personnel Projections**

Source of Numbers	2006-2011 Period			Total
	Direct Job	Indirect Job	Non-A&AS	
BRAC Report	(1262)	(988)	0	(2250)
Local Validation	(1262)	(988)	(2400)	(4650)

**Table II
Economic Projections**

GENERAL	Dayton	Boston	Washington	Los Angeles	US Avg.
State	OH	MA	DC	CA	USA
Population	168,256	557,056	511,636	3,687,700	290,809,777
County	Montgomery	Suffolk	District of Columbia	Los Angeles	N/A
Metro Area	Dayton-Springfield	Boston	Washington	Los Angeles-Long Beach	N/A
Population	168256	557056	511636	3687700	48,662
RACE					
White	59.50%	56.20%	30.90%	50.80%	81.80%
Black	39.10%	28.70%	63.40%	14.00%	10.40%
Asian	1.00%	8.20%	2.80%	12.40%	11.60%
Amer. Indian	0.20%	0.40%	0.30%	0.40%	0.80%
Other	0.20%	6.50%	2.70%	22.40%	3.50%
Hispanic	1.00%	14.80%	7.60%	49.70%	11.00%
PROFESSIONS					
Executive	10.20%	14.40%	16.30%	13.00%	12.60%
Professional	12.30%	18.60%	23.00%	14.10%	14.70%
Technical	3.80%	4.50%	4.70%	3.20%	3.60%
Sales	10.00%	9.70%	6.90%	11.30%	12.50%
Clerical	18.20%	19.50%	21.20%	17.40%	15.90%
Blue-collar	45.60%	33.40%	27.90%	41.00%	40.70%
ECONOMY					
Income per cap.	\$13,677	\$22,916	\$27,334	\$21,865	\$21,658
Household inc.	\$31,162	\$46,267	\$45,388	\$48,978	\$44,958
Unemp. rate	3.80%	2.20%	2.30%	5.50%	4.00%
Rec. job growth	1.50%	1.90%	2.90%	3.40%	2.60%

Sales taxes	6.50%	5.00%	5.75%	8.10%	6.35%
Income taxes	7.24%	5.95%	9.50%	6.00%	4.60%
COST OF LIVING					
Overall	95.1	132	127.7	140	100
Housing	84.6	160.9	152	199	100
Food	100.4	114.2	110.2	110	100
Transportation	104.6	118.7	136.4	113.4	100
Utilities	102.5	138.1	97	119.7	100
Health	96.1	130.7	123.6	114.4	100
Miscellaneous	98.4	110	114.3	107	100
HOUSING					
Dayton	98380	Boston	Washington	Los Angeles	US Avg.
Median home cost	98380	187180	176860	231510	\$146,102
Home apprec.	3.10%	13.20%	11.60%	12.50%	7.80%
Prop. tax rate	\$20	\$15	\$15	\$11	\$16.43
Home cost index	84.6	160.9	152	199	100
Homes owned	47.30%	27.00%	37.80%	41.10%	59.10%
Homes rented	41.30%	62.30%	48.90%	51.80%	32.60%
Homes vacant	11.40%	10.70%	13.40%	7.10%	8.30%
HEALTH					
Dayton	Washington	Boston	Los Angeles	US Avg.	
Phys. per cap.	328	923	702	240	230
Health cost index	96.1	130.7	123.6	114.4	100
CRIME					
Dayton	Boston	Washington	Los Angeles	US Avg.	
Violent crime	1,063.70	1,302.10	1,627.70	1,283.20	446.1
EDUCATION					
Dayton	Boston	Washington	Los Angeles	US Avg.	
High sch. grad.	76.20%	78.30%	76.80%	71.10%	79.50%
2yr. coll. grad.	6.90%	6.10%	3.60%	8.10%	7.60%
4yr. coll. grad.	11.50%	21.00%	19.00%	19.10%	17.30%

PhD Graduates	5.20%	12.90%	19.60%	9.10%	8.50%
School expend.	\$5,954%	\$9,040%	\$8,048%	\$5,118%	\$5,928
Pop/chr ratio	17	16.5	14.9	22.8	17.7
CLIMATE	Dayton	Boston	Washington	Los Angeles	US Avg.
Rainfall (in.)	36.7	42.9	39	14.6	34.6
Snowfall (in.)	29	41	16	0.1	24.3
Precip. days	131	253	111	36	109
Sunny days	182	205	207	258	213
Days over 90	17	12	37	5	34
Freezing days	117	99	75	0	83
Avg. July high	85	82	88.2	83	85.9
Avg. Jan. low	19	22	27.7	48	26.8
Comfort index (higher=better)	33	36	26	43	34
Elevation ft.	740	20	267	267	750
Area (sq. mi.)	55	48.4	61.4	469.3	20.2
TRANSPORTATION	Dayton	Boston	Washington	Los Angeles	US Avg.
Commute time	17.8	23.3	25.6	24.7	19.1
COMMUTE MODE					
Auto (alone)	72.10%	40.20%	36.00%	65.70%	75.90%
Carpool	12.70%	11.00%	11.60%	15.60%	13.10%
Mass transit	7.7	30.8	35.8	10.3	2.80%
Bike or walk	6.00%	15.90%	13.70%	5.40%	5.70%
Work at home	1.60%	2.20%	3.00%	3.00%	2.60%
PLACE OF WORK					
Same county	88.60%	70.50%	78.00%	97.30%	78.10%
Different county	10.80%	28.60%	0.00%	2.40%	18.60%
Different state	0.60%	0.90%	22.00%	0.30%	3.20%