



*Aeronautical Systems
Center*



**BROOKS AFB BEDDOWN
BRAC VISIT**

6 JUNE 1995



Aeronautical Systems Center



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**BROOKS BEDDOWN AT WPAFB
BRAC SITE VISIT
6 JUNE 1995**

AGENDA

- 0930 - 1015 INBRIEF - BEDDOWN OVERVIEW (AREA C, BLDG 110, RM 109)
- 1015 -1030 TRAVEL TO BLDG 262, AREA A**
- 1030 - 1100 COURTESY VISIT TO AFMC/XP
- 1100 - 1115 TRAVEL TO AREA B**
- 1115 - 1130 TOUR BLDG 32
- 1130 - 1140 TRAVEL TO EXECUTIVE DINING ROOM (EDR)**
- 1140 - 1210 LUNCH (EDR)
- 1210 - 1220 TRAVEL TO BLDG 17**
- 1220 -1250 BLDGs 17, 57, TOUR FOR HSC/YA, SYSTEM PROGRAM OFFICE, BLDG 28 (TOUR FOR AL STAFF) & BLDG 33 (TOUR CENTRIFUGE FACILITY FOR CREW TECHNOLOGY)
- 1250 - 1300 TRAVEL TO BLDG 22**
- 1300 - 1315 BLDG 22 (TOUR FOR AL/SD LIBRARY AND AL/OE OCCUPATIONAL ENVIRONMENTAL HEALTH)
- 1315 - 1325 TRAVEL TO BLDG 190**
- 1325 - 1345 BLDG 190, 434, 79 (TOUR FOR AL/AO AEROSPACE MEDICINE)
- 1345 - 1355 TRAVEL TO BLDG 126**
- 1355 - 1405 BLDG 126 (TOUR FOR AL/CFT CREW TECHNOLOGY)
- 1405 - 1410 TRAVEL TO BLDG 125**
- 1410 - 1425 BLDG 125 (TOUR FOR SYSTEMS ACQUISITION SCHOOL)
- 1425 - 1435 TRAVEL TO BLDG 838**
- 1435 - 1450 BLDG 838 &839 (TOUR AL/OE OCCUPATIONAL ENVIRONMENTAL HEALTH VIVARIUM AND LABORATORY); BLDG 821 (TOUR FOR SCHOOL OF AEROSPACE MEDICINE)
- 1450 - 1500 DRIVE BY PROPOSED SITE FOR SCHOOL OF AEROSPACE MEDICINE
- 1500 - 1515 RETURN TO AREA C

OPTIONAL TOURS

BLDG 441
BLDG 450
BLDG 145



SCALE 1 : 1,000 APPROXIMATELY
DATE OF PHOTOGRAPHY 8-6-68

Prepared By WOOLPERT CONSULTANTS
209 E. MONUMENT AVE. DAYTON, OHIO 45402
513-261-3660



AREAS A, B and C

DEPARTMENT OF THE AIR FORCE
HEADQUARTERS 2750TH AIR BASE WING AF, C
2750TH ABW DEFP
AERIAL PHOTOGRAPHY TAB NO. C-5
WRIGHT-PATTERSON AIR FORCE BASE
OHIO 45433



Aeronautical Systems Center



BROOKS AFB MILCON

	<u>Scope (SF)</u>	<u>Cost Then YR \$M</u>
Renovate for SPO (Bldg 17, 57)	74,000	11.0
Renovate for AL Staff (Bldg 28)	90,000	1.0
ADAL for Centrifuge (Bldg 33)	10,700	3.5
Renovate for AL Library (Bldg 22)	20,000	2.2



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BROOKS AFB MILCON (Cont.)

	<u>Scope (SF)</u>	<u>Cost Then YR \$M</u>
ADAL for Occupational Environmental Health (AL/OE)		
– Renovation (Bldg 22)	36,000	4.0
– New Construction	61,350	12.9
– Add to Vivarium	50,000	16.4
ADAL for Aerospace Medicine (AL/AO)		
– Renovation (Bldg 190, 434, 79, 195)	68,000	12.1
– New Construction	27,700	8.3
ADAL for Crew Technology (AL/CFT)		
– Renovation (Bldg 126)	35,000	----
– New Construction	29,100	9.2



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BROOKS AFB MILCON (Cont.)

	<u>Scope (SF)</u>	<u>Cost Then YR \$M</u>
ADAL for USAF School of Aerospace Medicine		
– Renovation (Bldg 821)	24,000	1.6
– New Construction	89,100	13.0
– Pipeline Student Dormitory	53,500	7.0
– Outdoor Training Area	3,000	0.5
Alter for Systems Acquisition School	15,400	0.7

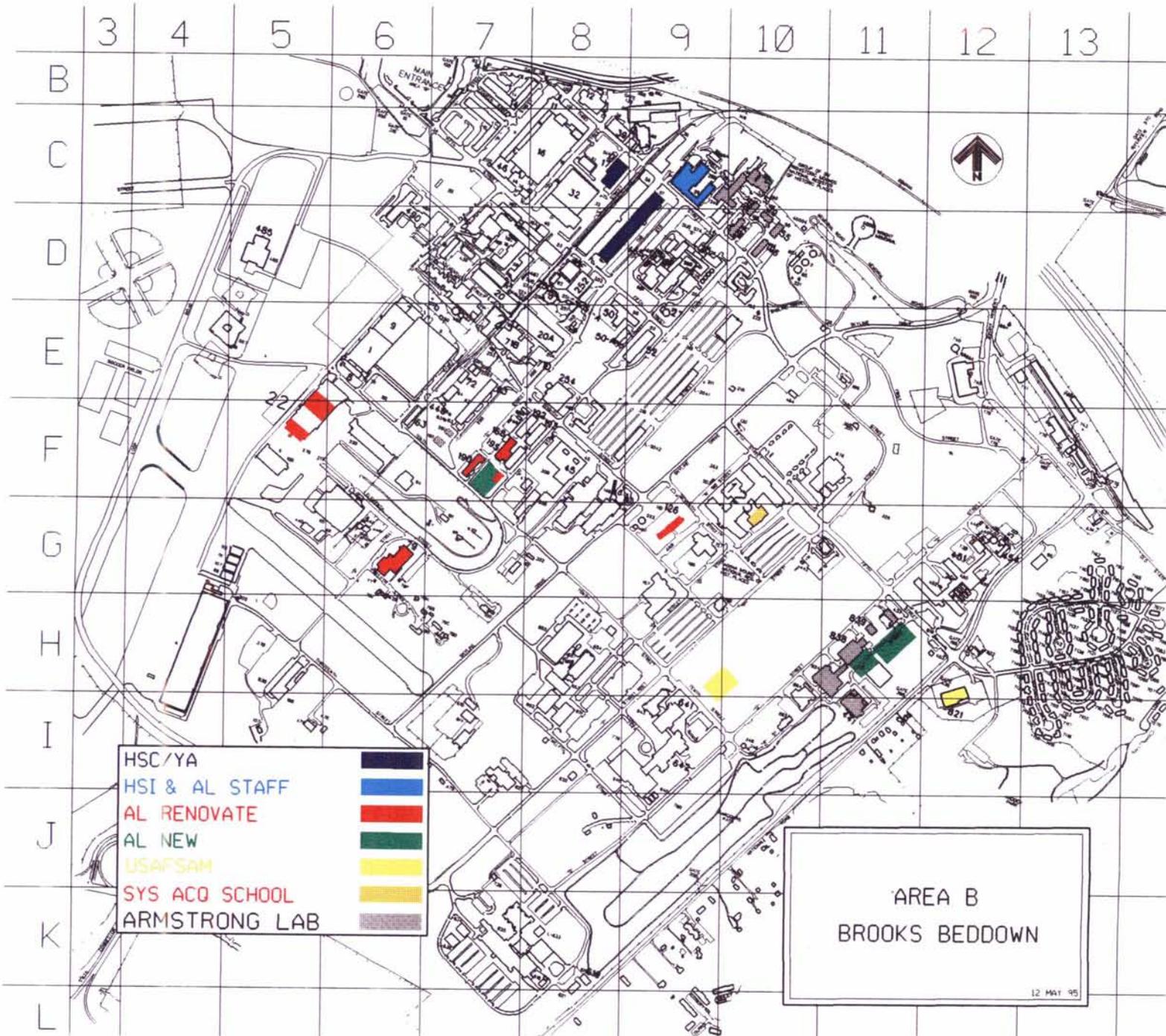


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BROOKS AFB MILCON SUMMARY

	<u>SCOPE (SF)</u>	<u>COST (THEN YR \$M)</u>
RENOVATION	362,400	32.6
NEW	<u>324,450</u>	<u>70.8</u>
TOTAL	686,850	103.4



1. COMPONENT AIR FORCE	FY 1995 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE	
3. INSTALLATION AND LOCATION WRIGHT-PATTERSON AIR FORCE BASE, OHIO		4. PROJECT TITLE BC-RENOVATE FACILITIES FOR YA SYSTEMS PROGRAM OFFICE			
5. PROGRAM ELEMENT 7.28.06	6. CATEGORY CODE 311-173	7. PROJECT NUMBER ZHTV953353	8. PROJECT COST(\$000) 9,200		
9. COST ESTIMATES					
ITEM		U/M	QUANTITY	UNIT COST	COST (\$000)
BC-RENOVATE FACILITIES FOR YA SYSTEMS PROGRAM OFFICE		LS			6,038
RENOVATE FACILITIES		SF	74,000	60	(4,440)
PREWIRED WORKSTATIONS		EA	450	3,550	(1,598)
SUPPORTING FACILITIES					1,890
UTILITIES/ COMMUNICATION		LS			(590)
SITE IMPROVEMENTS		LS			(40)
ASBESTOS/LEAD PAINT REMOVAL		SF	74,000	17	(1,260)
SUBTOTAL					7,928
CONTINGENCY (10%)					793
TOTAL CONTRACT COST					8,721
SUPERVISION, INSPECTION AND OVERHEAD (6%)					523
TOTAL REQUEST					9,244
TOTAL REQUEST (ROUNDED)					9,200
10. Description of Proposed Construction: Interior alterations include asbestos and lead paint removal, relocation of interior non-load bearing walls, replacement of building utility systems, fire protection, and interior finishes. Air Conditioning: 267 Tons.					
11. REQUIREMENT: 74,000 SF ADEQUATE: 0 SUBSTANDARD: 74,000 SF PROJECT: BC -- Renovate Facilities for YA SPO REQUIREMENT: Because of the closure of Brooks AFB, an adequate and functional facility is required to support the relocation of the YA Systems Program Office (SPO). Alterations of existing facilities are required to provide administrative and laboratory space for the YA Systems Program Office and MEDSITE personnel. Special purpose space includes test laboratories. CURRENT SITUATION: The YA Systems Program Office is currently at Brooks AFB TX and will be relocated to WPAFB OH IAW the recommendations of the Base Realignment and Closure Commission. There are no suitable existing administrative facilities at WPAFB available at this relocation. This project will alter existing facilities to accommodate the program team interaction which is vital to the accomplishment of the mission. IMPACT IF NOT PROVIDED: The YA Systems Program Office will be unable to relocate, thereby jeopardizing the closure of Brooks AFB. ADDITIONAL: Funding will be provided from the Base Closure Account. There is no criteria/scope for this project in Part II of the Military Handbook 1190, "Facility Planning and Design Guide."					

1. COMPONENT AIR FORCE		FY 1995 MILITARY CONSTRUCTION PROJECT DATA (computer generated)		2. DATE	
3. INSTALLATION AND LOCATION WRIGHT-PATTERSON AIR FORCE BASE, OHIO			4. PROJECT TITLE BC-RENOVATE FACILITY FOR HSI & ARMSTRONG LAB HEADQUARTERS		
5. PROGRAM ELEMENT 7.28.06	6. CATEGORY CODE 610-281	7. PROJECT NUMBER ZHTV953355	8. PROJECT COST(\$000) 840		
9. COST ESTIMATES					
ITEM		U/M	QUANTITY	UNIT COST	COST (\$000)
BC-RENOVATE FACILITY FOR HSI & ARMSTRONG LAB HEADQUARTERS		SF	90,000	8	720
SUBTOTAL					720
CONTINGENCY (10%)					72
TOTAL CONTRACT COST					792
SUPERVISION, INSPECTION AND OVERHEAD (6%)					48
TOTAL REQUEST					840
TOTAL REQUEST (ROUNDED)					840
10. Description of Proposed Construction: Replace interior finishes to include carpet, paint, and ceiling tile.					
11. REQUIREMENT: 90,000 SF ADEQUATE: 0 SUBSTANDARD: 90,000 SF <u>PROJECT:</u> BC -- Renovate Facility for HSI and Armstrong Lab Headquarters <u>REQUIREMENT:</u> Because of the closure of Brooks AFB, an adequate and functional facility is required to support the relocation of Human Systems Institute (HSI) and Armstrong Lab Headquarters personnel. Minimal work is needed in this facility which will consolidate much of Armstrong Lab personnel at Wright-Patterson AFB in one area. Facility will be renovated to accommodate 600 personnel. <u>CURRENT SITUATION:</u> Armstrong Laboratories are currently located at Brooks AFB TX and will be relocated to WPAFB OH IAW the recommendations of the Base Realignment and Closure Commission. There are no suitable existing laboratory headquarters at WPAFB available for this relocation. <u>IMPACT IF NOT PROVIDED:</u> The Armstrong Laboratory will be unable to relocate, thereby jeopardizing the closure of Brooks AFB. <u>ADDITIONAL:</u> Funding will be provided from the Base Closure Account. There is no criteria/scope for this project in Part II of the Military Handbook 1190, "Facility Planning and Design Guide."					

1. COMPONENT		FY 1995 MILITARY CONSTRUCTION PROJECT DATA (computer generated)		2. DATE	
AIR FORCE					
3. INSTALLATION AND LOCATION			4. PROJECT TITLE		
WRIGHT-PATTERSON AIR FORCE BASE, OHIO			BC-ADD TO EXISTING CENTRIFUGE FACILITY		
5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST(\$000)		
7.28.06	315-222	ZHTV953356	3,050		
9. COST ESTIMATES					
ITEM		U/M	QUANTITY	UNIT COST	COST (\$000)
BC-ADD TO EXISTING CENTRIFUGE FACILITY		LS			2,367
HEAVY TECH LABORATORY		SF	5,700	270	(1,539)
MEDIUM TECH LABORATORY		SF	3,650	180	(657)
CENTER HEADQUARTERS ADM SPACE		SF	1,350	100	(135)
PREWIRED WORKSTATIONS		EA	10	3,600	(36)
SUPPORTING FACILITIES					355
UTILITIES		LS			(150)
SITE IMPROVEMENTS		LS			(135)
PAVEMENTS & PARKING (6 STALLS)		LS			(30)
COMMUNICATIONS SUPPORT		LS			(40)
SUBTOTAL					2,722
CONTINGENCY (5%)					136
TOTAL CONTRACT COST					2,858
SUPERVISION, INSPECTION AND OVERHEAD (6%)					171
TOTAL REQUEST					3,029
TOTAL REQUEST (ROUNDED)					3,050
10. Description of Proposed Construction: Concrete foundation, steel joists, and lightweight concrete roof systems. Project includes reinforced concrete for centrifuge mounting, electrical power 480 VAC/3 PHASE, 3200 AMPS, 2000 KVA power transformer, and lead shield walls in laboratory for ionizing radiation materials. Also includes special cooling for four 250 HP electric drive motors. <u>Air Conditioning:</u> 30 Tons.					
11. REQUIREMENT: 76,683 SF ADEQUATE: 65,983 SF SUBSTANDARD: 0 <u>PROJECT:</u> BC -- ADAL Existing Centrifuge Facility <u>REQUIREMENT:</u> Because of the closure of Brooks AFB, a suitable facility is required to house the Human/Animal Centrifuge, Small Animal Centrifuge and G-LOC Research Laboratories at Wright-Patterson AFB. The addition to the existing WPAFB Centrifuge facility will allow for the beddown of the two centrifuges and associated laboratories and support functions with fume hoods, deionized water systems, gas, compressed air, water, and vacuum outlets. <u>CURRENT SITUATION:</u> The centrifuges are currently located at Brooks AFB TX and will be relocated to WPAFB OH IAW with recommendations of the Base Realignment and Closure Commission. There are no suitable existing facilities available to install the centrifuges and their associated laboratories. <u>IMPACT IF NOT PROVIDED:</u> The mission of research and development of advanced +Gz protective equipment and techniques along with basic research into the neuromechanisms of G-induced loss of consciousness would be stopped. <u>ADDITIONAL:</u> Funding will be provided from the Base Closure Account. There is no criteria/scope for this project in Part II of the Military					

1. COMPONENT AIR FORCE	FY 1995 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION WRIGHT-PATTERSON AIR FORCE BASE, OHIO		
4. PROJECT TITLE BC-ADD TO EXISTING CENTRIFUGE FACILITY	5. PROJECT NUMBER ZHTV953356	
Handbook 1190, "Facility Planning and Design Guide."		

1. COMPONENT AIR FORCE	FY 1995 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE
3. INSTALLATION AND LOCATION WRIGHT-PATTERSON AIR FORCE BASE, OHIO		4. PROJECT TITLE BC-RENOVATE FACILITY FOR CONSOLIDATED LIBRARY		
5. PROGRAM ELEMENT 7.28.06	6. CATEGORY CODE 171-356	7. PROJECT NUMBER ZHTV953354	8. PROJECT COST(\$000) 2,000	
9. COST ESTIMATES				
ITEM	U/M	QUANTITY	UNIT COST	COST (\$000)
BC-RENOVATE FACILITY FOR CONSOLIDATED LIBRARY	SF	20,000	65	1,300
SUPPORTING FACILITIES				400
UTILITIES	LS			(20)
SITE IMPROVEMENTS	LS			(20)
PAVEMENTS	LS			(20)
REMOVE ASBESTOS/LEAD BASE PAINT	SF	20,000	17	(340)
SUBTOTAL				1,700
CONTINGENCY (10%)				170
TOTAL CONTRACT COST				1,870
SUPERVISION, INSPECTION AND OVERHEAD (6%)				112
TOTAL REQUEST				1,982
TOTAL REQUEST (ROUNDED)				2,000
10. Description of Proposed Construction: Interior alterations include asbestos and lead based paint removal, relocation of interior non-load bearing walls, and replacement of interior finishes. Air Conditioning: 61 Tons.				
11. REQUIREMENT: 20,000 SF ADEQUATE: 0 SUBSTANDARD: 20,000 SF <u>PROJECT:</u> BC -- Renovate Facility for Consolidated Library <u>REQUIREMENT:</u> Because of the closure of Brooks AFB, the existing Wright-Patterson AFB Technical Library requires reconfiguration of the current layout so Technical Library assets of Brooks AFB units can be consolidated with it. <u>CURRENT SITUATION:</u> The YA Systems Program Office and Armstrong Laboratories are currently located at Brooks AFB TX and will be relocated to WPAFB OH IAW the recommendations of the Base Realignment and Closure Commission. There are no suitable existing library facilities at WPAFB available for this relocation. This project will reconfigure the existing library to accommodate the library assets being transferred with Brooks AFB units. <u>IMPACT IF NOT PROVIDED:</u> The YA Special Program Office and Armstrong Laboratory libraries will be unable to transfer their assets to WPAFB, thereby jeopardizing the closure of Brooks AFB. <u>ADDITIONAL:</u> Funding will be provided from the Base Closure Account. There is no criteria/scope for this project in Part II of the Military Handbook 1190, "Facility Planning and Design Guide."				

1. COMPONENT		FY 1995 MILITARY CONSTRUCTION PROJECT DATA (computer generated)		2. DATE	
AIR FORCE					
3. INSTALLATION AND LOCATION			4. PROJECT TITLE		
WRIGHT-PATTERSON AIR FORCE BASE, OHIO			BC-(AL/OE) ADAL OCCUPATIONAL ENVIRONMENTAL HEALTH LAB		
5. PROGRAM ELEMENT		6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST(\$000)	
7.28.06		310-924	ZHTV953362	14,400	
9. COST ESTIMATES					
ITEM		U/M	QUANTITY	UNIT COST	COST (\$000)
BC-(AL/OE) ADAL OCCUPATIONAL ENVIRONMENTAL HEALTH LAB					10,798
ALTER ADMIN		SF	32,000	65	(2,080)
ADMIN		SF	12,000	100	(1,200)
SCIF		SF	3,350	170	(570)
LASER LAB		SF	32,900	120	(3,948)
LABS (ENVIRONMENTAL HEALTH)		SF	13,100	165	(2,162)
STORAGE		SF	4,000	25	(100)
PREWIRED WORKSTATIONS		EA	208	3,550	(738)
SUPPORTING FACILITIES					<u>2,170</u>
SUBTOTAL					12,968
CONTINGENCY (5%)					<u>648</u>
TOTAL CONTRACT COST					13,616
SUPERVISION, INSPECTION AND OVERHEAD (6%)					<u>817</u>
TOTAL REQUEST					14,433
TOTAL REQUEST (ROUNDED)					14,400
10. Description of Proposed Construction: Concrete foundation and floor slabs, structural steel frame, masonry walls, metal roof. Wet and dry laboratories. This is a phased construction involving two distinct requirements which must be collocated. Alter: Relocate interior non-load bearing walls, replace bldg utility sys, fire protection and interior finishes. Remove asbestos and lead base paint. Air Conditioning: 100 Tons.					
11. REQUIREMENT: 65,326 SF ADEQUATE: 0 SUBSTANDARD: 4,000 SF PROJECT: BC -- ADAL Occupational Environmental Health Laboratory REQUIREMENT: Because of the closure of Brooks AFB, renovation is required to support the relocation of Armstrong Labs to WPAFB. The construction includes space for the Hypobaric Laboratory and Personnel Research Science Lab, the Medical Science Lab, a SCIF, administrative space, and Medical Storage. CURRENT SITUATION: Armstrong Lab is currently located at Brooks AFB TX and will be relocated to WPAFB OH IAW the recommendations of the Base Realignment and Closure Commission. There are no suitable existing laboratory facilities at WPAFB available for this relocation. IMPACT IF NOT PROVIDED: Armstrong Labs will be unable to relocate, thereby jeopardizing the closure of Brooks AFB. ADDITIONAL: Funding will be provided from the Base Closure Account. There is no criteria/scope for this project in Part II of the Military Handbook 1190, "Facility Planning and Design Guide."					

1. COMPONENT AIR FORCE		FY 1995 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE	
3. INSTALLATION AND LOCATION WRIGHT-PATTERSON AIR FORCE BASE, OHIO			4. PROJECT TITLE BC-ADAL FAC'S FOR AEROSPACE MEDICAL AND CLINICAL LABS			
5. PROGRAM ELEMENT 7.28.06	6. CATEGORY CODE 310-914	7. PROJECT NUMBER ZHTV953358	8. PROJECT COST(\$000) 17,000			
9. COST ESTIMATES						
ITEM		U/M	QUANTITY	UNIT COST	COST (\$000)	
BC-ADAL FAC'S FOR AEROSPACE MEDICAL AND CLINICAL LABS					11,904	
ADD AEROSPACE MED & CLINICAL LABS		SF	27,700	165	(4,571)	
ALTER ADMIN FACILITIES		SF	35,800	70	(2,506)	
ALTER ADMIN & LAB FACILITY		SF	32,000	120	(3,840)	
PREWIRE WORK STATIONS		EA	278	3,550	(987)	
SUPPORTING FACILITIES					2,830	
UTILITIES/COMMUNICATIONS SUPPORT		LS			(1,675)	
REMOVE ASBESTOS/LEAD BASE PAINT		SF	68,000	17	(1,155)	
SUBTOTAL					14,734	
CONTINGENCY (10%)					<u>1,473</u>	
TOTAL CONTRACT COST					16,207	
SUPERVISION, INSPECTION AND OVERHEAD (6%)					<u>972</u>	
TOTAL REQUEST					17,179	
TOTAL REQUEST (ROUNDED)					17,000	
10. Description of Proposed Construction: Addition: concrete slab foundation, tilt-up exposed aggregate walls, steel framing, built-up insulated roof on steel sheathing. Alter: asbestos/lead paint removal, relocate interior non-load bearing walls, replace bldg utility systems, fire protection, and interior finishes. Air Conditioning: 433 Tons.						
11. REQUIREMENT: 107,700 SF ADEQUATE: 0 SUBSTANDARD: 77,000 SF PROJECT: BC -- ADAL Facilities for Aerospace Medical and Clinical Labs REQUIREMENT: Because of the closure of Brooks AFB, a suitable facility is required to beddown the Aerospace Medical Director and clinical laboratories, the Laser/Optic/Hyperbaric Laboratory, and the Medical Science Laboratory. Included is space for epidemalogic research, anechoic chamber, flight medicine patient evaluation, and hyperbaric research support. CURRENT SITUATION: These Armstrong Lab missions are currently being conducted at facilities located at Brooks AFB TX but will be relocated to WPAFB OH IAW the recommendations of the Base Realignment and Closure Commission. There are no suitable existing facilities at WPAFB available for this relocation. IMPACT IF NOT PROVIDED: Aerospace medicine would not be able to evaluate physical condition of aircrew members or develop new human/aircraft interface capabilities. Research and training in Hyperbaric Medicine could not be accomplished and critical support to DOD Health Care and Investigative Agencies could not be provided. ADDITIONAL: Funding will be provided from the Base Closure Account. There is no criteria/scope for this project in Part II of the Military Handbook 1190, "Facility Planning and Design Guide."						

1. COMPONENT AIR FORCE	FY 1995 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE
3. INSTALLATION AND LOCATION WRIGHT-PATTERSON AIR FORCE BASE, OHIO		4. PROJECT TITLE BC-ADD TO VIVARIUM		
5. PROGRAM ELEMENT 7.28.06	6. CATEGORY CODE 310-921	7. PROJECT NUMBER ZHTV953360	8. PROJECT COST(\$000) 13,800	
9. COST ESTIMATES				
ITEM	U/M	QUANTITY	UNIT COST	COST (\$000)
BC-ADD TO VIVARIUM				10,810
ADD TO VIVARIUM	SF	50,000	200	(10,000)
PATHOLOGY LAB-HEAVY	SF	3,000	270	(810)
SUPPORTING FACILITIES				1,500
UTILITIES	LS			(1,040)
SITE IMPROVEMENTS	LS			(230)
PAVEMENTS	LS			(230)
SUBTOTAL				12,310
CONTINGENCY (5%)				616
TOTAL CONTRACT COST				12,926
SUPERVISION, INSPECTION AND OVERHEAD (6%)				776
TOTAL REQUEST				13,702
TOTAL REQUEST (ROUNDED)				13,800
10. Description of Proposed Construction: Concrete foundation and floor slabs, structural steel frame, masonry walls, metal roof. Reinforced floor under electron microscopes, backup generator emergency power, and wet and dry labs.				
11. REQUIREMENT: 85,472 SF ADEQUATE: 32,472 SF SUBSTANDARD: 0 PROJECT: BC -- ADD to Vivarium <u>REQUIREMENT:</u> Because of the closure of Brooks AFB, a suitable facility is required to house laboratory animals at Wright-Patterson AFB. Included is space for 25 personnel, a laboratory/surgery space, a pathology area, housing for 400-500 Non-Human Primates (NHP), up to 40 large animals, and numerous small animals. Animal housing areas must meet AAALAC standards for ventilation and impervious wall and floor coverings. Wall shielding is required for the X-ray fluoroscopy unit. Layout of the addition and alteration must be done in conjunction with the Directed Energy Lab facility redirect project from Brooks AFB and the BRAC Occupational Environmental Health Lab Facility. <u>CURRENT SITUATION:</u> The Armstrong Lab Vivarium is currently located at Brooks AFB TX but will be relocated to WPAFB OH IAW the recommendations of the Base Realignment and Closure Commission. There are no suitable existing facilities large enough at WPAFB for this relocation. By ADAL of the existing Vivarium the total square footage requirement has been reduced. <u>IMPACT IF NOT PROVIDED:</u> Critical bioeffects of chemical and radiological stressors will not be determined, testing of new directed energy weapons will not occur, and compliance with ESOH criteria will be threatened. <u>ADDITIONAL:</u> Funding will be provided from the Base Closure Account. There is no criteria/scope for this project in Part II of the Military				

1. COMPONENT AIR FORCE	FY 1995 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION WRIGHT-PATTERSON AIR FORCE BASE, OHIO		
4. PROJECT TITLE BC-ADD TO VIVARIUM	5. PROJECT NUMBER ZHTV953360	
Handbook 1190, "Facility Planning and Design Guide."		

1. COMPONENT		FY 1995 MILITARY CONSTRUCTION PROJECT DATA (computer generated)		2. DATE	
AIR FORCE					
3. INSTALLATION AND LOCATION			4. PROJECT TITLE		
WRIGHT-PATTERSON AIR FORCE BASE, OHIO			BC-CREW TECHNOLOGY FACILITY		
5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST(\$000)		
7.28.06	310-914	ZHTV953373	7,900		
9. COST ESTIMATES					
ITEM		U/M	QUANTITY	UNIT COST	COST (\$000)
BC-CREW TECHNOLOGY FACILITY		LS			6,162
MEDICAL SCIENCE LAB		SF	8,300	120	(996)
PERSONNEL RESEARCH SCIENCE LAB-MEDIUM		SF	5,000	180	(900)
PERSONNEL RESEARCH SCIENCE LAB-HEAVY		SF	15,800	270	(4,266)
SUPPORTING FACILITIES					925
COMM/UTILITIES/PAVEMENTS		LS			(925)
SUBTOTAL					7,087
CONTINGENCY (5%)					354
TOTAL CONTRACT COST					7,441
SUPERVISION, INSPECTION AND OVERHEAD (6%)					446
TOTAL REQUEST					7,887
TOTAL REQUEST (ROUNDED)					7,900
10. Description of Proposed Construction: Concrete foundation and floor slabs, structural steel frame, masonry walls, metal roof. Reinforced floor under lab areas, wet and dry labs. Alter: Relocate interior non-load bearing walls, replace bldg utility systems, fire protection and interior finishes. Remove asbestos/lead base paint.					
11. REQUIREMENT: 29,100 SF ADEQUATE: 0 SUBSTANDARD: 0 <u>PROJECT:</u> BC -- Adal Facility for Crew Technology <u>REQUIREMENT:</u> Because of the closure of Brooks AFB, beddown construction is required to support the relocation of Armstrong Labs to WPAFB. The construction includes space for the Hypobaric Laboratory and Personnel Research Science Labs, the Medical Science Lab, a SCIF, administrative space, and Medical Storage. <u>CURRENT SITUATION:</u> Armstrong Labs is currently located at Brooks AFB TX and will be relocated to WPAFB OH IAW the recommendations of the Base Realignment and Closure Commission. There are no suitable existing laboratory facilities at WPAFB available for this relocation. <u>IMPACT IF NOT PROVIDED:</u> Armstrong Labs will be unable to relocate, thereby jeopardizing the closure of Brooks AFB. <u>ADDITIONAL:</u> Funding will be provided from the Base Closure Account. There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide."					

1. COMPONENT	FY 1995 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE
AIR FORCE				
3. INSTALLATION AND LOCATION		4. PROJECT TITLE		
WRIGHT-PATTERSON AIR FORCE BASE, OH		BC-ALTER FACILITY FOR USAFSAM		
5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST(\$000)	
7.28.06	171-618	ZHTV953381	1,400	
9. COST ESTIMATES				
ITEM	U/M	QUANTITY	UNIT COST	COST (\$000)
BC-ALTER FACILITY FOR USAFSAM				1,054
ALTER BLDG	SF	24,000	42	(1,008)
PREWIRE WORK STATIONS	EA	13	3,540	(46)
SUPPORTING FACILITIES				150
COMMUNICATIONS/FIBER OPTICS	SF	20,200	5	(100)
SITE IMPROVEMENTS	LS			(50)
SUBTOTAL				1,204
CONTINGENCY (10%)				120
TOTAL CONTRACT COST				1,324
SUPERVISION, INSPECTION AND OVERHEAD (6%)				79
TOTAL REQUEST				1,403
TOTAL REQUEST (ROUNDED)				1,400
10. Description of Proposed Construction: Alter interior to accommodate classrooms, administration, and training mock-ups.				
11. REQUIREMENT: As required.				
<u>PROJECT:</u> BC -- Alter Facility for USAFSAM				
<u>REQUIREMENT:</u> Because of the closure of Brooks AFB, a suitable facility is required to support the relocation of the USAF School of Aerospace Medicine (USAFSAM) to the Wright-Patterson AFB. An adequate facility is required to provide space for classrooms, mock-up trainers, and administration/faculty space. This project must be completed in conjunction with other USAFSAM BRAC beddown requirements.				
<u>CURRENT SITUATION:</u> The USAFSAM is currently located at Brooks AFB TX and will be relocated to WPAFB OH IAW the recommendations of the Base Realignment and Closure Commission. There are no suitable academic training facilities at WPAFB available for this relocation.				
<u>IMPACT IF NOT PROVIDED:</u> The USAF School Of Medicine will be unable to relocate, thereby jeopardizing the closure of Brooks AFB.				
<u>ADDITIONAL:</u> Funding will be provided from the Base Closure Account. There is no criteria/scope for this project in Part II of the Military Handbook 1190, "Facility Planning and Design Guide."				

1. COMPONENT	FY 1995 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE
AIR FORCE				
3. INSTALLATION AND LOCATION	4. PROJECT TITLE			
WRIGHT-PATTERSON AIR FORCE BASE, OHIO	BC-USAF SCHOOL OF AEROSPACE MEDICINE ACADEMIC FACILITY			
5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST(\$000)	
7.28.06	171-152	ZHTV953351	11,200	
9. COST ESTIMATES				
ITEM	U/M	QUANTITY	UNIT COST	COST (\$000)
BC-USAF SCHOOL OF AEROSPACE MEDICINE				8,731
ADMINISTRATION	SF	43,500	89	(3,872)
CLASSROOMS	SF	18,900	89	(1,682)
TRAINING LABS/COMPUTER TRAINING	SF	10,600	89	(943)
ADVANCED SPATIAL DISORIENTATION DEVICE	SF	5,200	150	(780)
SUPPORT SPACE	SF	6,400	79	(506)
SWING LAND TRAINER	SF	4,500	89	(401)
PREWIRED WORKSTATIONS	EA	154	3,550	(547)
SUPPORTING FACILITIES				1,290
UTIL/SITE IMPROV/PAVEMENTS/COMM SPRT	LS			(1,290)
SUBTOTAL				10,021
CONTINGENCY (5%)				501
TOTAL CONTRACT COST				10,522
SUPERVISION, INSPECTION AND OVERHEAD (6%)				631
TOTAL REQUEST				11,153
TOTAL REQUEST (ROUNDED)				11,200
10. Description of Proposed Construction: A two-story facility with masonry walls, concrete foundation, steel joists, and lightweight concrete roof system. Includes classrooms, faculty offices, computer classrooms, computer laboratory, technical laboratories, swing landing trainer, prewired workstations, and all necessary support. Air Conditioning: 439 Tons.				
11. REQUIREMENT: 113,455 SF ADEQUATE: 0 SUBSTANDARD: 24,355 SF PROJECT: BC -- USAFSAM Academic Complex REQUIREMENT: Because of the closure of Brooks AFB, beddown construction is required to support the relocation of the USAF School of Aerospace Medicine (USAFSAM) to Wright-Patterson AFB. An adequate facility is required to provide space for 155 personnel: classrooms, administrative areas, conference rooms, laboratories, supply and storage areas. This project must be completed in conjunction with Projects ZHTV953361 and ZHTV953382 for USAFSAM. CURRENT SITUATION: The USAFSAM is currently located at Brooks AFB TX and will be relocated to WPAFB OH IAW the recommendations of the Base Realignment and Closure Commission. There are no suitable academic facilities at WPAFB available for this relocation. IMPACT IF NOT PROVIDED: These missions will be unable to relocate, thereby jeopardizing the closure of Brooks AFB. ADDITIONAL: Funding will be provided from the Base Closure Account. There is no criteria/scope for this project in Part II of the Military Handbook 1190, "Facility Planning and Design Guide."				

1. COMPONENT AIR FORCE	FY 1995 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE	
3. INSTALLATION AND LOCATION WRIGHT-PATTERSON AIR FORCE BASE, OHIO		4. PROJECT TITLE BC-USAFSAM PIPELINE STUDENT DORMITORY			
5. PROGRAM ELEMENT 7.28.06	6. CATEGORY CODE 721-312	7. PROJECT NUMBER ZHTV953363	8. PROJECT COST(\$000) 6,000		
9. COST ESTIMATES					
ITEM		U/M	QUANTITY	UNIT COST	COST (\$000)
BC-USAFSAM PIPELINE STUDENT DORMITORY		SF	53,500	84	4,494
SUPPORTING FACILITIES					910
UTILITIES		LS			(225)
SITE IMPROVEMENTS		LS			(225)
PAVEMENTS		LS			(225)
COMMUNICATIONS SUPPORT		LS			(235)
SUBTOTAL					5,404
CONTINGENCY (5%)					270
TOTAL CONTRACT COST					5,674
SUPERVISION, INSPECTION AND OVERHEAD (6%)					340
TOTAL REQUEST					6,014
TOTAL REQUEST (ROUNDED)					6,000
10. Description of Proposed Construction: Reinforced concrete foundation and floor slabs, masonry walls, and pitched roof. Includes room-bath modules, laundries, storage and lounge areas and all supporting facilities. Air Conditioning: 178 Tons.					
11. REQUIREMENT: 181,498 SF ADEQUATE: 127,998 SF SUBSTANDARD: 0 PROJECT: BC -- USAFSAM Pipeline Student Dormitory REQUIREMENT: Because of the closure of Brooks AFB, beddown construction is required to support the relocation of the USAF School of Aerospace Medicine (USAFSAM) at Wright-Patterson AFB. A separate dormitory is required to house the USAFSAM enlisted students who are still in initial training status and must observe many of the rules of Basic Training. CURRENT SITUATION: The USAF School of Aerospace Medicine is currently located at Brooks AFB TX but will be relocated to WPAFB OH IAW the recommendations of the Base Realignment and Closure Commission. There is no suitable existing dormitory which can meet the separation needs of pipeline students. IMPACT IF NOT PROVIDED: The USAFSAM will be unable to relocate, thereby jeopardizing the closure of Brooks AFB. ADDITIONAL: Funding will be provided from the Base Closure Account. There is no criteria/scope for this project in Part II of the Military Handbook 1190, "Facility Planning and Design Guide,"					

1. COMPONENT AIR FORCE	FY 1995 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE	
3. INSTALLATION AND LOCATION WRIGHT-PATTERSON AIR FORCE BASE, OH		4. PROJECT TITLE BC-USAFSAM OUTDOOR TRAINING AREA			
5. PROGRAM ELEMENT 7.28.06	6. CATEGORY CODE 442-758	7. PROJECT NUMBER ZHTV953361	8. PROJECT COST(\$000) 440		
9. COST ESTIMATES					
ITEM		U/M	QUANTITY	UNIT COST	COST (\$000)
BC-USAFSAM OUTDOOR TRAINING AREA		SF	3,000	70	210
SUPPORTING FACILITIES					180
UTILITIES		LS			(50)
SITE IMPROVEMENTS		LS			(10)
PAVEMENTS		LS			(10)
CHAIN LINK FENCING/GATE		LS			(75)
ASPHALT PAD		LS			(25)
COVERED TRAINING AREA		LS			(5)
COMM SUPPORT		LS			(5)
SUBTOTAL					390
CONTINGENCY (5%)					20
TOTAL CONTRACT COST					410
SUPERVISION, INSPECTION AND OVERHEAD (6%)					25
TOTAL REQUEST					435
TOTAL REQUEST (ROUNDED)					440
10. Description of Proposed Construction: Concrete foundation and floor slabs, structural steel frame, masonry walls, and pitched roof. Building includes 200 SF office, bathrooms, warehouse, and covered training area. Facility to be located in a 21 acre fenced area. <u>Air Conditioning: 6 Tons.</u>					
11. REQUIREMENT: 3,000 SF ADEQUATE: 0 SUBSTANDARD: 0 <u>PROJECT:</u> BC -- USAFSAM Outdoor Training Area <u>REQUIREMENT:</u> Because of the closure of Brooks AFB, beddown construction is required to support the relocation of the USAF School of Aerospace Medicine (USAFSAM) Mishap Prevention and MASH Outdoor Training Areas. Included is a 21 acre fenced area to conduct training, a warehouse for storing training aids, an office, bathrooms, and covered training area. <u>CURRENT SITUATION:</u> The USAFSAM Outdoor Training Areas are currently located at Brooks AFB TX will be relocated to WPAFB OH IAW the recommendations of the Base Realignment and Closure Commission. There are no suitable existing facilities large enough at WPAFB for this relocation. <u>IMPACT IF NOT PROVIDED:</u> The USAFSAM will be unable to relocate, thereby jeopardizing the closure of Brooks AFB. <u>ADDITIONAL:</u> Funding will be provided from the Base Closure Account. There is no criteria/scope for this project in Part II of the Military Handbook 1190, "Facility Planning and Design Guide."					

1. COMPONENT AIR FORCE		FY 1995 MILITARY CONSTRUCTION PROJECT DATA (computer generated)		2. DATE	
3. INSTALLATION AND LOCATION WRIGHT-PATTERSON AIR FORCE BASE, OH			4. PROJECT TITLE BC-ALTER FACILITY FOR ACQUISITION SCHOOL		
5. PROGRAM ELEMENT 7.28.06	6. CATEGORY CODE 171-627	7. PROJECT NUMBER ZHTV953383	8. PROJECT COST(\$000) 560		
9. COST ESTIMATES					
ITEM		U/M	QUANTITY	UNIT COST	COST (\$000)
BC-ALTER FACILITY FOR ACQUISITION SCHOOL					348
RENOVATION FACILITY		SF	15,400	15	(231)
PREWIRED WORKSTATIONS		EA	33	3,550	(117)
SUPPORTING FACILITIES					130
COMMUNICATIONS/FIBER OPTICS		SF	15,400	2	(30)
PREWIRE STUDENT COMPUTER WORKSTATIONS		EA	32	625	(20)
ASBESTOS/LEAD PAINT REMOVAL		SF	4,600	17	(80)
SUBTOTAL					478
CONTINGENCY (10%)					48
TOTAL CONTRACT COST					526
SUPERVISION, INSPECTION AND OVERHEAD (6%)					32
TOTAL REQUEST					558
TOTAL REQUEST (ROUNDED)					560
10. Description of Proposed Construction: Alterations include asbestos and lead based paint removal, relocation of interior non-load bearing walls, interior finishes, and all necessary support.					
11. REQUIREMENT: 15,400 SF ADEQUATE: 0 SUBSTANDARD: 15,400 SF PROJECT: BC -- ADAL Facility for Systems Acquisition School (SAS) REQUIREMENT: Because of the closure of Brooks AFB, a suitable facility is required to support the relocation of the Systems Acquisition School to Wright-Patterson AFB. An adequate facility is required to provide space for 33 SAS personnel, classrooms, administrative areas, conference rooms, computer laboratories, supply and storage areas. CURRENT SITUATION: The SAS is currently located at Brooks AFB TX and will be relocated to WPAFB OH IAW the recommendations of the Base Realignment and Closure Commission. There are no suitable academic facilities at WPAFB available for this relocation. IMPACT IF NOT PROVIDED: The SAS will be unable to relocate, thereby jeopardizing the closure of Brooks AFB. ADDITIONAL: Funding will be provided from the Base Closure Account. There is no criteria/scope for this project in Part II of the Military Handbook 1190, "Facility Planning and Design Guide".					

*VISIT TO WRIGHT-PATTERSON
AFB*

**AIR NATIONAL GUARD BEDDOWN AT WPAFB
BRAC SITE VISIT
6 JUNE 1995**

AGENDA

- 0930-1015 INBRIEF - BEDDOWN OVERVIEW (AREA C, BLDG 110, RM 109)**
- 1015-1025 TRAVEL TO FLIGHTLINE**
- 1025-1040 TOUR FAC 144, BLDGS 136, 91, AND 93**
- 1040-1100 TOUR BLDG 101**
- 1100-1115 TOUR BLDG 268**
- 1115-1125 TOUR BLDGS 103 AND 106**
- 1125-1130 TRAVEL TO BLDG 259**
- 1130-1145 TOUR BLDG 259**
- 1145-1200 WINDSHIELD TOUR OF BLDGS 95, 255 AND 58**
- 1200-1230 LUNCH**
- 1230-1300 TRAVEL TO SPRINGFIELD ANG FACILITIES**

**6 JUNE 95 FACILITY REVIEW
178FG/BROOKS BRAC BEDDOWN****LIST OF ATTENDEES**

<u>NAME</u>	<u>ORGANIZATION</u>	<u>PHONE</u>
MR J. P. SUTTON	ASC/CD	785-3229
MR LEON GLASPELL	88 ABW/CA	787-3943
COL ROBERT "LANCE" MEYER	178 FG/CC	346-2178
MR CRAIG HALL	BRAC COMMISSION	226-0504/198
MR LES FARRINGTON	BRAC COMMISSION	226-0504/190
MR JOE VARALLO	BRAC COMMISSION	226-0504/190
MR FRED BRINKMAN	88 CEG/CECX	787-4804
MR WILLIAM F. STORM	BROOKS AFB	240-3464
MR BILL HUMES	BROOKS AFB	240-3446
MR JOHN FEDON	WRIGHT LAB/POME	785-4013
MR JAMES DAWSON	88 CEG/CECX	787-4804
MR JAMES HODGE	88 CEG/CECP	787-74427
LT COL GENE DEGRAPHENREID	HQ AFMC/XPX	787-6322
MR SKIP THIELEN	HQ AFMC/XPX	787-2622
MR NORM THOELE	AL/SDNL	785-6069
MR ED WOZNIAK	88 ABW/XPP	787-6291

DES Centrifuge Utilization

<u>1993</u>	<u>TOTAL ARM REVOLUTIONS</u>	<u>SUBJECT DAYS</u>	<u>TOTAL RUNS</u>
	68,307	255	594

<u>1994</u>	19,393 (BEARING FAILED 5/94)	73	266
-------------	------------------------------	----	-----

1995 DES bearing replacement (completed 1 Jul 95)
Typical usage 4-8 hr days/week x 50 weeks
over past 10 yrs. ; 1 day/week for
maintenance and experimental buildup.

BILL ALBERY / 55742

**POINT PAPER
ON
BROOKS AFB, TEXAS**

*Rec'd from A. Goldstajn
HQ AFMC / XP
6/6/95
copy to library 6/9/95*

ISSUE

The city of San Antonio, Texas has proposed cantonment of the mission activities at Brooks AFB in lieu of the AF/DoD recommended closure of the base.

DISCUSSION

The Air Force does not support the cantonment option because the proposed closure of the base with relocation of the preponderance of the mission activities to Wright-Patterson AFB, Ohio (WPAFB) has greater military value (based on the first four BRAC 95 selection criteria) Atch 1 shows WPAFB to be a Tier I base (best) and Brooks AFB to be a Tier III base (good)-- i.e. the AF had no deficient installations in this category.

- Criteria 1: "Current and future mission requirements as well as the impact on operational readiness of the DoD's total force" will be enhanced by assigning the Human Systems SPO to Aeronautical Systems Center (ASC) at WPAFB and establishing a Human Systems Institute, comprised of the Armstrong Lab (AL) and the School of Aerospace Medicine (USAFSAM) at WPAFB.
 - The Human Systems SPO was previously assigned to ASC. Further, previous SPO/other qualified personnel remain assigned at ASC who could staff the SPO to mitigate against government personnel unwilling to transfer to WPAFB.
 - Relocation of AL to WPAFB would, for the most part, consolidate AL in one geographic location and continue its mission as an AF "super" lab. The AF has been committed to this process of consolidation for many years (Atch 2) and has taken every opportunity inside and outside of BRAC to consolidate labs and collocate labs with their "parent" product centers. ASC is by far the largest "customer" of AL technology for human systems.
 - USAFSAM relies for approximately half of its instructors on AL. Conversely, AL relies on the faculty and staff of USAFAM to conduct and support the research mission of the laboratory. This mutually beneficial and highly synergistic relationship would be preserved and continue at WPAFB since military instructors could be moved to WPAFB as part of the normal permanent change of station (PCS) process. Further, this relationship can be enhanced since Wright State University (contiguous to WPAFB) is the only civilian degree granting institution for aerospace medicine in the country. Also, the planned relocation of USAFSAM will draw heavily on shared use of facilities with the Air Force Institute of Technology (AFIT) located at WPAFB.
 - The San Antonio proposal lists San Antonio as a "one-of-a-kind biomedical community". Atch 3 shows that the Dayton region around WPAFB is also a "biomedical center of excellence".

- Criteria 2: The "availability and condition of land, facilities and associated airspace" shows that Brooks AFB has no useable runway or active duty forces based there. On the other hand, WPAFB is one of the Air Force premier operational bases and one of the very few proposed as a "receiving location" for additional operational forces in BRAC 95.
 - On base AF warfighting personnel will be invaluable to enhancing the ability of the HSI and Human Systems SPO to accomplish their mission.
 - ^{REVITALIZATION}Revitalization of existing acquisition technical and educational facilities at WPAFB to host HSI and SPO activity greatly reduces the AF's excess capacity in these areas. This collocation further enhances WPAFB as the largest Research, Development and Acquisition (RD&A) complex in the free world.

- Criteria 3: Brooks AFB has no ability to "accommodate contingency, mobilization and future total force requirements". However, WPAFB continues to be a principal part of these AF activities with considerable demonstrated potential to expand (i.e. every major class of AF aircraft has been operated from WPAFB at some time in the last 20 years--fighters, bombers, transports, tankers).

- Criteria 4: The city has provided estimated "cost and manpower implications" for the cantonment. This data as well as the data for the proposed closure has been updated (Atch 4). This data shows that closure eliminates almost twice as many people--506 vs 266 and moves four times as many, 2876 vs 689. From a cost standpoint, it is elimination of positions which produce significant savings which more than offset one time moving costs.

- Criteria 5 is the first of the non-military value criteria and deals with "the extent and timing of potential costs and savings".
 - Atch 4 shows that closure has a 43% greater net present value (\$172M vs \$120M) than cantonment. Thus, cantonment will cost the Air Force \$52M more than closure in constant dollars.
 - Although the one time cost of closure is \$211.5M vs 21.4M for cantonment, the cantonment cannot be viewed as a closure since most missions will remain (Atch 5). The one time costs of closure is much more than offset by the much higher annual savings \$32.3M for closure vs \$10.5M for cantonment. Atch 4 shows that the site process has now refined the AF estimate for return on investment to 6 years (very desirable in BRAC terms). Note it will take at least two years for the cantonment (with its lower military value) to "pay back" vs the immediate payback asserted in the San Antonio proposal (Atch 4).

- Criteria 6: The economic impact on the San Antonio area of closing Brooks AFB was 1.1% in the AF analysis. No adverse economic impacts for WPAFB as a receiver site were identified.

- Criteria 7: Both communities were deemed to have the infrastructure to support forces, missions, and personnel." Brooks color coded green, and WPAFB color coded green in the AF analysis.
- Criteria 8: No adverse environmental impacts were found for moving from Brooks AFB (coded red) to WPAFB (coded yellow).

RECOMMENDATION :

The high military value of WPAFB coupled with the high net present value and 200% greater annual savings of closing Brooks AFB (including the quick return on investment) very favorably supports the AF/DoD proposal to close Brooks AFB versus the community proposal to canton Brooks AFB..

actions could result in cost increases to other Federal departments and agencies, DoD found that these costs in most cases analyzed would amount to a small fraction of BRAC savings -- less than 2 percent -- and therefore would not be likely to alter BRAC decisions.

BRAC 95 Selection Criteria

In selecting military installations for closure or realignment, the Department of Defense, giving priority consideration to military value (the first four criteria below), will consider:

Military Value

1. The current and future mission requirements and the impact on operational readiness of the Department of Defense's total force.
2. The availability and condition of land, facilities and associated airspace at both the existing and potential receiving locations.
3. The ability to accommodate contingency, mobilization, and future total force requirements at both the existing and potential receiving locations.
4. The cost and manpower implications.

Return on Investment

5. The extent and timing of potential costs and savings, including the number of years, beginning with the date of completion of the closure or realignment, for the savings to exceed the costs.

Impacts

6. The economic impact on communities.
7. The ability of both the existing and potential receiving communities' infrastructure to support forces, missions and personnel.
8. The environmental impact.

**INDUSTRIAL/TECHNICAL SUPPORT -
PRODUCT CENTERS and LABORATORIES Subcategory
ANALYSIS RESULTS at TIERING (20 Oct)**

The following grades and data reflect the information on which the BCEG members based their tiering determination. Information in this chart was updated as the result of a number of factors between initial tiering and final recommendations.

Base Name	<i>Flying Operations</i>	<i>Product Center/ Lab Evaluation</i>	<i>Facilities and Infrastructure</i>	<i>Contingency and Mobility</i>	<i>Costs and Manpower Implications</i>	<i>Return on Investment</i>	<i>Economic Impact</i>	<i>Community</i>	<i>Environmental Impact</i>
	I.1	I.5	II	III	IV	V	VI	VII	VIII
Brooks AFB	Red	Yellow	Green -	Red +	246/-78	10	7,723 (1.2%)	Green -	Red +
Hanscom AFB	Red	Green -	Yellow +	Red +	421/-158	9	18,769 (1.0%)*	Green -	Yellow +
Kirtland AFB	Yellow +	Green -	Yellow +	Yellow	448/-469	6	20,364 (8.0%)	Green -	Green -
Los Angeles AFB	Red	Yellow +	Yellow	Red +	450/-142	10	22,935 (0.6%)*	Yellow	Green -
Rome Lab	Red	Yellow +	Green -	Red +	134/ 112	100+	10,931 (8.2%)*	Yellow +	Yellow +
Wright-Patterson AFB	Yellow +	Green -	Yellow +	Green -	1,567/ 834	49	52,399 (11.9%)	Green -	Yellow -

A7CH1

INDUSTRIAL/TECHNICAL SUPPORT - PRODUCT CENTERS and LABORATORIES Subcategory

TIERING OF BASES

As an intermediate step in the Air Force Process, the BCEG members established the following tiering of bases based on the relative merit of bases within the subcategory as measured using the eight selection criteria. Tier I represents the highest relative merit,

TIER I

Hanscom AFB
Rome Lab
Wright-Patterson AFB

TIER II

Kirtland AFB
Los Angeles AFB

TIER III

Brooks AFB

ATCH 1



BRAC '95

Dayton Region -- Biomedical Center of Excellence

- **Academic**

- **Wright State University -- Only Civilian School of Aerospace Medicine**
- **Strong Medical Programs at Ohio State University and University of Cincinnati**
- **Dayton Area Graduate Studies Institute (DAGSI)**

- **Private Sector**

- **Kettering Heart Institute**
- **Hipple Cancer Institute**
- **Numerous Commercial Laboratories Specializing in R&D, Medical & Environmental Testing, and Biomedical Research**



BRAC '95

Dayton Region -- Biomedical Center of Excellence (Continued)

- **Federal**

- **Tri-Service Regional Medical Center
(Covers 10 Surrounding States)**
- **Wright Technology Network**
- **Fitts Human Engineering Division, Armstrong Laboratories
(Wright-Patterson AFB)**
- **Regional Veterans Administration Medical Center**



Brooks AFB COBRA Comparisons

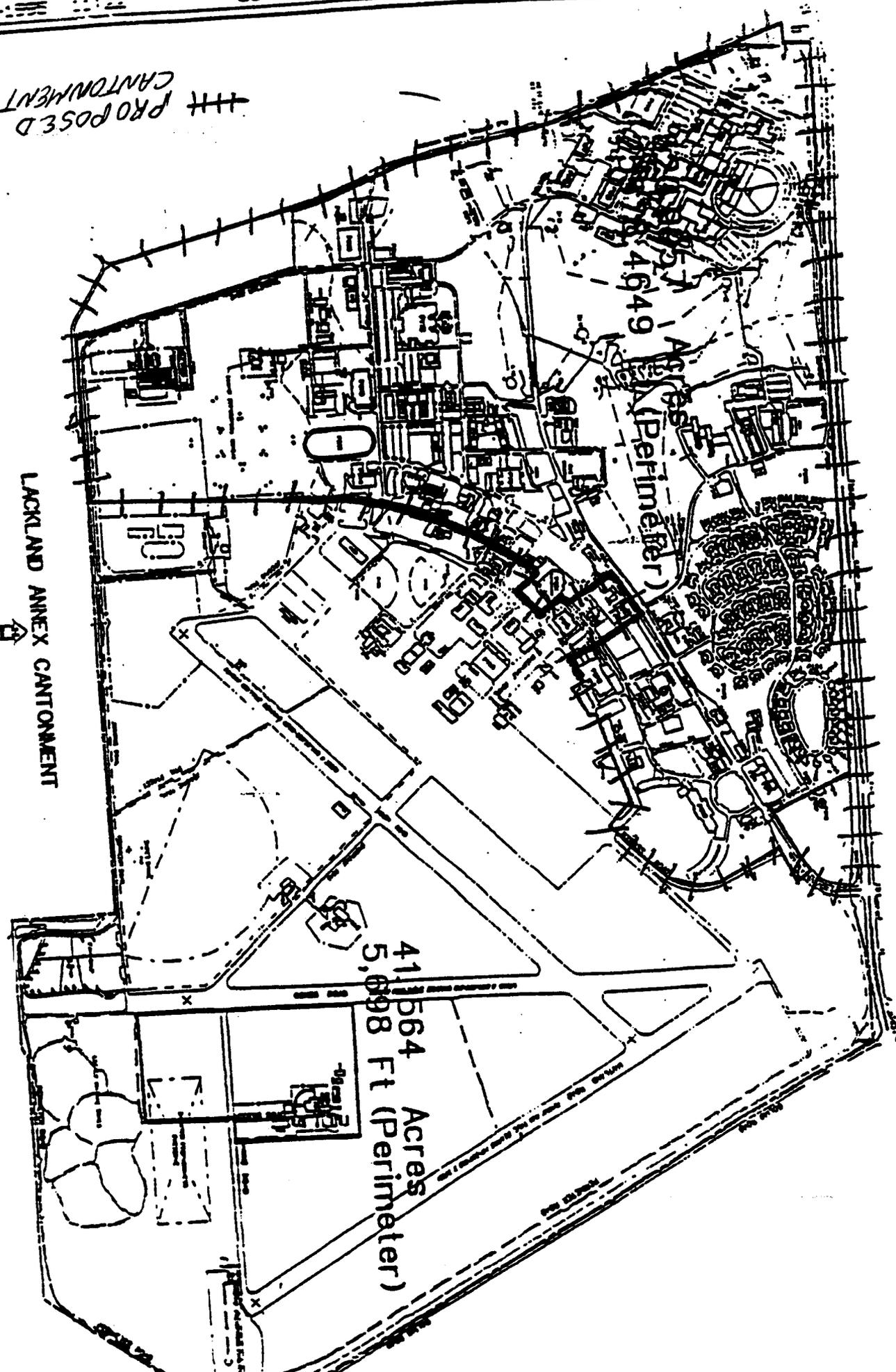
BRAC '95

- Scenario
- Brooks AFB
- People
 - Eliminate
 - Relocate

	<u>DOD Proposal</u>	<u>Alternative</u>
	Relocate	Cantonment
	Close	Close
• People		
- Eliminate	391 506	391 266
- Relocate	3,228 2,876	518 689
• One-Time Cost		
	\$185M \$211.5M	\$11M \$21.4M
• Recurring Savings		
	27M 32M	--- 11M
• 20 Year Net Present Value		
	(\$142M) (\$172M)	(\$301M) (\$120M)
• Return on Investment		
	7 Yrs 6 Yrs	Unmed 2 Yrs
Military Value (Installation)	High	Low

PROPOSED CANTONMENT

LACKLAND ANNEX CANTONMENT



41,564 Acres
5,098 Ft (Perimeter)

4,649 Acres
(Perimeter)



Relocation of Brooks AFB Activities to Wright-Patterson AFB

We understand the BRAC Commission is deliberating over the recommendation to relocate Brooks AFB activities to Wright-Patterson AFB. The activities are the Human Systems Center, Armstrong Lab and the School of Aerospace Medicine. We understand that this is a sensitive issue. The San Antonio community has proposed a Cantonment option, an option that on paper appears to be economically attractive. However, this option puts the Commission in a difficult position in deciding what criteria should be used in making their recommendations. We understand the need to look closely at this issue. We believe it is most important to focus on the following key decision criteria in rendering a final recommendation.

1. Military Value - from a military value perspective the consolidation of the human systems and aerospace medicine functions at WPAFB capitalizes on the investment the Air Force has already made to consolidate all aspects of aerospace technology at WPAFB. A major piece of Armstrong Labs is already located there. WPAFB retains the largest concentration of aerospace engineering talent in the world and maintains competencies in human factors research and aerospace medicine. Reuniting these activities adds tremendous value to the Air Force aerospace research capabilities at WPAFB and is absolutely consistent with the goals of BRAC.

2. Community Impacts - any BRAC action is going to cause community impacts. People will be affected. The right decision for DoD is to reduce excess capacity and consolidate its investments. Dayton is community rich in educational and medical opportunities, with a skilled workforce and a wide range of community services. Brooks AFB transition to WPAFB is possible without disruption of the activities' current mission. The Dayton community welcomes the Brooks AFB personnel with open arms.

3. Long Term Costs - Cobra Model assessments completed by the San Antonio community and the Air Force confirm that annual recurring savings are greatest by locating at WPAFB. Therefore, the best economic decision is to locate the Brooks activities at WPAFB. The initial cost for build out and transition of personnel is higher with that option, but on a year to year basis and over a twenty year period, it is more economical to consolidate the activities, operate them at WPAFB, close down the base at Brooks, and take the savings in overhead that are achievable by relocating at WPAFB. The net present value savings by consolidating the activities at WPAFB over the cantonment option are in excess of \$50 million dollars. In the long term, it is clearly most economically advantageous to consolidate Brooks AFB activities at WPAFB.

4. Infrastructure Reductions - a clear goal of BRAC is the reduction of overall excess capacity within DoD while trying to retain the core excellence and maintain the critical mass in competencies necessary to perform DoD missions. The Cantonment option does not accomplish this. The cantonment option claims to close Brooks but it only closes the excess land within the installation. 85% of the infrastructure (building and physical plant) is maintained with that option. The Air Force has excess capacity at WPAFB and plans to better use that capacity by consolidating its research activities there.

Military value, long term cost savings and reduced infrastructure all support the consolidation of Brooks AFB activities at WPAFB. The DoD recommendation meets all BRAC criteria for closure. This is a tough decision, but one that has to be made.



Fax Cover Sheet



ARMSTRONG LABORATORY
2509 Kennedy Circle
Brooks AFB TX 78235-5118



WORLD-CLASS
PEOPLE



Defense Switched Network (DSN): 240-XXXX
Commercial: (210) 536-XXXX
FAX Extension: 2371



GLOBAL
VISION

DATE: 8 JUNE 95 TIME: _____

FROM: DR BILL STORM OFF SYM: AL/KFTOPHONE: 240-3464 DSN

TO: Name: MR FARRINGTON
Office: _____
Phone: _____ Fax #: 703-696-0550

SUBJECT: Your Request for Centrifuge Comparison No. of Pages: 3
(including cover)

REMARKS: _____

**AL Centrifuges at Brooks AFB and Wright-Patterson AFB:
Recommendations following BRAC Decision**

- **Comparison of centrifuge capabilities**
 - Onset rate at BAFB is 6G/sec (matches current fighters); WPAFB rate is 1G/sec
 - BAFB system has a single direction of G application (sufficient for current aircraft); WPAFB system G direction can be varied to some extent (a limited potential for future agile aircraft)
 - BAFB gondola is smaller; WPAFB gondola is larger with greater volume permitting installation of a simple visual display system
 - BAFB system is relatively simple and inexpensive to operate/maintain; WPAFB system is complex and more expensive to operate/maintain
 - Both systems employ old technology
 - Operations are manpower intensive
 - Aging systems are more likely to have maintenance problems in the future
 - Fail to fully exploit modern technology

- **Utilization of centrifuges**
 - BAFB centrifuge is approximately 130% utilized, i.e., requests for centrifuge support exceeds time available by 30%
 - WPAFB centrifuge is not operating at capacity, but it does share a portion of the overall R&D load
 - Closing BAFB centrifuge without reestablishing an extended capability at WPAFB would deprive customers of support
 - Maintaining high-G onset capability in R&D community is mandatory to ensure relevance of research; must match capabilities of front line fighters. This is particularly true with the impending closure of the USN high-onset centrifuge

- **Consolidated Operations at WPAFB**
 - Recommend:
 - Closure of the BAFB centrifuge. No shipment to WPAFB will be required
 - Maintain operation of WPAFB centrifuge. As requirements evolve, make decision to close or maintain this facility.
 - Construct a state-of-the-art centrifuge at WPAFB with increased capabilities and decreased operations and maintenance costs

- **Factors impacting consolidation recommendation**
 - USAF needs two R&D centrifuges to meet current demands; future requirements are unknown
 - Moving BAFB centrifuge to WPAFB and reconstructing it on site (\$3-4M) will be less expensive than constructing a new centrifuge at WPAFB (\$11-15M); however:
 - Reconstructing old technology is not an effective use of funds
 - Modern centrifuge technology is readily available since contractors have recently or are in the process of constructing other centrifuges, i.e., minimum development costs
 - Advantages of construction of a new centrifuge
 - Incorporation of modern, efficient data capture systems--improved quality of science
 - Incorporation of modern visual display systems; improved relevance and exploitation of initiatives in performance investigation
 - Increased realism in flight profiles including future agile flight loads
 - Cost avoidance in maintenance
 - Cost avoidance in manpower devoted to operations; more efficient design and synergy of combining two centrifuge teams

- **Recommendation:** Support construction of a new centrifuge at WPAFB

6/16/95

Crew Systems Technology (CFT)

People at Brooks (comparable functions
w/ WPAFB cockpit work)

35 CIV

59 MIL

44 CONTRACTORS

94 AUTH

84 ON BOARD

NOT A LOT OF SYNERGY W/ BROOKS + WPAFB

BROOKS

SUITS - ~~ADV~~ Tech ANTI "G" SUIT (ATAGS)
MAJ POR

(RETROFIT + MODS) OBOGS - ON BOARD OXYGEN GENERATION SYSTEM
DRUG RESEARCH (BOMBER CREWS - BEST WAY
TO GET RESTFUL REST)

WPAFB -

CREW EJECTION

SUPER COCKPIT / NOISE REDUCTION

6/95

INFORMAL BROOKS SURVEY

22% OF LAB PERS WILL MOVE (AL)
OF MILITARY

50% OF PEOPLE WOULD
AFTER RETIREMENT

35% OF SCIENTISTS + ENGR

20% OF TECHNICIANS

H3I / CROSS SERVICING

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PREPARED 95 APR 05
LIST SEQ NR: 03 REPORT SEQ NR: 41

EXTENDED UNIT MANPOWER DOCUMENT
MAJCOM ID: 1M

PCN ST511-310
MANPOWER FILE PART: A

PAS NR-KD-TYP DET OZL ILC INSL-LOC-NAME ILK ISC QED PSC PSR ARR UDC CCF CBP MET SUP PAL CBP MET SUP PAL APN
FHHL 0000 ANL LB CM3C BROGKS AFD TX 953 U Y 3 X 4A BV 2V N NL
ZIP/APO
78234-5000

OSC AND TITLE FAC AND TITLE *** ** * C ASF A R R Y Y M FR H S A M R A
AME POS-NR AFS TITLE AFSC SEI GRD MNT EFF TRU AMT PGR PEC E ---- E P S L N E C L P A R S M R
PNC UTC PR-AFS/SEI EFF PR-AMT C OCC L I CFC C R R D Y S T A S R T I K P
CRK

OSC RECAP	953	954	961	962	963	964	971	972	973	974	981	982	983	984	991	992	993	994	001	002	003	004
CIV	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
AGG	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7

NCFTF	FLT MOTION EFFECTS	628000	EXPLORTY	DEV-LS/BI
1M 0009131	AERSP MED PHYSICIAN	048A3	LTC XXXXX	953 999 1 COL 62202A 5 A A 1 I
1M 0009133	AERSP PHYSIOLOGIST	043A3	CPT XXXXX	953 999 1 CPT 62202A 0 A A 10 1 I
1M 0009132	AERSP PHYSIOLOGIST	043A3	LT XXXXX	953 999 1 LT 62202A 0 A A 10 1 I
1M 0009142	MEDICAL SVC CMAN	4N071	MSG XXXXX	953 999 1 MSG 62202A A A I
1M 0009134	INSTR TLMTY SYS CMAN	A2E871	TSG XXXXX	953 999 1 TSG 62202A A A I
1M 0009136	AERSP PHYSIO CMAN	4M071	TSG XXXXX	953 999 1 TSG 62202A A A I
1M 0009135	CNM CMP SYS PSM JMAN	3C052	SSG XXXXX	953 999 1 SSG 62202A A A I
1M 0009137	AEROMEDICAL JMAN	4F051	SSG XXXXX	953 999 1 SSG 62202A A A 1 I
1M 0009138	AERSP PHYSIO JMAN	4M051	SSG XXXXX	953 999 1 SSG 62202A A A I

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REPARSED 25 APR 93 EXTENDED UNIT MARPOWER DOCUMENT OCN ST311-310
1ST SER NR: 03 REPORT SER NR: 41 MAJCOM ID: 1M MAYPOWER FILE PART: A

AS NR-KO-TYP DET OZL ILC INSL-LOC-NAME ILK ISC DEP PSC PSR ARR UDC CCP COP MEY SUB PAL CAP MET SUB PAL APM
CNCB BROOKS AFB TX 953 U Y 3 X 4A BV 2V M NL
8234-5000

IC AND TITLE EAC AND TITLE C ASF A R R Y Y M F R H S A M R A
AFSC SEI GRD MNT EFF TRU AMT RGR PEC C OCC LI DFC CR R DTY STA S RTT I K R
PR-AFS/SEL EFF PR-AMT

FTF FLT MOLLON EFFECTS 628000 EXPLORTY DEV-LS/BI
1M 0009139 AERSP PHYSIO JMAN 4M051 SSG XXXXX 953 999 1 ISG 62202A A A I

1M 0009141 INFO MGNT JRNY 3A051 SRA XXXXX 953 999 1 SSG 62202A A A 1 I

1M 0009140 CMM CMP SYS PGM JMAN 3C032 SRA XXXXX 953 999 1 SRA 62202A A A I

1M 0009143 AERSP PHYSIO JMAN 4M051 SRA XXXXX 953 999 1 SRA 62202A A A I

1M G116444 AERSP PHYSIO JMAN 4M051 SRA XXXXX 953 999 1 SRA 62202A A A I

1M 0009144 INFO MGNT APR 3A031 A1C XPXXX 953 999 1 A1C 62202A A A I

1M 0009145 HEALTH SVCS MGT APR 4A031 A1C XXXXX 953 999 1 A1C 62202A A A 1 I

1M 0009154 AERSP PHYSIOLOGIST 043A3 G14 XXXXX 953 999 1 G14 62202A 10 99999 A 1 I

1M 0009158 AERO MED PHYSICIAN 048G4 G14 XXXXX 953 953 1 G14 62202A 10 99999 A A I

1M 0009155 AERSP PHYSIOLOGIST 043A3 G13 XXXXX 953 999 1 G13 62202A 10 99999 A 20 I

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REPAPER 95 APR 95
IST SEQ NR: 03 REPORT SEQ NR: 41

EXTENDED UNIT MANPOWER DOCUMENT
MAJCOM ID: 1M

PCN ST511-310
MANPOWER FILE PART: A

AS	NR-KD-TYP	DET	C/L	ILC	INSTL-LOC-NAME	ILK	ISC	QEB	PSC	PSR	ARR	UDC	CCP	CSP	MET	SUB	PAL	CSP	MET	SUB	PAL	APN
BHL	0000	AML	LB		CNBC 9R00KS	AFS	TX	953	U	Y	3	X	4A	BV	BV	N	NL					

ZIP/APO
78234-5000

----CURRENT---- ---PROJECTED---

SC AND TITLE	FAC AND TITLE	***	***	***	C	ASF	A	R	R	Y	Y	M	R	H	S	A	M	R	A									
MI POS-NR	AFS TITLE	AFSC	SEI	GRD	MNT	EFF	TRU	AMT	RGR	PEC	C	OCC	L	I	DFC	C	R	R	DTY	S	T	A	S	P	T	I	K	R
PNC	UTC	PR-AFS/SEI	EFF	PR-AMT																								

CFTF	FLT MOTION EFFECTS	628000	EXPLORTY	DEV-LS/BI																												
1M	0009156	AERSP	PHYSIOLOGIST	C43A3	G13	XXXXX	953	999	1	G13	62202A	10	99999																			
1M	0009157	AERSP	PHYSIOLOGIST	C43A3	G13	XXXXX	953	999	1	G13	62202A	10	99999																			
1M	0009146	SCIENTIST	BEHAVIORL	G61S3B	G13	XXXXX	953	999	1	G13	62202A	10	99999																			
1M	0009152	COMM	CMPTR	PGMR AML	Q33S3C	G12	XXXXX	953	999	1	G12	62202A	10	99999																		
1M	0009149	DVLPMT	ENGR	ELECT	G62E3E	G12	XXXXX	953	999	1	G12	62202A	10	99999																		
1M	0009150	DVLPMT	ENGR	ELECT	G62E3E	G12	XXXXX	953	953	1	G12	62202A	10	99999																		
1M	0009151	DVLPMT	ENGR	MECHAN	G62E3H	G12	XXXXX	953	999	1	G12	62202A	10	99999																		
1M	0009159	GRND	RADIO	COMM	CMAN	2E173	G11	XXXXX	953	999	1	G11	62202A	10	99999																	
1M	0009161	INFO	MGMT	JRNY	3AC51	G05	XPXXX	953	999	1	G05	62202A	10	99999																		

C	RECAP	953	954	961	962	963	964	971	972	973	974	981	982	983	984	991	992	993	994	001	002	003	004
OFF		3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	

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PREPARED 95 APR 05
LIST SEQ NR: 03 REPORT SEQ NR: 41

EXTENDED UNIT MANPOWER DOCUMENT
MAJCOM ID: 1M

PCN ST511-310
MANPOWER FILE PART: A

PAS	NR-KD-TYP	DET	O/L	ILC	INSTL-LOC-NAME	ILK	ISC	GEO	PSC	PSR	APR	UDC	CCF	CNP	----CURRENT----				---PROJECTED---			
															MET	SUB	PAL	CNP	MET	SUB	PAL	APN
FHHL	0000	AML	L3		CNSC BROOKS	AFB	TX		953	U	Y	3	X	4A	2V	3V	N	ML				
								ZIP/APO														
								78234-5000														

OSC AND TITLE	FAC AND TITLE	AFSC	SEI	GRD	MNT	EFF	TRU	AMT	RGR	PEC	C	ASF	A	R	R	Y	Y	M	F	R	H	S	A	M	R	A	
																											PR-AFS/SSI
OSC RECAP		953	954	961	962	963	964	971	972	973	974	981	982	983	984	991	992	993	994	001	002	003	004				
ENL		13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	
CIV		12	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	
AGG		28	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	

MOFTO	SUSTAINED OPNS	628000	EXPLORTY	DEV-LS/91																						
1M	0009163	AERSP MED PHYSICIAN	048A3	COL	XXXX	953	999	1	COL	62202A																
1M	0009165	SCIENTIST BEHAVIORL	061S39	CPT	XXXX	953	999	1	MAJ	62202A																
1M	0009172	AEROMEDICAL CMAN	A4FD71	TSG	XXXX	953	999	1	TSG	62202A																
1M	0009168	INSTR TLMTY SYS JMAN	A2E851	SSG	XXXX	953	999	1	SSG	62202A																
1M	0009173	INFO MGMT JRNY	3A051	SRA	XXXX	953	999	1	SRA	62202A																
1M	0009178	SCIENTIST BEHAVIORL	061S39	M15	XXXX	953	999	1	M15	62202A	10	99999														
1M	0009179	SCIENTIST BEHAVIORL	061S39	M15	XXXX	953	999	1	M15	62202A	10	99999														
1M	0009189	AERSP PHYSIOLOGIST	043A3	M14	XXXX	953	999	1	M14	62202A	10	99999														

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PCN ST511-310
HANDPOWER FILE PART: A

PREPARED 95 APR 05
EXTENDED UNIT HANDPOWER DOCUMENT
MAJCOM ID: 1M
1ST SER NO: 03 REPORT SEQ NO: 41
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HHL 0000 AML LB CH9C BROOKS AF2 TX 953 U Y 3 X 4A 2V BV N NL
ZIPAPO
78234-5000
---CURRENT--- ---PROJECTED---

SC AND TITLE EAC AND TITLE C ASF A R R Y Y M F R H S A M R A
MI POS-NR AFS TITLE AFS C E P S L N E C L P A R S M R
PNC UTC PR-AFS/SEI EFF TRU AMT RGR PEC C OCC LI DFC C R R DTY STA S R T I K R
PR-AMT CRK

CFTS SYSTEMS RESEARCH 628000 EXPLORTY DEV-LS/31
1M 0009203 MEDICAL SVC CHAN X4M071 MSG XXXXX 953 999 1 MSG 62202A A A 1 I

1M 0009208 AIRCRW LIFE SPT CHAN A1T171 TSG XXXXX 953 999 1 TSG 62202A A A I

1M 0009210 AERSP PHYSIO CHAN 4M071 TSG XXXXX 953 999 1 TSG 62202A A A I

1M 0009212 AERSP PHYSIO CHAN A4M071 TSG XXXXX 953 999 1 TSG 62202A A A I

1M 0009209 AIRCRW LIFE SPT JMAN A1T151 SSG XXXXX 953 999 1 SSG 62202A A A I

1M 0009214 AERSP PHYSIO JMAN 4M051 SSG XXXXX 953 999 1 SSG 62202A A A I

1M 0009216 AERSP PHYSIO JMAN 4M051 SSG XXXXX 953 999 1 SSG 62202A A A I

1M 0009217 AERSP PHYSIO JMAN 4M051 SSG XXXXX 953 999 1 TSG 62202A A A I

1M 0009215 AERSP PHYSIO JMAN A4M051 SSG XXXXX 953 999 1 SSG 62202A A A I

1M 0009213 MEDICAL SVC JMAN X4M051 SSG XXXXX 953 999 1 SSG 62202A A A 1 I

1M 0009218 INFO NGMT JRNY 3A051 SRA XPXXX 953 999 1 SRA 62202A A A 1 I

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***** (THIS PAGE UNCLASSIFIED) *****

PAGE 287

FAX COVER SHEET

To: Lester C. Farrington
(703) 696-0504 fax (703) 696-0550

From: Herbert Klein
(210) 545-3646 fax (210)545-3664

Date: June 14, 1995

Pages: two (2)

Dear Mr. Farrington,

On June 13, 1995 I faxed you some comments regarding organizations that could move to Brooks AFB. The last paragraph on the fax cover sheet was not clearly stated, it should read as follows:

"The Laboratory Joint Service Group for Human Systems and Manpower & Personnel recommended the Armstrong Laboratory as a co-location/consolidation site for Army and Navy functions for which the Air Force has capability that the Army and Navy does not have at their consolidation receiving sites."

Enclosed are the comments that you requested on the relocation letter.

If you have any questions, please call me.

Sincerely,


HERBERT KLEIN

From the "Relocation of Brooks AFB Activities to Wright-Patterson AFB" letter, the the following paragraph is extracted.

" **Infrastructure Reductions** - A clear goal of BRAC is the reduction of overall excess capacity within DoD while trying to retain the core excellence and maintain the critical mass in competencies necessary to perform DoD missions. The Cantonment option does not accomplish this. The Cantonment option claims to close Brooks, but it actually only closes the excess land within the installation. 85% of the infrastructure (building and physical plant) is maintained with that option. The Air Force has excess capacity at WPAFB and plans to better use that capacity by consolidating its research activities there. The right decision for DoD is to reduce excess laboratory capacity and consolidate its investments."

Response:

The statement of excess capacity does not track with the fact that the Air Force is proposing to construct over a million square feet of new/renovated facilities at Wright-Patterson AFB and Tyndall AFB.

	New Milcon	Renovation	Total
Wright-Patterson	661,000 sq ft	300,000+ sq ft	961,000+ sq ft
Tyndall	54,000 sq ft	-	<u>54,000</u> sq ft 1,015,000 sq ft

note: The newly completed AFCEE facility at Brooks AFB contains 80,000 sq ft

These new/renovated facilities will cost \$115.5 million in military construction. The San Antonio proposal avoids this construction cost as well as the other up-front cost for a total up-front cost avoidance of \$211 million.

In the San Antonio proposal 1,288,364 sq ft were identified as mission facilities at Brooks AFB (this includes three billeting facilities, a dining hall and a gymnasium).

We have been told that the cost of relocating the AFCEE at Tyndall is \$1.5 million/year additional in TDY expenses due to higher airline fares and an additional estimated productivity loss of 2,800 man days annually because of longer travel times. This information was briefed by AFCEE to a BRAC staffer on June 5, 1995. These cost are annually recurring cost and were not included in the DoD proposal.

FAX COVER SHEET

To: Lester C. Farrington
(703) 696-0504 fax (703) 696-0550

From: Herbert Klein
(210) 545-3646 fax (210) 545-3664

Date: June 13, 1995

Pages: eleven (11)

Dear Mr. Farrington,

Enclosed is a list of organizations (and their manpower numbers) that could move to Brooks AFB.

From Tyndall - Armstrong Lab's (AL) entire Environics Directorate (AL/EQ). The decision to move this organization to Brooks has been made, it's awaiting implementation (documentation is included).

From Wright-Patterson - Parts of the AL's Occupational and Environmental Health Directorate (AL/OE) [Toxicology and the veterinary medicine folks (Comparative Medicine)], also a small branch Noise Effects could be moved. The result would be that no personnel from the OE Directorate would remain at Wright-Patterson and that all the animal related work would only be done at Brooks.

From Wright-Patterson - Parts the AL's Human Resources Directorate - Logistics Research.

The Laboratory Joint Service Group for Human Systems and Manpower & Personnel recommended as a consolidation site for the Air Force - Brooks AFB. They also recommended that the Air Force serve as the receiving site because the Army and Navy have no capabilities in this area.

If you have any questions, please call me.

Sincerely,



HERBERT KLEIN

ENVIRONICS DIRECTORATE (EQ)
Tyndall AFB FL

	manpower		authorization	
	<u>Q</u>	<u>E</u>	<u>C</u>	<u>Total</u>
Environics Quality (EQ)	1	0	2	3
Environmental Research (EQC)	2	1	2 2	2 5
Plans & Programs (EQP)	3	4	7	1 5
Environmental Compliance (EQS)	2	0	6	8
Site Remediation (EQW)	7	0	6	<u>1 3</u>
				6 0

OCCUPATIONAL and ENVIRONMENTAL HEALTH DIRECTORATE (OE)
Toxicology, Comparative Medicine and Noise Effects
Wright-Patterson

	<u>Q</u>	<u>E</u>	<u>C</u>	<u>Total</u>
Toxicology (OET)	8	6	4	1 8
Hazard Assessment (OETA)	5	6	0	1 1
Biochemical Toxicology (OETB)	8	6	4	1 8
Comparative Medicine (OEVN)	1	0	5	<u>6</u>
				4 0
Noise Effects (OEBN)	2	0	6	<u>+8</u>
				4 8

HUMAN RESOURCES DIRECTORATE (HR)
Logistics Research
Wright-Patterson

	<u>Q</u>	<u>E</u>	<u>C</u>	<u>Total</u>
Logistics Research (HRG)	1 0	0	1 1	2 1
Acquisition Logistics (HRGA)	7	0	1 1	1 8
Operational Logistics (HRRO)	2	1	7	<u>1 0</u>
				4 9

ENVIRONICS QUALITY (EQ)

Conducts research and development and provides guidance and assistance to the Air staff, Major Commands, and bases in environmental quality areas which affect Air Force weapon systems and industrial complexes concerning site remediation, environmental compliance, and treatment and/or elimination of pollution sources.

ENVIRONMENTAL RESEARCH (EQC)

Formulates and conducts fundamental and exploratory research and development necessary to provide a sound environmental quality research base that will ensure mission accomplishment while reducing the cost of ownership of our Air Force bases. Provides personnel, resources, and environment necessary to maximize creativity and productivity. Transitions environmental technology to advanced and engineering development programs, without delay to user. Assures that technologies developed are need-oriented and that they can be cost-effectively integrated with existing programs.

PLANS & PROGRAMS (EQP)

Provides the overall planning, operation, and administrative support functions for the Directorate's programs. manages the transition of environmental quality technology from the research phase to Engineering and Manufacturing Development or direct to the field. Provides the focal point for international cooperative research projects and defense data exchange agreements. Provides program control and analysis, financial management, administration, personnel administration, management of personnel training, communications/computer support and support contractor management for the Directorate activities. Provides technical library, technical editing, publishing services, and scientific and technical information (STINFO) program management to the Directorate.

ENVIRONMENTAL COMPLIANCE (EQS)

Develops, demonstrates, and transitions technologies to maintain and proactively comply with Air Force, federal, state and local criteria for hazardous materials and air quality. Develop technologies to measure and minimize environmental impacts of volatile, organic compounds and solvents, rocket propellants, aircraft fuels and emissions, and weapon systems materials used in Air Force operations. Document the amounts and effects of Air Force emissions and reduce them wherever possible, both to protect the environment and avoid fines and shutdowns that could impede mission accomplishment. Integrate technologies with industrial hygiene and toxicology guidance.

SITE REMEDIATION (EQW)

Develops, demonstrates, and transitions technologies which will provide cost-effective cleanup of contaminated Air Force sites. Whenever possible, choose a technology that offers a permanent and less expensive solution which is environmentally acceptable both for the present and for the future. Develop better onsite and long-term monitoring devices that will both assess the type and degree of contamination and choose the best method for site remediation. Reduce the total cost of remediation by 50 percent by the year 2000.

TOXICOLOGY (OET)

Provides structure and support necessary to facilitate collocation and collaboration of Air Force, Navy and Army toxicology programs which conduct in-house and contractual toxicology research. Provides the framework through which each service can be responsible for the operational toxicology support of its own service mission while efficiently sharing resources/facilities and avoiding duplication of effort. Provides for a resource/facility sharing approach to toxicology research where the government owned contractor operated Toxic Hazards Research Unit (THRU), pathology services, veterinary services, and existing office laboratory facilities are equitably shared and cofounded research providing Memoranda of Understanding between the services. Conducts in-house and contractual research providing operational support to assure the occupational and environmental safe use of Air Force chemicals and materials. Determines hazardous human effects, toxicological mechanisms, fate, and distribution of Air Force chemicals and materials. Toxicology research requires laboratory animal research, research with isolated tissues or cells and state-of-the-art modeling to understand and predict toxic health effects. Develops methods for extrapolating toxicity data from laboratory animals to man and prepares chemical health risk assessments. Acts as principal consultant to the Air Force for occupational and environmental toxicology research.

HAZARD ASSESSMENT (OETA)

Conducts toxicology research on materials, propellants, and chemicals used by Air Force personnel utilizing kinetic approaches to establish safe human exposure criteria and define toxicity testing requirements. Develops methods for assessment of environmental stresses on various species due to existing or proposed Air Force activities. Develops computer hardware/software resources for toxicokinetic studies and to implement kinetic strategies for use in hazard assessment decision making. Examines inhalation, dermal and oral routes of entry and investigates biological monitoring techniques. Provides analytical chemistry support for other branches.

BIOCHEMICAL TOXICOLOGY (OETB)

Performs research on biochemical and physiological mechanisms of toxicity of materials, propellants, and chemicals used by Air Force personnel. Develops physiological toxicokinetic theory for extrapolating toxicity data from animals to man and predict human risk arising from realistic environmental or occupational exposures. Examines alternative kinetic based methodologies for improving risk assessment for exposure to mixtures of chemicals and to chemicals with epigenetic mechanisms of carcinogenesis. Investigates biochemical mechanisms of toxicity of selected Air Force chemical at the molecular and cellular levels.

COMPARATIVE MEDICINE (OEVN)

Conducts research on the reproductive effects of materials, fuels, lubricants and chemicals unique to Air Force operations. Conduct studies in behavioral toxicology to detect subtle neurotoxicity associated with Air Force chemicals. Provides laboratory animal and veterinary medical support for all research animals used throughout Wright-Patterson AFB. Ensures that AAALAC standards for animal care and use are exceeded and that scientific staff are consulted on techniques and research design for ethical and humane use of research animals.

NOISE EFFECTS (OEBN)

Performs analytical and experimental research in the areas of physical and psychophysical acoustics. Develops engineering procedures, instrumentation, analytical models, software, and data bases that are required to define and predict the human response to annoying or potentially injurious acoustic environments associated with aerospace vehicles and other Air Force systems. Evaluates crew safety and performance capability during exposure to acoustic stress, and provides methods to conduct mandatory Department of Defense environmental quality assessment that are required to develop and maintain Air Force flight and ground operations.

LOGISTICS RESEARCH (HRG)

Conducts research and development focused on technology for improving the performance of integrated systems of people, information, and equipment doing essential acquisition and logistics support functions in peacetime and war. Logistics R&D includes developing maintenance aids and diagnostics processes, techniques for considering logistics throughout system design, integrated product development design tools that allow consideration of weapon system supportability from design inception, acquisition methods for forecasting logistics resource requirements, and techniques for assessing combat maintenance readiness and capability of integrated logistics systems.

ACQUISITION LOGISTICS (HRGA)

Performs research and develops technologies to create, facilitate, field demonstrate, and transition advanced methods, processes, and tools to improve logistics supportability of weapon systems as early as possible in the weapon system acquisition process and throughout their life cycle. This will result in enhanced quality, improved sustainability, increased affordability, reduced support requirements, enhanced combat capability, and new industrial competitiveness.

OPERATIONAL LOGISTICS (HRGO)

Conducts research and development to improve the combat capability of base level logistics functions by developing technology to aid maintenance performance, developing methodology, techniques, processes, and procedures to assess capability, measure actual performance, and improve personnel and organizational effectiveness, overall system performance, and mission success at base or depot level. Products will help ensure that the logistics system is capable of meeting mission requirements.

GENERAL STRATEGY TO COMPLY WITH CSAF DIRECTION

The directed 50% reduction in authorizations will be taken primarily by giving up slots previously identified for DMR cuts and by giving up unencumbered civilian slots. Beyond these reductions, an additional 10 encumbered slots must be cut. With only one exception, all encumbered slots being eliminated are in the support functions, EQP and EQ-CCQ. The philosophy is that functions such as orderly room, personnel, supply, financial management, and plans are available at Brooks AFB. However, the unique expertise of our in-house research staff and our project managers is not available at Brooks AFB. Therefore, the in-house research and project management positions have been protected. However, it must also be pointed out that term civilian employees will not be moved to Brooks AFB, and some of our term employees are in-house researchers or project managers. Thus, even given our cut philosophy, there will be adverse impacts on in-house research and project management. Attachment 3 shows the AL/EQ organization and personnel after the 50% reduction and loss of non-permanent personnel. We are working closely with civilian personnel offices at both Tyndall AFB and Brooks AFB to implement appropriate incentives to avoid a reduction in force (RIF). The total of 14 term employees, many of whom have been EQ R&D assets for over 6 years, must be considered in the overall move impact.

Following the 50% reduction, our plan is to move the remaining personnel, equipment, and support contractors to a suitable facility at Brooks AFB. For the most part, the current and planned Environics Directorate program, both in-house and out-sourced, will continue as previously planned, except for expected delays due to closing the operation at Tyndall AFB, moving, and then reestablishing at Brooks AFB. In-house projects may be delayed by as much as 6 months to 1 year, or potentially longer if the facility at Brooks AFB is less than adequate. Throughout the move, the integrity of the Environics program must be maintained; those individuals moving will stay together organizationally and physically. Further expansion of the program in the areas of atmospheric chemistry, sensor, and chemical reactor technologies is anticipated with the out-years funding increase.

REQUIREMENTS FOR MOVE TO BROOKS AFB

FACILITIES

Current:

The Environics Laboratory was designed and built in 1986 as a special, one-of-a-kind, laboratory to support the full range of environmental research to clean-up past waste disposal sites and comply with current and future environmental regulations. This facility was specifically designed and constructed to provide the necessary room, clearances, and accesses to house the wide range of equipment required to conduct research. Safety and occupational health considerations make the laboratory facility design and layout

especially critical. The significant research currently underway could not be conducted unless the provisions to ensure the protection of the researchers were addressed in the facility design, making this facility a critical asset in the overall research effort.

The main laboratory is a 20,750 sq ft facility of unique, highly specialized research equipment including a 20 foot high bay "pilot plant" for design, construction and operation of large-scale experiments. The high-bay area is especially critical in support of scale-up operations where equipment used for laboratory-scale experiments is expanded to a larger scale necessary for transition to actual demonstrations in the field. Other areas of the laboratory have unique experimental chambers for both atmospheric reaction studies and groundwater soil-contamination interaction experiments. There is also a specialized glass and fabrication shop where glassware and equipment needed to conduct environmental research are fabricated to support laboratory operations.

The Directorate has a separate Energetics Research Laboratory facility located at a remote area. This facility is a 1,280 sq ft environmental biotechnology laboratory. It provides unique capability for conducting scientific study and experimentation for Air Force needs in the area of energetic materials. It has both wet lab and analytical instrumentation capabilities. Equipment includes an atomic absorption spectrophotometer, gas chromatograph, a high-pressure liquid chromatograph, and assorted field equipment. The building is securable and capable of supporting numerous Air Force and DOD activities, both classified and unclassified.

Additionally, the Directorate has 17,000 sq ft of administrative space for the Director, Chief Scientist, Program Managers, Programs and Plans Division, Technical Information Center, Orderly Room Administration, and Engineering Contractor Support.

Required:

Approximate space requirements at Brooks AFB for administrative and laboratory areas are listed below. Since most of our authorization reductions are being taken in our support staff, space requirements for the administrative areas are much reduced compared to current AL/EQ administrative areas at Tyndall AFB.

	<u>Bench (sq ft)</u>	<u>Support (sq ft)</u>	<u>Total</u>
Administrative areas:			
Programmatic support	-	2,800	
Contractor, admin duties and storage	-	1,500	
SUBTOTAL	-	4,300	4,300

Laboratory areas:

Subsurface Fate & Transport	3,523	2,000	5,523
Environmental BioTech	4,340	980	5,320
Analytical Chem Note: includes spacing for in-house JP-8 fuel studies	3,300	1,580	4,880
Atmospheric Chem	900	580	1,480
Environmental Sensors	600	400	1,000
Hazardous Waste Tech Note: a minimum of 20 feet ceiling space is required.	4,600	800	5,400
Dense Particle Test	180	-	180
Energetics Research	1,444	-	1,444
Fabrication/Glass	905	100	1,005
Contractor Support		3,000	3,000
SUBTOTAL	19,792	9,440	29,232
TOTAL	19,792	13,740	33,532

Minimum laboratory requirements to support current and planned research efforts grow to over 29,000 square feet. This increase over current space requirements is due to the expansion of in-house atmospheric chemistry and hazardous waste treatment technologies. In addition, during FY95 a supercritical reactor, which represents a \$7,000,000 investment, will be returned by the contractor to the laboratory. This reactor will serve as the basis for the hazardous waste technologies research program and represents a major Air Force and DOD investment.

Total electrical power requirements for the research facility are estimated to be 3200-3900 amps with both single and 3-phase circuits. Ventilation and dual air conditioning systems are needed to accommodate equipment, maintenance, and repair activities.

ANNEX G - CIVIL ENGINEERING

1. **OBJECTIVE:** To ensure adequate Civil Engineering support is provided before, during, and after AL/EQ move to Brooks AFB.

2. **ASSUMPTIONS:**

a. AL/EQ will be able to move into existing facilities at Brooks AFB and continue with its existing mission.

b. A new facility designed specifically for the AL/EQ mission will be requested through MILCON. When approved this new facility will be the permanent home for the AL/EQ directorate.

3. CONCEPT OF OPERATIONS: AL/EQ will move into existing facilities at Brooks AFB.

a. These facilities include Building 175E (with the exception of the expanded secure area) and a portion of building 125 West Wing to house our laboratory facilities. Building 175E will house the environmental biotechnology, environmental fate and transport, and analytical chemistry elements of the basic research laboratory. Building 125 West Wing will house the atmospheric chemistry and sensor technology areas.

b. In addition, administrative space in buildings 125, 130, 160 or 170 will be made available as needed to accommodate AL/EQ administrative needs.

c. Two minor construction projects will also be accomplished. One project is a high ceiling laboratory with an open end weather shelter to house pilot plant and large bioreactor. The second project will "fill in" the breezeway between east and west portions of building 175 to provide additional administrative support space.

4. ENVIRONMENTAL RESPONSIBILITIES:

a. AL/EQ will prepare the AF Form 813, Request for Environmental Impact Analysis. AF Form 813 will be forwarded to 325 CES/CEV for environmental determination. AL/EQ will provide additional assistance as required.

b. 70 CES will prepare the AF Form 813, Request for Environmental Impact Analysis. AF Form 813 will be forwarded to HSC/EM for environmental determination. 70 CES will provide additional assistance as required.

5. SPECIFIC GUIDANCE: See Appendixes 1-5.

6. RESPONSIBILITY: OPR for this annex is Kip Assenheimer, 70th CES/CERR, Brooks AFB TX DSN 240-2654. AL/EQ POC is Lt Col Harvey Adams, DSN 523-6008.

TOTAL P.05



BRAC '95
BASE REALIGNMENT AND CLOSURE TASK FORCE

June 9, 1995

Please refer to this number
when responding 950603-25

Mr. Lester C. Farrington
Senior Analyst
Defense Base Closure and
Realignment Commission
1700 North Moore Street, Suite 1425
Arlington, VA 22209

Dear Mr. Farrington:

Enclosed are the comments to Congressman Pete Peterson's letter.

The substantive comments to the Dayton community paper have been adequately addressed in Congressman Tejada's letter (dated June 5, 1995).

Please let me know if you have any questions or need additional information.

Sincerely,



Paul L. Roberson
Project Director
Mayor's BRAC '95 Task Force

Comments on the
May 26, 1995 letter and attachments
from
Congressman Pete Peterson

basic letter
paragraph 2

Congressman Peterson states in the second paragraph of his letter: "...a proposal to cordon off 15% of Brooks AFB into a cantonment area with support coming from Kelly or Lackland."

response: "The San Antonio community briefing stated: ..."This map shows how the cantonment area might look ...--- that's about 15% of the present base ... I want to emphasize, at this point, that this map is only a draft to demonstrate feasibility."

attachment
1st bullet

° School of Aerospace Medicine

- Proposal is not specific as to whether the cantonment area will include the New School of Aerospace Medicine facility or if it will be set off by itself. In either case there appears to be no consideration given to housing and feeding the approximately 5000 students each year. Are the students to be housed and fed at Kelly/Lackland and be transported each day to Brooks?

response: The New School of Aerospace Medicine is included in the cantonment area as are three transient quarters, a dining hall and the base gymnasium.

2nd bullet

° Increased cost due to inefficiencies caused by protracted support from fourteen (14) miles away is not considered.

- Host base services of finance, facility operations and maintenance, personnel, housing, procurement food service travel security fire protection etc. would cost more.

- Brooks' occupants would suffer loss of productive time due to travel between Brooks and host base.

- These additional costs would be ongoing.

response: The DoD proposal moves the entire Human Systems Center (HSC) to Wright-Patterson Air Force Base. This relocated unit is planned to be bedded down in area B. Area B is geographically separated from the main base (Area A) by approximately 8 miles. The support services are primarily located in Area A and only a few services are available in Area B. These services consist of a gymnasium, a cafeteria, a small Base Exchange and a SATO travel office. It seems that all the current units located in Area B (Wright-Patterson) operate with the "inefficiencies" stated above. Also, Maxwell AFB and Gunter AFS (Air Force Station) are geographically separated by approximately 15 miles, and they utilize a single Base Operating Support organization located at Maxwell AFB.

3rd bullet

- Operating a cantonment area with protracted support functions located miles away is not practical.
 - Historically, users will demand and the support base will agree to provide satellite facilities on site to be more responsive to the service required.
 - In time, the base will return to almost its original configuration, which defeats the base closure notion.
 - In BRAC '93 Rome Laboratory in New York was placed in a cantonment area at Griffiss AFB; in BRAC '95 the Secretary recommended the cantonment close and the lab relocate to Hanscom AFB, MA.

response: The San Antonio proposal basically changes HSC from being a landlord to being a tenant. This basic change dramatically effects the authorized manpower for the support functions and is where the overall savings for the San Antonio proposal are accrued.

As stated above it works for Wright-Patterson because the support is only a few miles away. It will work for Brooks because the support is only a few miles away. The support configuration will not alter over time, because the manpower authorization are tied to the landlord not the tenant.

The comparison to Rome lab is not relevant because the lab became an isolated unit with no support for several hundred miles.

4th bullet

◦ Air Force Center for Environmental Excellence

- Proposal is not specific as to what will be done with the nearly completed \$7.5 million AFCEE facility an the east end of Brooks.

- Although a single cantonment was presented, will there be a second cantonment or will there have to be another \$7.5 million facility built within the proposed cantonment?

response: The San Antonio proposal does not include the nearly completed AFCEE facility inside the cantonment area. The building will be a stand alone office building, similar to other federal office buildings in San Antonio. The AFCEE mission does not require the office building to be located inside a military installation. The final configuration of the cantonment will be dependent upon how the Air Force decides to implement this plan. The DoD proposal does include the construction cost of a new facility at Tyndall AFB. Walking away from a new, soon to be occupied, \$7.5 million facility would not make good economic sense.

5th bullet

◦ Proposal shows \$6 million construction; \$5 million at Brooks and \$1 million at Kelly.

- The construction cost appears too low to attain the one cantonment area proposed.

response: The primary changes are minor; fencing, utility meters, gate house, and minor building modifications.

6th bullet

◦ The proposal implies that all functions of Armstrong Laboratory (AL) and Human Systems Center (HSC) mission presented are physically located at Brooks AFB.

- Tyndall Environics Division currently performs all functions presented on one chart and referred to in their testimony (page 59, line 1-17) "... the development and implementation for new techniques for cleaning up environmental waste ..., use of micro-organisms to enhance waste cleanup"

- Armstrong Laboratory contingent (300+ people) currently at Wright-Patterson AFB is performing most of the functions that are claimed to be performed at Brooks (aircrew systems, toxicology, and logistics support)

- Nuclear/biological/chemical defense which are performed at Aberdeen, MD

- Aircrew training which is performed at Mesa, AZ

response: This entire portion of the briefing was under the section "MISSIONS AND PRODUCTS". The Human Systems Center and the Armstrong Laboratory are located at Brooks AFB and they are responsible for these and many other missions (including one located in Okinawa, Japan). The briefing clearly stated this fact.

Within the Armstrong Laboratory, they operate a number of integrated research programs that cross the spectrum of these diverse Directorates. AL has integrated teams working specific research using the strength of the organization regardless of the geographic location. Examples are: Pilot fatigue studies; Situational Awareness; Cockpit Display Development; Environmental Research and Air Force field unit support for environmental issues. The chemical defense laboratory research is conducted by Armstrong personnel located at Aberdeen, but the development of aircrew equipment coming out of this research is the responsibility of the Human Systems Program Office located at Brooks - using integrated product teams they address these Air Force chemical defense issues.

The Air Force has made the decision to move the Environics Directorate from Tyndall AFB to Brooks AFB. The San Antonio proposal will free up the needed facility space to accommodate this move.

7th bullet

- No credit was given for reducing the overhead cost due to the synergism of collocating AFCEE with AFCESA at Tyndall or Armstrong Laboratory and HSC with Wright Laboratory and Aeronautical Systems Center (ASC), or Armstrong Laboratory's other divisions at Wright-Patterson AFB.

response: We have been told, that the cost of locating the AFCEE at Tyndall is \$1.5 million/year additional in TDY expenses due to higher airline fares and an additional estimated productivity loss of 2,800 man days annually because of longer travel times. This information was briefed by AFCEE to a BRAC staffer on June 5, 1995. These cost are annually recurring cost and were not included in the DoD proposal.

Discussions with senior AFCEE personnel indicate that there is no synergism between AFCEE and AFCESA. The reduced overhead cost of locating the Human Systems Center at Wright-Patterson were included in the DoD proposal.

8th bullet

- The survey of affected people referred to in their testimony appears to be biased when they said "... more than 50% won't move."... more than 50% won't move." There probably will be some loss, but it should not approach 50%.

response: The survey indicated that that at least 50% won't move. In some organizations, 75% indicated that they won't move. Because San Antonio has a large biomedical community, the potential employment opportunities strongly influenced this survey. We would hope that if the DoD proposal were to be implemented, that the survey would turn out to be wrong - since this would be in the best interest of the Air Force.

9th bullet

- A significant portion of the savings and reduced costs claimed in the San Antonio COBRA model comes from implementing the San Antonio proposal in two (2) years instead of six (6) years in the Air Force proposal.

response: The 6 year period in the DoD proposal includes over \$200+ million in moving and military construction costs. The San Antonio proposal avoids this huge up front cost for the construction of facilities and the movement of personnel and equipment.

Because people are not moving, and it does not require a huge construction effort, such as at Wright-Patterson and Tyndall AFB's - the San Antonio proposal can easily be accomplished in two years. We agree, it would take the Air Force six years to implement the DoD proposal.

PETE PETERSON
2d DISTRICT, FLORIDA

COMMITTEE
ON
APPROPRIATIONS
SUBCOMMITTEES:
ENERGY AND WATER
RESOURCES
AGRICULTURE AND RURAL
DEVELOPMENT

Congress of the United States
House of Representatives
Washington, DC 20515-0902

May 26, 1995

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PANAMA CITY, FL 32401
(904) 785-0812

Mr. Alan J. Dixon
Chairman
The Defense Base Closure and Realignment Commission
1700 North Moore Street, Suite 1425
Arlington, Virginia 22209

Please refer to this number
when responding. 950530-16

Dear Mr. Dixon:

I respectfully request that you consider the attached information regarding the recommended move of the Air Force Center for Environmental Excellence (AFCEE) from Brooks AFB to Tyndall AFB. These facts should give you a better understanding of why this transfer should take place.

As you know, the City of San Antonio recently made a presentation to the BRAC Commission at the Regional Hearing in Dallas, Texas. Among their recommendations to the Commission was a proposal to cordon off 15% of Brooks AFB into a cantonment area with support coming from either Kelly AFB or Lackland AFB.

Although I was not personally in attendance at the hearing, I have received information on some very serious concerns with the cantonment proposal. The attachments to this letter go into further detail of these potential problems. As a reminder, Major General McCarthy, the Air Force Civil Engineer, strongly supports the original plan to move AFCEE from Brooks to Tyndall.

Thank you in advance for your careful consideration of this matter, and best of luck with the challenges you face in the coming months. Please do not hesitate to contact me or my staff assistant, Mr. Andy Ball, at (202) 225-5235, should you need additional information.

Sincerely,



Pete Peterson, M.C.

DBP:jab

Billy E. Welch, PhD
122 Encino Blanco
San Antonio, TX, 78232

June 4, 1995

Senator Alan J. Dixon, Chairman
The Defense Base Closure and Realignment Commission
1700 North Moore Street Suite 1425
Arlington, VA, 22209

Dear Mr. Chairman:

I reluctantly write this letter regarding the Air Force proposal to close Brooks AFB and move most of the elements to Wright-Patterson AFB. Reluctantly, since I spent 35 years working for the Air Force and regret having to disagree publicly with the decision. Yet I must, since I sincerely believe their argument is not persuasive. The savings will turn out to be miniscule if they indeed re-create the organization and provide adequate facilities at Wright-Patterson. There will be a significant detrimental effect upon the teaching and research programs and the overall impact upon the Air Force will be strongly negative.

You have received from the Air Force a great deal of data purporting to show how cost effective their proposal to move really is. Unfortunately, these data seem to be changing with regularity and raise the question of what the numbers really are. On the other hand, we know what the facilities at Brooks are, we know one can develop more efficient ways of operating the installation, and we know that the proposal submitted by the City of San Antonio will produce savings about twice as large as the Air Force proposal. This alternative proposal can be implemented without abandoning quality facilities, without spending some \$211M up front for new construction/rehab, moving and re-location, and without disruption of the on-going programs. In short, the alternative proposal, which was not originally studied by the Air Force, can achieve the goal of saving resources without a large up-front investment. Basically, the proposal would close Brooks AFB and make the resulting cantonment a tenant of either Lackland AFB or Kelly AFB. While this is not the norm, it certainly is not unique.

As the past Director of the Armstrong Laboratory, I admit to some bias. I hasten to add, however, that my experience with the people and the programs provide me a unique opportunity to comment from a perspective of knowing the programs and the value they provide to the Air Force. If I felt the move were positive, that the programs would have a real chance to compete for future resources, that proper facilities would indeed be provided, and that the Air Force would really benefit from such a move, I believe I could be objective and support such a decision. However, for the reasons noted in this letter, I do not feel that closure and move is the best and most cost-effective solution. I strongly endorse the cantonment proposal as one that is better for the Air Force and this nation.

Thank you for your consideration. You have a difficult, but important task.

Sincerely,



Attch: Comments

COMMENTS ON THE CLOSURE OF BROOKS AFB

Moving the operations from Brooks to Wright-Patterson carries a great risk for the future of human systems research, training, and education. The Human Systems Center at Brooks manages the only integrated human systems research effort in the DoD. The Center has successfully developed a strong interdisciplinary group of physicians, social, biological, and physical scientists and engineers all focused on the human in the weapon system and how to extend human capabilities and enhance performance. This approach as the independent advocate for the human assures at least one voice for those who must operate the weapons and upon whom we rely for much of our national security. In my opinion, this move will spell the demise of this independence. This will not occur immediately, but within the next 5 years, I predict a management decision to "save overhead" by eliminating the Human Systems Center entirely, combining the Armstrong Laboratory with the Wright Laboratory, and merging the School of Aerospace Medicine with either AFIT or the Wright State University Medical School. This would be a tremendous setback for the Air Force and would cost us dearly in terms of efficiency of operations, cost of training, and crew performance enhancements in new weapon systems.

The Human Systems Center carries out its programs through three organizations: 1) the Armstrong Laboratory; 2) the Human Systems Program Office; and 3) the USAF School of Aerospace Medicine. All three are outstanding in their respective fields. The Armstrong Laboratory is internationally recognized as one of the four Air Force "Super Labs". The relevance of its efforts regularly rates in the top half of all the laboratories as judged by Air Force users. The Air Force major commands regularly refer to the laboratory as a partner or as "my lab". The dollar impact to the Air Force is substantial in such areas as reducing the cost of training, enhancing the capability of aircraft maintainers, medically qualifying grounded pilots to return to the cockpit, and providing physiological standards and protection from a broad spectrum of Air Force environments. The quality of the work as assessed by the Air Force's Scientific Advisory Board is tops among the laboratories. The DoD Joint Laboratory Cross-Service Working Group judged it to be a place for the other services to co-locate. Indeed, both the Army and the Navy have already co-located portions of their human systems R&D efforts with those of the Armstrong Laboratory. About half of the labs staff are scientists or engineers, with some 33% of these holding doctorate degrees and 65% holding advanced degrees in their field. This percentage with doctorates is the highest of the four Air Force Laboratories. Additionally, frequent visitors from the academic community regularly comment most favorably on the scientific programs at the Armstrong Laboratory. A notable example occurred this spring when a distinguished member of the Defense Science Board and a Nobel Laureate, concluded after his second visit to the Laboratory that "disruption of these programs by moving would be a folly".

The Human Systems Program Office provides the HSC with the means to transition technology and science into systems. This was the first program office to be certified in the Integrated Weapon System Management concept, which is the benchmark for Air Force acquisition. It has twice been selected by the Air Force Materiel Command as the outstanding small program office of the year, the most recent being 1993. The Human Systems Program Office was also selected as the winner of the Department of Defense Superior Management Award in 1994. The common theme of all the engineering development programs is protection and enhancement of human capabilities--the reason for the Human Systems Center.

The USAF School of Aerospace Medicine (SAM) has been, and is today, noted internationally as the premier center of aerospace medical training. Approximately 5,000 people/year are trained at SAM. All entry level aeromedical specialities receive their training here. Additionally, specialized training (usually at the graduate level) is provided for environmental health officers, bioenvironmental engineers, aerospace physiologists, flight nurses, and flight surgeons. In this latter course, leading to certification by the American Board of Preventive Medicine, all of the Air Force flight surgeons and many of those in the Army receive their training. This residency is the largest in the world and is the cornerstone of this specialty so critical to Air Force operations. The SAM also conducts an extended flight surgeon program for physicians from our allies. These physicians typically are the best from these foreign nations and normally find their way into leadership roles in their respective armed forces. This has a positive, enduring impact on our ability to operate in the international arena and contributes significantly to international standardization of aeromedical criteria.

The Air Force Center for Environmental Excellence (AFCEE) was not accidentally located at Brooks Air Force Base and in close proximity to the Human Systems Center and its organizations. Indeed, a significant part of the AFCEE's initial cadre of bioenvironmental engineers came from the Human Systems Center. This was a result of an orderly hand-off of a program that had reached a level of maturity that required the full-time attention of a separate organization. The Human Systems Center has and does support the AFCEE with research, acquisition, and training. The continued close location of these entities will greatly facilitate the successful completion of the important endeavors in the AFCEE.

This internal synergy between the organizations at Brooks AFB is significantly enhanced by the proximity to other military installations (customers) in the area and by the presence in San Antonio of a large, vibrant research community coupled with growing academic institutions. This has and will continue to provide interactions and joint ventures that have been and will be of significant benefit to the Air Force.

Point Paper
On
Brooks AFB
MILCON COBRA

- The information provided will be in Then Year dollars
 - All MILCON is to be accomplished in 1998 and 1999
 - The numbers provided will be higher than the COBRA numbers due to applying the inflation factor which is how the MAJCOM briefed (COBRA MILCON cost was \$115.7M)
 - Abbreviations are: SAM - School of Aerospace Medicine; HSC - Human System Center
 - AL - Armstrong Laboratory; School of System Acquisition (SAS)
 - AFCEE - AF Center for Environmental Excellence
 - AFMOA - AF Medical Operations Agency
 - AFMSA - AF Medical Support Agency

- Wright-Patterson MILCON (\$113.0M (TY))
 - SAM (New): \$13.0M
 - SAM Bldg 821 (Renovation): \$1.6M
 - SAM Dormitory (New): \$7.0M
 - SAM Outdoor Training Area (Renovation): \$0.5M
 - SAS (Renovation): \$0.7M
 - HSC/AL Library (Renovation): \$2.2M
 - AL Centrifuge (ADAL): \$3.5M
 - AL Facility/Laser Lab (New): \$26.1M
 - AL Vivarium Facility (ADAL): \$16.4M
 - AL Staff Facility (Renovation): \$1.0M
 - HSC SPO (Renovation): \$11.0M
 - Aerospace Medicine/Director (Renovation): \$20.4M
 - "Fair Share" for Dining Hall (ADAL): \$0.3M
 - Planning & Design (9.0%): \$9.3M

- Other MILCON at Kelly/Lackland/Tyndall (\$23.2M (TY))
 - AFMSA/AFMOA/AF Drug Testing Lab (Renovation): \$1.7M (w/P&D)
 - 68th Intel Sqd/ Hyperbaric Chamber (Renovation): \$8.5M (w/P&D)
 - AFCEE (New): \$13.0M (w/P&D)

Maj Michael Wallace/AF/RTR/54578/26 May 95

FAX COVER SHEET

HQ USAF/RTR
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 WASHINGTON, DC 20330-1670
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DATE: 26 May 95 (1415Z)

FROM: DF/RJR
Ma, Wallace

TO: Commission

ATTN: Mr. Les Fallington

FAX #: 696-0550

NO. OF PAGES 2 + 1 COVER SHEET

REMARKS: Sir,

Attached is the response to two of your three requests from our session today. First, please add the updated Brooks (contingent) map drawn based on ~~the~~ ^{the} Commission Tasker of 20 Apr 95 (#950410-24) as the 2nd attachment. Second; ~~a~~ a MILLION point paper is attached showing a "line item" breakout of the total MILLION costs associated with the Brooks closure recommendation. Finally, we will have an OI/Face position relating to the Brooks OFB MFA prior to your final deliberations on Re. weeks of 19-23 Jun 95.

for the closure
 of Brooks OFB

Resp)
 Maj Wallace

Cat Codes	Titles	Deter'g Unit	Sq Ratio	# of Unit	Unit Factor	SR for InB Labs	SR for InB AFCEE	Required Capacity	Current Capacity	Excess Scope	Prog'd Scope	UM	Tri-Svc \$/unit	Total (\$M)	Remarks
													BOS	7.93	
													Subtotal	87.22	
Military Family Housing															
710-000	FAMILY HOUSING	BRAC:		Ofcr 459	Amn 681	669	36			255	0 EA		116000	0	
		Adjstmnt		-48	-80									0	
		Final#		411	621										
													Subtotal	87.22	
													Planning	7.85	
													TOTAL	95.07	



MIAMI VALLEY
**Economic
Development
Coalition**

Courthouse Plaza, NE, 22nd Floor
Dayton, Ohio 45463
(513) 495-3177 Fax: (513) 495-3161

WPAFB Task Force

**Meeting with BRAC '95 Commission Staff
Washington, DC**

Tuesday, June 13, 1995, 9 a.m.

Community Representatives

Allen M. Hill, President and CEO

Dayton Power and Light Company

Ronald F. Budzik, Vice President
International & Public Affairs

Mead Corporation

David Milam, President & CEO

Wright Technology Network

Dr. Stanley Mohler, Chair

Wright State University,
School of Aerospace Medicine

Ronald D. Wine, Vice President

Miami Valley Economic
Development Coalition

TaskForce Support

Mary Ann Gilleece, Partner

Gadsby & Hannah

Elizabeth Lavach, Contracts Assistant

Gadsby & Hannah

Rand Blazer, Partner

KPMG Peat Marwick

Dayton Daily News

Volume 118
Number 271

Dayton, Ohio, Saturday, June 10, 1995

The First Cox Newspaper

•50¢

AF goes to bat for Wright-Pat

By Tom Price
WASHINGTON BUREAU

WASHINGTON — In its latest defense of plans to consolidate activities in the Miami Valley, the Air Force describes the Dayton area as a "biomedical center of excellence" with "one of the Air Force's premier operational bases."

In documents given to the Defense Base Closure and Realignment Commission, the

Air Force repeated its rejection of a Texas proposal that would keep the Human Systems Center, School of Aerospace Medicine and Armstrong Laboratory at Brooks Air Force Base near San Antonio.

The Air Force has proposed moving the facilities — involving about 2,500 jobs — to Wright-Patterson Air Force Base.

Adding to previously made financial arguments in favor of the move, the Air Force's latest

rationale says Dayton is an excellent site for consolidating aviation science and technology.

An aide to Rep. Tony Hall, D-Dayton, called the documents "critical" to making the case for consolidation at Wright-Pat.

"The financial case was addressed by the computer nuts," said Michael Gessel, Hall's chief aide for military matters. "What had not been addressed up to this point was the military value of the move, and military

value is the principal criterion upon which the commission will base its decision."

The Air Force told the commission that Wright-Pat already is "the largest research, development and acquisition complex in the free world."

Wright State University is "the only civilian degree-granting institution for aerospace medicine in the country," the Air Force said.

Military medical research also

would benefit from proximity to medical programs at Ohio State University, the University of Cincinnati, Kettering Medical Center's Cox Heart Institute, Hipple Cancer Research Center, the Wright-Pat and VA medical centers, Armstrong Laboratory activities already located at Wright-Pat and "numerous commercial laboratories specializing in research and development, medical and environmental testing and biomedical research," the

Air Force said.

The documents indicate that the Air Force plans to fold the acquisition functions of the Human Systems Center into the Aeronautical Systems Center currently located at Wright-Pat.

Wright-Pat would house a new Human Systems Institute, containing Armstrong Laboratory and the School of Aerospace Medicine. The base closure commission will make recommendations to the president by July 1.

Air Force backs job shift from Texas to WPAFB

(DDN 6/6/95)

By Tom Price
WASHINGTON BUREAU

WASHINGTON — The Air Force has confirmed its support for plans to move some 2,500 jobs from Texas to Wright-Patterson Air Force Base.

In documents filed with the independent Defense Base Closure and Realignment Commission, the Air Force rejected a Texas proposal to continue many Brooks Air Force Base operations on current base property after the base near San Antonio is closed.

Brooks' closure is part of the 1995 round of base closings proposed by the Defense Department. The Human Systems Center, the School of Aerospace Medicine and Armstrong

'The process is a crap shoot in that there are a lot of factors in play. The commissioners are dealing with a lot of information in a very short time.'

Ron Wine

Laboratory would move from Brooks to Wright-Patterson.

Many of the jobs associated with the proposed move belong to scientists, engineers, technicians and medical personnel whose presence in the Miami Valley would boost efforts to expand the area's high-tech economy.

In a financial analysis prepared at the base closure commission's request, the Air Force admitted the Texas proposal would have much lower up-front costs and would pay for itself in two years.

However, moving the operations to Wright-Pat would save more money in the long run and would meet the Defense Department's goal of closing unneeded facilities, the Air Force said.

The move to Wright-Patterson would cost an estimated \$212 million, with the payback to begin in 2007 for a 20-year saving of \$172 million. Staying at Brooks would cost \$31 million, the payback would begin in 2000 and the 20-year saving would be \$119 million.

"The Air Force continues to believe the (Texas) community's

proposal would not achieve needed savings and reductions of infrastructure," Maj. Gen. Jay Bloom Jr. wrote to the commission. "The Air Force would not favor this alternative."

Dayton area leaders expressed concern last month that the Air Force had not responded effectively to the Texas proposal. They worried that the commission would decide to reject the planned consolidation at Wright-Pat.

The latest Air Force response to the commission is "helpful to our case," Miami Valley Economic Development Coalition Vice President Ron Wine said.

"We're hopeful the Air Force is going to provide additional official responses to the questions of (the) military value" of the

proposed consolidation at Wright-Pat, Wine said.

Dayton-area leaders remain "very much concerned" about the prospects for the consolidation, he said.

"The (base-closure) process is a crap shoot in that there are a lot of factors in play," Wine said. "The commissioners are dealing with a lot of information in a very short time."

The commission is to wrap up its hearings next week, taking testimony from members of Congress Monday and Tuesday and from military officials Wednesday.

Commissioners plan to begin voting on the Defense Department recommendations the next week and to make their recommendations to the president by July 1.

13 JUNE 95 Thu

W-P SIGN IN

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**POINT PAPER
ON
BROOKS AFB, TEXAS**

ISSUE

The city of San Antonio, Texas has proposed cantonment of the mission activities at Brooks AFB in lieu of the AF/DoD recommended closure of the base.

DISCUSSION

The Air Force does not support the cantonment option because the proposed closure of the base with relocation of the preponderance of the mission activities to Wright-Patterson AFB, Ohio (WPAFB) has greater military value (based on the first four BRAC 95 selection criteria) Atch 1 shows WPAFB to be a Tier I base (best) and Brooks AFB to be a Tier III base (good)— i.e. the AF had no deficient installations in this category.

- Criteria 1: "Current and future mission requirements as well as the impact on operational readiness of the DoD's total force" will be enhanced by assigning the Human Systems SPO to Aeronautical Systems Center (ASC) at WPAFB and establishing a Human Systems Institute, comprised of the Armstrong Lab (AL) and the School of Aerospace Medicine (USAFSAM) at WPAFB.
 - The Human Systems SPO was previously assigned to ASC. Further, previous SPO/other qualified personnel remain assigned at ASC who could staff the SPO to mitigate against government personnel unwilling to transfer to WPAFB.
 - Relocation of AL to WPAFB would, for the most part, consolidate AL in one geographic location and continue its mission as an AF "super" lab. The AF has been committed to this process of consolidation for many years (Atch 2) and has taken every opportunity inside and outside of BRAC to consolidate labs and collocate labs with their "parent" product centers. ASC is by far the largest "customer" of AL technology for human systems.
 - USAFSAM relies for approximately half of its instructors on AL. Conversely, AL relies on the faculty and staff of USAFAM to conduct and support the research mission of the laboratory. This mutually beneficial and highly synergistic relationship would be preserved and continue at WPAFB since military instructors could be moved to WPAFB as part of the normal permanent change of station (PCS) process. Further, this relationship can be enhanced since Wright State University (contiguous to WPAFB) is the only civilian degree granting institution for aerospace medicine in the country. Also, the planned relocation of USAFSAM will draw heavily on shared use of facilities with the Air Force Institute of Technology (AFIT) located at WPAFB.
 - The San Antonio proposal lists San Antonio as a "one-of-a-kind biomedical community". Atch 3 shows that the Dayton region around WPAFB is also a "biomedical center of excellence".

- Criteria 2: The "availability and condition of land, facilities and associated airspace" shows that Brooks AFB has no useable runway or active duty forces based there. On the other hand, WPAFB is one of the Air Force premier operational bases and one of the very few proposed as a "receiving location" for additional operational forces in BRAC 95.
 - On base AF warfighting personnel will be invaluable to enhancing the ability of the HSI and Human Systems SPO to accomplish their mission.
 - Revitalization of existing acquisition technical and educational facilities at WPAFB to host HSI and SPO activity greatly reduces the AF's excess capacity in these areas. This collocation further enhances WPAFB as the largest Research, Development and Acquisition (RD&A) complex in the free world.

- Criteria 3: Brooks AFB has no ability to "accommodate contingency, mobilization and future total force requirements". However, WPAFB continues to be a principal part of these AF activities with considerable demonstrated potential to expand (i.e. every major class of AF aircraft has been operated from WPAFB at some time in the last 20 years—fighters, bombers, transports, tankers).

- Criteria 4: The city has provided estimated "cost and manpower implications" for the cantonment. This data as well as the data for the proposed closure has been updated (Atch 4). This data shows that closure eliminates almost twice as many people—506 vs 266 and moves four times as many, 2876 vs 689. From a cost standpoint, it is elimination of positions which produce significant savings which more than offset one time moving costs.

- Criteria 5 is the first of the non-military value criteria and deals with "the extent and timing of potential costs and savings".
 - Atch 4 shows that closure has a 43% greater net present value (\$172M vs \$120M) than cantonment. Thus, cantonment will cost the Air Force \$52M more than closure in constant dollars.
 - Although the one time cost of closure is \$211.5M vs 21.4M for cantonment, the cantonment cannot be viewed as a closure since most missions will remain (Atch 5). The one time costs of closure is much more than offset by the much higher annual savings \$32.3M for closure vs \$10.5M for cantonment. Atch 4 shows that the site process has now refined the AF estimate for return on investment to 6 years (very desirable in BRAC terms). Note it will take at least two years for the cantonment (with its lower military value) to "pay back" vs the immediate payback asserted in the San Antonio proposal (Atch 4).

- Criteria 6: The economic impact on the San Antonio area of closing Brooks AFB was 1.1% in the AF analysis. No adverse economic impacts for WPAFB as a receiver site were identified.

- Criteria 7: Both communities were deemed to have the communities with the "infrastructure to support forces, missions, and personnel." Brooks color coded green, and WPAFB color coded green in the AF analysis.
- Criteria 8: No adverse environmental impacts were found for moving from Brooks AFB (coded red) to WPAFB (coded yellow).

RECOMMENDATION :

The high military value of WPAFB coupled with the high net present value and 200% greater annual savings of closing Brooks AFB (including the quick return on investment) very favorably supports the AF/DoD proposal to close Brooks AFB versus the community proposal to canton Brooks AFB..

actions could result in cost increases to other Federal departments and agencies, DoD found that these costs in most cases analyzed would amount to a small fraction of BRAC savings -- less than 2 percent -- and therefore would not be likely to alter BRAC decisions.

BRAC 95 Selection Criteria

In selecting military installations for closure or realignment, the Department of Defense, giving priority consideration to military value (the first four criteria below), will consider:

Military Value

1. The current and future mission requirements and the impact on operational readiness of the Department of Defense's total force.
2. The availability and condition of land, facilities and associated airspace at both the existing and potential receiving locations.
3. The ability to accommodate contingency, mobilization, and future total force requirements at both the existing and potential receiving locations.
4. The cost and manpower implications.

Return on Investment

5. The extent and timing of potential costs and savings, including the number of years, beginning with the date of completion of the closure or realignment, for the savings to exceed the costs.

Impacts

6. The economic impact on communities.
7. The ability of both the existing and potential receiving communities' infrastructure to support forces, missions and personnel.
8. The environmental impact.

INDUSTRIAL/TECHNICAL SUPPORT - PRODUCT CENTERS and LABORATORIES Subcategory

ANALYSIS RESULTS at TIERING (20 Oct)

The following grades and data reflect the information on which the BCEG members based their tiering determination. Information in this chart was updated as the result of a number of factors between initial tiering and final recommendations.

Base Name	<i>Flying Operations</i>	<i>Product Center/ Lab Evaluation</i>	<i>Facilities and Infrastructure</i>	<i>Contingency and Mobility</i>	<i>Costs and Manpower Implications</i>	<i>Return on Investment</i>	<i>Economic Impact</i>	<i>Community</i>	<i>Environmental Impact</i>
Base Name	I.1	I.5	II	III	IV	V	VI	VII	VIII
Brooks AFB	Red	Yellow	Green -	Red +	246/-78	10	7,723 (1.2%)	Green -	Red +
Hanscom AFB	Red	Green -	Yellow +	Red +	421/-158	9	18,769 (1.0%)*	Green -	Yellow +
Kirtland AFB	Yellow +	Green -	Yellow +	Yellow	448/-469	6	20,364 (8.0%)	Green -	Green -
Los Angeles AFB	Red	Yellow +	Yellow	Red +	450/-142	10	22,935 (0.6%)*	Yellow	Green -
Rome Lab	Red	Yellow +	Green -	Red +	134/ 112	100+	10,931 (8.2%)*	Yellow +	Yellow +
Wright-Patterson AFB	Yellow +	Green -	Yellow +	Green -	1,567/ 834	49	52,399 (11.9%)	Green -	Yellow -

INDUSTRIAL/TECHNICAL SUPPORT - PRODUCT CENTERS and LABORATORIES Subcategory

TIERING OF BASES

As an intermediate step in the Air Force Process, the BCEG members established the following tiering of bases based on the relative merit of bases within the subcategory as measured using the eight selection criteria. Tier I represents the highest relative merit,

TIER I

Hanscom AFB
Rome Lab
Wright-Patterson AFB

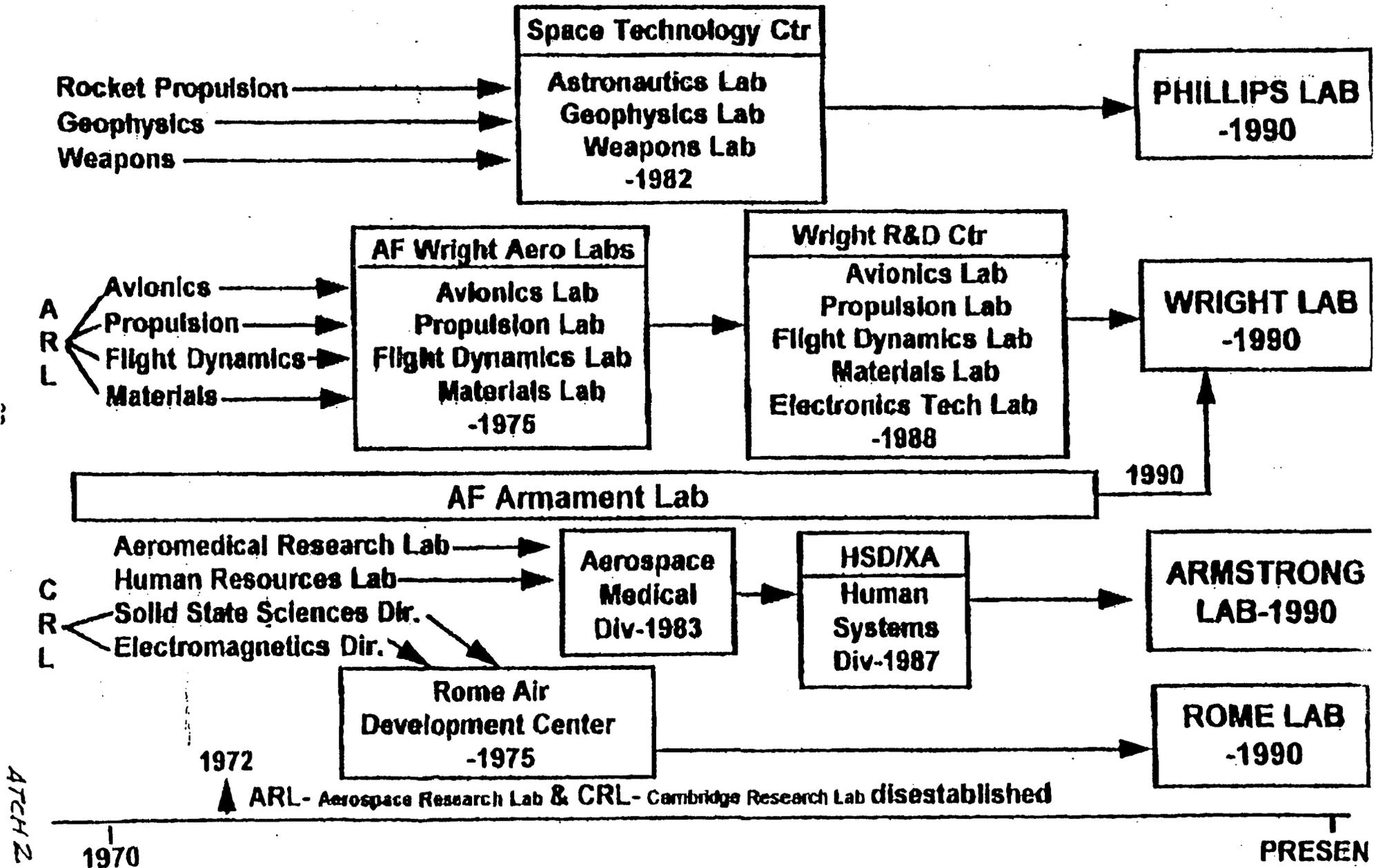
TIER II

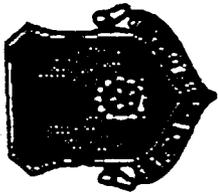
Kirtland AFB
Los Angeles AFB

TIER III

Brooks AFB

AF LAB CONSOLIDATIONS





Dayton Region -- Biomedical Center of Excellence

BRAC '95

- Academic

- Wright State University -- Only Civilian School of Aerospace Medicine
- Strong Medical Programs at Ohio State University and University of Cincinnati
- Dayton Area Graduate Studies Institute (DAGSI)

- Private Sector

- Kettering Heart Institute
- Hipple Cancer Institute
- Numerous Commercial Laboratories Specializing in R&D, Medical & Environmental Testing, and Biomedical Research

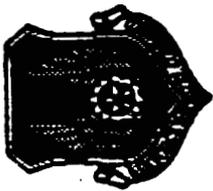


BRAC '95

Dayton Region -- Biomedical Center of Excellence (Continued)

- **Federal**

- **Tri-Service Regional Medical Center
(Covers 10 Surrounding States)**
- **Wright Technology Network**
- **Fitts Human Engineering Division, Armstrong Laboratories
(Wright-Patterson AFB)**
- **Regional Veterans Administration Medical Center**



Brooks AFB COBRA Comparisons

BRAC '95

• Scenario

• Brooks AFB

• People

- Eliminate

- Relocate

• One-Time Cost

• Recurring Savings

• 20 Year Net Present Value

• Return on Investment

DOD Proposal

Relocate

Close

~~391~~ 506

~~3,228~~ 2,876

~~\$185M~~ \$211.5M

~~27M~~ 32M

~~(\$142M)~~ (\$172M)

~~7 Yrs~~ 6 Yrs

Alternative

Cantonment

~~Close~~

~~391~~ 266

~~518~~ 689

~~\$11M~~ \$21.4M

~~---~~ 11M

~~(\$301M)~~ (\$120M)

~~11med~~ 2 Yrs

Military Value (Installation)

High

Low

ATCH 4

TONY P. HALL
THIRD DISTRICT, OHIO

COMMITTEES
HOUSE COMMITTEE ON RULES
SUBCOMMITTEE ON RULES OF
THE HOUSE

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Congress of the United States
House of Representatives
Washington, DC 20515

June 6, 1995

Please refer to this number
when responding 950606-11

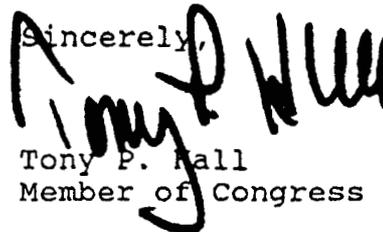
Hon. Alan J. Dixon
Chairman
The Defense Base Closure and
Realignment Commission
1700 North Moore Street, Suite 1425
Arlington, Virginia 22209

Dear Senator Dixon:

As you know, the Department of Defense selection criteria for closing and realigning military installations inside the United States, as published in the Federal Register on December 9, gives priority consideration to military value.

I am forwarding to you a series of questions aimed at building the record on the relative military values of the Department of Defense's recommendation to close Brooks Air Force Base and the San Antonio community's alternative to maintain the functions of Brooks in a cantonment area.

I would appreciate it if the Defense Base Closure and Realignment Commission could pose these questions to the Air Force so that the response may become part of the record.

Sincerely,

Tony P. Hall
Member of Congress

TPH:mdg
cc: Air Force Legislative Liaison

Enclosure

**Question for Air Force
Brooks Air Force Base**

1. Please address the military value of the closure of Brooks Air Force Base versus the cantonment option presented by the City of San Antonio. Include information related to the following topics:
 - a) Reuniting Armstrong Laboratory versus maintaining two separate locations for the laboratory.
 - b) Collocating Armstrong Laboratory with Wright Laboratory versus maintaining the laboratories in two separate locations.
 - c) Collocating the Human Systems Program Office acquisition work with Aeronautical Systems Center acquisition work versus maintaining two separate acquisition functions.
 - d) Other factors related to the relative military value of the two options.

2. Please address concerns raised by the City of San Antonio that critical expertise would be lost by moving functions at Brooks AFB to Wright-Patterson AFB.

**Why Armstrong Laboratory, Human Systems Center, School of Aerospace Medicine,
and the Systems Acquisition School
Should be Consolidated
at Wright-Patterson AFB**

INTRODUCTION

The future of human flight in high performance aircraft will require a shortened acquisition process, an increased need for cross servicing capability and a total integrated focus on the human and machine interface.

Consolidating the Armstrong Laboratory, Human Systems Center, the School of Aerospace Medicine, and the Systems Acquisition School with Wright-Patterson's premier research and development activities makes good economic sense. This BRAC action will also maximize military value and reduce excess laboratory capacity within the Department of Defense.

- Military Value - Provides the enhanced man-machine integration required for new and evolving weapon systems.
- Economics - Makes the best business case in terms of annualized savings and long term payback.
- Reduces Excess Capacity - It offers the only option under consideration that reduces excess AF laboratory capacity while providing the best long term value for the DoD.

MILITARY VALUE

Realignment and consolidation at WPAFB maximizes military value by enhancing man-machine integration.

The Human Systems Center currently at Brooks AFB is composed of three key elements:

- Human Systems Program Office (HSPO) - an acquisition management and sustainment organization with projects centered on the health, safety and efficiency of the human weapon system operator.
- Armstrong Laboratory (AL) - a research and development laboratory focused on the basic and applied core technologies associated with human aspects of weapon system performance.
- Air Force School of Aerospace Medicine (AFSAM) - a medical education institution providing a flight surgeon residency program and training programs for medical technicians.

Consolidation of these elements at Wright-Patterson AFB would provide military benefit through the synergy resulting from having both the basic research and the development/acquisition of human centered technologies/equipment and the aeronautical weapon systems at one location.

- Aeronautical Systems Center (ASC) at Wright-Patterson has the mission of acquiring all aeronautical weapon systems (i.e., F-16, F-15, F-22, B-2, C-17, F-117, etc.) and associated training and support equipment. Human centered considerations are inextricable from the design and development of such systems. Additionally, man-machine interface issues are more efficiently resolved during the early stages (i.e. research, development, acquisition) of weapon systems management life cycle. Until 1989, the HSPO was located at Wright-Patterson with the weapon system program offices it served.
- Wright Laboratory (WL), the Air Forces largest 'super lab', is located at WPAFB. Its core technologies are flight dynamics, avionics, propulsion, and materials which are the leading edge technologies upon which advanced weapon systems are based. WL works closely with the AL divisions currently located at WPAFB in the joint cockpit office. It would forge stronger bonds with the remaining AL divisions, once collocated. There is a 50 year tradition of physiological research at WPAFB which started with the Aeromedical Research Lab which is the genesis of the current AL and the roots of the divisions of AL currently at WPAFB.
- The AFSAM would be sustained and enhanced within the WPAFB community. The local universities provide a wealth of education in the field of medicine. The region has a total of over 1600 full-time faculty, 1100 part-time faculty and 1800 full-time medical students. Wright State University School of Medicine, which is contiguous to WPAFB, has the only civilian school of aerospace medicine in the United States. Additionally, the AF's second largest medical center is located at WPAFB and currently services tri-service medical needs across a 10 state region. It provides direct access to clinical resources to complement the AFSAM curriculum. Moreover, there is a full complement of private medical facilities and biomedical research institutions in proximity of WPAFB.
- Brooks AFB has no ability to "accommodate contingency, mobilization and future total force requirements." However, WPAFB continues to be a principal part of these AF activities with considerable demonstrated potential to expand (i.e. every major class of AF aircraft has been operated from WPAFB at some time in the last 20 years-fighters, bombers, transports, tankers).

The military value of locating the HSC elements currently at Brooks AFB at WPAFB are derived from the synergistic benefit of co-locating the basic and applied research, as well as the development and acquisition, of both the weapon systems and the human centered technologies, upon which they rely. The AF can no longer afford the inefficiencies of maintaining separate infrastructures for these two inextricable facets of military capability -- the weapon systems and the humans which fly them.

ECONOMICS

Cost of relocation of Brooks AFB activities would save money with payback in six years.

- This is driven by the lower cost of operations at Wright-Patterson AFB. All COBRA analysis studies run by the Air Force and the San Antonio community agree that more efficient operations of facilities would be at Wright-Patterson AFB.
- The one time cost of closure of Brooks AFB is \$211.5M vs \$42.4M for cantonment. However, the cantonment should not be viewed as a true closure since most missions and facilities will remain. The one time costs of closure is offset by the higher annual savings of \$32.3M vs \$10.5M for cantonment. The site survey process has now refined the Air Force estimate for return on investment to 6 years (very desirable in BRAC terms). Note: It will take at least two years for the cantonment (with its lower military value) to “pay back” vs the immediate payback asserted in the San Antonio proposal.
- Consolation at WPAFB will save significant dollars by reducing base support management, oversight and Headquarters support functions now duplicated between Brooks and Wright-Patterson Air Force Bases.

The cantonment alternative proposed by the San Antonio community understates the true cost of that option.

- The proposed cost of other cantonment operations across DoD have been historically understated (Kirtland AFB and Rome AFB are examples).
- The Brooks cantonment plan closes no facilities or infrastructure as represented by that option (it sells land, but does not close physical plant).
- The city of San Antonio has provided estimated “cost and manpower implications” for the cantonment. This data as well as the data for the proposed closure has been updated. This data shows that closure eliminates almost twice as many people -- 506 vs 266 and moves four times as many, 2876 vs 689. From a cost standpoint, it is the elimination of positions which produce significant savings which more than offset one time moving costs.
- The updated Air Force COBRA analysis of the Brooks closure delineates “the extent and timing of potential costs and savings.” Closure has a 43% greater net present value (\$172.1M vs \$119.7M) than cantonment. Thus, cantonment would cost the Air Force at least \$52M more than closure in constant dollars.
- The cantonment option does not result in like consolidations of laboratory functions. The cantonment option also fails to reduce DoD infrastructure which is a primary consideration of the BRAC process.

CONSOLIDATION

Realignment of Brooks AFB activities to Wright-Patterson AFB significantly contributes to accomplishment of DoD/Air Force goals for *laboratory consolidation*.

- Wright-Patterson has the highest concentration and diversity of research and development activities and is ranked as a Category one (1) Air Force Product Center (Best) by the DoD Joint Cross Service Group and the Air Force.
- Brooks AFB ranked lowest of nine (9) Air Force Product Center/Laboratories by the DoD Joint Cross Service Group and has no excess capacity to accomplish additional future taskings.

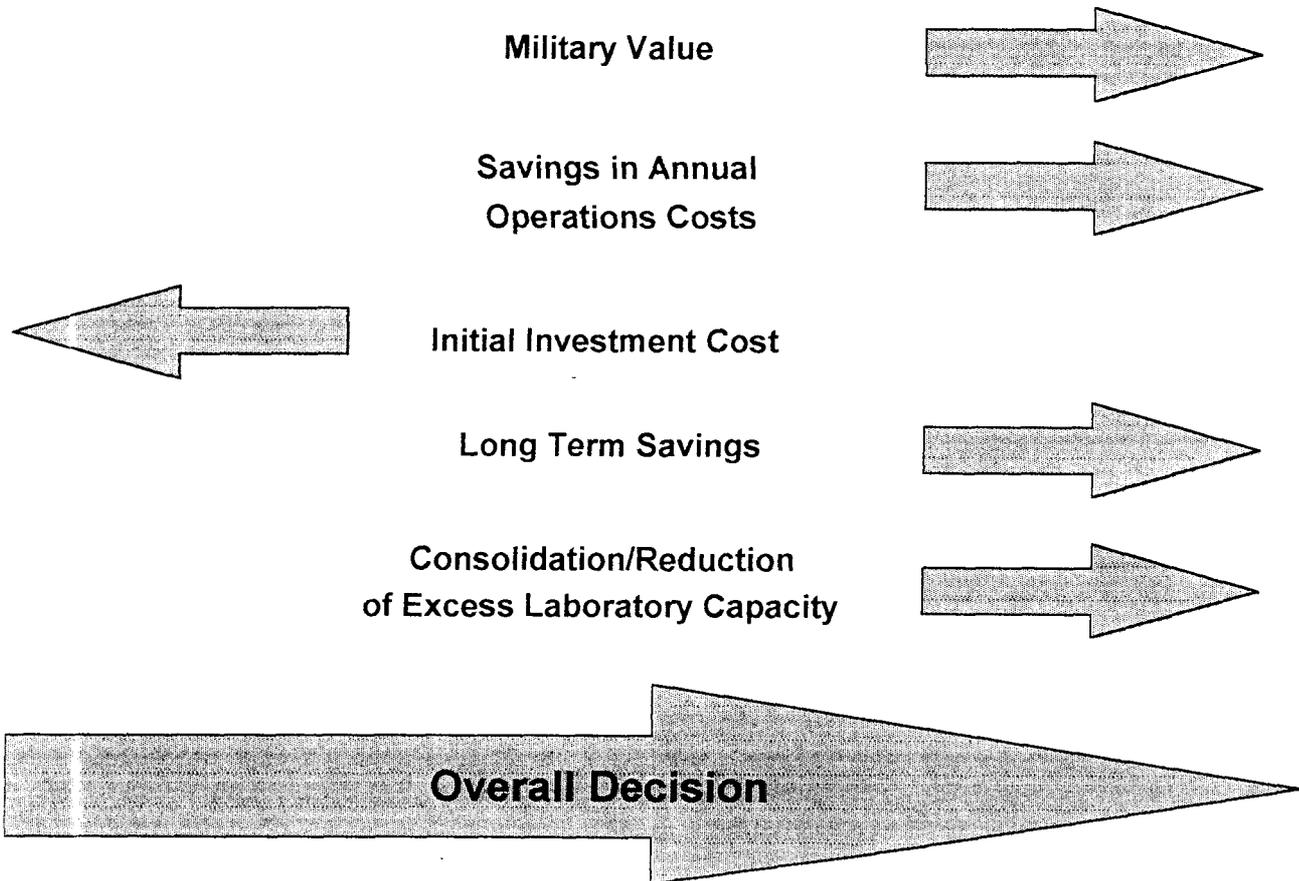
Consolidation also supports joint facility use, reduces infrastructure and overhead.

- There are highly effective and efficient support activities at Wright-Patterson AFB, i.e. a regional military housing and other necessary base operating support infrastructure.
- Collocation reduces infrastructure for base and headquarters support with 506 positions eliminated.
- Availability, affordability and quality of housing and educational opportunities, both on an off base are available at Wright-Patterson AFB and Dayton, Ohio.
- Movement of Brooks AFB activities to Wright-Patterson AFB provides synergistic effects with the collocation of similar and mutually dependent activities.
- WPAFB has available laboratory and office space capacity to support a critical mass of the transferring activities' needs.
- Complements research, development, education, and acquisition skill base readily available at Wright-Patterson AFB.
- A significant skill base for aerospace medicine and human factors engineering is also resident at Wright-Patterson AFB and the surrounding area.

SUMMARY

Cantonment

Consolidation of Laboratories
to WPAFB



Consolidation of Brooks activities to Wright-Patterson is the right answer. It meets all relevant BRAC criteria.

Relocation to Wright-Patterson is the right answer when viewed from three perspectives:

- Military Value - Provides total man-machine integration for all USAF weapon system management.
- Economics - Provides for best business case. The up front cost pays back in only six years.
- Reduction of Excess Capacity - Provides for reduction of excess capacities and promotes cross-servicing in weapon system man-machine endeavors.

RELOCATION OF BROOKS AFB ACTIVITIES TO WRIGHT-PATTERSON AFB

The BRAC '95 Commission is deliberating over the recommendation to relocate Brooks AFB activities to Wright-Patterson AFB. These activities include the Human Systems Center, Armstrong Lab and the School of Aerospace Medicine. We understand that this is a sensitive issue. The San Antonio community has proposed a Cantonment option that on paper appears to be economically attractive. However, this option saves less money long-term and does not reduce excess capacity and infrastructure. We understand the need to look closely at this issue. We believe it is most important to focus on the following key decision criteria in rendering a final recommendation.

1. **Military Value** - from a military value perspective the consolidation of the human systems and aerospace medicine functions at WPAFB capitalizes on the investment the Air Force has already made to consolidate all aspects of aerospace technology at WPAFB. A major function of Armstrong Lab is already located there. WPAFB retains the largest concentration of aerospace engineering talent in the world and maintains competencies in human factors research and aerospace medicine. Dayton is a community rich in educational and medical opportunities, with a skilled workforce and a wide range of community services. Brooks AFB transition to WPAFB is possible without disruption of the activities' current mission. Reuniting these activities adds tremendous value to the Air Force aerospace research capabilities at WPAFB and is absolutely consistent with the goals of BRAC.
2. **Long Term Costs** - Recent COBRA model assessments completed by the Air Force confirm that annual recurring savings are greatest by locating at WPAFB. Although the initial cost for build out and transition of personnel is higher with that option, it is more economical to consolidate the activities, operate them at WPAFB, close down the base at Brooks, and take the significant savings in overhead. The net present value savings by consolidating the activities at WPAFB over the Cantonment option are in excess of \$50 million dollars. The annual recurring savings of closure over cantonment is in excess of \$20 million. The closure option pays back in 6 years.
3. **Infrastructure Reductions** - A clear goal of BRAC is the reduction of overall excess capacity within DoD while trying to retain the core excellence and maintain the critical mass in competencies necessary to perform DoD missions. The Cantonment option does not accomplish this. The Cantonment option claims to close Brooks, but it actually only closes the excess land within the installation. 85% of the infrastructure (building and physical plant) is maintained with that option. The Air Force has excess capacity at WPAFB and plans to better use that capacity by consolidating its research activities there. The right decision for DoD is to reduce excess laboratory capacity and consolidate its investments.

Military value, long term cost savings and reduced infrastructure all support the consolidation of Brooks AFB activities at WPAFB. The DoD recommendation meets all BRAC criteria for closure. This is a tough decision, but one that should be made.

BRAC '95 Brooks AFB Issues Summary

Closure/Consolidation at WPAFB

"Cantonment" at Brooks

Positions Eliminated	506	266
Annual Savings	\$32.3 M	\$10.5 M
NPV	\$172 M + 43%	\$120 M
Infrastructure Reduced	100%	15%
Payback Period	6 years	3 years
Military Value	Best	Good
Interservice Capacity	Best	Low
Future Consolidation Potential	High	Low

Relocation of Brooks AFB Activities to Wright-Patterson AFB

We understand the BRAC Commission is deliberating over the recommendation to relocate Brooks AFB activities to Wright-Patterson AFB. The activities are the Human Systems Center, Armstrong Lab and the School of Aerospace Medicine. We understand that this is a sensitive issue. The San Antonio community has proposed a Cantonment option, an option that on paper appears to be economically attractive. However, this option puts the Commission in a difficult position in deciding what criteria should be used in making their recommendations. We understand the need to look closely at this issue. We believe it is most important to focus on the following key decision criteria in rendering a final recommendation.

- 1. Military Value** - from a military value perspective the consolidation of the human systems and aerospace medicine functions at WPAFB capitalizes on the investment the Air Force has already made to consolidate all aspects of aerospace technology at WPAFB. A major piece of Armstrong Labs is already located there. WPAFB retains the largest concentration of aerospace engineering talent in the world and maintains competencies in human factors research and aerospace medicine. Reuniting these activities adds tremendous value to the Air Force aerospace research capabilities at WPAFB and is absolutely consistent with the goals of BRAC.
- 2. Community Impacts** - any BRAC action is going to cause community impacts. People will be affected. The right decision for DoD is to reduce excess capacity and consolidate its investments. Dayton is community rich in educational and medical opportunities, with a skilled workforce and a wide range of community services. Brooks AFB transition to WPAFB is possible without disruption of the activities' current mission. The Dayton community welcomes the Brooks AFB personnel with open arms.
- 3. Long Term Costs** - Cobra Model assessments completed by the San Antonio community and the Air Force confirm that annual recurring savings are greatest by locating at WPAFB. Therefore, the best economic decision is to locate the Brooks activities at WPAFB. The initial cost for build out and transition of personnel is higher with that option, but on a year to year basis and over a twenty year period, it is more economical to consolidate the activities, operate them at WPAFB, close down the base at Brooks, and take the savings in overhead that are achievable by relocating at WPAFB. The net present value savings by consolidating the activities at WPAFB over the cantonment option are in excess of \$50 million dollars. In the long term, it is clearly most economically advantageous to consolidate Brooks AFB activities at WPAFB.
- 4. Infrastructure Reductions** - a clear goal of BRAC is the reduction of overall excess capacity within DoD while trying to retain the core excellence and maintain the critical mass in competencies necessary to perform DoD missions. The Cantonment option does not accomplish this. The cantonment option claims to close Brooks but it only closes the excess land within the installation. 85% of the infrastructure (building and physical plant) is maintained with that option. The Air Force has excess capacity at WPAFB and plans to better use that capacity by consolidating its research activities there.

Military value, long term cost savings and reduced infrastructure all support the consolidation of Brooks AFB activities at WPAFB. The DoD recommendation meets all BRAC criteria for closure. This is a tough decision, but one that has to be made.

4. If Brooks AFB closes, a large number of highly-skilled laboratory personnel may not relocate to Wright-Patterson AFB.

Is the Air Force concerned about the loss of laboratory personnel if Brooks AFB closes?

ANSWER: The Air Force is concerned with retention of skilled personnel from the closure of Brooks AFB or any other recommendation. We have carefully weighed the benefits and risks associated with the closure of Brooks AFB. The Air Force firmly believes this action is an operationally sound closure. We simply cannot afford to retain our current laboratory infrastructure and expect the same quality of service from our Research, Development, and Acquisition (RD&A) people while their personnel base diminishes from previous and continuing RD&A force reductions. In the larger perspective, since 1988 the Air Force has experienced constant laboratory personnel disruptions as part of the DoD drawdown. The Air Force has successfully managed this situation with minimal impact to the laboratory's mission. While this closure will cause some significant disruptions, our past experience indicates that we are confident about successfully executing it and maintaining our "world class" lab capabilities.

Setting aside COBRA factors, what is the Air Force's Brooks AFB specific estimate of the percentage of laboratory personnel which would relocate to Wright-Patterson AFB, if Brooks closes?

ANSWER: We estimate 12-20% of Armstrong Lab total personnel will not relocate, of which approximately half are those who choose not to relocate, and half are normal attrition. This is a manageable number, especially in light of our past and continuing laboratory personnel force structure reductions. We are confident this estimate is reasonable given our previous experience with skilled personnel in closing Air Force bases within BRAC and relocation of labs occurring outside BRAC. The numbers for not relocating typically comprises normal retirements, standard civilian turnover, early retirement, and those not willing to relocate. It is difficult to predict how many people will be willing to move in any closure situation. There are those who express an unwillingness to move today who will nevertheless choose to move later because of career, professional, or financial considerations.

We have scheduled six years for the closure of Brooks AFB, recognizing its complexities and other constraints. Because of this, normal attrition over that time will account for a number of the losses. We must also note that the San Antonio and Dayton areas have a well-established military heritage and similar economical and cultural environments for family living. Additionally, we have subelements of two major Armstrong Lab divisions already at Wright-Patterson AFB with associated personnel interchanges. It should be noted as well, that Armstrong Lab has a high military/civilian mixture (FY97/4) in the order of 60/40. Thus, it is less dependent on civilian workers than other labs.

We are confident that the Air Force can manage this move in a way that maintains quality personnel and work in the resultant setting. As a final observation, the DoD and government wide effort to consolidate technical facilities is a great one. Meeting this challenge will necessarily involve disruption, in personnel, programs, and funding. It is nonetheless necessary and worth the effort.



DEPARTMENT OF THE AIR FORCE
HEADQUARTERS UNITED STATES AIR FORCE
WASHINGTON, DC

950614-21

16 JUN 1995

MEMORANDUM FOR BASE CLOSURE COMMISSION (Mr Frank Cirillo)

FROM: HQ USAF/RT
1670 Air Force Pentagon
Washington, DC 20330-1670

SUBJECT: Response to 14 Jun 95 Questions for the Record

Attached is the completion of the Air Force response to your 14 Jun 95 Questions for the Record request. I trust you will find this information useful.

A handwritten signature in cursive script, reading "Jay D. Blume Jr.", is positioned above the typed name.

JAY D. BLUME JR, Major General, USAF
Special Assistant to Chief of Staff
for Realignment and Transition

Attachment:
Questions/Responses (Brooks AFB)

13 JUNE 95 Thu

W-P SIGN IN

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To: Air Force Team
INFO: Cross Service Team

Memorandum

DATE: June 13, 1995
TO: Air Force Team
FROM: Dave Henry
RE: Economic Impact

Dave put this together for us
and seems to be a great
summary & source

D
Feb 6/13

The **BRAC95 Economic Impact** of an installation is defined as the direct and indirect job loss resulting from a realignment or closure as a percent of the employment base within its economic area. The **Cumulative Economic Impact** of an installation is defined as the direct and indirect job loss as a percent of the employment base resulting from the current BRAC action, other current BRAC actions across all Services within the same economic area, and prior BRAC actions, across all Services within the same economic area, if the personnel losses occur in 1994 or after.

Economic impacts for prior BRAC actions where personnel losses occur *before 1994* are not calculated. Rather, historical economic data are provided to give a "picture" of the actual economic activity that occurred during the closure or realignment (prior to 1994). **Economic areas** for each installation were assigned by the Services and consist of either a county, multiple counties, or metropolitan statistical areas. These areas more-or-less represent personnel commuting patterns and common components of supply and demand.

Final economic impacts have been calculated and are consistent with the latest revised COBRAS. If you don't have them already, they are included in the book on my desk called "Economic Impact Data, May 30 Revisions includes New COBRAS for Air Force and Army." Please copy what you need and return the sheets to the book.

Charts were developed to show historical trends of economic activity by installation. These could be used as backup charts during the hearings if there is an issue of the impact of past BRAC actions, if the personnel losses occur prior to 1994. These are also on my desk in a folder titled "Economic Data: 1984-93 Employment, Per Capita Personal Income, and Unemployment Rates for All Installations." Take what you want.

This memo was meant to simplify economic terms used in the BRAC process. If it didn't work, please feel free to talk to me or Bob Wilson.