

DCN 1001



**Wright State
University**



June 13, 1995

School of Medicine
Department of Community Health
P.O. Box 927
Dayton, Ohio 45401-0927
513/276-8338

Aerospace Medicine

Commissioners
Defense Base Closure and
Realignment Commission

Dear Sirs:

The following is forwarded for your information.

It is our understanding that two questions have been raised by persons in San Antonio with respect to the consolidation at Wright-Patterson Air Force Base (WPAFB) of certain medical activities at Brooks Air Force Base. The two areas in question are addressed as follows:

1) Question: Would the Aerospace Medicine Residency Program accredited now for 12 months training (the "practicum" year) at Brooks Air Force Base be lost if the program is established at Wright-Patterson Air Force Base?

Answer: No. The aeromedical resources available now at Wright-Patterson Air Force Base together with those transferred, plus physicians at Wright-Patterson Air Force Base certified in aerospace medicine, with clinicians and scientists now at Wright-Patterson, along with physicians certified in aerospace medicine and other professionals at the adjacent Wright State University School of Medicine, can readily accommodate the requirements of the Accreditation Council on Graduate Medical Education (ACGME) for residency training accreditation.

2) Question: Could considerable dollar savings be made if military physicians accomplish their academic year (the M.S. degree in Aerospace Medicine) at Wright State University?

Answer: Yes. At present Brooks Air Force Base is sending its trainees for this academic year to various universities throughout the U.S. at considerable cost in travel, tuition, living expenses and related costs. If these physicians accomplish their academic year (the M.S. degree in Aerospace Medicine) at Wright State University adjacent to WPAFB, plus their required practicum year at WPAFB, their assignment will enable them to accomplish the accredited residency and academic training in aerospace medicine at one site.

NOTE: The Air Force at Brooks conducts a third year of aerospace

June 13, 1995
Commissioners
Page 2

medicine and clinical rotations, a year not approved by either the ACGME or the American Board of Preventive Medicine (ABPM). This third year can be accomplished at WPAFB. This third year can be arranged through the Wright State University Medical School resources.

I write this as a former member of the Residency Review Committee for Preventive Medicine (under which aerospace medicine is accredited) of the Accreditation Council on Graduate Medical Education in Chicago. I also write this as a former member and Trustee of the American Board of Preventive Medicine from 1976-1992, serving during this period as Vice Chair for Aerospace Medicine (1978-80) and Secretary-Treasurer of the American Board of Preventive Medicine from 1980-1992. I also have directed and operated the aerospace medicine residency program at Wright State University (accredited since 1978 for the two years, the "academic" and "practicum" years). Air Force graduates of our program include the current Chief Flight Surgeon and Aerospace Medicine Commander of the Group that includes the B-2 bombers, Whiteman AFB. Several Navy and Army physicians have also trained with us.

The above information is forwarded in the interest of accuracy with respect to those matters upon which the Commission is deliberating.

Sincerely yours,



Stanley R. Mohler, M.D.
Professor and Vice Chair
Director, Aerospace Medicine

SRM/jeg

BROOKS AIR FORCE BASE, SAN ANTONIO, TEXAS

AMONG ITS ACTIVITIES, BROOKS AIR FORCE BASE CONDUCTS
APPROXIMATELY 40% OF THE HUMAN SYSTEMS AND
AEROSPACE-RELATED MEDICAL RESEARCH AND PRODUCT
DEVELOPMENT WITHIN THE DEPARTMENT OF DEFENSE.

BROOKS' PRIMARY COMPONENTS ARE THE HUMAN SYSTEMS
CENTER, ARMSTRONG LABORATORY, THE AIR FORCE SCHOOL

**OF AEROSPACE MEDICINE AND THE AIR FORCE CENTER FOR
ENVIRONMENTAL EXCELLENCE.**

(CHART A-11 AND CHART A-12))

**THE AIR FORCE PLANS TO CONSOLIDATE SIMILAR ACTIVITIES,
AND HAS RECOMMENDED THE CLOSURE OF BROOKS AND THE
MOVEMENT OF MOST OF ITS MISSION AND PERSONNEL TO
WRIGHT-PATTERSON AIR FORCE BASE IN OHIO. WRIGHT-
PATTERSON CONDUCTS ABOUT 20% OF DOD'S AEROSPACE
MEDICAL RESEARCH.**

THE OVERRIDING ISSUES IN THIS RECOMMENDATION ARE THE CLOSURE COST, THE DISRUPTION OF THE MISSION, AND THE CONDITION OF FACILITIES.

IMPLEMENTATION OF THE RECOMMENDATION WOULD REQUIRE AN UPFRONT COST OF OVER \$200 MILLION, AND HAS THE POTENTIAL TO INTERRUPT MANY CRITICAL RESEARCH PROJECTS. MORE THAN HALF OF THE PROFESSIONAL STAFF AT BROOKS HAVE SAID THEY PROBABLY WILL NOT MOVE.

SOME OF THE ACTIVITY AT WRIGHT-PATTERSON IS SIMILAR TO THAT OF BROOKS. HOWEVER, THE EXISTING EXCESS SPACE AT WRIGHT-PATTERSON INTENDED FOR BROOKS IS NOT CURRENTLY SUITABLE TO ACCEPT THE BROOKS ACTIVITIES. THIS IS BORNE BY THE FACT THE AIR FORCE PROJECTS IT WOULD HAVE TO CONSTRUCT OR RENOVATE NEARLY 1 MILLION SQUARE FEET TO BE ABLE TO TAKE ON THE BROOKS MISSION. BROOKS CURRENTLY OPERATES IN EXCELLENT AND WELL-MAINTAINED FACILITIES.



(CHART A-12 AND CHART A-13)

WHILE THE SAN ANTONIO COMMUNITY WOULD MOST PREFER THAT BROOKS REMAIN OPEN AS IS, IT HAS OFFERED A SOUND PROPOSAL THAT WOULD PRESERVE THE BROOKS MISSION AND ITS LINKAGE TO THE SAN ANTONIO BIO-MEDICAL COMMUNITY BY PLACING INTO CANTONMENT MOST OF THE BROOKS FACILITIES. CANTONMENT SAVES THE \$200M UPFRONT COST OF THE RECOMMENDATION, OFFERS ADDITIONAL ANNUAL SAVINGS OF NEARLY \$18M AND NET PRESENT VALUE SAVINGS OF \$248M, BY HAVING THE BROOKS BASE OPERATING SERVICES

TAKEN OVER BY NEARBY LACKLAND OR KELLY. THE
CANTONMENT PLAN WOULD ALSO MAKE PART OF BROOKS
AVAILABLE FOR RE-USE.

CHART A-13 AND CHART A-14)

**PLEASE NOTE ON THE MAPS THAT THE SPACES INTENDED FOR
BROOKS AT WRIGHT-PATTERSON ARE NOT CONTIGUOUS, BUT
AT BROOKS THEY ARE.**

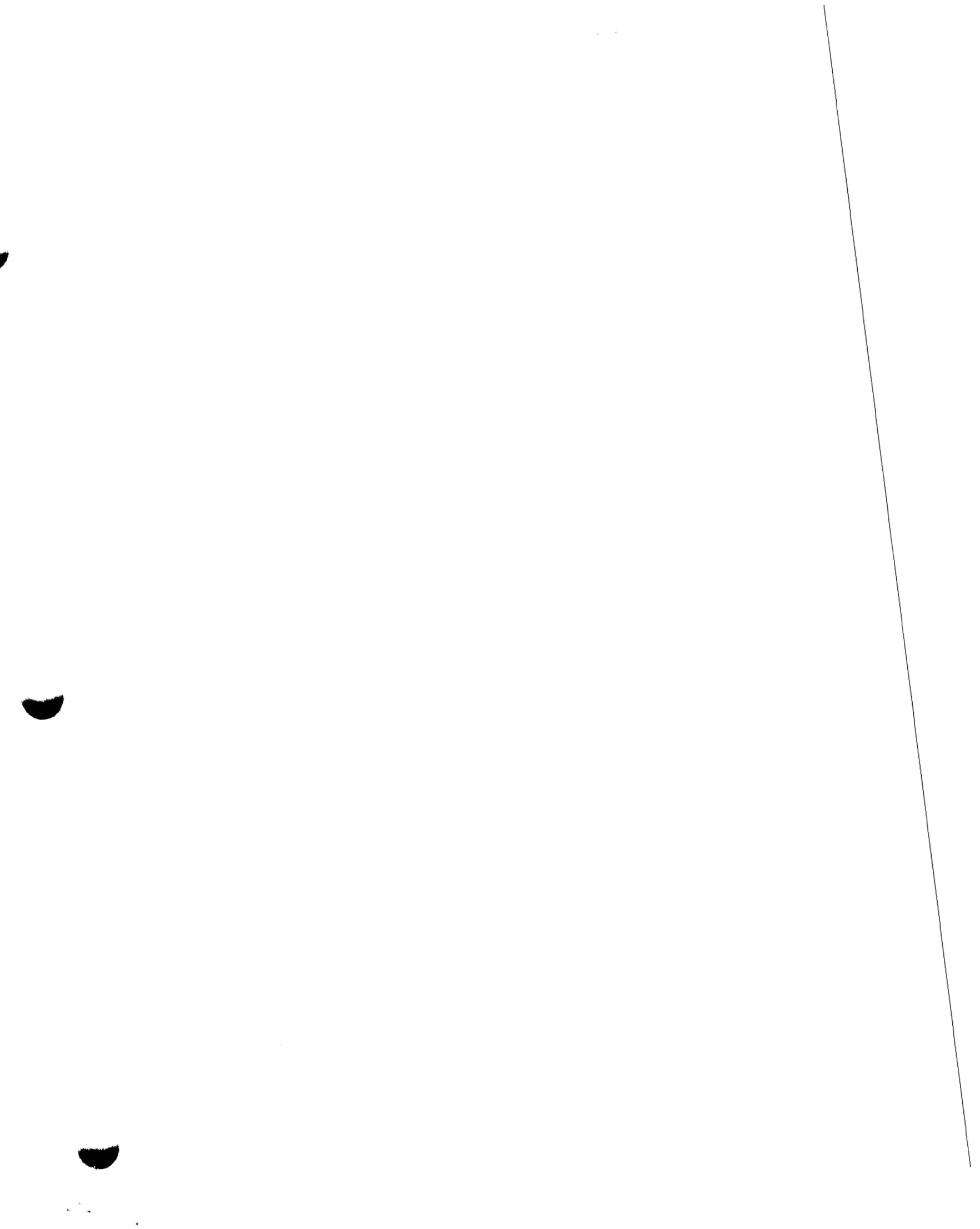
**I MIGHT ADD THE AIR FORCE HAS INFORMED THE
COMMISSION OFFICIALLY THAT IF THE COMMISSION WERE TO
DECIDE TO REJECT THE DEPARTMENT'S RECOMMENDATION
ON BROOKS, THE AIR FORCE WOULD PREFER TO RETAIN
BROOKS OPEN IS RATHER THAN TO PLACE BROOKS INTO**

CANTONMENT. THE AIR FORCE BELIEVES CANTONMENT TO BE
AWKWARD, AND UNWORKABLE IN THE LONG TERM.

THE SCENARIO CHART SUMMARIZES THE PRO'S AND CON'S OF
THE ALTERNATIVE BEFORE THE COMMISSION.

ARE THERE ANY QUESTIONS?

END ###



AIR FORCE PRODUCT CENTERS AND LABORATORIES

INSTALLATION	TIER
HANSCOM AFB	I
ROME LABORATORY	I
WRIGHT-PATTERSON AFB	I
KIRTLAND AFB	II
LOS ANGELES AFB	II
BROOKS AFB	III

Shaded categories have installations DoD has recommended for closure or realignment.

BASE ANALYSIS

BROOKS AIR FORCE BASE, SAN ANTONIO, TEXAS

DOD RECOMMENDATION:

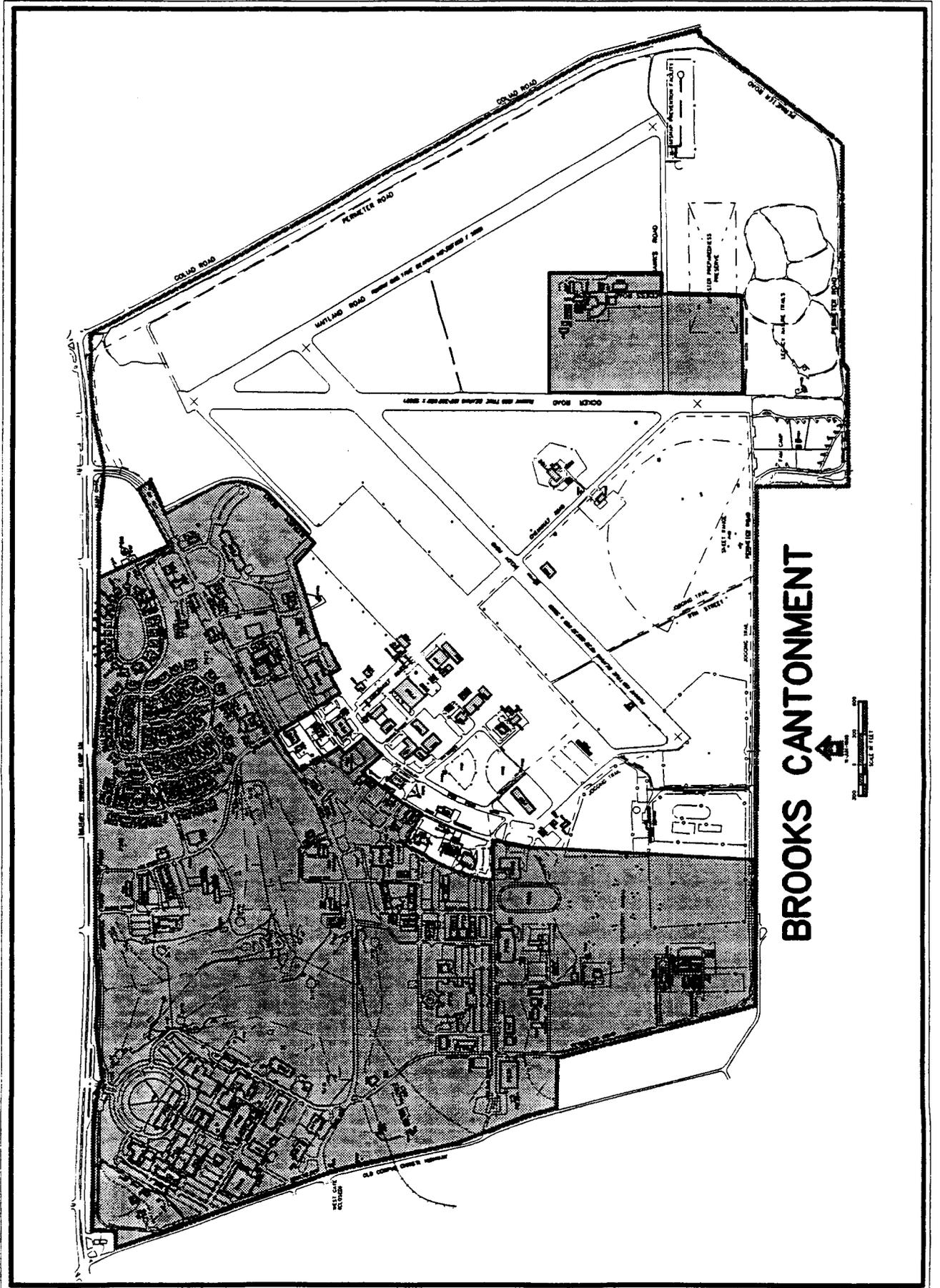
- Close Brooks Air Force Base.
- Relocate the Human Systems Center, including the School of Aerospace Medicine and Armstrong Laboratory, to Wright-Patterson Air Force Base, OH.
- Some portion of the Manpower and Personnel function, and the Air Force Drug Test laboratory, may relocate to other locations.
- The 68th Intelligence Squadron will relocate to Kelly AFB, Texas.
- The Air Force Center for Environmental Excellence will relocate to Tyndall AFB, FL.
- The 710th Intelligence Flight (AFRES) will relocate to Lackland AFB, Texas.
- The hyperbaric chamber operation, including associated personnel, will relocate to Lackland AFB, Texas.
- All activities and facilities at the base including family housing and the medical facility will close.

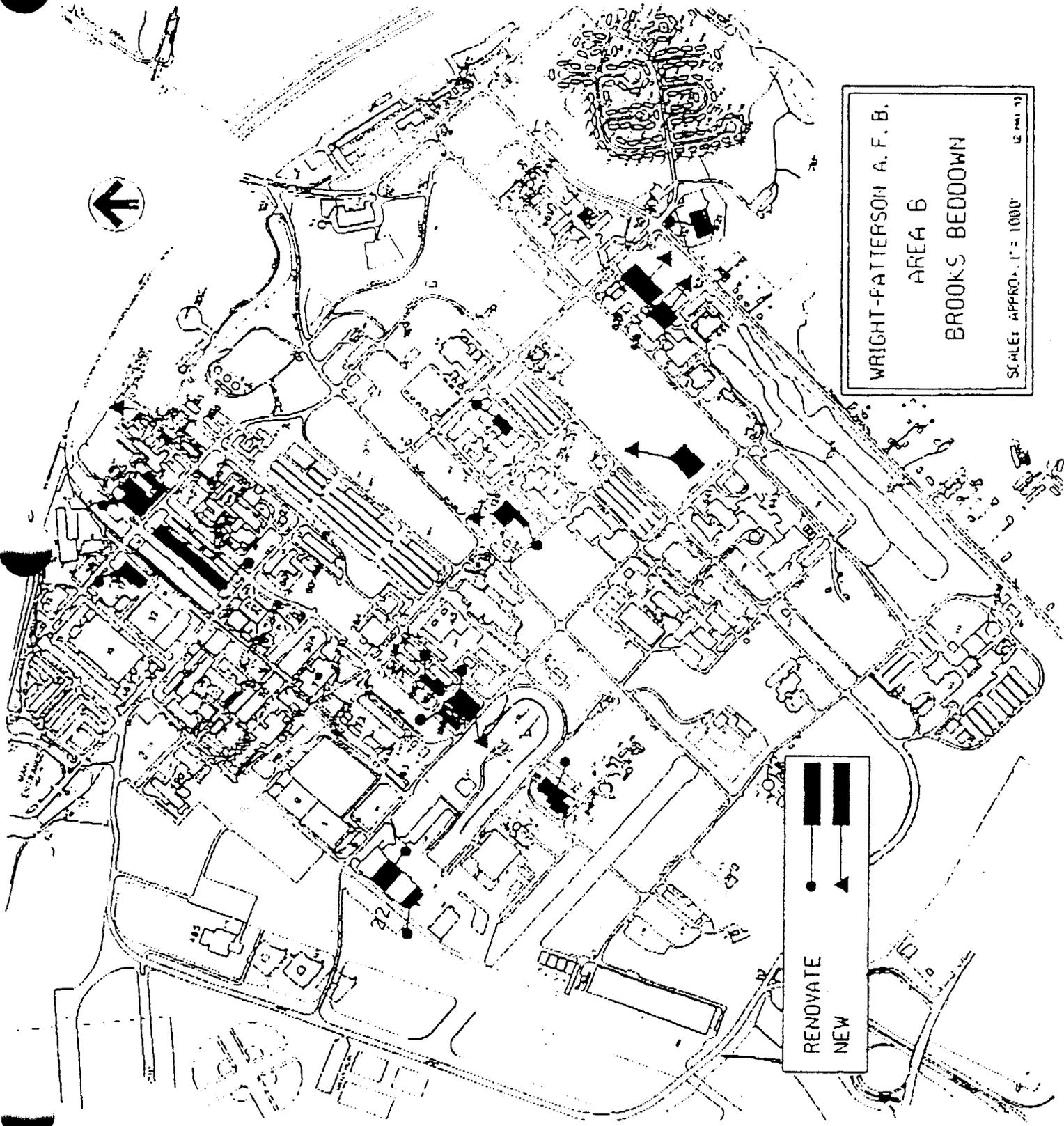
CRITERIA	DOD RECOMMENDATION
AIR FORCE TIERING	III
BASE CLOSURE EXECUTIVE GROUP (BCEG) RANK	1/1
FORCE STRUCTURE	Laboratory & Product Center
ONE-TIME COSTS (\$ M)	211.5
ANNUAL SAVINGS (\$ M)	32.2
RETURN ON INVESTMENT	2007 (6 years)
NET PRESENT VALUE	158.1
BASE OPERATING BUDGET (\$ M)	13.7
PERSONNEL ELIMINATED (MIL / CIV)	247/259
PERSONNEL REALIGNED (MIL / CIV)	1690/1186
ECONOMIC IMPACT (BRAC 95 / CUM)	-1.0/-1.0
ENVIRONMENTAL	Minimal Impact

ISSUES

BROOKS AIR FORCE BASE, SAN ANTONIO, TEXAS

ISSUE	DoD POSITION	COMMUNITY POSITION	R & A STAFF FINDINGS
COST	<ul style="list-style-type: none"> • \$211.5M upfront to close and move, including Military Construction • Annual savings 30.8M after 7 years • Net Present Value Savings: \$158.1M • Major movement of personnel 	<ul style="list-style-type: none"> • CANTONMENT: \$11M upfront • Annual savings \$17.7M with immediate return • Net Present Value Savings: \$247.8M • Most remain except Base Operating Services personnel 	<ul style="list-style-type: none"> • Concur that cantonment saves a minimum upfront of \$200M to close & move, with greater return on investment • Cantonment saves cost of Base Operating Services • Personnel movement costly • AF opposes cantonment
MISSION EFFECTIVENESS	<ul style="list-style-type: none"> • Consolidation at Wright-Patterson would enhance “man-machine” interface, as well as research, development & acquisition functions for aerospace 	<ul style="list-style-type: none"> • Movement of Brooks’ missions would significantly negatively impact research programs, thereby reducing its military value and effectiveness 	<ul style="list-style-type: none"> • “Man-machine” integration would be enhanced, but this is a very small effort • Project delays & interruptions to research would occur & 50-75 % of professionals would not move
EXCESS CAPACITY/FACILITIES	<ul style="list-style-type: none"> • Excess capacity exists at Wright-Patterson, and AF can better use that capacity by consolidating research activities there 	<ul style="list-style-type: none"> • Air Force’s claim of excess capacity is questionable due to AF’s plan to construct over 1 M sq. feet of new/renovated facilities at W-P & Tyndall 	<ul style="list-style-type: none"> • W-P has numerous empty office buildings, limited laboratory space, with new construction required • W-P facilities intended for Brooks currently substandard, costly to renovate • Brooks facilities “world-class”





SCENARIO SUMMARY

BROOKS AIR FORCE BASE, SAN ANTONIO, TEXAS

DoD RECOMMENDATION		ALTERNATIVE	
CLOSE		CANTONMENT	
<p>Close Brooks Air Force Base. Relocate the Human Systems Center, including the School of Aerospace Medicine and Armstrong Laboratory, to Wright-Patterson Air Force Base, Ohio. However, some portion of the manpower and personnel function, and the Air Force Drug Test Laboratory, may relocate to other locations. The 68th Intelligence Squadron will relocate to Kelly AFB, Texas. The Air Force Center for Environmental Excellence will relocate to Tyndall AFB, Florida. The 710th Intelligence Flight will relocate to Lackland AFB, Texas. The hyperbaric chamber operation, including associated personnel, will relocate to Lackland AFB, Texas. All activities and facilities at the base including family housing and the medical facility will close.</p>		<p>Close Brooks Air Force Base, but retain all activities and facilities except base operation support facilities. Base operations support, including support of military family housing, is to be provided by Kelly or Lackland Air Force Base.</p>	
<p>One Time Costs (\$M): 211.5 Annual Savings (\$M): 32.2 Return on Investment: 6 years (2007) Net Present Value (\$M): 172.1</p>		<p>One Time Costs (\$M): 10.9 Annual Savings (\$M): 17.6 Return on Investment: Immediate (1996) Net Present Value (\$M): 247.8</p>	
PRO	CON	PRO	CON
<ul style="list-style-type: none"> • Reduces infrastructure • Creates greater “man-machine” synergy” 	<ul style="list-style-type: none"> • Over \$200 M upfront closure costs • Major disruption to research activities at Brooks • Most personnel probably will not re-locate 	<ul style="list-style-type: none"> • Avoids major disruption to research programs & world-class facility • Avoids loss of synergy with San Antonio bio-medical & aerospace community • Saves over \$200 M upfront 	<ul style="list-style-type: none"> • Does not reduce laboratory infrastructure • AF opposes cantonment, prefers retaining Brooks as is if Commission rejects recommendation • Can be logistically awkward

BROOKS COST BREAKDOWN COMPARISONS

<i>CRITERIA</i> (\$ millions)	DoD/ AIR FORCE POSITION	CANTONMENT ALTERNATIVE COMMUNITY COBRA	CANTONMENT ALTERNATIVE AIR FORCE CERTIFIED COBRA (BOS LACKLAND)
ONE-TIME COST	211.6 PERSONNEL 5.3 OVERHEAD 5.2 MOVING 43.7 OTHER 41.2	10.9 PERSONNEL 2.0 OVERHEAD 1.2 MOVING 1.5 OTHER 0.2	21.8M PERSONNEL 1.3 OVERHEAD 1.9 MOVING 3.7 OTHER 7.7
MILCON	111.3 W-P 95.9 TYNDALL 11.1 KELLY 1.5 LACKLAND 7.3	6.0 BROOKS 4.8 LACKLAND 1.0	8.0M BROOKS 6.7 LACKLAND 1.3
ANNUAL SAVINGS	30.8 PERSON. 22.2 BOS/RPMA 8.5	17.7 PERSON. 19.1 BOS/RPMA 1.4	10.3M PERSONNEL 12.0 BOS/RPMA 1.1
RETURN ON INVESTMENT	2008 (7 years)	IMMEDIATE 1996	2000 (2 years)
NET PRESENT VALUE	158.1	247.8	115.2M
PERSONNEL ELIMINATED	499	423	250
PERSONNEL REALIGNED	2883 W-P 2089 TYNDALL 362 KELLY 93 LACKLAND 339	375 LACKLAND	507 339 LACKLAND (168 BASE X)

.FT
6/17/95
JTV

BROOKS AIR FORCE BASE COST COMPARISONS

CRITERIA	DoD/AIR FORCE POST SITE SURVEY 5/19/95	CANTONMENT AF CERTIFIED COBRA (BOS KELLY) 5/26./95	CANTONMENT COMMUNITY COBRA 4/3/95	DoD/AIR FORCE INITIAL 3/3/95
ONE-TIME COST	211.5M	21.3M	11.1M	185.5M
MILCON	115.7M	7.6M	6.0M	103.2M
ANNUAL SAVINGS	32.2M	10.5M	21.6M	27.4M
RETURN ON INVESTMENT	2007 (6 years)	2000 (2 years)	IMMEDIATE 1996	2008 (7 years)
NET PRESENT VALUE	172.1M	119.7	301M	142.1M
PERSONNEL ELIMINATED	506	266	391	391
PERSONNEL REALIGNED	2876	689	518	3228

FRANK TEJEDA
28TH DISTRICT, TEXAS

323 CANNON HOUSE OFFICE BUILDING
WASHINGTON, DC 20515-1328
202-225-1640

DISTRICT OFFICE:

1313 S F MILITARY DRIVE, SUITE 115
SAN ANTONIO TX 78214-2861
210-924 7383



Congress of the United States
House of Representatives

Washington, DC 20515-4328

AHMED SERVICES COMMITTEE
SUBCOMMITTEES:
RESEARCH AND TECHNOLOGY
MILITARY INSTALLATIONS AND
FACILITIES
OVERSIGHT AND INVESTIGATIONS

VETERANS' AFFAIRS COMMITTEE
SUBCOMMITTEES:
HOSPITALS AND HEALTH CARE
COMPENSATION, PENSION AND
INSURANCE

June 5, 1995

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

Dear Chairman Dixon:

Thank you for the opportunity to review and comment on the HQ USAF/RT analyses of the Brooks Cantonment proposal. The analyses and the accompanying Cobra runs were illuminating and disclosed a number of areas where AF/RT has departed substantially from the Cantonment concept briefed to the Commission. These are delineated below and reflected in the enclosed Cobra run, which was developed by individuals familiar with Air Force management.

After reviewing these comparisons, I believe you will agree with me: The Community's Cantonment strategy for Brooks is a win - win proposal. It closes Brooks AFB, saves twice as much as the Air Force proposal, and avoids major disruption to the Human Systems mission and the loss of an enormous number of essential scientists who say they will not leave San Antonio.

A detailed comparison follows:

● POSITIONS ELIMINATED

●●	AF (BOS by Kelly)	266
●●	AF (BOS by Lackland)	250
●●	S.A. proposal	423

The San Antonio estimate was based on the 1993 Kelly-Brooks BOS Consolidation Study that was obtained under the Freedom of Information Act. That study involved a function-by-function, space-by-space review by the senior staffs of the two bases. Using that methodology, updated for intervening program changes, we concluded that 423 spaces could be eliminated if Kelly AFB were to provide the BOS for Brooks AFB. I understand a more recent study by the bases found that a considerably larger number of spaces could be eliminated. A reduction of 423 was used in the attached Cobra run.

- **POSITIONS REALIGNED**

	<u>BOS</u>	<u>Other</u>	<u>TOTAL</u>
•• AF (BOS by Kelly)			689
••• BOS (to Kelly)	375		
••• AIA (to Lackland)		146	
••• Drug Lab (To base X)		168	
•• AF (BOS by Lackland)			507
••• BOS (to Lackland)	339		
••• AIA (to Lackland)		0	
••• Drug Lab (To base X)		168	
•• S.A. proposal			375
••• BOS	375		

The San Antonio proposal would realign 375 BOS personnel from Brooks to Kelly or Lackland. The AF Cantonment Cobra runs appear to validate these BOS requirements estimates. The only difference in numbers is the movement of the Intelligence units and the Drug Lab which need not move under the Cantonment proposal.

- **REALIGNMENT TIMING**

•• AF (BOS by Kelly)	FY 1998
•• AF (BOS by Lackland)	FY 1998
•• S.A. proposal	FY 1996, 1997

Under the San Antonio proposal, with only BOS realignment, all realignments and eliminations can be carried out quickly and efficiently—half in FY 1996 and half in FY 1997. The minor MILCON requirements can easily be accomplished in that time-frame.

- **ONE-TIME UNIQUE COSTS**

•• AF (BOS by Kelly)	\$7,000,000
•• AF (BOS by Lackland)	7,500,000
•• S.A. proposal	0

Under the San Antonio proposal, with only BOS realigning, there are no one-time unique costs that are not already included in MILCON or personnel movement costs.

- **FREIGHT MOVEMENT**

•• AF (BOS by Kelly)	2,733 Tons
•• AF (BOS by Lackland)	2,405 Tons
•• S.A. proposal	0

Under the San Antonio proposal with the Intelligence units and the Drug Lab remaining in place, there would be no requirement to move large quantities of freight. Small quantities of BOS equipment could be moved back and forth between the Brooks cantonment and the BOS Host base (11 miles) as required with no identifiable freight movement requirements or costs.

- **ACTIVE RECURRING MISSION COSTS**

••	AF (BOS by Kelly)	\$2,780,000 per year
••	AF (BOS by Lackland)	2,808,000 per year
••	S.A. proposal	2,808,000 per year

Though the analysis shows that economies can be achieved in commercially serviced telephone, shuttle bus, and information management services when these services are competitively bid, we have not included those savings in our analysis. Moreover, the contract costs for military family housing maintenance will be incurred under any scenario that retains military family housing and should be added to all previous Cobra data to keep the comparisons parallel.

- **MISC RECURRING COST**

••	AF (BOS by Kelly)	\$1,050,000 per year
••	AF (BOS by Lackland)	0 per year
••	S.A. proposal	0 per year

We have been unable to identify other recurring costs on the \$1 million per year scale as shown for the "BOS by Kelly" run. Since they appear not to apply to the "BOS by Lackland" case, we have not included them in our revised Cobra run.

- **MILITARY FAMILY HOUSING**

••	AF (BOS by Kelly)	Open
••	AF (BOS by Lackland)	Open
••	S.A. original proposal	Closed
••	S.A. revised proposal	Open
••	AF Original Proposal	Closed

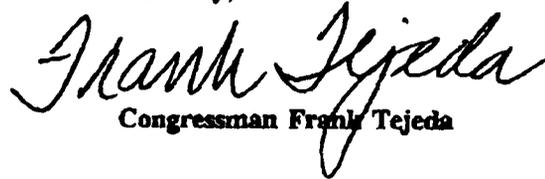
Military Family Housing was closed in the original San Antonio Cantonment proposal because it had been closed in the original Air Force proposal and no new housing had been provided at Wright Patterson. In the revised Cobra run that is enclosed, military family housing is shown as open. The original Air Force proposal should be likewise revised to ensure parallel comparisons.

● 20-YEAR NPV

●●	AF (BOS by Kelly)	\$119.7 million (MFH retained)
●●	AF (BOS by Lackland)	115.2 million (MFH retained)
●●	S.A. original proposal	301.5 million (MFH closed)
●●	S.A. revised proposal	247.8 million (MFH retained)
●●	Original AF proposal	142.0 million (MFH closed)

This further consideration of the Cantonment proposal convinces me even more that it is a win-win proposal—one that would save twice as much as the other proposals with only minor one-time closure costs. I would appreciate the Commission's thorough review of this alternative proposal, which achieves substantial savings to the Government at a time of great pressure on Defense budgets. Please feel free to contact me if you, the Commissioners or the Commission staff have any questions.

Sincerely,


Congressman Frank Tejeda

Enclosure

Department : AIR FORCE
 Option Package : BROOKS ALT #3
 Scenario File : C:\COBRA\BROOKS-3.CBR
 Std Fctrs File : C:\COBRA\BROOKS.SPF

Starting Year : 1996
 Final Year : 2001
 ROI Year : Immediate

NPV in 2015(\$K): -247,783
 1-Time Cost(\$K): 10,898

Net Costs (\$K)	Constant Dollars						Total	Beyond
	1996	1997	1998	1999	2000	2001		
MilCon	2,767	3,000	0	0	0	0	5,767	0
Person	-3,906	-13,462	-19,102	-19,102	-19,102	-19,102	-93,776	-19,102
Overhd	245	-494	-1,261	-1,289	-1,310	-1,326	-5,435	-1,374
Moving	738	738	0	0	0	0	1,476	0
Missio	0	0	2,808	2,808	2,808	2,808	11,232	2,808
Other	111	111	0	0	0	0	222	0
TOTAL	-45	-10,108	-17,555	-17,583	-17,604	-17,620	-80,515	-17,668

	1996	1997	1998	1999	2000	2001	Total	
POSITIONS ELIMINATED								
Off	19	19	0	0	0	0	38	
Enl	115	114	0	0	0	0	229	267
Civ	78	78	0	0	0	0	156	
TOT	212	211	0	0	0	0	423	

	1996	1997	1998	1999	2000	2001	Total	
POSITIONS REALIGNED								
Off	10	9	0	0	0	0	19	
Enl	64	64	0	0	0	0	128	147
Stu	0	0	0	0	0	0	0	
Civ	114	114	0	0	0	0	228	
TOT	188	187	0	0	0	0	375	

Summary:

 CLOSE BROOKS AFB; RETAIN HSC, ARMSRTONG LAB, SCHOOL OF AEROSPACE MEDICINE, AFCEE, AND YA IN CANTONEMENT AT BROOKS FIELD. THE 68TH INTEL SQDN AND THE 710TH INTEL FLIGHT (AFRES) REMAIN AT BROOKS. MFH RETAINED. BOS PROVIDED BY LACKLAND AFB OR KELLY AFB.

Department : AIR FORCE
 Option Package : BROOKS ALT #3
 Scenario File : C:\COBRA\BROOKS-3.CBR
 Std Fctrs File : C:\COBRA\BROOKS.SPF

	Costs (\$K) Constant Dollars						Total	Beyond
	1996	1997	1998	1999	2000	2001		
MilCon	3,000	3,000	0	0	0	0	6,000	0
Person	1,349	1,665	652	652	652	652	5,621	652
Overhd	729	950	659	631	610	594	4,173	546
Moving	738	738	0	0	0	0	1,476	0
Missio	0	0	2,808	2,808	2,808	2,808	11,232	2,808
Other	111	111	0	0	0	0	222	0
TOTAL	5,927	6,463	4,119	4,090	4,069	4,053	28,723	4,006

	Savings (\$K) Constant Dollars						Total	Beyond
	1996	1997	1998	1999	2000	2001		
MilCon	233	0	0	0	0	0	233	0
Person	5,255	15,127	19,754	19,754	19,754	19,754	99,397	19,754
Overhd	485	1,444	1,920	1,920	1,920	1,920	9,608	1,920
Moving	0	0	0	0	0	0	0	0
Missio	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0
TOTAL	5,972	16,571	21,673	21,673	21,673	21,673	109,238	21,673

NET PRESENT VALUES REPORT (COBRA v5.08)

Data As Of 21:59 03/09/1995, Report Created 09:45 06/03/1995

Department : AIR FORCE
 Option Package : BROOKS ALT #3
 Scenario File : C:\COBRA\BROOKS-3.CBR
 Std Pctrs File : C:\COBRA\BROOKS.SFF

Year	Cost(\$)	Adjusted Cost(\$)	NPV(\$)
----	-----	-----	-----
1996	-44,865	-44,260	-44,260
1997	-10,108,022	-9,704,953	-9,749,213
1998	-17,554,710	-16,403,597	-26,152,810
1999	-17,583,004	-15,990,302	-42,143,112
2000	-17,604,224	-15,581,119	-57,724,231
2001	-17,620,139	-15,177,815	-72,902,046
2002	-17,667,884	-14,811,623	-87,713,669
2003	-17,667,884	-14,415,205	-102,128,874
2004	-17,667,884	-14,029,397	-116,158,271
2005	-17,667,884	-13,653,914	-129,812,185
2006	-17,667,884	-13,288,481	-143,100,666
2007	-17,667,884	-12,932,828	-156,033,494
2008	-17,667,884	-12,586,694	-168,620,188
2009	-17,667,884	-12,249,824	-180,870,012
2010	-17,667,884	-11,921,970	-192,791,981
2011	-17,667,884	-11,602,890	-204,394,871
2012	-17,667,884	-11,292,350	-215,687,222
2013	-17,667,884	-10,990,122	-226,677,344
2014	-17,667,884	-10,695,983	-237,373,327
2015	-17,667,884	-10,409,715	-247,783,042

Department : AIR FORCE
 Option Package : BROOKS ALT #3
 Scenario File : C:\COBRA\BROOKS-3.CBR
 Std Fctrs File : C:\COBRA\BROOKS.SFF

(All values in Dollars)

Category	Cost	Sub-Total
-----	----	-----
Construction		
Military Construction	6,000,000	
Family Housing Construction	0	
Information Management Account	0	
Land Purchases	0	
Total - Construction		6,000,000
Personnel		
Civilian RIF	254,665	
Civilian Early Retirement	67,164	
Civilian New Hires	0	
Eliminated Military PCS	1,666,665	
Unemployment	43,848	
Total - Personnel		2,032,343
Overhead		
Program Planning Support	661,560	
Mothball / Shutdown	506,250	
Total - Overhead		1,167,810
Moving		
Civilian Moving	0	
Civilian PPS	1,382,400	
Military Moving	0	
Freight	93,290	
One-Time Moving Costs	0	
Total - Moving		1,475,690
Other		
HAP / RSE	221,911	
Environmental Mitigation Costs	0	
One-Time Unique Costs	0	
Total - Other		221,911
Total One-Time Costs		10,897,754

One-Time Savings		
Military Construction Cost Avoidances	233,000	
Family Housing Cost Avoidances	0	
Military Moving	0	
Land Sales	0	
One-Time Moving Savings	0	
Environmental Mitigation Savings	0	
One-Time Unique Savings	0	
Total One-Time Savings		233,000

Total Net One-Time Costs		10,664,754

Department : AIR FORCE
 Option Package : BROOKS ALT #3
 Scenario File : C:\COBRA\BROOKS-3.CBR
 Std Fctrs File : C:\COBRA\BROOKS.SFF

Base: BROOKS AFB, TX
 (All values in Dollars)

Category	Cost	Sub-Total
-----	----	-----
Construction		
Military Construction	5,000,000	
Family Housing Construction	0	
Information Management Account	0	
Land Purchases	0	
Total - Construction		5,000,000
Personnel		
Civilian RIF	254,665	
Civilian Early Retirement	67,164	
Civilian New Hires	0	
Eliminated Military PCS	1,666,665	
Unemployment	43,848	
Total - Personnel		2,032,343
Overhead		
Program Planning Support	661,560	
Mothball / Shutdown	506,250	
Total - Overhead		1,167,810
Moving		
Civilian Moving	0	
Civilian PPS	1,382,400	
Military Moving	0	
Freight	93,290	
One-Time Moving Costs	0	
Total - Moving		1,475,690
Other		
HAP / RSE	221,911	
Environmental Mitigation Costs	0	
One-Time Unique Costs	0	
Total - Other		221,911
Total One-Time Costs		9,897,754
One-Time Savings		
Military Construction Cost Avoidances	233,000	
Family Housing Cost Avoidances	0	
Military Moving	0	
Land Sales	0	
One-Time Moving Savings	0	
Environmental Mitigation Savings	0	
One-Time Unique Savings	0	
Total One-Time Savings		233,000
Total Net One-Time Costs		9,664,754

Department : AIR FORCE
 Option Package : BROOKS ALT #3
 Scenario File : C:\COBRA\BROOKS-3.CBR
 Std Fctrs File : C:\COBRA\BROOKS.SFF

Base: LACKLAND AFB, TX
 (All values in Dollars)

Category	Cost	Sub-Total
-----	----	-----
Construction		
Military Construction	1,000,000	
Family Housing Construction	0	
Information Management Account	0	
Land Purchases	0	
Total - Construction		1,000,000
Personnel		
Civilian RIF	0	
Civilian Early Retirement	0	
Civilian New Hires	0	
Eliminated Military PCS	0	
Unemployment	0	
Total - Personnel		0
Overhead		
Program Planning Support	0	
Mothball / Shutdown	0	
Total - Overhead		0
Moving		
Civilian Moving	0	
Civilian PPS	0	
Military Moving	0	
Freight	0	
One-Time Moving Costs	0	
Total - Moving		0
Other		
HAP / RSE	0	
Environmental Mitigation Costs	0	
One-Time Unique Costs	0	
Total - Other		0
Total One-Time Costs		1,000,000

One-Time Savings		
Military Construction Cost Avoidances	0	
Family Housing Cost Avoidances	0	
Military Moving	0	
Land Sales	0	
One-Time Moving Savings	0	
Environmental Mitigation Savings	0	
One-Time Unique Savings	0	
Total One-Time Savings		0
Total Net One-Time Costs		1,000,000

Department : AIR FORCE
Option Package : BROOKS ALT #3
Scenario File : C:\COBRA\BROOKS-3.CBR
Std Fctrs File : C:\COBRA\BROOKS.SPF

All Costs in \$K

Base Name	Total MilCon	IMA Cost	Land Purch	Cost Avoid	Total Cost
BROOKS AFB	5,000	0	0	-233	4,767
LACKLAND AFB	1,000	0	0	0	1,000
Totals:	6,000	0	0	-233	5,767

Department : AIR FORCE
 Option Package : BROOKS ALT #3
 Scenario File : C:\COBRA\BROOKS-3.CBR
 Std Fctrs File : C:\COBRA\BROOKS.SFF

MilCon for Base: BROOKS AFB, TX

All Costs in \$K

Description:	MilCon Categ	Using Rehab	Rehab Cost*	New MilCon	New Cost*	Total Cost*
BROOKS AFB	OTHER	0	n/a	0	n/a	5,000
Total Construction Cost:						5,000
+ Info Management Account:						0
+ Land Purchases:						0
- Construction Cost Avoid:						233
TOTAL:						4,767

* All MilCon Costs include Design, Site Preparation, Contingency Planning, and SIOH Costs where applicable.

Department : AIR FORCE
 Option Package : BROOKS ALT #3
 Scenario File : C:\COBRA\BROOKS-3.CBR
 Std Fctrs File : C:\COBRA\BROOKS.SPF

MilCon for Base: LACKLAND AFB, TX

All Costs in \$K

Description:	MilCon Categ	Using Rehab	Rehab Cost*	New MilCon	New Cost*	Total Cost*
MINOR ADAPTATIONS	OTHER	0	n/a	0	n/a	1,000
Total Construction Cost:						1,000
+ Info Management Account:						0
+ Land Purchases:						0
- Construction Cost Avoid:						0
TOTAL:						1,000

* All MilCon Costs include Design, Site Preparation, Contingency Planning, and SIOH Costs where applicable.

PERSONNEL SUMMARY REPORT (COBRA v5.08)

Data As Of 21:59 03/09/1995, Report Created 09:45 06/03/1995

Department : AIR FORCE
 Option Package : BROOKS ALT #3
 Scenario File : C:\COBRA\BROOKS-3.CBR
 Std Fctrs File : C:\COBRA\BROOKS.SPF

PERSONNEL SUMMARY FOR: BROOKS AFB, TX

BASE POPULATION (FY 1996):

Officers	Enlisted	Students	Civilians
640	999	0	1,766

FORCE STRUCTURE CHANGES:

	1996	1997	1998	1999	2000	2001	Total
Officers	0	186	0	0	0	0	186
Enlisted	0	111	0	0	0	0	111
Students	0	0	0	0	0	0	0
Civilians	0	-101	0	0	0	0	-101
TOTAL	0	196	0	0	0	0	196

BASE POPULATION (Prior to BRAC Action):

Officers	Enlisted	Students	Civilians
826	1,110	0	1,665

PERSONNEL REALIGNMENTS:

To Base: LACKLAND AFB, TX

	1996	1997	1998	1999	2000	2001	Total
Officers	10	9	0	0	0	0	19
Enlisted	64	64	0	0	0	0	128
Students	0	0	0	0	0	0	0
Civilians	114	114	0	0	0	0	228
TOTAL	188	187	0	0	0	0	375

TOTAL PERSONNEL REALIGNMENTS (Out of BROOKS AFB, TX):

	1996	1997	1998	1999	2000	2001	Total
Officers	10	9	0	0	0	0	19
Enlisted	64	64	0	0	0	0	128
Students	0	0	0	0	0	0	0
Civilians	114	114	0	0	0	0	228
TOTAL	188	187	0	0	0	0	375

SCENARIO POSITION CHANGES:

	1996	1997	1998	1999	2000	2001	Total
Officers	-19	-19	0	0	0	0	-38
Enlisted	-115	-114	0	0	0	0	-229
Civilians	-78	-78	0	0	0	0	-156
TOTAL	-212	-211	0	0	0	0	-423

BASE POPULATION (After BRAC Action):

Officers	Enlisted	Students	Civilians
769	753	0	1,281

PERSONNEL SUMMARY FOR: LACKLAND AFB, TX

BASE POPULATION (FY 1996, Prior to BRAC Action):

Officers	Enlisted	Students	Civilians
1,787	4,738	0	2,578

Department : AIR FORCE
 Option Package : BROOKS ALT #3
 Scenario File : C:\COBRA\BROOKS-3.CBR
 Std Pctrs File : C:\COBRA\BROOKS.SPF

PERSONNEL REALIGNMENTS:

From Base: BROOKS AFB, TX

	1996	1997	1998	1999	2000	2001	Total
Officers	10	9	0	0	0	0	19
Enlisted	64	64	0	0	0	0	128
Students	0	0	0	0	0	0	0
Civilians	114	114	0	0	0	0	228
TOTAL	188	187	0	0	0	0	375

TOTAL PERSONNEL REALIGNMENTS (Into LACKLAND AFB, TX):

	1996	1997	1998	1999	2000	2001	Total
Officers	10	9	0	0	0	0	19
Enlisted	64	64	0	0	0	0	128
Students	0	0	0	0	0	0	0
Civilians	114	114	0	0	0	0	228
TOTAL	188	187	0	0	0	0	375

BASE POPULATION (After BRAC Action):

Officers	Enlisted	Students	Civilians
1,806	4,866	0	2,806

Department : AIR FORCE
 Option Package : BROOKS ALT #3
 Scenario File : C:\COBRA\BROOKS-3.CBR
 Std Fctrs File : C:\COBRA\BROOKS.SFF

	Rate	1996	1997	1998	1999	2000	2001	Total
CIVILIAN POSITIONS REALIGNING OUT		114	114	0	0	0	0	228
Early Retirement*	10.00%	0	0	0	0	0	0	0
Regular Retirement*	5.00%	0	0	0	0	0	0	0
Civilian Turnover*	15.00%	0	0	0	0	0	0	0
Civs Not Moving (RIFs)**		0	0	0	0	0	0	0
Civilians Moving (the remainder)		114	114	0	0	0	0	228
Civilian Positions Available		0	0	0	0	0	0	0
CIVILIAN POSITIONS ELIMINATED		78	78	0	0	0	0	156
Early Retirement	10.00%	8	8	0	0	0	0	16
Regular Retirement	5.00%	4	4	0	0	0	0	8
Civilian Turnover	15.00%	12	12	0	0	0	0	24
Civs Not Moving (RIFs)**		5	5	0	0	0	0	10
Priority Placement#	60.00%	47	47	0	0	0	0	94
Civilians Available to Move		2	2	0	0	0	0	4
Civilians Moving		0	0	0	0	0	0	0
Civilian RIFs (the remainder)		2	2	0	0	0	0	4
CIVILIAN POSITIONS REALIGNING IN		114	114	0	0	0	0	228
Civilians Moving		114	114	0	0	0	0	228
New Civilians Hired		0	0	0	0	0	0	0
Other Civilian Additions		0	0	0	0	0	0	0
TOTAL CIVILIAN EARLY RETIRMENTS		8	8	0	0	0	0	16
TOTAL CIVILIAN RIFs		7	7	0	0	0	0	14
TOTAL CIVILIAN PRIORITY PLACEMENTS#		47	47	0	0	0	0	94
TOTAL CIVILIAN NEW HIRES		0	0	0	0	0	0	0

* Early Retirements, Regular Retirements, Civilian Turnover, and Civilians Not Willing to Move are not applicable for moves under fifty miles.

+ The Percentage of Civilians Not Willing to Move (Voluntary RIFs) varies from base to base.

Not all Priority Placements involve a Permanent Change of Station. The rate of PPS placements involving a PCS is 50.00%

Department : AIR FORCE
 Option Package : BROOKS ALT #3
 Scenario File : C:\COBRA\BROOKS-3.CBR
 Std Fctrs File : C:\COBRA\BROOKS.SFF

Base: BROOKS AFB, TX	Rate	1996	1997	1998	1999	2000	2001	Total
CIVILIAN POSITIONS REALIGNING OUT		114	114	0	0	0	0	228
Early Retirement*	10.00%	0	0	0	0	0	0	0
Regular Retirement*	5.00%	0	0	0	0	0	0	0
Civilian Turnover*	15.00%	0	0	0	0	0	0	0
Civs Not Moving (RIFs)*	6.00%	0	0	0	0	0	0	0
Civilians Moving (the remainder)		114	114	0	0	0	0	228
Civilian Positions Available		0	0	0	0	0	0	0
CIVILIAN POSITIONS ELIMINATED		78	78	0	0	0	0	156
Early Retirement	10.00%	8	8	0	0	0	0	16
Regular Retirement	5.00%	4	4	0	0	0	0	8
Civilian Turnover	15.00%	12	12	0	0	0	0	24
Civs Not Moving (RIFs)*	6.00%	5	5	0	0	0	0	10
Priority Placement#	60.00%	47	47	0	0	0	0	94
Civilians Available to Move		2	2	0	0	0	0	4
Civilians Moving		0	0	0	0	0	0	0
Civilian RIFs (the remainder)		2	2	0	0	0	0	4
CIVILIAN POSITIONS REALIGNING IN		0	0	0	0	0	0	0
Civilians Moving		0	0	0	0	0	0	0
New Civilians Hired		0	0	0	0	0	0	0
Other Civilian Additions		0	0	0	0	0	0	0
TOTAL CIVILIAN EARLY RETIREMENTS		8	8	0	0	0	0	16
TOTAL CIVILIAN RIFs		7	7	0	0	0	0	14
TOTAL CIVILIAN PRIORITY PLACEMENTS#		47	47	0	0	0	0	94
TOTAL CIVILIAN NEW HIRES		0	0	0	0	0	0	0

* Early Retirements, Regular Retirements, Civilian Turnover, and Civilians Not Willing to Move are not applicable for moves under fifty miles.

Not all Priority Placements involve a Permanent Change of Station. The rate of PPS placements involving a PCS is 50.00%

Department : AIR FORCE
 Option Package : BROOKS ALT #3
 Scenario File : C:\COBRA\BROOKS-3.CBR
 Std Fctrs File : C:\COBRA\BROOKS.SFF

Base: LACKLAND AFB, TX	Rate	1996	1997	1998	1999	2000	2001	Total
CIVILIAN POSITIONS REALIGNING OUT		0	0	0	0	0	0	0
Early Retirement*	10.00%	0	0	0	0	0	0	0
Regular Retirement*	5.00%	0	0	0	0	0	0	0
Civilian Turnover*	15.00%	0	0	0	0	0	0	0
Civs Not Moving (RIFs)*	6.00%	0	0	0	0	0	0	0
Civilians Moving (the remainder)		0	0	0	0	0	0	0
Civilian Positions Available		0	0	0	0	0	0	0
CIVILIAN POSITIONS ELIMINATED		0	0	0	0	0	0	0
Early Retirement	10.00%	0	0	0	0	0	0	0
Regular Retirement	5.00%	0	0	0	0	0	0	0
Civilian Turnover	15.00%	0	0	0	0	0	0	0
Civs Not Moving (RIFs)*	6.00%	0	0	0	0	0	0	0
Priority Placement#	60.00%	0	0	0	0	0	0	0
Civilians Available to Move		0	0	0	0	0	0	0
Civilians Moving		0	0	0	0	0	0	0
Civilian RIFs (the remainder)		0	0	0	0	0	0	0
CIVILIAN POSITIONS REALIGNING IN		114	114	0	0	0	0	228
Civilians Moving		114	114	0	0	0	0	228
New Civilians Hired		0	0	0	0	0	0	0
Other Civilian Additions		0	0	0	0	0	0	0
TOTAL CIVILIAN EARLY RETIRMENTS		0	0	0	0	0	0	0
TOTAL CIVILIAN RIFs		0	0	0	0	0	0	0
TOTAL CIVILIAN PRIORITY PLACEMENTS#		0	0	0	0	0	0	0
TOTAL CIVILIAN NEW HIRES		0	0	0	0	0	0	0

* Early Retirements, Regular Retirements, Civilian Turnover, and Civilians Not Willing to Move are not applicable for moves under fifty miles.

Not all Priority Placements involve a Permanent Change of Station. The rate of PPS placements involving a PCS is 50.00%

PERSONNEL, SF, RPMA, AND BOS DELTAS (COBRA v5.08)
 Data As Of 21:59 03/09/1995, Report Created 09:45 06/03/1995

Department : AIR FORCE
 Option Package : BROOKS ALT #3
 Scenario File : C:\COBRA\BROOKS-3.CBR
 Std Pctrs File : C:\COBRA\BROOKS.SPF

Base	Personnel		SF		
	Change	%Change	Change	%Change	Chg/Per
BROOKS AFB	-798	-22%	-405,000	-21%	507
LACKLAND AFB	375	4%	0	0%	0

Base	RPMA (\$)			BOS (\$)		
	Change	%Change	Chg/Per	Change	%Change	Chg/Per
BROOKS AFB	-745,285	-20%	934	-1,174,480	-13%	1,472
LACKLAND AFB	0	0%	0	545,988	2%	1,456

Base	RPMABOS (\$)		
	Change	%Change	Chg/Per
BROOKS AFB	-1,919,765	-14%	2,406
LACKLAND AFB	545,988	2%	1,456

RPMA/BOS CHANGE REPORT (COBRA v5.08)

Data As Of 21:59 03/09/1995, Report Created 09:45 06/03/1995

Department : AIR FORCE
 Option Package : BROOKS ALT #3
 Scenario File : C:\COBRA\BROOKS-3.CBR
 Std Fctrs File : C:\COBRA\BROOKS.SFF

Net Change(\$K)	1996	1997	1998	1999	2000	2001	Total	Beyond
RPMA Change	-185	-558	-745	-745	-745	-745	-3,724	-745
BOS Change	-24	-341	-628	-628	-628	-628	-2,879	-628
Housing Change	0	0	0	0	0	0	0	0
TOTAL CHANGES	-210	-898	-1,374	-1,374	-1,374	-1,374	-6,603	-1,374

INPUT DATA REPORT (COBRA v5.08)
 Data As Of 21:59 03/09/1995, Report Created 09:45 06/03/1995

Department : AIR FORCE
 Option Package : BROOKS ALT #3
 Scenario File : C:\COBRA\BROOKS-3.CBR
 Std Fctrs File : C:\COBRA\BROOKS.SFF

INPUT SCREEN ONE - GENERAL SCENARIO INFORMATION

Model Year One : FY 1996

Model does Time-Phasing of Construction/Shutdown: No

Base Name	Strategy:
-----	-----
BROOKS AFB, TX	Deactivates in FY 2001
LACKLAND AFB, TX	Realignment

Summary:

 CLOSE BROOKS AFB; RETAIN HSC, ARMSRTONG LAB, SCHOOL OF AEROSPACE MEDICINE, AFCEE, AND YA IN CANTONEMENT AT BROOKS FIELD. THE 68TH INTEL SQDN AND THE 710TH INTEL FLIGHT (AFRES) REMAIN AT BROOKS. MPH RETAINED. BOS PROVIDED BY LACKLAND AFB OR KELLY AFB.

INPUT SCREEN TWO - DISTANCE TABLE

From Base:	To Base:	Distance:
-----	-----	-----
BROOKS AFB, TX	LACKLAND AFB, TX	11 mi

INPUT SCREEN THREE - MOVEMENT TABLE

Transfers from BROOKS AFB, TX to LACKLAND AFB, TX

	1996	1997	1998	1999	2000	2001
	----	----	----	----	----	----
Officer Positions:	10	9	0	0	0	0
Enlisted Positions:	64	64	0	0	0	0
Civilian Positions:	114	114	0	0	0	0
Student Positions:	0	0	0	0	0	0
Missn Eqpt (tons):	0	0	0	0	0	0
Suppt Eqpt (tons):	0	0	0	0	0	0
Military Light Vehicles:	0	0	0	0	0	0
Heavy/Special Vehicles:	0	0	0	0	0	0

INPUT SCREEN FOUR - STATIC BASE INFORMATION

Name: BROOKS AFB, TX

Total Officer Employees:	640	RPMA Non-Payroll (\$K/Year):	3,765
Total Enlisted Employees:	999	Communications (\$K/Year):	192
Total Student Employees:	0	BOS Non-Payroll (\$K/Year):	8,585
Total Civilian Employees:	1,766	BOS Payroll (\$K/Year):	0
Mil Families Living On Base:	19.0%	Family Housing (\$K/Year):	1,205
Civilians Not Willing To Move:	6.0%	Area Cost Factor:	<u>0.87</u>
Officer Housing Units Avail:	0	CHAMPUS In-Pat (\$/Visit):	0
Enlisted Housing Units Avail:	0	CHAMPUS Out-Pat (\$/Visit):	0
Total Base Facilities(KSF):	1,918	CHAMPUS Shift to Medicare:	20.9%
Officer VHA (\$/Month):	106	Activity Code:	AF009
Enlisted VHA (\$/Month):	80		
Per Diem Rate (\$/Day):	97	Homeowner Assistance Program:	Yes
Freight Cost (\$/Ton/Mile):	0.07	Unique Activity Information:	No

13,747

Department : AIR FORCE
 Option Package : BROOKS ALT #3
 Scenario File : C:\COBRA\BROOKS-3.CBR
 Std Pctrs File : C:\COBRA\BROOKS.SFF

INPUT SCREEN FOUR - STATIC BASE INFORMATION

Name: LACKLAND AFB, TX

Total Officer Employees:	1,787	RPMA Non-Payroll (\$K/Year):	6,730
Total Enlisted Employees:	4,738	Communications (\$K/Year):	663
Total Student Employees:	0	BOS Non-Payroll (\$K/Year):	24,111
Total Civilian Employees:	2,578	BOS Payroll (\$K/Year):	0
Mil Families Living On Base:	21.0%	Family Housing (\$K/Year):	3,991
Civilians Not Willing To Move:	6.0%	Area Cost Factor:	0.87
Officer Housing Units Avail:	0	CHAMPUS In-Pat (\$/Visit):	0
Enlisted Housing Units Avail:	0	CHAMPUS Out-Pat (\$/Visit):	0
Total Base Facilities (KSF):	10,008	CHAMPUS Shift to Medicare:	20.9%
Officer VHA (\$/Month):	106	Activity Code:	AF046
Enlisted VHA (\$/Month):	80		
Per Diem Rate (\$/Day):	97	Homeowner Assistance Program:	Yes
Freight Cost (\$/Ton/Mile):	0.07	Unique Activity Information:	No

INPUT SCREEN FIVE - DYNAMIC BASE INFORMATION

Name: BROOKS AFB, TX

	1996	1997	1998	1999	2000	2001
	----	----	----	----	----	----
1-Time Unique Cost (\$K):	0	0	0	0	0	0
1-Time Unique Save (\$K):	0	0	0	0	0	0
1-Time Moving Cost (\$K):	0	0	0	0	0	0
1-Time Moving Save (\$K):	0	0	0	0	0	0
Env Non-MilCon Reqcd(\$K):	0	0	0	0	0	0
Activ Mission Cost (\$K):	0	0	2,808	2,808	2,808	2,808
Activ Mission Save (\$K):	0	0	0	0	0	0
Misc Recurring Cost (\$K):	0	0	0	0	0	0
Misc Recurring Save (\$K):	0	0	0	0	0	0
Land (+Buy/-Sales) (\$K):	0	0	0	0	0	0
Construction Schedule(%):	50%	50%	0%	0%	0%	0%
Shutdown Schedule (%):	50%	50%	0%	0%	0%	0%
MilCon Cost Avoidnc(\$K):	233	0	0	0	0	0
Fam Housing Avoidnc(\$K):	0	0	0	0	0	0
Procurement Avoidnc(\$K):	0	0	0	0	0	0
CHAMPUS In-Patients/Yr:	0	0	0	0	0	0
CHAMPUS Out-Patients/Yr:	0	0	0	0	0	0
Facil ShutDown(KSF):	405					
						Perc Family Housing ShutDown: 0.0%

Name: LACKLAND AFB, TX

	1996	1997	1998	1999	2000	2001
	----	----	----	----	----	----
1-Time Unique Cost (\$K):	0	0	0	0	0	0
1-Time Unique Save (\$K):	0	0	0	0	0	0
1-Time Moving Cost (\$K):	0	0	0	0	0	0
1-Time Moving Save (\$K):	0	0	0	0	0	0
Env Non-MilCon Reqcd(\$K):	0	0	0	0	0	0
Activ Mission Cost (\$K):	0	0	0	0	0	0
Activ Mission Save (\$K):	0	0	0	0	0	0
Misc Recurring Cost (\$K):	0	0	0	0	0	0
Misc Recurring Save (\$K):	0	0	0	0	0	0
Land (+Buy/-Sales) (\$K):	0	0	0	0	0	0
Construction Schedule(%):	50%	50%	0%	0%	0%	0%
Shutdown Schedule (%):	50%	50%	0%	0%	0%	0%
MilCon Cost Avoidnc(\$K):	0	0	0	0	0	0
Fam Housing Avoidnc(\$K):	0	0	0	0	0	0
Procurement Avoidnc(\$K):	0	0	0	0	0	0
CHAMPUS In-Patients/Yr:	0	0	0	0	0	0
CHAMPUS Out-Patients/Yr:	0	0	0	0	0	0
Facil ShutDown(KSF):	0					
						Perc Family Housing ShutDown: 0.0%

Department : AIR FORCE
 Option Package : BROOKS ALT #3
 Scenario File : C:\COBRA\BROOKS-3.CBR
 Std Fctrs File : C:\COBRA\BROOKS.SPF

INPUT SCREEN SIX - BASE PERSONNEL INFORMATION

Name: BROOKS AFB, TX

	1996	1997	1998	1999	2000	2001
Off Force Struc Change:	0	186	0	0	0	0
Enl Force Struc Change:	0	111	0	0	0	0
Civ Force Struc Change:	0	-101	0	0	0	0
Stu Force Struc Change:	0	0	0	0	0	0
Off Scenario Change:	-19	-19	0	0	0	0
Enl Scenario Change:	-115	-114	0	0	0	0
Civ Scenario Change:	-78	-78	0	0	0	0
Off Change(No Sal Save):	0	0	0	0	0	0
Enl Change(No Sal Save):	0	0	0	0	0	0
Civ Change(No Sal Save):	0	0	0	0	0	0
Caretakers - Military:	0	0	0	0	0	0
Caretakers - Civilian:	0	0	0	0	0	0

INPUT SCREEN SEVEN - BASE MILITARY CONSTRUCTION INFORMATION

Name: BROOKS AFB, TX

Description	Categ	New MilCon	Rehab MilCon	Total Cost(\$K)
BROOKS AFB	OTHER	0	0	5,000

Name: LACKLAND AFB, TX

Description	Categ	New MilCon	Rehab MilCon	Total Cost(\$K)
MINOR ADAPTATIONS	OTHER	0	0	1,000

STANDARD FACTORS SCREEN ONE - PERSONNEL

Percent Officers Married:	76.80%	Civ Early Retire Pay Factor:	9.00%
Percent Enlisted Married:	66.90%	Priority Placement Service:	60.00%
Enlisted Housing MilCon:	80.00%	PPS Actions Involving PCS:	50.00%
Officer Salary(\$/Year):	78,668.00	Civilian PCS Costs (\$):	28,800.00
Off BAQ with Dependents(\$):	7,073.00	Civilian New Hire Cost(\$):	4,000.00
Enlisted Salary(\$/Year):	36,148.00	Nat Median Home Price(\$):	114,600.00
Enl BAQ with Dependents(\$):	5,162.00	Home Sale Reimburse Rate:	10.00%
Avg Unemploy Cost(\$/Week):	174.00	Max Home Sale Reimburs(\$):	22,385.00
Unemployment Eligibility(Weeks):	18	Home Purch Reimburse Rate:	5.00%
Civilian Salary(\$/Year):	46,642.00	Max Home Purch Reimburs(\$):	11,191.00
Civilian Turnover Rate:	15.00%	Civilian Homeowning Rate:	64.00%
Civilian Early Retire Rate:	10.00%	HAP Home Value Reimburse Rate:	22.90%
Civilian Regular Retire Rate:	5.00%	HAP Homeowner Receiving Rate:	5.00%
Civilian RIF Pay Factor:	39.00%	RSE Home Value Reimburse Rate:	0.00%
SF File Desc:	DEPOT FACTORS	RSE Homeowner Receiving Rate:	0.00%

STANDARD FACTORS SCREEN TWO - FACILITIES

RPMA Building SF Cost Index:	0.93	Rehab vs. New MilCon Cost:	0.00%
BOS Index (RPMA vs population):	0.54	Info Management Account:	0.00%
(Indices are used as exponents)		MilCon Design Rate:	0.00%
Program Management Factor:	10.00%	MilCon SIOH Rate:	0.00%
Caretaker Admin(SF/Care):	162.00	MilCon Contingency Plan Rate:	0.00%
Mothball Cost (\$/SF):	1.25	MilCon Site Preparation Rate:	0.00%
Avg Bachelor Quarters(SF):	256.00	Discount Rate for NPV.RPT/ROI:	2.75%
Avg Family Quarters(SF):	1,320.00	Inflation Rate for NPV.RPT/ROI:	0.00%
APPDET.RPT Inflation Rates:			
1996: 0.00%	1997: 2.90%	1998: 3.00%	1999: 3.00%
			2000: 3.00%
			2001: 3.00%

Department : AIR FORCE
 Option Package : BROOKS ALT #3
 Scenario File : C:\COBRA\BROOKS-3.CBR
 Std Pctrs File : C:\COBRA\BROOKS.SFF

STANDARD FACTORS SCREEN THREE - TRANSPORTATION

Material/Assigned Person(Lb):	710	Equip Pack & Crate(\$/Ton):	284.00
HHG Per Off Family (Lb):	14,500.00	Mil Light Vehicle(\$/Mile):	0.43
HHG Per Enl Family (Lb):	9,000.00	Heavy/Spec Vehicle(\$/Mile):	1.40
HHG Per Mil Single (Lb):	6,400.00	POV Reimbursement(\$/Mile):	0.18
HHG Per Civilian (Lb):	18,000.00	Avg Mil Tour Length (Years):	4.10
Total HHG Cost (\$/100Lb):	35.00	Routine PCS(\$/Pers/Tour):	6,437.00
Air Transport (\$/Pass Mile):	0.20	One-Time Off PCS Cost(\$):	9,142.00
Misc Exp (\$/Direct Employ):	700.00	One-Time Enl PCS Cost(\$):	5,761.00

STANDARD FACTORS SCREEN FOUR - MILITARY CONSTRUCTION

Category	UM	\$/UM	Category	UM	\$/UM
-----	--	----	-----	--	----
Horizontal	(SY)	0	Optional Category A	()	0
Waterfront	(LF)	0	Optional Category B	()	0
Air Operations	(SF)	0	Optional Category C	()	0
Operational	(SF)	0	Optional Category D	()	0
Administrative	(SF)	0	Optional Category E	()	0
School Buildings	(SF)	0	Optional Category F	()	0
Maintenance Shops	(SF)	0	Optional Category G	()	0
Bachelor Quarters	(SF)	0	Optional Category H	()	0
Family Quarters	(SF)	0	Optional Category I	()	0
Covered Storage	(SF)	0	Optional Category J	()	0
Dining Facilities	(SF)	0	Optional Category K	()	0
Recreation Facilities	(SF)	0	Optional Category L	()	0
Communications Facil	(SF)	0	Optional Category M	()	0
Shipyards Maintenance	(SF)	0	Optional Category N	()	0
RDT & E Facilities	(SF)	0	Optional Category O	()	0
POL Storage	(BL)	0	Optional Category P	()	0
Ammunition Storage	(SF)	0	Optional Category Q	()	0
Medical Facilities	(SF)	0	Optional Category R	()	0
Environmental	()	0			



Atascosa County Economic Development Corporation

711 Oak

Jourdanton, Texas 78026

(210) 769-2880

1-800-259-3880

Fax: (210) 769-3546

May 19, 1995

Please refer to this number
when responding 9505 23-14

Alton W. Cornella
Base Closure & Realignment Commission
1700 N Moore St.
Suite 1425
Arlington, VA. 22209

Dear Mr. Cornella

I am writing on behalf of my Board of Directors to express our concerns regarding the possible closures of Brooks AFB and the re-alignment/downsizing of the Air Logistics Center at Kelly AFB.

Ours is a small non-profit community service organization chartered to promote jobs and opportunity for Atascosa County Texas. We have a 35 member Board representing all walks of life. As can be expected these are rural Texans proud of America and its preeminent role in world affairs.

I myself am a ten year veteran of the U.S. Army, having served as an Armor Officer in Korea and West Germany. I know how critical logistics and a solid logistical base are to the success of any operation be it Army, Navy or Air Force.

A glance at the headlines tells us the new world order has not created worldwide peace and harmony. America's leadership role draws us into global hot spots if for no other reason than our renown humanitarianism.

Key to this role is airlift capability. Without it our response time to troublespots or the scenes of natural disasters is greatly increased. Kelly is a linchpin in our Nation's capacity to sustain its airlift capability.

Brooks too plays an essential role in the readiness of our Armed Forces. That role is an investment in future readiness and cost-effectiveness based on hi-tech research conducted today.

I and my Board of Directors applaud past efforts to trim "fat" out of the Defense budget, but let us not cut muscle or amputate limbs from a military whose force structure is pared dangerously thin.

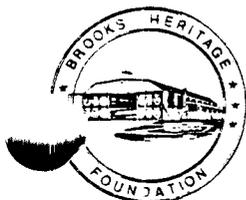
Yes, we are also concerned about the economic impact on our county and the entire region. Though we only have a population of 33,000 in Atascosa County, almost 400 of our residents work at the Brooks-Kelly bases. They bring in over \$11 million annually to our tax-base. Certainly we want to retain this but chiefly we do not want to see the readiness of our Armed Forces further sacrificed on the alter of short-term budget cuts and base closures.

Thank you for your hard work and the open minded manner in which you are receiving public comments on these matters.

Sincerely,

A handwritten signature in cursive script that reads "Stephen J. Filipowicz".

Stephen J. Filipowicz
Executive Director



BROOKS HERITAGE FOUNDATION, INC.

P.O. BOX 35362

BROOKS AIR FORCE BASE, TEXAS 78235

9 June 1995

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

Received
When responding 950613-28

Dear Chairman Dixon,

I am writing you concerning Brooks Air Force Base. Not only is Brooks the site of the Human Systems Center, the world's largest aerospace medical research center and the sole human-centered research and development installation for the Department of Defense, it is also one of the oldest continuously active military installations and the site of many important events in aviation history. I realize that you have been very well briefed on the current mission at Brooks and the importance of that mission to the defense of this country. As a result, you are able to see the necessity of keeping that mission intact, in its current location.

The City of San Antonio has proposed to the Base Closure Commission a cantonment plan that would effectively leave the mission in place, but would close Brooks Air Force Base. While that plan is a good one and will keep the mission intact and the jobs in San Antonio, it does not address the historical significance of the base.

Brooks is home to Hangar 9, the oldest remaining World War I aircraft hangar in the USAF. It is still in its original location and it is home to the Museum of Aerospace Medicine. A restored World War II structure compliments Hangar 9 and houses the Aerospace Medicine collection dedicated to Aeromedical Evacuation. Brooks is also the burial site of the remains of Lieutenant Sidney J. Brooks, for whom the base is named. These are important parts of our military aviation history as well as the history of aviation medicine. It is not clear what will happen to these sites if the base is cantoned or the mission moved to Wright-Patterson AFB. But, there is a good chance that they will disappear. In fact, Kelly AFB has already made inquiries about "relocating" Hangar 9 to Kelly when Brooks closes.

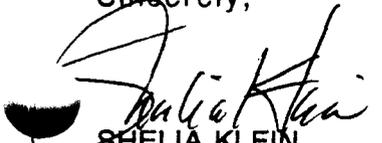
I realize that historical significance is not a criteria for the Base Closure Commission, however, we must at some point, stop destroying our history. History is our training manual - it is what we use to determine our past mistakes and to insure that we don't make the same ones in the future. A favorite saying around Brooks is "Those who don't respect the past don't deserve the future". We must start making concerted efforts to preserve these important links to our past. This Commission has a perfect opportunity to do this. By removing Brooks AFB totally from the list of closures, you will not only preserve the important aeromedical research and development mission, you will also preserve a very important part of USAF history that can not be duplicated or replaced.

It is obvious from the interest that Brooks has generated that it is important. Why else would the Dayton, Ohio and Panama City, Florida communities be so anxious to obtain portions of Brooks' missions? But, the key word is "portions". Brooks works well because it is in one place. To divide the mission and scatter it over the country will destroy its effectiveness. And, the historical ties to the base also play an important part in the hearts and minds of the Brooks workers and the over five thousand students who train in aeromedical related fields each year at Brooks. Hangar 9 is a constant reminder of where we came from and the museum housed there tells us how far we have traveled in such a short time - with one goal, to keep man safe in the hostile environment of flight.

When President John F. Kennedy performed his last official act at Brooks in November 1963, he challenged those present by saying "America has tossed its cap over the wall of space and we have no choice but to follow it". That complex of buildings dedicated by President Kennedy remains as the heart of the Human Systems Center. And, just as Brooks accepted President Kennedy's challenge in that critical race to the moon, throughout its seventy-seven year history Brooks has always played a critical role in our national security. To lose Brooks would be to lose a valuable national asset for the future of the United States and a most important connection to our past.

I urge you to please keep Brooks Air Force Base open!

Sincerely,


SHELIA KLEIN
Executive Director



BRAC '95
BASE REALIGNMENT AND CLOSURE TASK FORCE

April 26, 1995

Francis A. Cirillo, Jr.
Air Force Team Leader
Defense Base Closure and
Realignment Commission
1700 N. Moore Street, Suite 1425
Arlington, VA 22209

Dear Mr. Cirillo:

Thank you for your April 20, 1995 letter and the opportunity to describe the San Antonio cantonment strategy, and specifically, the concept of operations for Brooks AFB in more detail.

The San Antonio cantonment strategy is straight-forward. Brooks AFB would be closed and all base operating support (BOS) and real property maintenance (RPMA) would be provided by Kelly AFB or Lackland AFB. This concept would accomplish the following:

- Brooks AFB would be closed.
- \$174 million in one-time closure costs would be avoided (\$11 million vice \$185 million).
- The 20 year new present value savings would exceed \$301 million--more than twice as much as the DOD proposal.
- The return on investment would begin in year one.

In addition, the risks of losing perhaps as many as 50-75% of the scientists and engineers (who tell us they will not move to Dayton and Panama City) would be avoided and the synergies with San Antonio's very substantial military and civilian human systems and bioscience communities (which can not be matched in Dayton and Panama City) would be preserved.

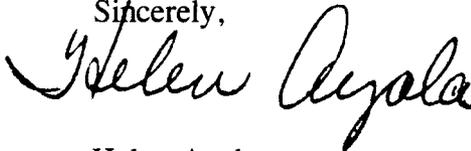
The San Antonio cantonment strategy is built on the following concept of operations:

- BROOKS AFB. Brooks AFB would be closed. A small portion of the base (approximately 15%) would be retained as a cantonment area. The remaining 85% would be made available for reuse. A conceptual drawing of the cantonment area is attached. However, it is only a concept; the actual boundaries would be determined by the Air Force. AFCEE would move into its new facility which would remain as a stand alone building in the reuse area. The few other activities that are presently located outside the cantonment area could remain as stand-alone activities or be moved into the cantonment.
- THE MISSIONS. HSC, AL, USAFSAM, AFCEE, AND HSC/YA would be retained in their present configurations. They would occupy their current facilities thereby negating the requirement for \$103 million of new military construction at Wright Patterson and Tyndall AFBs and \$82 million in movement, personnel, overhead, other, and one-time unique costs.
- BOS. Base operating support would be provided by Kelly AFB or Lackland AFB which are only 14 miles away. A detailed analysis of the support functions is attached. It shows a savings of 423 manpower spaces (Note: 391 was used in the briefing to the Commission and the COBRA runs to avoid confusion). Family housing was not retained in this proposal because additional family housing was not provided at Wright Patterson and Tyndall in the DOD proposal; however, it could be retained without substantially altering the savings. Minimal non-mission facilities were retained in the proposal making the Brooks Cantonment analogous to Wright Field (Area B) in the DOD proposal. The facilities closure factor was based on a building-by-building review. Fire response service would be provided by the City at a cost of \$70,000 per year.
- RPMA. Real property maintenance costs were developed using the "Real Property Replacement Costs" report (which was obtained under the Freedom of Information Act). This report was used to calculate the annual upkeep and repair costs and the utility costs. These data are also attached.
- MILITARY CONSTRUCTION. Five million dollars in military construction costs were included in the proposal for perimeter fencing and minor construction to facilitate moving a few activities from the reuse area into the cantonment. An additional one million dollars was included for minor modifications at Kelly or Lackland to accommodate the added BOS personnel.

It is important to note that the laboratory capacity reduction (as measured in direct work years) achieved by the San Antonio proposal is identical to the reduction in the DOD proposal. In addition, \$174 million in one-time closure costs are avoided and a 20 year net present value savings of \$301 million--more than twice as much as the DOD proposal--is achieved.

The short time left before the Commission makes their final decision, makes it is very important that we have a common understanding of this concept of operations and the supporting data at the earliest possible time. We are, therefore, ready to provide any additional information you may require and to meet with you and the appropriate Air Force representatives at your convenience to review the data and resolve any remaining uncertainties. Please contact Paul Roberson at (210) 229-2124 to arrange a meeting or to obtain additional information.

Sincerely,



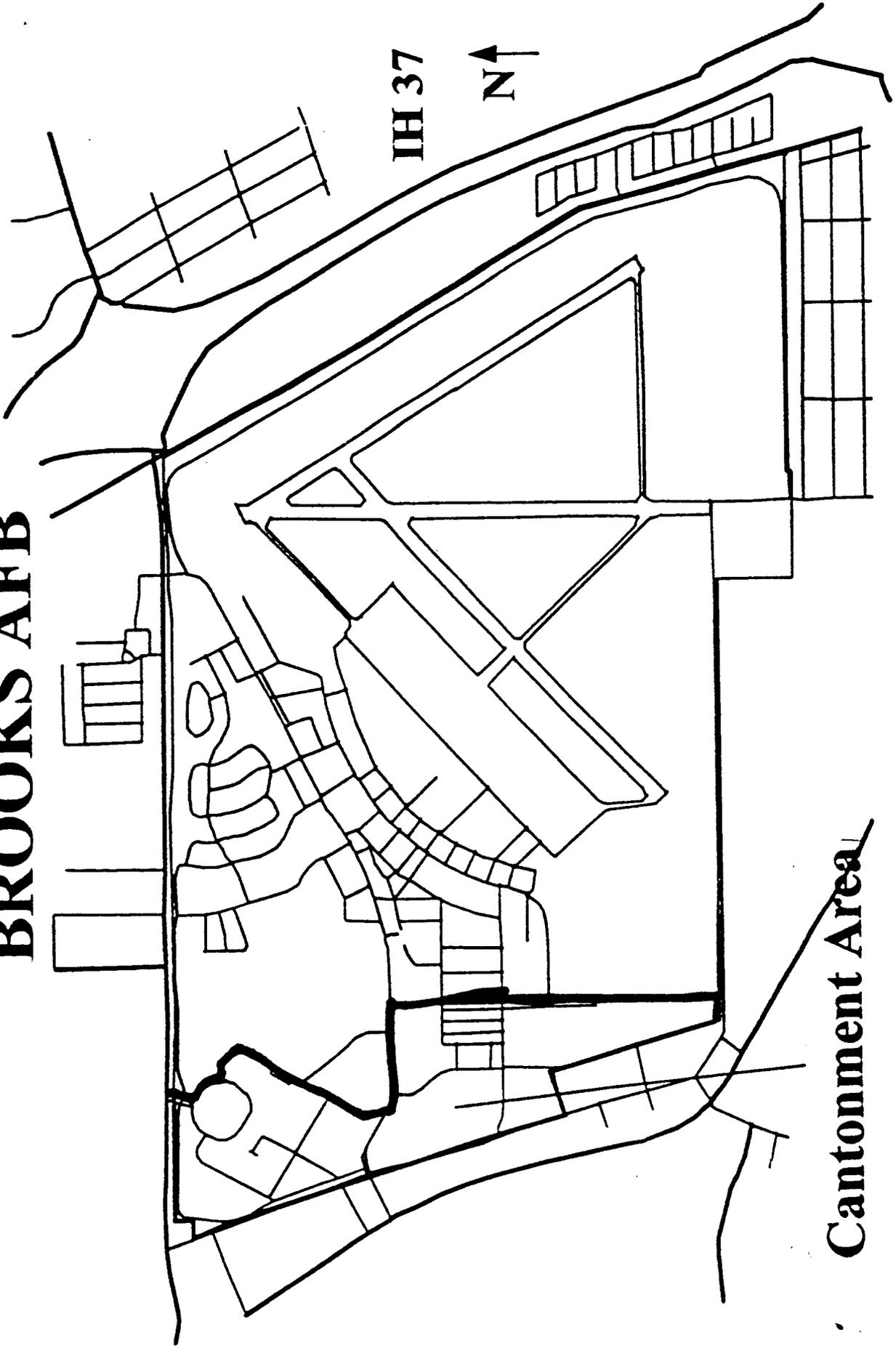
Helen Ayala
BRAC '95 Co-Chair

Charles E. Cheever, Jr.
BRAC '95 Co-Chair



Jose Villarreal
BRAC '95 Co-Chair

BROOKS AFB



Cantonment Area

CONCEPT OF OPERATIONS FOR THE BROOKS CANTONMENT

Table of Contents

Civil Engineering

Clinic

Security Police

Services

Logistics

Communications

Air Base Group

Personnel

Financial Management

Chaplain

Contracting

Systems Acquisition School

Summary

BROOKS AIR FORCE BASE

April 4, 1995 data

Civil Engineering

	Assigned Manpower			Satellite	Manpower - saved		
	<u>Officer</u>	<u>Enlisted</u>	<u>Civilian</u>		<u>Officer</u>	<u>Enlisted</u>	<u>Civilian</u>
Command	1	0	2	0	1	1	2
Administration	0	2	0	0	0	2	0
Engineering	0	0	15	10	0	0	5
Fire department	0	20	18	2	0	20	16
Housing	0	0	4	1	0	0	3
Operations	1	6	119	90	0	3	33
Resources	1	2	7	2	1	2	5
Environmental	1	0	12	6	1	0	6
Air Base operability	1	2	0	0	1	2	0
Total Personnel	<u>5</u>	<u>32</u>	<u>177</u>	<u>111</u>	<u>4</u>	<u>29</u>	<u>70</u>

Concept of operation

- The existing Civil Engineering organization at Brooks AFB is proposed to be disbanded and most civil engineering facilities vacated.
 - The central plant (building 165) and the plant personnel should be retained on-site to maintain surveillance over the EMCS and central heating and cooling plant systems.
 - Buildings 1164 and 1166 should be retained for the specialized shop space and parts storage space.
- Base housing will be closed and all these facilities vacated.
- The future Civil Engineering base operating support is proposed to be provided from another Civil Engineering organization (satellite).
 - Computer network systems, facsimile transfer, telephone calls and close proximity make communications relatively simple.
- The fire department is planned to be reduced to two fire prevention inspectors. Adequate fire response is planned from the City of San Antonio fire department and additional response provided from the other bases. Fire protection systems should be kept well maintained and tested frequently.
- There will be a need for people to repair plumbing, air conditioning, heating and other mechanical and electrical systems.
 - Use of Simplified Acquisition of Base Engineering Requirements (SABRE) should be continued as an effective means to reduce the need for in service support.
 - A few in-house environmental personnel should remain on Brooks to administer the program first hand.
- A liaison officer, reporting to the Host Base Civil Engineer, should be on-site at Brooks as the single point of contact.

BROOKS AIR FORCE BASE

April 4, 1995 data

<i>Clinic</i>	Assigned Manpower			Satellite	Manpower - saved		
	<u>Officer</u>	<u>Enlisted</u>	<u>Civilian</u>		<u>Officer</u>	<u>Enlisted</u>	<u>Civilian</u>
Command/administration	5	9	4	0	5	9	4
Ambulatory care	0	8	1	5	0	3	1
Clinical pathology	0	3	0	2	0	1	0
Dental	4	11	2	9	2	4	2
Diagnostic radiology	0	2	0	1	0	1	0
Emergency med. services	0	8	0	0	0	8	0
Flight Surgeon	1	7	1	4	0	4	1
Medical material	0	1	1	0	0	1	1
Mental health	1	1	0	0	1	1	0
Pharmacy	1	6	0	2	0	2	0
Preventive medicine	1	6	0	2	0	5	0
Primary care	8	9	3	8	2	7	3
Bioenvironmental *	2	5	0	4	0	3	0
Total personnel	<u>23</u>	<u>73</u>	<u>12</u>	<u>37</u>	<u>10</u>	<u>49</u>	<u>12</u>

* assigned to HSC environmental management

Concept of operation

- The existing Clinic organization at Brooks AFB is proposed to be disbanded and all clinic facilities vacated.
- The future medical support is proposed to be provided from the other medical organizations in San Antonio.
 - The impact of this action is exclusively in primary care, since Brooks has never had in-patient capabilities.
- By satelliting approximately one-half the current Brooks Clinic staff, the workload and impact at Kelly for example, would be workable.
- With the changes in the health care anticipated with the advent of TRICARE, the retiree support currently provided by Brooks could be absorbed into the new San Antonio-wide military health care region.
- A contingent of one MD, a nurse and two technicians on-site would be appropriate to accommodate the medical requirements at Brooks.
 - The San Antonio EMS support (currently provided after duty hours) will be provided 24 hours a day.

BROOKS AIR FORCE BASE

April 4, 1995 data

Security Police

	Assigned Manpower			Satellite	Manpower - saved		
	<u>Officer</u>	<u>Enlisted</u>	<u>Civilian</u>		<u>Officer</u>	<u>Enlisted</u>	<u>Civilian</u>
Command	1	2	0	0	1	2	0
Administration	0	9	0	2	0	7	0
Operations	0	39	0	12	0	27	0
Training	0	5	0	1	0	4	0
Total personnel	<u>1</u>	<u>55</u>	<u>0</u>	<u>15</u>	<u>1</u>	<u>40</u>	<u>0</u>

Concept of operation

- The existing Security Police organization at Brooks AFB is proposed to be disbanded and all security police facilities vacated.
- The future Police support is proposed to provide entry control, alarm monitoring, and limited patrol duties.
 - The main gate (at the northeast side) will remain open.
 - The other gate (at HSC headquarters) will be open one hour in the morning and one hour in the afternoon.
 - The Student Billeting and Mission areas will be patrolled by after duty hours by future police support.
- There are three options for achieving this proposed future Police support:
 - Support from another Security Police organization (satellite).
 - Support from a Security Guard contract.
 - Support from the San Antonio Police Department.

BROOKS AIR FORCE BASE

April 4, 1995 data

<i>Services</i>	Assigned Manpower			Satellite	Manpower - saved		
	<u>Officer</u>	<u>Enlisted</u>	<u>Civilian</u>		<u>Officer</u>	<u>Enlisted</u>	<u>Civilian</u>
Command	1	2	3	0	1	2	3
Membership & resources	0	0	8	0	0	0	8
Military support	0	10	14	19	0	0	5
Recreation support	0	0	10	0	0	0	10
Plans & programs	0	4	3	2	0	4	1
Youth activities	0	0	10	0	0	0	10
Total personnel	<u>1</u>	<u>16</u>	<u>48</u>	<u>21</u>	<u>1</u>	<u>6</u>	<u>37</u>

Concept of operation

- The existing Services organization at Brooks AFB is proposed to be disbanded and most Services facilities vacated.
- The future Services support is proposed to be provided from another Services organization (satellite).
- The Billeting, Dining Hall and Gymnasium are proposed to continue operations - in support of the USAFSAM enlisted students.
 - The enlisted students are proposed to be billeted on base (buildings 717, 718, and 719) - the majority are pipeline students in AFSC awarding courses.
 - On-base billeting for officers will be discontinued.
 - The billeting office location (currently in building 214) will be relocated in building 719. This will require some minor construction and the associated cost should remain within the \$300,000 minor construction limit.
 - The female student dorm will be vacated (building 703) and female students will be billeted in building 719.
 - The Airmans' Dining Hall (building 722) will be retained.
 - The Gymnasium and Running track (buildings 940 and 932) will be retained
- The base library is proposed to be closed. The students are expected to use the technical library that is currently supporting the Armstrong Laboratory and The School of Aerospace Medicine.
- The child care center and the youth activities center will be closed. Base housing will be closed and no dependent youth will be resident on base.
- The Golf Course and Brooks Club (Open Mess) currently receive no appropriated support. Their future status will be determined based on economic viability.

BROOKS AIR FORCE BASE

April 4, 1995 data

Logistics

	Assigned Manpower				Satellite			Manpower - saved
	<u>Officer</u>	<u>Enlisted</u>	<u>Civilian</u>		<u>Officer</u>	<u>Enlisted</u>	<u>Civilian</u>	
Command	1	0	1	0	1	0	1	
Administration	0	2	0	0	0	2	0	
Medical logistics	1	19	2	2	1	17	2	
Supply	1	29	14	25	1	18	0	
Transportation	0	21	10	19	0	12	0	
Total personnel	<u>3</u>	<u>71</u>	<u>27</u>	<u>46</u>	<u>3</u>	<u>49</u>	<u>3</u>	

Concept of operation

- The existing Logistics organization at Brooks AFB is proposed to be disbanded and all Logistics facilities vacated.
- The future Logistics support is proposed to be provided from another Logistics organization (satellite). Logistics support is available under a support agreement for medical, non-medical supplies and equipment, transportation and vehicle maintenance
- The Logistics Material Control Activity (LMCA) will remain in the operational units (Armstrong Laboratory).
 - The LMCA is the primary point of material support for the remaining units at Brooks. The LMCA will utilize the host base supply channels for common stock items and make maximum use of automatic restocking. Those items not maintained in stock may be procured directly from the source. Warehousing at Brooks will be limited to essential mission requirements.
- The credit card system will be used to procure supplies and equipment as appropriate.
- Automatic restocking of supply will be used where possible

BROOKS AIR FORCE BASE

April 4, 1995 data

Communications

	Assigned Manpower			Satellite	Manpower - saved		
	<u>Officer</u>	<u>Enlisted</u>	<u>Civilian</u>		<u>Officer</u>	<u>Enlisted</u>	<u>Civilian</u>
Command	1	0	1	0	1	0	1
Administration	0	3	0	0	0	3	0
Systems support	2	33	11	38	1	7	0
Systems technology	1	3	7	9	0	2	0
Plans & programs	1	3	8	10	1	1	0
Total personnel	<u>5</u>	<u>42</u>	<u>27</u>	<u>57</u>	<u>3</u>	<u>13</u>	<u>1</u>
Direct USAFSAM	0		2 (retain at HSC)				

Concept of operation

- The existing Communications organization at Brooks AFB is proposed to be disbanded and all communications facilities vacated.
- The future Communications support is proposed to be provided from another Communications organization (satellite).
- The Direct USAFSAM positions will remain in-place at Brooks in support of this mission.

BROOKS AIR FORCE BASE

April 4, 1995 data

Air Base Group

	Assigned Manpower			Satellite	Manpower - saved		
	Officer	Enlisted	Civilian		Officer	Enlisted	Civilian
Command	3	0	2	0	3	0	2
Command post	0	5	0	1	0	4	0
Mission support	1	3	0	2	1	1	0
Family support center	0	1	7	2	0	1	5
Information management	1	4	8	10	1	2	0
Plans & programs	0	0	2	0	0	0	2
Readiness	0	1	2	1	0	1	1
Social Actions	1	3	1	3	1	0	1
<i>(overhires)</i>							
<i>Civilian personnel</i>			10	0	0		10
<i>Military personnel</i>			2	0	0		2
Total personnel	6	17	22 + 12	19	6	9	11 + 12
Museum	0		1 (retain at HSC)				

Concept of operation

- The existing Base Commander and his staff at Brooks AFB is proposed to be disbanded and all command/staff facilities vacated.
- The future Base operating support is proposed to be provided from another Base organization (satellite).
- The manpower positions shown in *italic (overhires)* are not counted in the totals.
- The USAF Museum of Aerospace Medicine supports the "Histories and Heritage" portion of the USAF School of Aerospace Medicine curriculum. The curator position will remain in-place at Brooks in support of this mission.

BROOKS AIR FORCE BASE

April 4 1995 data

Personnel

	Assigned Manpower			Satellite	Manpower - saved		
	<u>Officer</u>	<u>Enlisted</u>	<u>Civilian</u>		<u>Officer</u>	<u>Enlisted</u>	<u>Civilian</u>
Personnel	1	1	0	0	1	1	0
Civilian personnel	0	0	23	12	0	0	11
Education & training	2	8	8	9	2	7	0
Military personnel	2	27	2	16	1	12	2
Long term civilian education	0	0	2	1	0	0	1
Total personnel	<u>5</u>	<u>36</u>	<u>35</u>	<u>38</u>	<u>4</u>	<u>20</u>	<u>14</u>

Concept of operation

- The existing Personnel organization at Brooks AFB is proposed to be disbanded and all personnel facilities vacated.
- The future Personnel support is proposed to be provided from another personnel organization (satellite).

BROOKS AIR FORCE BASE

April 4, 1995 data

Financial management

	Assigned Manpower			Satellite	Manpower - saved		
	<u>Officer</u>	<u>Enlisted</u>	<u>Civilian</u>		<u>Officer</u>	<u>Enlisted</u>	<u>Civilian</u>
Programs/budget	1	0	4	2	1	0	2
Cost analyst	2	0	5	3	2	0	2
Accounting & finance	0	8	9	8	0	8	1
Total personnel	<u>3</u>	<u>8</u>	<u>18</u>	<u>13</u>	<u>3</u>	<u>8</u>	<u>5</u>
Comptroller	1	0	2 (retain at HSC)				
Assistant comptroller for AL	0		19 (retain at HSC)				
Assistant comptroller for YA	5		9 (retain at HSC)				

Concept of operation

- The existing Financial management organization at Brooks AFB is proposed to be disbanded and all financial management facilities vacated.
- The future Financial management support is proposed to be provided from another financial management organization (satellite).
- The HSC Comptroller, the assistant comptrollers and the personnel directly supporting the Armstrong Laboratory and the Human Systems Program Office will remain in-place at Brooks in support of these organizations.

BROOKS AIR FORCE BASE

April 4, 1995 data

Chaplain

	Assigned Manpower		Satellite	Manpower - saved	
	Officer	Enlisted		Officer	Enlisted
Chaplains	3	0	2	1	0
Administration	0	3	1	2	0
Total personnel	<u>3</u>	<u>3</u>	<u>3</u>	<u>1</u>	<u>0</u>

Concept of operation

- The existing Chaplain organization at Brooks AFB is proposed to be disbanded and most chaplain facilities vacated.
 - The Chapel facility is proposed to be retained for Sunday worship and occasional special events.
- The future Chaplain support is proposed to be provided from another chaplain organization (satellite).
 - The support will include Sunday worship at Brooks in support of the on-base student population.

BROOKS AIR FORCE BASE

April 4, 1995 data

<i>Contracting</i>	Assigned Manpower			Satellite	Manpower - saved		
	<u>Officer</u>	<u>Enlisted</u>	<u>Civilian</u>		<u>Officer</u>	<u>Enlisted</u>	<u>Civilian</u>
Base contracting	2	4	18	15	2	4	3
Total personnel	<u>2</u>	<u>4</u>	<u>18</u>	<u>15</u>	<u>2</u>	<u>4</u>	<u>3</u>
Contracting	1		1 (retain at HSC)				
Policy	0		4 (retain at HSC)				
Pricing	1		2 (retain at HSC)				
Support to AFOMS	0		2 (retain at HSC)				
R&D contracting	3		19 (retain at HSC)				
Systems contracting	4		6 (retain at HSC)				
Environmental contracting	2		9 (retain at HSC)				
Prof dev res mgt	7		4 (retain at HSC)				

Concept of operation

- The existing Base level contracting organization at Brooks AFB is proposed to be disbanded and the associated facilities vacated.
- The future Base level contracting support is proposed to be provided from another base contracting organization (satellite).
- Environmental, Acquisition and R&D contracting will remain in-place at Brooks to support the AFCEE, HSC/YA, AL and USAFSAM.

BROOKS AIR FORCE BASE

April 4, 1995 data

Systems Acquisition School

	Assigned Manpower			Satellite	Manpower - saved		
	<u>Officer</u>	<u>Enlisted</u>	<u>Civilian</u>		<u>Officer</u>	<u>Enlisted</u>	<u>Civilian</u>
Total personnel	16	4	13 (retain at HSC)				

Concept of operation

- The Systems Acquisition School at Brooks AFB is proposed to be retained by HSC at Brooks.
 - The associated facilities (buildings 556, 557, and 558) will vacated and the School will utilize space vacated by USAFSAM in building 180.

BROOKS AIR FORCE BASE

April 4, 1995 data

Totals	Assigned Manpower		Satellite	Manpower - saved		
	Officer	Enlisted		Officer	Enlisted	Civilian
	5 7	3 5 7	3 7 5	3 8	2 2 9	1 5 6

Totals do not include "overhires" or "retain at HSC" numbers

Total Savings = 423 (manpower spaces)

From the COBRA model (BRAC data 02/20/95), the civilian salary is \$46,642.

$$156 \times \$46,642 = \$7,276,152$$

From the COBRA model (BRAC data 02/20/95), the officer salary is \$78,668.

$$38 \times \$78,668 = \$2,989,384$$

From the COBRA model (BRAC data 02/20/95), the enlisted salary is \$36,148.

$$229 \times \$36,148 = \$8,277,892$$

Total Savings = \$18,543,428

3 SAFB MISSION FACILITIES - March 18, 1995

1	BLDG #	B		C		D		E		F		G	
		SQUARE FEET	REPLACEMENT COST	UTILITY COST	UPKEEP COST	TOTAL U + U	ORGANIZATION						
2	100	27378	\$4454000.00	\$35591.40	\$66810.00	\$102401.40	Armstrong Lab Medical facility						
3	110	39696	\$3683000.00	\$51604.80	\$55245.00	\$106849.80	Armstrong Lab Medical facility						
4	122	15	\$2000.00	\$19.50	\$30.00	\$49.50	Sewage Pump Station						
5	125	107548	\$18511000.00	\$139812.40	\$277665.00	\$417477.40	Armstrong Lab Headquarters & USAFSAM Classrooms						
6	130	36125	\$6323000.00	\$46962.50	\$94845.00	\$141807.50	Armstrong Lab Technical Support facility						
7	135	3432	\$659000.00	\$4461.60	\$9885.00	\$14346.60	Armstrong Lab Chemical Storage facility						
8	140	59791	\$7402000.00	\$77728.30	\$111030.00	\$188758.30	Armstrong Lab Occupational Environmental Directorate						
9	141	336	\$4000.00	\$436.80	\$60.00	\$496.80	Environmental Health - gas bottle storage						
10	145	1243	\$369000.00	\$1615.90	\$5535.00	\$7150.90	Electrical Switch Station						
11	149	0	\$8000.00	\$0.00	\$120.00	\$120.00	Flag Pole						
12	150	56736	\$6652000.00	\$73756.80	\$99780.00	\$173536.80	Headquarters HSC, AF Medical Support Agency						
13	155	26686	\$2629000.00	\$34691.80	\$39435.00	\$74126.80	Armstrong Lab & USAFSAM Technical Library						
14	159	1176	\$278000.00	\$1528.80	\$4170.00	\$5698.80	Electrical Power Station						
15	160	53615	\$10909000.00	\$69699.50	\$163635.00	\$233334.50	Hyperbaric Chambers & Altitude Chambers						
16	165	22962	\$29087000.00	\$29850.60	\$436305.00	\$466155.60	Power Plant for Bldg 100-186						
17	167	13824	\$1761000.00	\$17971.20	\$26415.00	\$44386.20	Armstrong Lab Research Equipment						
18	168	120	\$6000.00	\$156.00	\$90.00	\$246.00	Armstrong Lab - gas bottle storage						
19	170	48896	\$8690000.00	\$63564.80	\$130350.00	\$193914.80	Armstrong Lab Centrafruge						
20	174	162	\$34000.00	\$210.60	\$510.00	\$720.60	Armstrong Lab - gas bottle storage						
21	175	42629	\$7732000.00	\$55417.70	\$115980.00	\$171397.70	Armstrong Lab Environmental Health						
22	176	16200	\$2731000.00	\$21060.00	\$40965.00	\$62025.00	Armstrong Lab & Army Directed Energy						
23	180	56720	\$11013000.00	\$73736.00	\$165195.00	\$238931.00	USAFSAM Headquarters & Classrooms						
24	185	29293	\$3962000.00	\$38080.90	\$59430.00	\$97510.90	Armstrong Lab Animal Clinic						
25	186	5536	\$1589000.00	\$7196.80	\$23835.00	\$31031.80	Armstrong Lab Vivarium						
26	199	440	\$162000.00	\$572.00	\$2430.00	\$3002.00	Liquid Oxygen Storage						
27	250	352	\$304000.00	\$457.60	\$4560.00	\$5017.60	Base Water Pump Station						
28	414	8988	\$6421000.00	\$11684.40	\$96315.00	\$107999.40	Base Chapel						
29	532	80000	\$8600000.00	\$104000.00	\$129000.00	\$233000.00	AFCEE - New Facility						
30	578	76740	\$6286000.00	\$99762.00	\$94290.00	\$194052.00	Armstrong Lab - Human Resources Directorate						
31	659	2962	\$511000.00	\$3850.60	\$7665.00	\$11515.60	Museum Building - Annex						
32	671	8880	\$532000.00	\$11544.00	\$7980.00	\$19524.00	Museum - Hangar 9						
33	717	17612	\$3289000.00	\$22895.60	\$49335.00	\$72230.60	Student Dormitory - USAFSAM						
34	718	27141	\$9703000.00	\$35283.30	\$145545.00	\$180828.30	Student Dormitory - USAFSAM						
35	719	27141	\$8452000.00	\$35283.30	\$126780.00	\$162063.30	Student Dormitory - USAFSAM						
36	721	10000	\$882000.00	\$13000.00	\$13230.00	\$26230.00	Human Systems Program Office						
37	722	7941	\$1858000.00	\$10323.30	\$27870.00	\$38193.30	Airman's Dining Hall						
38	723	7000	\$353000.00	\$9100.00	\$5295.00	\$14395.00	Human Systems Program Office						
39	724	13217	\$5957000.00	\$17182.10	\$89355.00	\$106537.10	Human Systems Program Office						
40	727	10000	\$882000.00	\$13000.00	\$13230.00	\$26230.00	Human Systems Program Office						
41	775	86000	\$9200000.00	\$111800.00	\$138000.00	\$249800.00	USAFSAM - New Facility						
42	802	10000	\$210000.00	\$13000.00	\$3150.00	\$16150.00	Air Force Medical Support Agency						
43	803	10500	\$1712000.00	\$13650.00	\$25680.00	\$39330.00	Armstrong Lab - Navy Directed Energy						
44	809	7306	\$158000.00	\$9497.80	\$2370.00	\$11867.80	Human Systems Program Office						
45	812	11160	\$227000.00	\$14508.00	\$3405.00	\$17913.00	Human Systems Program Office						
46	817	0	\$49000.00	\$0.00	\$735.00	\$735.00	Parachute Swing Trainer - USAFSAM						
47	820	45267	\$2310000.00	\$58847.10	\$34650.00	\$93497.10	A/C mockups - USAFSAM & HSC Systems Program Office						

S AFB MISSION FACILITIES - March 18, 1995

	B	C	D	E	F	G	
4 8	BUILDING #	SQUARE FEET	REPLACEMENT COST	UTILITY COST	UPKEEP COST	TOTAL U + U	ORGANIZATION
4 9	912	4000	\$126000.00	\$5200.00	\$1890.00	\$7090.00	Intelligence Squadron
5 0	913	8816	\$1802000.00	\$11460.80	\$27030.00	\$38490.80	Intelligence Squadron
5 1	915	3000	\$316000.00	\$3900.00	\$4740.00	\$8640.00	Human Systems Program Office
5 2	930	56800	\$4946000.00	\$73840.00	\$74190.00	\$148030.00	Drug Testing & Epidemiology
5 3	931	306	\$17000.00	\$397.80	\$255.00	\$652.80	Armstrong Lab - gas bottle storage
5 4	932	2 acres	\$103000.00	\$0.00	\$1545.00	\$1545.00	Athletic Field Track
5 5	940	22296	\$1947000.00	\$28984.80	\$29205.00	\$58189.80	Gymnasium
5 6	950	3150	\$1576000.00	\$4095.00	\$23640.00	\$27735.00	NASA - Lunar Rock Depository
5 7	1004	3115	\$2117000.00	\$4049.50	\$31755.00	\$35804.50	Armstrong Lab - Animal Clinic
5 8	1005	1296	\$150000.00	\$1684.80	\$2250.00	\$3934.80	Armstrong Lab - Animal Clinic
5 9	1006	1296	\$155000.00	\$1684.80	\$2325.00	\$4009.80	Armstrong Lab - Animal Clinic
6 0	1007	3840	\$278000.00	\$4992.00	\$4170.00	\$9162.00	Armstrong Lab - Animal Clinic
6 1	1008	4200	\$134000.00	\$5460.00	\$2010.00	\$7470.00	Armstrong Lab - Animal Clinic
6 2	1013	2887	\$203000.00	\$3753.10	\$3045.00	\$6798.10	Armstrong Lab - Animal Clinic
6 3	1016	232	\$41000.00	\$301.60	\$615.00	\$916.60	Armstrong Lab - Animal Clinic
6 4	1017	8741	\$613000.00	\$11363.30	\$9195.00	\$20558.30	Armstrong Lab - Animal Clinic
6 5	1018	1027	\$85000.00	\$1335.10	\$1275.00	\$2610.10	Armstrong Lab - Animal Clinic
6 6	1019	2263	\$119000.00	\$2941.90	\$1785.00	\$4726.90	Armstrong Lab - Animal Clinic
6 7	1179	1444	\$162000.00	\$1877.20	\$2430.00	\$4307.20	Armstrong Lab - Directed Enegy
6 8	1180	495	\$17000.00	\$643.50	\$255.00	\$898.50	Armstrong Lab - Directed Enegy
6 9	1182	6873	\$195000.00	\$8934.90	\$2925.00	\$11859.90	Armstrong Lab - Directed Enegy
7 0	1183	4000	\$219000.00	\$5200.00	\$3285.00	\$8485.00	Armstrong Lab - Directed Enegy
7 1	1184	9377	\$1246000.00	\$12190.10	\$18690.00	\$30880.10	Armstrong Lab - Directed Enegy
7 2	1185	3540	\$306000.00	\$4602.00	\$4590.00	\$9192.00	Armstrong Lab - Directed Enegy
7 3	1187	2954	\$727000.00	\$3840.20	\$10905.00	\$14745.20	Armstrong Lab - Directed Enegy
7 4	1188	64	\$13000.00	\$83.20	\$195.00	\$278.20	Armstrong Lab - Directed Enegy
7 5	1189	903	\$140000.00	\$1173.90	\$2100.00	\$3273.90	Armstrong Lab - Directed Enegy
7 6	1191	345	\$16000.00	\$448.50	\$240.00	\$688.50	Armstrong Lab - Directed Enegy
7 7	1192	9260	\$659000.00	\$12038.00	\$9885.00	\$21923.00	Armstrong Lab - Directed Enegy
7 8	1193	3078	\$344000.00	\$4001.40	\$5160.00	\$9161.40	Armstrong Lab - Directed Enegy
7 9	TOTALS	1288364	\$215318000.00	\$1674873.20	\$3229770.00	\$4904643.20	

A	B	C	D	E	F	G
BLDG #	SQUARE FEET	REPLACEMENT COST	UTILITY COST	UPKEEP COST	TOTAL U + U	ORGANIZATION
1						
2 120	340	\$94000.00	\$442.00	\$1410.00	\$1852.00	Outdoor Recreation Pavilion
3 121	1652	\$89000.00	\$2147.60	\$1335.00	\$3482.60	Outdoor Recreation Pavilion
4 204	15262	\$3489000.00			\$0.00	Brooks Club - non appropriated funding (SV)
5 211	3869	\$275000.00	\$5029.70	\$4125.00	\$9154.70	Transient Lodging (SV)
6 212	21895	\$1884000.00	\$28463.50	\$28260.00	\$56723.50	Transient Lodging and Billing Office (SV)
7 214	19961	\$2134000.00	\$25949.30	\$32010.00	\$57959.30	Transient Lodging (SV)
8 218	16461	\$1409000.00	\$21399.30	\$21135.00	\$42534.30	Transient Lodging (SV)
9 220	17234	\$1380000.00	\$22404.20	\$20700.00	\$43104.20	Transient Lodging (SV)
10 221	0	\$7000.00	\$0.00	\$105.00	\$105.00	Recreation Facility (basketball court) (CE)
11 250	352	\$304000.00	\$457.60	\$4560.00	\$5017.60	Water Pump Station (CE)
12 265	0	\$56000.00	\$0.00	\$840.00	\$840.00	Tennis Court (CE)
13 280	2562	\$166000.00	\$3330.60	\$2490.00	\$5820.60	Family Housing - Duplex (CE)
14 281	2934	\$165000.00	\$3814.20	\$2475.00	\$6289.20	Family Housing - Duplex (CE)
15 282	3049	\$165000.00	\$3963.70	\$2475.00	\$6438.70	Family Housing - Duplex (CE)
16 283	2562	\$165000.00	\$3330.60	\$2475.00	\$5805.60	Family Housing - Duplex (CE)
17 284	2894	\$164000.00	\$3762.20	\$2460.00	\$6222.20	Family Housing - Duplex (CE)
18 285	2894	\$163000.00	\$3762.20	\$2445.00	\$6207.20	Family Housing - Duplex (CE)
19 286	2593	\$163000.00	\$3370.90	\$2445.00	\$5815.90	Family Housing - Duplex (CE)
20 287	2934	\$164000.00	\$3814.20	\$2460.00	\$6274.20	Family Housing - Duplex (CE)
21 289	2562	\$163000.00	\$3330.60	\$2445.00	\$5775.60	Family Housing - Duplex (CE)
22 290	3049	\$163000.00	\$3963.70	\$2445.00	\$6408.70	Family Housing - Duplex (CE)
23 291	2562	\$169000.00	\$3330.60	\$2535.00	\$5865.60	Family Housing - Duplex (CE)
24 292	2624	\$165000.00	\$3411.20	\$2475.00	\$5886.20	Family Housing - Duplex (CE)
25 293	2894	\$164000.00	\$3762.20	\$2460.00	\$6222.20	Family Housing - Duplex (CE)
26 345	111 ACRES	\$800000.00			\$0.00	9 Hole Golf Course - non appropriated funding (SV)
27 400	2288	\$166000.00	\$2974.40	\$2490.00	\$5464.40	Family Housing - Duplex (CE)
28 401	2428	\$167000.00	\$3156.40	\$2505.00	\$5661.40	Family Housing - Duplex (CE)
29 402	2707	\$171000.00	\$3519.10	\$2565.00	\$6084.10	Family Housing - Duplex (CE)
30 403	2314	\$166000.00	\$3008.20	\$2490.00	\$5498.20	Family Housing - Duplex (CE)
31 404	2314	\$164000.00	\$3008.20	\$2460.00	\$5468.20	Family Housing - Duplex (CE)
32 405	2288	\$166000.00	\$2974.40	\$2490.00	\$5464.40	Family Housing - Duplex (CE)
33 407	2314	\$164000.00	\$3008.20	\$2460.00	\$5468.20	Family Housing - Duplex (CE)
34 408	2707	\$164000.00	\$3519.10	\$2460.00	\$5979.10	Family Housing - Duplex (CE)
35 409	2428	\$166000.00	\$3156.40	\$2490.00	\$5646.40	Family Housing - Duplex (CE)
36 410	2288	\$169000.00	\$2974.40	\$2535.00	\$5509.40	Family Housing - Duplex (CE)
37 411	2428	\$165000.00	\$3156.40	\$2475.00	\$5631.40	Family Housing - Duplex (CE)
38 412	2428	\$165000.00	\$3156.40	\$2475.00	\$5631.40	Family Housing - Duplex (CE)
39 413	2707	\$163000.00	\$3519.10	\$2445.00	\$5964.10	Family Housing - Duplex (CE)
40 415	2314	\$168000.00	\$3008.20	\$2520.00	\$5528.20	Family Housing - Duplex (CE)
41 416	2314	\$169000.00	\$3008.20	\$2535.00	\$5543.20	Family Housing - Duplex (CE)
42 418	2314	\$169000.00	\$3008.20	\$2535.00	\$5543.20	Family Housing - Duplex (CE)
43 419	2288	\$165000.00	\$2974.40	\$2475.00	\$5449.40	Family Housing - Duplex (CE)
44 420	2314	\$163000.00	\$3008.20	\$2445.00	\$5453.20	Family Housing - Duplex (CE)
45 421	0	\$75000.00	\$0.00	\$1125.00	\$1125.00	Monument by chapel area (CE)
46 422	2288	\$165000.00	\$2974.40	\$2475.00	\$5449.40	Family Housing - Duplex (CE)

A	B	C	D	E	F	G
BUILDING #	SQUARE FEET	REPLACEMENT COST	UTILITY COST	UPKEEP COST	TOTAL U + U	ORGANIZATION
47						
48	423	\$165000.00	\$3156.40	\$2475.00	\$5631.40	Family Housing - Duplex (CE)
49	424	\$163000.00	\$3519.10	\$2445.00	\$5964.10	Family Housing - Duplex (CE)
50	426	\$165000.00	\$3156.40	\$2475.00	\$5631.40	Family Housing - Duplex (CE)
51	427	\$166000.00	\$2974.40	\$2490.00	\$5464.40	Family Housing - Duplex (CE)
52	428	\$170000.00	\$3008.20	\$2550.00	\$5558.20	Family Housing - Duplex (CE)
53	429	\$165000.00	\$3164.20	\$2475.00	\$5639.20	Family Housing - Duplex (CE)
54	430	\$165000.00	\$3814.20	\$2475.00	\$6289.20	Family Housing - Duplex (CE)
55	431	\$164000.00	\$3330.60	\$2460.00	\$5790.60	Family Housing - Duplex (CE)
56	432	\$163000.00	\$3814.20	\$2445.00	\$6259.20	Family Housing - Duplex (CE)
57	433	\$163000.00	\$3370.90	\$2445.00	\$5815.90	Family Housing - Duplex (CE)
58	434	\$165000.00	\$3963.70	\$2475.00	\$6438.70	Family Housing - Duplex (CE)
59	436	\$163000.00	\$3762.20	\$2445.00	\$6207.20	Family Housing - Duplex (CE)
60	437	\$769000.00	\$6903.00	\$11535.00	\$18438.00	Multi Purpose Facility (DP)
61	438	\$165000.00	\$3814.20	\$2475.00	\$6289.20	Family Housing - Duplex (CE)
62	439	\$164000.00	\$3762.20	\$2460.00	\$6222.20	Family Housing - Duplex (CE)
63	440	\$169000.00	\$3330.60	\$2535.00	\$5865.60	Family Housing - Duplex (CE)
64	441	\$165000.00	\$3370.90	\$2475.00	\$5845.90	Family Housing - Duplex (CE)
65	442	\$172000.00	\$3762.20	\$2580.00	\$6342.20	Family Housing - Duplex (CE)
66	443	\$167000.00	\$3411.20	\$2505.00	\$5916.20	Family Housing - Duplex (CE)
67	444	\$169000.00	\$3008.20	\$2535.00	\$5543.20	Family Housing - Duplex (CE)
68	445	\$169000.00	\$3008.20	\$2535.00	\$5543.20	Family Housing - Duplex (CE)
69	446	\$170000.00	\$2974.40	\$2550.00	\$5524.40	Family Housing - Duplex (CE)
70	447	\$167000.00	\$3008.20	\$2505.00	\$5513.20	Family Housing - Duplex (CE)
71	448	\$165000.00	\$3008.20	\$2475.00	\$5483.20	Family Housing - Duplex (CE)
72	449	\$165000.00	\$3156.40	\$2475.00	\$5631.40	Family Housing - Duplex (CE)
73	450	\$166000.00	\$3519.10	\$2490.00	\$6009.10	Family Housing - Duplex (CE)
74	451	\$167000.00	\$3156.40	\$2505.00	\$5661.40	Family Housing - Duplex (CE)
75	452	\$165000.00	\$2974.40	\$2475.00	\$5449.40	Family Housing - Duplex (CE)
76	453	\$172000.00	\$3519.10	\$2580.00	\$6099.10	Family Housing - Duplex (CE)
77	454	\$166000.00	\$3008.20	\$2490.00	\$5498.20	Family Housing - Duplex (CE)
78	455	\$169000.00	\$3008.20	\$2535.00	\$5543.20	Family Housing - Duplex (CE)
79	456	\$171000.00	\$2974.40	\$2565.00	\$5539.40	Family Housing - Duplex (CE)
80	457	\$172000.00	\$3008.20	\$2580.00	\$5588.20	Family Housing - Duplex (CE)
81	458	\$169000.00	\$3008.20	\$2535.00	\$5543.20	Family Housing - Duplex (CE)
82	459	\$176000.00	\$3008.20	\$2640.00	\$5648.20	Family Housing - Duplex (CE)
83	460	\$164000.00	\$3008.20	\$2460.00	\$5468.20	Family Housing - Duplex (CE)
84	461	\$164000.00	\$3156.40	\$2460.00	\$5616.40	Family Housing - Duplex (CE)
85	462	\$167000.00	\$3519.10	\$2505.00	\$6024.10	Family Housing - Duplex (CE)
86	463	\$171000.00	\$3156.40	\$2565.00	\$5721.40	Family Housing - Duplex (CE)
87	464	\$169000.00	\$2974.40	\$2535.00	\$5509.40	Family Housing - Duplex (CE)
88	465	\$166000.00	\$3008.20	\$2490.00	\$5498.20	Family Housing - Duplex (CE)
89	466	\$165000.00	\$3008.20	\$2475.00	\$5483.20	Family Housing - Duplex (CE)
90	467	\$163000.00	\$3008.20	\$2445.00	\$5453.20	Family Housing - Duplex (CE)
91	468	\$165000.00	\$3008.20	\$2475.00	\$5483.20	Family Housing - Duplex (CE)
92	470	\$1009000.00	\$5718.70	\$15135.00	\$20853.70	Youth Center (SV)

CS AFB SUPPORT FACILITIES - March 18, 1995

	A	B	C	D	E	F	G
93	BUILDING #	SQUARE FEET	REPLACEMENT COST	UTILITY COST	UPKEEP COST	TOTAL U + U	ORGANIZATION
94	479	1895	\$106000.00	\$2463.50	\$1590.00	\$4053.50	Family Housing - Single Unit (CE)
95	480	1895	\$106000.00	\$2463.50	\$1590.00	\$4053.50	Family Housing - Single Unit (CE)
96	481	1895	\$106000.00	\$2463.50	\$1590.00	\$4053.50	Family Housing - Single Unit (CE)
97	482	2262	\$108000.00	\$2940.60	\$1620.00	\$4560.60	Family Housing - Single Unit (CE)
98	483	2110	\$118000.00	\$2743.00	\$1770.00	\$4513.00	Family Housing - Single Unit (CE)
99	484	1895	\$106000.00	\$2463.50	\$1590.00	\$4053.50	Family Housing - Single Unit (CE)
100	485	1895	\$111000.00	\$2463.50	\$1665.00	\$4128.50	Family Housing - Single Unit (CE)
101	486	1524	\$96000.00	\$1981.20	\$1440.00	\$3421.20	Family Housing - Single Unit (CE)
102	487	1467	\$89000.00	\$1907.10	\$1335.00	\$3242.10	Family Housing - Single Unit (CE)
103	488	1524	\$94000.00	\$1981.20	\$1410.00	\$3391.20	Family Housing - Single Unit (CE)
104	489	1524	\$97000.00	\$1981.20	\$1455.00	\$3436.20	Family Housing - Single Unit (CE)
105	490	1467	\$90000.00	\$1907.10	\$1350.00	\$3257.10	Family Housing - Single Unit (CE)
106	491	1524	\$95000.00	\$1981.20	\$1425.00	\$3406.20	Family Housing - Single Unit (CE)
107	492	1524	\$95000.00	\$1981.20	\$1425.00	\$3406.20	Family Housing - Single Unit (CE)
108	493	1467	\$91000.00	\$1907.10	\$1365.00	\$3272.10	Family Housing - Single Unit (CE)
109	494	1524	\$95000.00	\$1981.20	\$1425.00	\$3406.20	Family Housing - Single Unit (CE)
110	495	1524	\$94000.00	\$1981.20	\$1410.00	\$3391.20	Family Housing - Single Unit (CE)
111	496	1524	\$95000.00	\$1981.20	\$1425.00	\$3406.20	Family Housing - Single Unit (CE)
112	497	1524	\$94000.00	\$1981.20	\$1410.00	\$3391.20	Family Housing - Single Unit (CE)
113	498	1524	\$92000.00	\$1981.20	\$1380.00	\$3361.20	Family Housing - Single Unit (CE)
114	499	129	\$13000.00	\$167.70	\$195.00	\$362.70	Pavilion (CE)
115	502	8801	\$1001687.00	\$11441.30	\$15025.30	\$26466.61	Child Care Facility (SV)
116	510	3150	\$248000.00	\$4095.00	\$3720.00	\$7815.00	Family Housing Management Office (CE)
117	511	5368	\$230000.00	\$6978.40	\$3450.00	\$10428.40	Family Support and Social Action (CC)
118	514	196	\$82000.00	\$254.80	\$1230.00	\$1484.80	Water Pump Station (CE)
119	516	0	\$134000.00	\$0.00	\$2010.00	\$2010.00	Monument/Mamorial F-100 (CE)
120	517	0	\$24000.00	\$0.00	\$360.00	\$360.00	Flag Pole (CE)
121	531	3314	\$4280000.00	\$4308.20	\$64200.00	\$68508.20	Security Police (SP)
122	537	5008	\$1873000.00	\$6510.40	\$28095.00	\$34605.40	Comptroller (FM)
123	538	5422	\$2950000.00	\$7048.60	\$44250.00	\$51298.60	Base Commander (registered historic building) (CC)
124	556	1560	\$27000.00	\$2028.00	\$405.00	\$2433.00	Systems Acquisition School
125	557	1560	\$28000.00	\$2028.00	\$420.00	\$2448.00	Systems Acquisition School
126	558	10623	\$3923000.00	\$13809.90	\$58845.00	\$72654.90	Systems Acquisition School
127	562	0	\$77000.00	\$0.00	\$1155.00	\$1155.00	Tennis Court (CE)
128	570	29979	\$2640000.00	\$38972.70	\$39600.00	\$78572.70	Consolidated Pesonnel Center (DP)
129	613	8904	\$1928000.00	\$11575.20	\$28920.00	\$40495.20	Communication Facility (SC)
130	614	720	\$4000.00	\$936.00	\$60.00	\$996.00	Ambulance Shelter (SG)
131	615	19712	\$2462000.00	\$25625.60	\$36930.00	\$62555.60	Clinic (SG)
132	616	400	\$23000.00	\$520.00	\$345.00	\$865.00	Gas Meter Facility (CE)
133	618	2160	\$273000.00	\$2808.00	\$4095.00	\$6903.00	Command Post, Disaster Pparedness (CC)
134	619	8766	\$1192000.00	\$11395.80	\$17880.00	\$29275.80	Communication Facility (SC)
135	622	1125	\$147000.00	\$1462.50	\$2205.00	\$3667.50	Clinic Bioenvironmental Health (SG)
136	624	14600	\$325000.00	\$18980.00	\$4875.00	\$23855.00	Currently Occupied By AFCEE (CE)
137	625	6860	\$162000.00	\$8918.00	\$2430.00	\$11348.00	Currently Occupied by Contracting - backfill USAFSAM
138	626	14700	\$296000.00	\$19110.00	\$4440.00	\$23550.00	Currently Occupied by Contracting - backfill USAFSAM

A	B	C	D	E	F	G
BUILDING #	SQUARE FEET	REPLACEMENT COST	UTILITY COST	UPKEEP COST	TOTAL U + U	ORGANIZATION
139						
140	627	\$271000.00	\$15724.80	\$4065.00	\$19789.80	Currently Occupied By AFCEE (CE)
141	628	\$741000.00	\$4186.00	\$11115.00	\$15301.00	Currently occupied by Staff Judge Advocate (CE)
142	638	\$844000.00	\$3597.10	\$12660.00	\$16257.10	Civil Engineering Administration (CE)
143	639	\$214000.00	\$2912.00	\$3210.00	\$6122.00	Civil Engineering Administration (CE)
144	640	\$1138000.00	\$10260.90	\$17070.00	\$27330.90	Fire Station (CE)
145	641	\$2156000.00	\$12047.10	\$32340.00	\$44387.10	Civil Engineering Storage, Self Help (CE)
146	642	\$265000.00	\$12989.60	\$3975.00	\$16964.60	ABG (Currently Occupied By AFCEE)
147	649	\$4677000.00	\$14040.00	\$70155.00	\$84195.00	Civil Engineering Environmental (CE)
148	660	\$1922000.00	\$12920.70	\$28830.00	\$41750.70	Bowling Center, Recreation Center (SV)
149	661	\$2565000.00	\$0.00	\$0.00	\$0.00	Commissary
150	662	\$1379000.00	\$0.00	\$0.00	\$0.00	Eisenhower Bank
151	663	3000	\$0.00	\$0.00	\$0.00	Randolph-Brooks Credit Union
152	703	9072	\$11793.60	\$13365.00	\$25158.60	Dormitory (female) - plan to use Bldg 719
153	704	26332	\$0.00	\$0.00	\$0.00	Base Exchange Store
154	705	\$1199000.00	\$12452.70	\$17985.00	\$30437.70	Base Library (SV)
155	709	\$260000.00	\$5197.40	\$3900.00	\$9097.40	Swimming Pool (SV)
156	710	\$153000.00	\$2607.80	\$2295.00	\$4902.80	Swimmers Bath House (SV)
157	714	\$2703000.00	\$15297.10	\$40545.00	\$55842.10	Recreation Center (SV)
158	726	\$468000.00	\$2480.40	\$7020.00	\$9500.40	Post Office (SV)
159	749	\$3586000.00	\$9529.00	\$53790.00	\$63319.00	Communications Facility (SC)
160	811	\$21000.00	\$0.00	\$0.00	\$0.00	Golf Club Lockers - non appropriated funding (SV)
161	815	\$405000.00	\$169.00	\$6075.00	\$6244.00	Sewage Pump Station (CE)
162	818	\$8000.00	\$165.10	\$120.00	\$285.10	Telephone Facility (SC)
163	821	\$319000.00	\$0.00	\$0.00	\$0.00	Golf Club House - non appropriated funding (SC)
164	951	\$169000.00	\$1560.00	\$2535.00	\$4095.00	Security Police Working Dog Kennel (SP)
165	1025	\$44000.00	\$5694.00	\$660.00	\$6354.00	Riding Stable (SV)
166	1030	\$29000.00	\$260.00	\$435.00	\$695.00	Hazardous Storage (CE)
167	1106	\$2368000.00	\$28485.60	\$35520.00	\$64005.60	Vehicle Maintenance Facility (LG)
168	1107	\$94000.00	\$2600.00	\$1410.00	\$4010.00	Vehicle Maintenance Wash Rack (LG)
169	1108	\$68000.00	\$399.10	\$1020.00	\$1419.10	Vehicle Service Station (LG)
170	1110	\$148000.00	\$0.00	\$2220.00	\$2220.00	Gasoline Storage Facility (LG)
171	1115	\$62000.00	\$0.00	\$930.00	\$930.00	Diesel Storage Facility (LG)
172	1130	\$217000.00	\$0.00	\$3255.00	\$3255.00	Open Storage for Logistics (LG)
173	1131	\$152000.00	\$0.00	\$2280.00	\$2280.00	Softball Field (SV)
174	1132	\$100000.00	\$0.00	\$1500.00	\$1500.00	Softball Field (SV)
175	1133	\$37000.00	\$468.00	\$555.00	\$1023.00	Recreation Pavilion (SV)
176	1134	\$209000.00	\$6500.00	\$3135.00	\$9635.00	Household Goods Storage (SV)
177	1135	\$127000.00	\$2080.00	\$1905.00	\$3985.00	Hazardous Storage (CE)
178	1136	\$56000.00	\$520.00	\$840.00	\$1360.00	Recreation Pavilion (SV)
179	1137	\$6000.00	\$0.00	\$0.00	\$0.00	Open Storage for Private Vehicles (SV)
180	1149	\$150000.00	\$2372.50	\$2250.00	\$4622.50	Logistics Hazardous Storage (LG)
181	1150	\$11907000.00	\$68369.60	\$178605.00	\$246974.60	Base Supply & Warehouse (LG)
182	1151	\$16000.00	\$161.20	\$240.00	\$401.20	Arts & Crafts Center (SV)
183	1152	\$154000.00	\$468.00	\$2310.00	\$2778.00	Logistics Hazardous Storage (LG)
184	1153	\$51000.00	\$1560.00	\$765.00	\$2325.00	Logistics Hazardous Storage (LG)

KS AFB SUPPORT FACILITIES - March 18, 1995

	A	B	C	D	E	F	G
185	BUILDING #	SQUARE FEET	REPLACEMENT COST	UTILITY COST	UPKEEP COST	TOTAL U + U	ORGANIZATION
186	1154	5910	\$959000.00	\$7683.00	\$14385.00	\$22068.00	Skills Development Center (SV)
187	1155	18980	\$1911000.00	\$24674.00	\$28665.00	\$53339.00	Currently Occupied By AFCEE (CE)
188	1156	13004	\$1635000.00	\$16905.20	\$24525.00	\$41430.20	Civil Engineering Facility (CE)
189	1157	4860	\$384000.00	\$6318.00	\$5760.00	\$12078.00	Auto Hobby Shop (SV)
190	1160	6520	\$329000.00	\$8476.00	\$4935.00	\$13411.00	Currently Occupied By AFCEE (CE)
191	1161	8680	\$192000.00	\$11284.00	\$2880.00	\$14164.00	Currently Occupied By AFCEE (CE)
192	1163	10655	\$927000.00	\$13851.50	\$13905.00	\$27756.50	Civil Engineering Facility (CE)
193	1164	13825	\$927000.00	\$17972.50	\$13905.00	\$31877.50	Civil Engineering Facility (CE)
194	1166	9600	\$218000.00	\$12480.00	\$3270.00	\$15750.00	Civil Engineering Facility (CE)
195	1176	747	\$272000.00	\$971.10	\$4080.00	\$5051.10	Security Police Armory (SP)
196	1190	0	\$16000.00	\$0.00	\$240.00	\$240.00	Recreational Facility (Skeet range) (SV)
197	1194	10 acres	\$18000.00	\$0.00	\$270.00	\$270.00	Family Campground (SV)
198	1195	10000	\$239000.00	\$13000.00	\$3585.00	\$16585.00	Logistics Warehouse (LG)
199	1198	1512	\$103000.00	\$1965.60	\$1545.00	\$3510.60	Multi-Purpose Recreation (SV)
200	1199	32150 feet	\$490000.00	\$0.00	\$0.00	\$0.00	Fence, Boundary (CE)
201	TOTALS	864759	\$108615687.00	\$1012612.90	\$1416895.31	\$2429508.20	

Local committee set to tell city's side of base story

*Express - News
5 April 95*

by Jim Hutton
Express-News Staff Writer

The Mayor's '95 BRAC Task Force soon will make its first official pitch to a small group of commissioners who will be involved in determining the fate of Brooks AFB.

Four members of the independent Base Closure and Realignment Commission, commonly called BRAC, are scheduled to arrive here Wednesday and visit Brooks the next day to receive an outline of the local community's efforts to save missions and jobs at the Southeast Side installation.

Two commissioners, Rebecca Cox, a Continental Airlines vice president who lives in California, and Benjamin Montoya, the chief executive officer of a New Mexico utility, are scheduled to arrive Wednesday night at San Antonio International Airport.

"The commissioners will receive red carpet and VIP greetings from the city's Red Carpet Committee and the mayor, county judges, councilpersons and task force chairs," said Therese Bass, a contract employee with the BRAC task force.

Two other commissioners, Joe Robles Jr., a retired general and USAA executive who lives in San Antonio, and Wendi Steele of Houston, who held a variety of positions in the Reagan and Bush administrations, also are to tour Brooks on Thursday.

Brooks was placed on the closure list in late February by Defense Secretary William Perry after recommendations from the Department of the Air Force.

The commission must announce any changes to the list by May 17 before sending it to President Clinton by July 1. Commissioners are visiting 54 military installations targeted for closure or major realignment.

While Kelly AFB and four other air logistics centers did not make the closure list, local leaders still are concerned about the San Antonio Air Logistics Center, which was placed on the revised list in 1993 before being removed.

BRAC '95 Project Director Paul Roberson said Mayor Nelson Wolff officially will brief the commissioners following the visit.

"We will have 15 minutes to speak to them," said Roberson, a retired Air Force brigadier general.

He added that Kelly AFB will not be mentioned in the short briefing.

"We want the total focus on Brooks on Thursday," Roberson said.

If the Defense Department plan for Brooks remains intact, the Human Systems Center, School of Aerospace Medicine and Arm-

strong Laboratory would move to Wright-Patterson AFB in Ohio.

The final key mission at Brooks — the Air Force Center for Environmental Excellence — would shift to Tyndall AFB in Florida.

Task force officials are not trying to save Brooks in its entirety but instead hope to keep the key missions in San Antonio via "containment." Those missions would be annexed by Kelly AFB and the remainder of the base's function would be closed.

A massive demonstration of civic support is planned outside Brooks on Thursday along Southeast Military Drive when the commissioners depart the installation at 11 a.m.

"We have distributed 15,000 fliers to groups, churches, businesses, neighborhood associations, people, everyone in the area," said Cindy Taylor, president of the Southside Chamber of Commerce.

Wolff will speak at a "pep rally" at 11:30 a.m. Wednesday in a parking lot of a former hardware store on the corner of Southeast Military Drive and Goliad Road, Taylor said.

Additionally, Taylor said she had received assistance from the Greater San Antonio, Hispanic and North San Antonio chambers of commerce with their phone banks.

"The commissioners will see a sea of blue T-shirts saying 'Keep Brooks Air Force Base Working' on the front and 'The Knowledge Base' on the back," emphasizing the base's biomedical and biotechnological focus, Taylor said.

The fliers and T-shirts are funded through "different sponsorships — public, private and through some persons," Bass said.

In mobilizing support from "Highway 90 southeast and southwest to the county line," Taylor said four "quadrant chairs" — Sara Youngblood, T.C. Calvert, Gina Castenada and Debbie Zito — organized the people, businesses and organizations.

"Senator (Kay Bailey) Hutchison said the commissioners want to feel and see support leaving Brooks, and they will with a sea of blue T-shirts," she said.

"The community response is part of the total picture of support of the missions and jobs at Brooks," Roberson said. "We'll convey that importance with a display of support."

The next and final official pitch to the commissioners will come April 19 at the regional BRAC hearing in Dallas. City officials will have one hour to make their formal presentation, which also will include Kelly, Roberson said.

Bass said 10 buses will take about 500 Brooks supporters from

Brooks, by the numbers

BRAC commissioners' visit Thursday to Brooks AFB:

6:45 a.m.	Arrive at Human Systems Center (HSC)
7:00-7:15	Continental breakfast in commander's conference room
7:15-7:45	Mission briefing by Brig. Gen. Robert Belihar, HSC commander
7:50-8:05	School of Aerospace Medicine briefing by commander Col. Robert Stepp
8:10-8:25	Crew technology-centrifuge
8:30-8:45	Advanced Spatial Disorientation Demonstration briefing
8:45-9:00	Hyperbarics
9:05-9:20	Animal laboratory
9:25-9:40	Occupational and Environmental Health Directorate at Armstrong Laboratory
9:45-10:00	Systems Programs Office (HSC)
10:05-10:20	Directed Energy Branch at Armstrong Laboratory
10:20-10:30	Driving tour
10:30-10:45	Civic leaders briefing at Brooks Club
10:45-11:00	News conference at Brooks Club
11 a.m.	Commissioners depart base

Source: Human Systems Center Public Affairs Office

EXPRESS-NEWS GRAPHIC

San Antonio to Dallas on April 19. The hearing site, Hughes-Trigg Theater at Southern Methodist University, seats about 500 people. A \$10 nonrefundable reservation

is required, Bass said. Buses depart at 3 a.m.

"We want full buses so we'll have standby tickets, too," Bass said. "We want to fill the theater."

SUN

Brooks AFB, Highland Hills, McCreless, Pasadena Heights, Pecan Valley an

Brooks group plans street rally for base

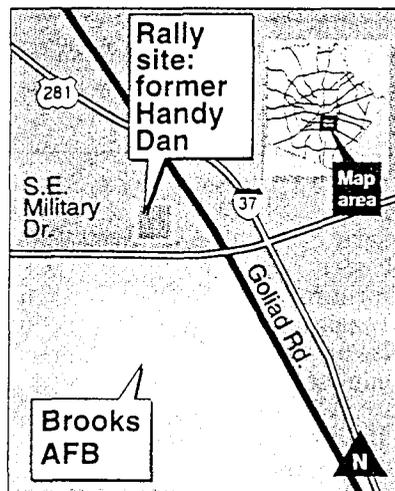
By Anastasia Cisneros-Lunsford
Sun Staff Writer

Officials trying to keep Brooks AFB open want thousands of residents to wave flags and banners and shout their support for the base during a street rally set 10 a.m. Thursday.

Four commissioners from the federal base-closure panel will visit Brooks on Thursday and local officials want them to see the community's commitment to keeping the base operating.

Residents who are interested in participating in the street rally should meet at the former Handy Dan on Goliad Road at S.E. Military Drive at 9:30 a.m. Thursday. Rally officials will give free T-shirts and flags to participants.

Brooks, which is home to the Air Force School of Aerospace Medicine and the Armstrong Laboratory, appeared on the base closure list early last month. Several city



officials, businesses and residents have joined forces in an effort to save the Southeast Side base from closing.

Cindy Taylor, president of the Southside Chamber of Commerce and organizer of the rally, said

more than 3,000 jobs are at risk and that the base is vital for many Southeast San Antonians.

"(The rally) is going to be awesome. It will be another great demonstration of how the South Side pulls together," Taylor said.

"Families depend on that base. We want merchants to stand outside their businesses. We want a strong show of support. We will be chanting, 'Keep Brooks working!'"

District 3 City Councilwoman Lynda Billa Burke said officials with the Mayor's '95 BRAC (Base Closure and Realignment) Task Force will have 15 minutes to make a presentation during the commission's visit.

She said one of the concerns city officials and residents have is the high closure cost compared to keeping the base open.

For more information about the street rally or the hearing in Dallas, call the Southside Chamber of Commerce at 533-5867.

Editorial

HBG is letting Brooks AFB go by

I was distressed to read a Comment by our esteemed U.S. Rep. Henry B. Gonzalez in the March 18 San Antonio Express-News.

In that article, he stated, "Now that the secretary of defense has decided to close Brooks AFB and hold onto Kelly, it is unlikely that the BRAC will alter the decision." Gonzalez then went on to say, "Kelly had a close call."

No mention of trying to fight to save Brooks. No plans of how to use his political muscle to keep Brooks. Not even any remorse about the loss of a premier high technology center for San Antonio. All that seemed to interest the congressman was that Kelly AFB had a close call.

Well, I guess that since Brooks is not situated in Gonzalez's district, it is not a concern for him. He either does not understand or does not acknowledge the synergism that Brooks has with the local scientific community. Closing Brooks will be a real loss, and it is unfortunate that our congressman does not acknowledge the fact.

We probably should not have expected more in that Gonzalez in the past has only appeared concerned about Kelly. He has appointed himself as protector of Kelly and would like to take all the credit when Kelly is spared (even though other congressmen have played larger roles).

It is good to be concerned about the very real threat to Kelly, but Gonzalez could have at least put up the facade of being concerned about the rest of San Antonio's bases.

Maybe it's just politics as usual — putting the interests of your district above all else. I would have hoped, though, that Gonzalez was a representative of all San Antonio, including those employees due to lose their jobs as Brooks closes. But it is not surprising, since many of Gonzalez's actions no longer seem to represent the people of San Antonio.

Martin L. Bartlett

Gonzalez urges S.A. create Brooks panel

By Gary Martin

Express-News Washington Bureau

WASHINGTON — U.S. Rep. Henry B. Gonzalez urged San Antonio Mayor Nelson Wolff on Tuesday to create — possibly with Bexar County — a local development commission to convert portions of Brooks AFB to private uses.

Gonzalez, D-San Antonio, said he supports efforts by city leaders to rope off key missions at the base and place them under the support of Kelly AFB, allowing the Air Force to close most of Brooks.

“However, I also believe this would be the optimum time to start putting in place a mechanism to plan for the redevelopment of Brooks, if it is closed,” Gonzalez wrote in a letter to the mayor.

“I believe San Antonio — possibly with Bexar County — should create a Brooks Development Commission, which would develop and carry out a plan for the future of the base,” Gonzalez wrote.

Wolff applauded the idea.

“Now is the time to patch together a group for reuse,” Wolff said.

The mayor said city efforts have focused mainly on a strategy to

save missions at the base, which was placed on a Pentagon “hit list” for closure.

City leaders will urge the base closure commission April 19 to close the base, but keep the Armstrong Laboratory, the School of Aerospace Medicine and the Air Force Center for Environmental Excellence under the support of Kelly.

Wolff said he would begin looking at candidates to form a redevelopment commission, which would take several weeks to organize and establish.

He also agreed with Gonzalez that the commission should be independent, with representation from all sectors of the city, county and business.

“Now is the time to patch together a group for reuse.”

— Mayor Nelson Wolff



PHOTO BY RICK HUNTER

Mayor Nelson Wolff (far right) drives home a point in support of a plan to keep Brooks AFB missions in San Antonio during a Wednesday morning rally in a vacant lot near the endangered base.

Brooks backers extend welcome to base closure commissioners

By Jim Hutton

Express-News Staff Writer

About 150 supporters sporting blue T-shirts and signs lauding Brooks AFB and chanting, "We want Brooks," welcomed two members of the base closure commission Wednesday night to San Antonio for a brief Thursday inspection of the installation.

Members Benjamin Montoya of New Mexico and Wendi Steele of

from Lubbock and (the people supporting Reese) brought tears to our eyes."

On Wednesday morning, community leaders and residents rallied to urge San Antonians to show solidarity for city's plan to save the endangered base's mission.

"Our message is that a greater savings can be made by still following the Air Force plan to close the base," Mayor Nelson Wolff told

Houston arrived at San Antonio International Airport, receiving the "red carpet" treatment from the Greater San Antonio Chamber of Commerce after touring Reese AFB in Lubbock.

Brooks, like Reese, has been placed on the closure list by the Defense Department, but additions and deletions to the original Feb. 28 list may be made up to May 17 by the independent Base Closure

about 30 supporters in attendance in a vacant hardware store parking lot on the corner of Southeast Military Drive and Goliad Road, near Brooks.

A plan by the Mayor's '95 BRAC Task Force would salvage key missions at Brooks and save about 3,000 jobs. Also, it would provide \$301 million in savings over 20

and Realignment Commission, commonly called BRAC.

Two other BRAC commissioners, San Antonian Joe Robles Jr. and Rebecca Cox of California, are to join Montoya and Steele on Thursday at Brooks.

"We're a long way from talking

about death," Montoya said, referring to Brooks and other military facilities that the Pentagon wants to close.

"Our visit is very preliminary, and the community response is a big asset," Steele said, looking down the lengthy airport walkway lined with Brooks AFB supporters.

Regarding the outpouring of support, Montoya added: "We're going to see a lot of people. We came

Brooks backers extend welcome to base closure panel members

Continued from 1B

years, compared with \$185 million in upfront expenses for closing the base and realigning missions and personnel elsewhere.

The base's primary missions — Armstrong Laboratory, School of Aerospace Medicine, Human Systems Center and Center for Environmental Excellence — would become an annex to Kelly AFB under the task force plan.

"When you see the human factor, I've been told by authorities that research programs (at Brooks) might be set back 10 years if they were moved to (Wright-Patterson AFB) in Dayton, Ohio," Wolff said, adding many Brooks civilians would not accept transfers to Dayton.

Wolff will brief commissioners on the task force's plan Thursday.

The four BRAC members will see a human chain of blue T-shirts and signs Thursday along Southeast Military Drive, said City Councilwoman Lynda Billa Burke.

"I feel confident we'll have 3,000 people in T-shirts," Burke said about the commissioners' departure from Brooks at 11 a.m. Thursday along Southeast Military Drive.

A street rally is planned for 9:30 a.m. Thursday in the vacant parking lot in preparation for supporters' lining the roadway for the BRAC members' departure.

The commission members were housed at Brooks overnight before beginning their tour early Thursday morning.

The tour will focus on elements of the Human Systems Center, Armstrong Laboratory and School of Aerospace Medicine.

Supporters are expected to wear free promotional T-shirts stating in white lettering: "Keep BROOKS Working" on one side and "BROOKS The Knowledge Base" on the other side.

"We've even gotten responses (for help to save Brooks) from Floresville and Pleasanton," Burke said.

"Those responses have been unsolicited ..." Saying San Antonio had supported the military through the good times and the bad times historically, Burke added: "The military can't provide for it-



PHOTO BY JERRY LARA

Brig. Gen. Robert Belihar, commander of the Human Systems Center at Brooks AFB, greets base closure panel members Wendi Steele and Benjamin Montoya at San Antonio International Airport on Wednesday night.

“ We're going to see a lot of people. We came from Lubbock and (the people supporting Reese) brought tears to our eyes. **”**

— Benjamin Montoya, base closure commission

self without an active and supportive community.”

One organizer, Gina Castaneda, said unity was critical to show backing to commission members.

"It's important to see the South Side unite for this thing," said Castaneda, community relations director at Southwest General Hospital.

"I work in the area, grew up in the area, live in the area and my kids go to school in the area," she added.

Saying Thursday's showing of community support is crucial for Brooks to survive in some capaci-

ty, Castaneda added: "If they drive out of the gate and see no one here, their attitude will be: 'They don't care.'"

"We've gone out and done intense organizing, and the support will show up," Castaneda said.

Dino Urdialez, president of the American Federation of Government Employees Local 1757 at Brooks, downplayed the human factor Wednesday.

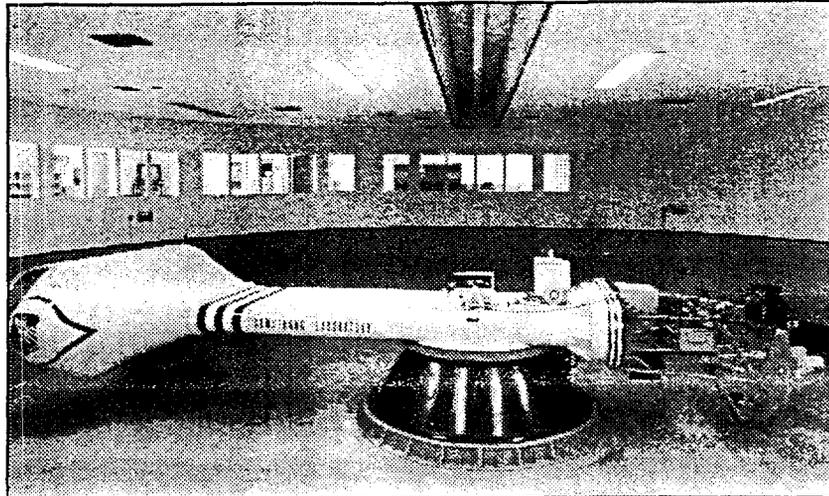
"The people (jobs) issue is not a big issue," Urdialez said. "The economic factor is the only thing that can save Brooks."

"We're not going to get it on cries and tears. ... I'm pretty sure 3,224 jobs will not be moved," he added.

Urdialez said several groups and individuals were not in favor of the task force's plan of "cantonnement" or saving specific missions in geographic "pockets" on the base with mission support from Kelly AFB.

"You can grab 100 people and get 100 different ideas," the union president said.

"There's no chance in hell to save Brooks," Urdialez said about the entire base. "We've got to make it worthwhile economically (to the commissioners)."



Centrifuge at Brooks Air Force Base

A Valuable Tool To The Air Force

When Brooks Air Force Base began pilot

training in World War I, the gravitational effects (G forces) on the human body caused by aircraft dive pull-outs and sharp turns were not a major concern to aviation researchers even though pilots were reporting degradation of vision and "fainting in the air" (loss of consciousness) when performing highspeed maneuvers. As the Air Force's aircraft inventory grew more sophisticated and faster, reports of acceleration (G) problems increased in number becoming a more important operational problem for fighter planes. It was apparent that these G effects could cause accidents with possible loss of aircraft and aircrew. A test vehicle was needed to study these problems in a controlled and safe environment. In 1938,

the first such vehicle (a centrifuge for human use) was built at Wright Field (now Wright-Patterson Air Force Base, Dayton Ohio).

In 1964, the U.S. Air Force School of Aerospace Medicine, now a unit of the Human Systems Center, installed a large centrifuge at Brooks Air Force Base to study such higher G effects on humans and to develop life support equipment to help protect aircrews from these effects. Research support equipment was installed to include pulmonary, blood gas and cardiovascular monitoring facilities, and data and video equipment to help record human physiologic response to high-sustained G forces. The centrifuge is now operated by the Armstrong Laboratory crew systems division.

The primary missions of this centrifuge were to provide:

- a test vehicle for developing and assessing the effectiveness of experimental aircrew G-protection equipment and methods.

- a means for indoctrination and training of aeromedical specialists and other aircrew personnel in the use of these protective techniques.

The centrifuge could accomplish acceleration onset rates up to 1.5 G per second which was adequate to simulate the performance of the aircraft of that time. In 1971, a USAFSAM centrifuge human G tolerance record of 9 Gs for 45 seconds was established using the G protective equipment and straining techniques developed at USAFSAM. At that time, high performance aircraft such as the F-15 and F-16 were in design and the achievement of this new high G record helped to prove that pilots could effectively fly these new aircraft. As studies in acceleration physiology continued,

Brooks

Continued From
Page 26

it was learned that the rate of G onset, as well as G level, was a very important factor in the effect of G on humans. It was obvious that the original centrifuge could not simulate the G onset rates of the newer high performance aircraft. In September 1984, the Brooks Air Force Base centrifuge was modified to boost the G onset rate from 1.5 G per second to 6 G per second and to update the control system and physiological monitoring equipment.

Scientists at the Human Systems Center have developed new protective equipment such as pressure breathing systems, an advanced anti-G suit and valve, physical conditioning programs to increase G tolerance and advanced straining techniques that pilots of the new high performance aircraft needed to survive and perform in the new high G environment. This centrifuge has also been used to train thousands of aeromedical specialists in the proper use of this equipment and techniques.

The HSC centrifuge has proven to be a valuable tool to the Air Force and is continuously used by researchers to investigate present and future areas of acceleration effects and protection not even conceivable to the early aviation cadets who flew out of Brooks Field during World War I.

To show Community support of Brooks/Kelly AFB write either:

- United States Congressman Frank Tejeda - 327 Cannon House Office Bldg., Washington, D.C. 20510.

- United States Senators Kay Bailey Hutchison or Phil Gramm - Senate Office Bldg., Washington, D.C. 20510.

San Antonio Express-News

A division
of The Hearst Corporation

Editorials

Brooks strategy a brilliant option

When Defense Secretary William Perry recommended to the Base Realignment and Closure Commission on Feb. 28 that Brooks AFB be closed, there was almost a sigh of relief: Better Brooks than Kelly, was the consensus.

Those who subscribed to that way of thinking — with the addendum to start exploring what to do with the 1,300-acre Brooks site — should think again: The local BRAC '95 Task Force has devised a common sense, fiscally sound defense of Brooks that the Air Force, BRAC and taxpayers should find enticing.

Essentially, the local strategy is to allow the Air Force to close Brooks, yet preserve a small cantonment area that would be attached to nearby Kelly AFB.

The plan would eliminate the base administration, the base exchange, golf course, clinic and other support facilities — approximately 400 civilian and military jobs. Seventy-five percent of the base's land would become available for reuse.

What would be preserved in the cantonment area are the Air Force School of Aerospace Medicine, one of its four "super labs," the Armstrong Laboratory, which Perry recommended moving to Ohio, and the Air Force Center for Environmental Excellence, destined for Florida under the '95 base closure plan.

The local option would keep some 3,000 jobs here, many of

them well-educated, well-paid people, who face being uprooted under the present base-closure strategy.

More important to taxpayers: Closing Brooks while keeping the missions here would save money. The Air Force estimated the cost of closing Brooks and relocating its missions would be \$185 million, resulting in \$142 million in savings over 20 years and a \$27.4 million annual recurrent saving.

The local BRAC task force contends its plan would cost but \$11 million to implement with savings over 20 years of \$301 million and \$21.6 million in annual savings.

In other words, the plan accomplishes the cost-saving; it maintains these missions in a city that is almost synonymous with the Air Force; and it does so with the least disruption to the missions and the missionaries.

Finally, keeping the missions here will allow the Air Force to use two new buildings presently under construction (which cost taxpayers \$15.2 million to build).

The BRAC staff will crunch the numbers and four BRAC commissioners will be here Thursday to tour Brooks. We think the city has done its homework and has given the BRAC a unique, sensible option. If it's a last best shot, it is a brilliant one.

National Aeronautics and
Space Administration
Headquarters
Washington, DC 20546-0001



APR 20 1985

Reply to Attn of:

U

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

Processing Unit
950426-17

Dear Senator Dixon:

Enclosed you will find a copy of a recent letter I sent to Brigadier General Robert Belihar, USAF, at the Brooks Air Force Base located in San Antonio, Texas.

The impending closure of three facilities at Brooks AFB -- namely the Armstrong Laboratories, the Human Systems Center, and the School of Aerospace Medicine -- is a source of great concern to NASA. The support that NASA receives from these facilities is vital to America's space program. I have enclosed a copy of my letter to General Belihar highlighting my concerns, as well as a copy of a letter from James Hickman, M.D., Col. USAF MC (Ret.).

Given the importance of these facilities to the U.S. space program, it is imperative that the impending changes in the location and structure of the Human Systems Center be carefully considered before any move is approved.

If you would like to discuss this matter further, please do not hesitate to contact me at (202) 358-0122.

Sincerely,

A handwritten signature in cursive script, appearing to read "Harry C. Holloway".

Harry C. Holloway, M.D.
Associate Administrator for
Life and Microgravity Sciences and Applications

Enclosures

Headquarters

Washington, DC 20546-0001



Reply to Attn of U

APR 7 1995

Robert Belihar, Brigadier General, USAF
Human Systems Center
2510 Kennedy Circle, Suite One
Brooks Air Force Base, Texas 78235-5120

Dear General Belihar:

It was with great concern that I recently learned of the Base Realignment and Closure Commission's recommendation to close Brooks Air Force Base located in San Antonio, Texas.

As you know, Brooks AFB plays a key role in many of the medical programs conducted by the National Aeronautics and Space Administration (NASA), particularly with the Johnson Space Center in Houston. The support we receive from the Armstrong Laboratories, the Human Systems Center, and the School of Aerospace Medicine has been instrumental in furthering our efforts in medical operations and research. The significant medical importance of these unique facilities and the technical expertise of their personnel are critical to the success of our human spaceflight program. I have attached a list of some of NASA's cooperative agreements with Brooks AFB; these clearly demonstrate the vital role that these three organizations play in the accomplishment of NASA's mission.

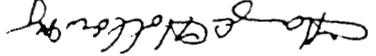
I am currently involved in an extended analysis of our own consolidation options. I have noted a tendency to underestimate the costs of moving research enterprises and facilities from site to site. Many assume that it is a simple matter to pack up a laboratory in one part of the country and move it to another. As a scientist who has run laboratories in the past, let me assure you that this is emphatically not the case. Moving a research enterprise is an extremely disruptive proposition. I would expect that it would take a period of years before the research program at Brooks would recover from a significant move. Productive research programs are thoroughly dependent on teams of experienced researchers, and such teams are inevitably destroyed when a research program is moved any significant distance.

As you consider the stream of over-head savings associated with a given consolidation option, I urge that you also consider the immediate and long term costs of a significant reduction in research productivity and the lost benefits associated with deferred progress in the outstanding research programs at Brooks. I anticipate that the cost to NASA will be heavy. NASA is depending on Brooks to provide timely research results as we work to bring orbital research into the Space Station era, and the inevitable lost time associated with a consolidation may carry a significant cost for the Space Program.

Given the importance of these facilities to the U.S. Space Program, it is imperative that the impending changes in the location and structure of the Human Systems Center be carefully considered before any move is approved. A full analysis of the costs of disrupting Brooks' research program is a difficult undertaking, not subject to a simple book-keeping approach. The value of research findings is difficult to anticipate, and the opportunity costs associated with deferring such findings is also very difficult to capture. One option for pursuing such an analysis would be to establish an impartial scientific panel to report on the scientific costs of the available options.

I would be more than happy to discuss this matter with you at any time. You can reach me at (202) 358-0122.

Sincerely,



Harry C. Holloway, M.D.
Associate Administrator,
Office of Life and Microgravity
Sciences and Applications

Attachment

HUMAN SYSTEMS CENTER, ARMSTRONG LABORATORY
BROOKS AIR FORCE BASE, TEXAS
MEDICAL COOPERATION AND SUPPORT TO NASA

1. Astronaut Selection. Armstrong Laboratory (AL) medical experts are routinely sent to NASA JSC to conduct the astronaut psychiatric and psychological aviator selection evaluation, to support the Astronaut Selection Panel, and to consult with NASA Medical Operations to review and update psychiatric standards and selection procedures.
2. Training of Astronauts for Shuttle Launch G-Profile. Tests are conducted at AL to provide Space Shuttle astronauts with +G centrifuge exposure which simulates the acceleration profile of the Space Shuttle's launch into Earth orbit. Up to 25 astronauts have been trained annually.
3. Prebreathe Protocols for EVA. Investigation of the causes and potential cures of decompression sickness caused by exposure to low ambient pressures. Development of prebreathe protocols for EVA and bend risk mitigation.
4. Effects of Microgravity on Astronaut Cognitive Performance. This cooperative NASA/USAF AL experiment was to determine the interactive effects of microgravity and fatigue on cognitive performance of three Shuttle crew astronauts during the flight of the Space Shuttle Columbia in July 1994. Follow-on studies for a June 1996 flight involve the interactive effects of fatigue, performance and microgravity.
5. Medical and Occupational Health Training. NASA Flight Surgeon training and NASA personnel training in substance abuse and other areas are provided by AL to JSC. Considerable cross-training is done between the two institutes.
6. Re-Entry Anti-G Suit Testing. Tests of extended coverage anti-G suit to provide protection for astronauts during the long, low-level G-profile encountered during Shuttle re-entry into Earth's atmosphere.
7. Visual Performance Degradation in Micro-Gravity. Astronaut reports of degraded near vision during space flight have raised concerns about visual performance of personnel working in space and next-generation ultra-high altitude aircraft. The Vision Function Tester, was flown aboard the Space Shuttle Endeavor in 1994. For the first time, recession of the visual near point in microgravity was demonstrated and quantified.
8. The Effects of Hyperbaric Oxygen and Gravity on Leukocytes, Apoptosis and Multidrug Resistance. Preliminary data obtained from an experiment on board STS-67 indicates that apoptosis (programmed cell death) may be responsible in-part for cellular atrophy in astronauts. In addition, data obtained from cells flown on STS-69

to determine how hyperbaric oxygen and low gravity may be used to identify mechanisms of multidrug resistance so that multidrug resistance found in cancer or bacteria cells may be reversed. Both these results are being investigated with follow-on studies planned.

9. Space Launch Risk Assessment. Improved computer modeling systems are being developed and used to estimate toxic corridors for normal and catastrophic abort scenarios. Enhancements to the existing models will provide more realistic toxic corridor estimation and should result in less frequent launch delays due to weather.

10. Microgravity on Cardiovascular Function. The primate facilities are used to answer critical questions. A non-human primate model instrumented with blood flow and pressure sensors was designed and developed to study the effects of altering gravity on cardiovascular function. Also, developing spaceflight experiments using this model with NASA and the Russians, and conducted experiments using this model in a head-down tilt configuration during parabolic flight in a KC-135 aircraft. These experiments will extend our knowledge about the mechanisms of blood pressure control by making measurements of cardiovascular responses that cannot be obtained in human subjects and using this information to develop countermeasures against adverse effects of spaceflight.

11. Exercise Countermeasures. AL is evaluating the use of a single bout of cycling that elicits maximal effort performed 24 hours prior to reentry. This approach would eliminate significant use of time, oxygen, energy (food) and water now required to support extensive periods of exercise during spaceflight. This exercise may also enhance blood pressure regulation and help eliminate the major problems with fainting following return from spaceflight. A protocol is being designed with JSC for a space flight experiment.

12. Other Medical and Scientific Collaboration. Participate with NASA on the Space Technology Interdependency Group (STIG), Co-Chair the STIG Operations Committee, which sponsored the Workshops on Space Operations Applications and Research (SOAR). These Conferences, held in Houston, are funded and Co-Chaired by AL and NASA/JSC. AL Personnel perform as members of NASA Medical and Scientific Working Groups and Review Committees, including Astronaut Selection Panel, Astronaut Selection Criteria Review, NASA Human Factors Discipline Working Group (DWG), NASA Musculoskeletal DWG, NASA Artificial Gravity WG, NASA Exercise Countermeasure Project Task Force, and NASA Peer Reviews - Human Factors, Space Physiology, Innovative Research, NIH-NASA Neurolab.

April 13, 1995

Defense Base Closure and Realignment
Commission
1700 North Moore Street
Suite 1425
Arlington, VA

SUBJECT: Closure and Realignment of Brooks AFB

1. I am James R. Hickman, Jr., M.D., Col. USAF MC (Ret.). Since my retirement in 1993 from the Armstrong Laboratory at Brooks AFB Texas, I have been a consultant in the Department of Internal Medicine at the Mayo Clinic with joint appointments in the Divisions of Preventive Medicine and Cardiovascular Disease. I am also a consultant in Aerospace Medicine. At the time of my retirement, I was completing a six-year tenure as the Chief of the Clinical Sciences Division, Aerospace Medical Directorate, Armstrong Laboratory. I am quite familiar with the USAF Biomedical Research Programs.
2. I implore you to postpone your decision to move the resources of the USAF School of Aerospace Medicine and the Armstrong Laboratory from Brooks AFB until you have received the advice and counsel of a panel of select scientists who can evaluate the impact of such a decision on the long-range health and productivity of this critical segment of our country's scientific capability.
3. Having carefully weighed the pending decision, I am convinced that the contemplated course of action will set back the USAF's sole aerospace medicine R&D capability by at least a decade, if not irrevocably. The ease with which a flying organization or a clerical unit can be relocated does not translate to the fragile environment of world class research organizations.
4. This letter does not afford the opportunity to do more than briefly outline concerns which are widely shared among scientists knowledgeable of this arena. Please consider the following:
 1. The Brooks complex is unarguably the closest aerospace medical counterpart to a Harvard or an MIT which the USAF has ever had. It takes decades to create a top quality scientific program, nurture long-term projects, create highly skilled successors, and mold the unit into a world class center. Regrettably, it is an established fact that the biomedical R&D organizations in the USAF have been in a state of continued turmoil and waning vigor for the past decade, largely due to declining funding, manning instability, and massive reorganizations produced by macro changes at the strategic level. Small, pristine scientific gems got caught up in major weapons system development restructuring at the highest levels, much to the detriment of highly productive and unique life sciences programs. The Brooks campus has been especially hard hit by almost continuous exposure to these forces. This analysis is not intended as a criticism of anyone--it is simply how things have turned out. Ten years ago, if one had wished to formulate a plan to fatally cripple the USAF's aerospace medicine capability, one would have instigated a decade of

continual reorganization, engaging the scientific personnel and their leaders in decisions ("take the vacancies", recurrent funding cuts, and leaving every scientific organization anemic and weakened rather than choosing a few vigorous survivors. At the end of this decade, one would then physically move the aerospace medicine organizations out of their facilities which were organically designed for the mission, fragment the teams, and then shoehorn the remnants into facilities designed for a different type of research. At the end of this decade, one would then also combine the inevitable disruptions and inefficiencies of geographic dislocation with the debilitating separation of the USAF aerospace medicine facilities from the San Antonio biomedical community. To obtain mandated savings, we have fostered expensive survival of weakened units--units which could be vigorous and productive for a small margin. But, we have spread around the cuts in a fashion which leaves many weak and few strong. Now, we are preparing to do it again. Where is your analysis of level field competition among R&D facilities, in order to identify the survivors? Under item 4(3) in this letter, you will learn that this competition has already been held, and apparently ignored. We are unwittingly following a disastrous blueprint. The Aerospace Medicine Programs at Brooks are viable, but will not survive the contemplated move in a state remotely similar to the international status which they have previously enjoyed. In many facets of life, timing is everything. In your current plan, a bad plan has been elevated to devastating proportions by deadly timing. This is not simply a pessimistic view--it is the realistic view of every seasoned scientist that I have queried. It is almost inconceivable that an insidious synonymous with world class excellence, upon whom our allies and the aviation world have depended so heavily, could have been handled in such a capricious manner, while organizations of less stature and accomplishment have been spared. It seems inconceivable that the USAFs aerospace medical capability could be virtually destroyed to save \$6 million a year for 20 years. Quite the contrary, the USAF and the DOD should be deeply concerned about the current state of operational medical research, given the challenges which the Gulf War, Grenada, and Panama demonstrated. If one wished to devise a plan today to strengthen and foster this critical mission, the last thing one would do would be to uproot the vital core elements. Your commission is preparing to make a decision which will have more impact on life sciences research in the USAF than any single decision in the history of this endeavor. The value of all facilities, materiel, and personnel must be translated into the total cost of producing the end product. Only the end product has intrinsic value. It is my belief that the projected savings will be dwarfed by the degradation of the scientific end product.

The combined expertise of the Brooks campus, Southwest Research, Willford Hall Medical Center, Brook Army Medical Center, the University of Texas Health Science Center at San Antonio, Johnson Space Center, and the Texas Medical Center at Houston represents the greatest concentration of aerospace medical talent and allied disciplines in the world. Wright-Patterson Air Force Base Medical Center is a good hospital. The Armstrong Laboratory at Wright-Patterson is an excellent human factors laboratory. Wright State University is a growing institution, but regrettably is not an institution of great distinction. At the risk of traveling, it must be pointed out that the Dayton and San Antonio complexes, in terms of the totality of aerospace medicine resources and distinction.

April 13, 1995

are in completely different leagues. The co-location of the Brooks campus and the Willford Hall Medical Center were not accidental. I urge you to review the careful thought which went into the creation of the former Aerospace Medical Division, and all of its implications for teaching, research, and care of the aircrew member. The critical adjacencies of the San Antonio complex are, and have been too valuable to sacrifice for the current projected savings. There is a history of great wisdom in the development of the San Antonio complex--it must not be sacrificed for fiduciary gains which are massively overshadowed by the long-term negatives of the proposed plan. San Antonio, Texas is the center of specialty training in Aerospace Medicine. The education of the Army and the Air Force residents in Aerospace Medicine, including some from Canada and other countries, revolves around the vibrant nature of the San Antonio medical complex. The first year of the Aerospace Medical Residency is a Masters in Public Health. The University of Texas Health Science Center at Houston. This allows many of the residents to complete all three years of training in one geographic location. The USAF Third Year Residency and the US Army Third Year Residency are heavily built around Kelly/WHMC and BAMC, respectively. Moving USAFSAM and the Aerospace Medical Consultation Service, which is pivotal to the education of the residents, out of San Antonio is a colossal mistake. But if it is moved, the residency must follow. You cannot move the faculty to Dayton, and leave the residency in San Antonio. At least six years of intensive effort and great expense have gone into a revised residency program which meets the needs of both the U.S. Air Force and the U.S. Army. Wright State University does offer a residency in Aerospace Medicine, but it is a civilian oriented program, not designed to turn out military flight surgeons. Further, the breadth and depth of facilities and talent available in the Dayton area simply do not compare to the San Antonio complex. The current plan for Brooks will have a huge regressive effect on the training of specialists in Aerospace Medicine. Further, I can envision hundreds of thousands of dollars annually in excess PCS moves and TDYs which will result from abandoning the cost effective adjacencies of San Antonio. Every facility at Brooks has been built with the referred aircrew member in mind. I have spent enough time at Wright-Patterson to tell you that such streamlining currently does not exist, and will represent a huge dollar cost to recreate. Travel in and out of San Antonio has become progressively easier for the 1000 or so aircrew members who come to the consultation from world-wide referrals. Dayton, Ohio, represents a significant step backwards in this regard.

The Aeromedical Consultation Service at Brooks evaluates aircrew referred world-wide with complex and obscure medical problems. Medical grounding of a USAF aircrew member is an instantaneous loss of somewhere between \$6 and \$13 million in training costs for the taxpayers. The Consultation Service was specifically designed for rapid and in-depth evaluation of aircrew by medical specialists also trained in Aerospace Medicine. It has taken over 30 years to create this center in its present form, and to mold this service into its inextricable relationships with Willford Hall and Brooke Army. The epidemiological approach to aircrew standards, using long-term studies, has netted savings of over \$750 million in the last 20 years. I urge you to have a formal briefing on this activity. It is housed in organic facilities--built for the purpose, and well integrated into all of the other Brooks laboratories. In 1990-91, Air Force Systems Command commissioned

independent scientific reviewers to examine every single USAF R&D activity. The final goal of the review was to report and identify for the Secretary of the Air Force the top two research and development programs in the entire USAF. The long-term epidemiological approach to aircrew standards in the Clinical Sciences Division at the Armstrong Laboratory was chosen as one of the Air Force's two top R&D technologies. The Clinical Sciences Division is internationally renowned for this activity. Virtually every aviation service in the world has relied upon Brooks for aircrew standards. This activity competed with programs costing several hundredfold, and won out on a level field, in the areas which really counted--mission relevance and technical excellence. I urge you to take a careful look at the operational cost of this unit and the return on investment. The data are available and well-documented. This research organization, like others at Brooks, has also been battered by the previously mentioned upheavals in Air Force R&D in recent years. I spent the majority of my professional career in this organization. This activity simply will not survive, much less retain its world class stature, if moved from Brooks and separated from the San Antonio arena. The proposed plan is a recipe for mediocrity. Long-term studies of 25-30 years' duration, in which millions have been invested, are coming to fruition. The potential dollar savings involved in selection and retention research are huge. I am completely convinced that the reversals and damage to this program will dwarf the envisioned savings when this activity is removed from San Antonio. The timing is simply devastating. I am mystified as to why we would gamble with the future, and the return on investment of the USAF's top R&D program. This program is one of the few money making propositions which the taxpayers actually have. Surely, the USAF's top R&D program, which is operated at very low expense, deserves more consideration than the purely materiel and personnel costs in the Brooks closing equation.

The belief that you will not create huge unrecognized cost in recreating these specialized laboratories, for the Clinical Sciences Division alone, suggests an unfamiliarity with the mission requirements and facilities. There may also be a belief that you can simply move the medical facilities to Wright-Patterson Air Force Base Medical Center. There is a long history which must be factored into such a decision, for there is a lengthy history to show that the USAF Medical Centers, because of their sick patient mission, have not been able to do the intensive immediate aircrew evaluations, or to maintain the long-term epidemiological research projects. I urge you to receive some briefings on painful lessons learned in this regard, before the mistakes are repeated. The crush of an ever increasing demand for sick patient treatment has never allowed the Air Force Medical Centers to primarily conduct these aerospace medical activities, and yet the San Antonio medical centers has been an invaluable partner in subspecialty evaluations such as neurosurgery, orthopedics, and multiple other areas. The medical center at Wright-Patterson actually sends complex cases to WHMC, not vice versa. In which locale would you place the Air Force Consultation Service for aircrew members?

The greatest future savings in aircrew research will come from selection research--medical outcome studies done on selectees who have undergone specialized examinations in a stratified selection process. Such research and development has previously never been feasible, because UPT candidates could be examined at over 200 locations, except for the Air Force Academy cadets who are all examined in one

April 13, 1995

It was virtually impossible to equip even a handful of specialized examina-
tion centers, much less 200. Further, TDY costs to specialized centers for
applicants was prohibitive. After 15 years of active evolution, the aircrew selection
mission is now possible, because all non-academy UPT candidates now come
through San Antonio for reasons independent of medical selection. Specialized
stratified selection started at Brooks in 1994. On the very threshold of an R&D
effort which can realistically save \$25-50 million annually in training costs, the
activity will be moved to Dayton, and this unparalleled opportunity will be lost.
Again, the timing is simply devastating. I would not sacrifice this selection
program for \$25 million a year, much less 56 million. Will we recreate a third
R&D unit in San Antonio, or send the aircrew applicants to Wright-Patterson, or
simply write off this initiative which has been 15 years in the planning? I urge you
to hear briefings on this subject. The destruction of this program alone will offset
any realignment savings.

I am deeply concerned that the damages to USAF Aerospace Medical R&D will be
profound, totally outweighing any proposed savings. I urge you to delay a
decision regarding Brooks until you can receive a thoughtful and in-depth review of
the scientific impact of the proposed plan. Senior aerospace medical scientists
throughout NATO are simply stunned that the USAF would close Brooks, a name
synonymous with international excellence. The scientific community is shocked at
what we are risking for ephemeral savings.

Lastly, the Department of Defense must demonstrate that excellence will not be
gambled for short-term paper savings. There is great sadness in offering up
a world leader in the name of projected savings which are not only debatable, but
are quite minimal in the overall picture within the Department of Defense. If any
facility has ever earned the right to exist, Brooks has. When we have killed the
international leader in the Aeromedical Sciences, we will have killed a portion of the
USAF's presage, world standing, and greatness. Every great organization needs to
preserve its finest.

Thank you for reading my letter.

Sincerely,

James R. Hickman, Jr., M.D., M.P.H.

JRH:cal



RESEARCH & CONSULTING
IN HEALTH SCIENCES

WILLIAM H. BAILEY, Ph.D.
LINDA S. ERDREICH, Ph.D.
DEBORAH F. WEIL, Ph.D.

BAILEY RESEARCH ASSOCIATES, INC.

292 MADISON AVENUE
NEW YORK, NY 10017
TELEPHONE (212) 686-1754
FACSIMILE (212) 686-6705

May 1, 1995

Mr. Paul Robertson, Chairman
(BRAC) - San Antonio
Chamber of Commerce, Greater San Antonio
PO Box 1628
San Antonio, TX 78296

Dear Chairman Robertson:

As a epidemiologist who specializes in health issues related to non ionizing electromagnetic fields (EMF), I grapple daily with scientific data gaps as well as questions from the public. I recently learned, to my distress, that BRAC is proposing to close Brooks Air Force Base and/or the Armstrong Laboratory.

Armstrong Laboratory is essential to the continued research into the health effects of EMF exposures at radiofrequencies. It is an established, functioning group of scientists who work together across disciplines to make important contributions to scientific research. In addition, these scientists interact with the scientific community, and have served in advisory capacities on a national and international level.

The research conducted at Armstrong Laboratory is directly related to many basic scientific questions related to current public health concerns. Resolving questions about public health depends on the complementary data from epidemiologic studies and laboratory research. To dismantle the collective expertise that has developed in this group would deter progress and I encourage you to prevent this.

Sincerely yours,

Linda S. Erdreich, Ph.D.
Principal Scientist

LSE/lh

National Aeronautics and
Space Administration
Headquarters
Washington, DC 20546-0001



Reply to Attn of: U

Robert Belihar, Brigadier General, USAF
Human Systems Center
2510 Kennedy Circle, Suite One
Brooks Air Force Base, Texas 78235-5120

APR 7 1995

Dear General Belihar:

It was with great concern that I recently learned of the Base Realignment and Closure Commission's recommendation to close Brooks Air Force Base located in San Antonio, Texas.

As you know, Brooks AFB plays a key role in many of the medical programs conducted by the National Aeronautics and Space Administration (NASA), particularly with the Johnson Space Center in Houston. The support we receive from the Armstrong Laboratories, the Human Systems Center, and the School of Aerospace Medicine has been instrumental in furthering our efforts in medical operations and research. The significant medical importance of these unique facilities and the technical expertise of their personnel are critical to the success of our human spaceflight program. I have attached a list of some of NASA's cooperative agreements with Brooks AFB; these clearly demonstrate the vital role that these three organizations play in the accomplishment of NASA's mission.

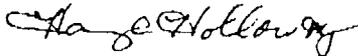
I am currently involved in an extended analysis of our own consolidation options. I have noted a tendency to underestimate the costs of moving research enterprises and facilities from site to site. Many assume that it is a simple matter to pack up a laboratory in one part of the country and move it to another. As a scientist who has run laboratories in the past, let me assure you that this is emphatically not the case. Moving a research enterprise is an extremely disruptive proposition. I would expect that it would take a period of years before the research program at Brooks would recover from a significant move. Productive research programs are thoroughly dependent on teams of experienced researchers, and such teams are inevitably destroyed when a research program is moved any significant distance.

As you consider the stream of over-head savings associated with a given consolidation option, I urge that you also consider the immediate and long term costs of a significant reduction in research productivity and the lost benefits associated with deferred progress in the outstanding research programs at Brooks. I anticipate that the cost to NASA will be heavy. NASA is depending on Brooks to provide timely research results as we work to bring orbital research into the Space Station era, and the inevitable lost time associated with a consolidation may carry a significant cost for the Space Program.

Given the importance of these facilities to the U.S. Space Program, it is imperative that the impending changes in the location and structure of the Human Systems Center be carefully considered before any move is approved. A full analysis of the costs of disrupting Brooks' research program is a difficult undertaking, not subject to a simple book-keeping approach. The value of research findings is difficult to anticipate, and the opportunity costs associated with deferring such findings is also very difficult to capture. One option for pursuing such an analysis would be to establish an impartial scientific panel to report on the scientific costs of the available options.

I would be more than happy to discuss this matter with you at any time. You can reach me at (202) 358 0122.

Sincerely,



Harry C. Holloway, M.D.
Associate Administrator,
Office of Life and Microgravity
Sciences and Applications

Attachment

HUMAN SYSTEMS CENTER, ARMSTRONG LABORATORY
BROOKS AIR FORCE BASE, TEXAS
MEDICAL COOPERATION AND SUPPORT TO NASA

1. Astronaut Selection. Armstrong Laboratory (AL) medical experts are routinely sent to NASA JSC to conduct the astronaut psychiatric and psychological aviator selection evaluation, to support the Astronaut Selection Panel, and to consult with NASA Medical Operations to review and update psychiatric standards and selection procedures.
2. Training of Astronauts for Shuttle Launch G-Profile. Tests are conducted at AL to provide Space Shuttle astronauts with +Gx centrifuge exposure which simulates the acceleration profile of the Space Shuttle's launch into Earth orbit. Up to 25 astronauts have been trained annually.
3. Prebreathe Protocols for EVA. Investigation of the causes and potential cures of decompression sickness caused by exposure to low ambient pressures. Development of prebreathe protocols for EVA and bend risk mitigation.
4. Effects of Microgravity on Astronaut Cognitive Performance. This cooperative NASA/USAF AL experiment was to determine the interactive effects of microgravity and fatigue on cognitive performance of three Shuttle crew astronauts during the flight of the Space Shuttle Columbia in July 1994. Follow on studies for a June 1996 flight involve the interactive effects of fatigue, performance and microgravity.
5. Medical and Occupational Health Training. NASA Flight Surgeon training and NASA personnel training in substance abuse and other areas are provided by AL to JSC. Considerable cross-training is done between the two institutes.
6. Re-Entry Anti-G Suit Testing. Tests of extended coverage anti-G suit to provide protection for astronauts during the long, low-level G profile encountered during Shuttle re-entry into Earth's atmosphere.
7. Visual Performance Degradation in Micro-Gravity. Astronaut reports of degraded near vision during space flight have raised concerns about visual performance of personnel working in space and next-generation ultra-high altitude aircraft. The Vision Function Tester, was flown aboard the Space Shuttle Endeavor in 1994. For the first time, recession of the visual near point in microgravity was demonstrated and quantified.
8. The Effects of Hyperbaric Oxygen and Gravity on Leukocytes, Apoptosis and Multidrug Resistance. Preliminary data obtained from an experiment on board STS-67 indicates that apoptosis (programmed cell death) may be responsible in part for cellular atrophy in astronauts. In addition, data obtained from cells flown on STS-69

to determine how hyperbaric oxygen and low gravity may be used to identify mechanisms of multidrug resistance so that multidrug resistance found in cancer or bacteria cells may be reversed. Both these results are being investigated with follow on studies planned.

9. Space Launch Risk Assessment. Improved computer modeling systems are being developed and used to estimate toxic corridors for normal and catastrophic abort scenarios. Enhancements to the existing models will provide more realistic toxic corridor estimation and should result in less frequent launch delays due to weather.

10. Microgravity on Cardiovascular Function. The primate facilities are used to answer critical questions. A non-human primate model instrumented with blood flow and pressure sensors was designed and developed to study the effects of altering gravity on cardiovascular function. Also, developing spaceflight experiments using this model with NASA and the Russians, and conducted experiments using this model in a head-down tilt configuration during parabolic flight in a KC-135 aircraft. These experiments will extend our knowledge about the mechanisms of blood pressure control by making measurements of cardiovascular responses that cannot be obtained in human subjects and using this information to develop countermeasures against adverse effects of spaceflight.

11. Exercise Countermeasures. AL is evaluating the use of a single bout of cycling that elicits maximal effort performed 24 hours prior to reentry. This approach would eliminate significant use of time, oxygen, energy (food) and water now required to support extensive periods of exercise during spaceflight. This exercise may also enhance blood pressure regulation and help eliminate the major problems with fainting following return from spaceflight. A protocol is being designed with JSC for a space flight experiment.

12. Other Medical and Scientific Collaboration. Participate with NASA on the Space Technology Interdependency Group (STIG), Co-Chair the STIG Operations Committee, which sponsored the Workshops on Space Operations Applications and Research (SOAR). These Conferences, held in Houston, are funded and Co-Chaired by AL and NASA/JSC. AL Personnel perform as members of NASA Medical and Scientific Working Groups and Review Committees, including Astronaut Selection Panel, Astronaut Selection Criteria Review, NASA Human Factors Discipline Working Group (DWG), NASA Musculoskeletal DWG, NASA Artificial Gravity WG, NASA Exercise Countermeasure Project Task Force, and NASA Peer Reviews - Human Factors, Space Physiology, Innovative Research, NIH-NASA Neurolab.

TEL AVIV UNIVERSITY



אוניברסיטת תל-אביב

SACKLER FACULTY OF MEDICINE
CHAIM SHEBA MEDICAL CENTER, ISRAEL
MAURICE AND GABRIELA GOLDSCHLEGER EYE RESEARCH INSTITUTE

הפקולטה לרפואה ע"ש סאקלר
המרכז הרפואי ע"ש חיים שיבא
המכון לחקר העין ע"ש מוריס וגבריא גולדשלגער

TEL: 03-6358829 '70

April 19th, 1995

Mr. Paul Roberson, Chairman,
BRAC - San Antonio,
Chamber of Commerce, Greater San Antonio,
P.O. Box 1638,
San Antonio,
TX 78296,
U.S.A.

Dear Sir,

It is with great consternation that I recently heard that the U.S. Army Laser Laboratory currently in Brooks AFB in San Antonio is liable to be relocated again as part of the ongoing BRAC efforts.

I have been closely associated with this laboratory for nearly twenty years and, knowing the scientific and personnel situation there, I must register a strong protest and warning against moving it again.

The reasons for my strong misgivings regarding this ominous possibility are as follows:

1. The military problems engendered by the use of laser as very effective long-range weapons aimed at blinding soldiers has become common knowledge. The threat is so dire that the Red Cross is attempting to pass a resolution forbidding the use of such weapons, on par with nuclear, chemical and biological warfare. This ban is highly unlikely to be effective since laser technology is driven by civilian industry for civilian purposes and all the potential weapon user has to do is to buy it off-the-shelf. If you are interested in the subject, it is detailed in a recently published book entitled "Laser Weapons" by Wolbarsht and Anderberg. The bottom line is that laser weapons are a serious present-day threat for the U.S. Military. It will also be a civilian threat when terrorists purchase lasers for their purposes.
2. The U.S. Army Laser Laboratory (U.S. Army Medical Research and Development Detachment located in Building 176 at Brooks Air Force Base) is the only laboratory in the world researching the treatment of laser-induced eye injuries. There is no present-day treatment for those potentially blinding wounds. The laboratory's scientists are on the verge of developing practical treatment for such injury and thus will save not only eyesight of soldiers which will be impaired in future military conflicts, but also that people who are often nowadays injured in industrial and laboratory accidents.
3. This laboratory is also the only one in the world that specializes in the evaluation of such casualties.

- 2 -

4. This laboratory is also the source of the basic data required for the establishment of safety criteria for laser use. The data accumulated and published by its staff is used worldwide for the formulation of regulations for safe employment of laser instruments in all walks of life, civilian and military.

5. The work of the laboratory was interrupted and stopped for about two years when they moved from San Francisco to San Antonio. Even if one disregards the human costs and expenses incurred by moving such a laboratory, the impact of the idleness which will be forced again upon the laboratory by another move will unacceptably retard the state of readiness of the U.S. military forces. Please bear in mind that they have just begun to research again after the last move.

6. Furthermore, I doubt that most of the personnel in this laboratory (or their families) will agree to another translocation. Thus the U.S. military (and the world) will lose the best research team in this field. This loss, which will be unremediable, will set back the research efforts in this field for very many years.

In view of all the above, I suggest and hope that you will object to and oppose moving the U.S. Army Medical Research Detachment from their present location.

Sincerely yours,


Michael Belkin, M.A., M.D.
Professor of Ophthalmology



TEL AVIV UNIVERSITY אוניברסיטת תל-אביב

SACKLER FACULTY OF MEDICINE
CHAIM SHEBA MEDICAL CENTER, ISRAEL
MAURICE AND GABRIELA GOLDSCHLEGGER EYE RESEARCH INSTITUTE

הפקולטה לרפואה (י"ש מאג"ר)
המרכז הרפואי ע"ש חיים שיבא
המכון לחקר העין ע"ש מוריס גבריאלה גולדשלגר

TEL. 03-6358829 70

April 19th, 1995

Mr. Paul Roberson, Chairman,
BRAC - San Antonio,
Chamber of Commerce, Greater San Antonio,
P.O. Box 1638,
San Antonio,
TX 78296,
U.S.A.

Dear Sir,

It is with great consternation that I recently heard that the U.S. Army Laser Laboratory currently in Brooks AFB in San Antonio is liable to be relocated again as part of the ongoing BRAC efforts.

I have been closely associated with this laboratory for nearly twenty years and, knowing the scientific and personnel situation there, I must register a strong protest and warning against moving it again.

The reasons for my strong misgivings regarding this ominous possibility are as follows:

1. The military problems engendered by the use of laser as very effective long-range weapons aimed at blinding soldiers has become common knowledge. The threat is so dire that the Red Cross is attempting to pass a resolution forbidding the use of such weapons, on par with nuclear, chemical and biological warfare. This ban is highly unlikely to be effective since laser technology is driven by civilian industry for civilian purposes and all the potential weapon user has to do is to buy it off-the-shelf. If you are interested in the subject, it is detailed in a recently published book entitled "Laser Weapons" by Wolbarsht and Anderberg. The bottom line is that laser weapons are a serious present-day threat for the U.S. Military. It will also be a civilian threat when terrorists purchase lasers for their purposes.
2. The U.S. Army Laser Laboratory (U.S. Army Medical Research and Development Detachment located in Building 176 at Brooks Air Force Base) is the only laboratory in the world researching the treatment of laser-induced eye injuries. There is no present-day treatment for those potentially blinding wounds. The laboratory's scientists are on the verge of developing practical treatment for such injury and thus will save not only eyesight of soldiers which will be impaired in future military conflicts, but also that people who are often nowadays injured in industrial and laboratory accidents.
3. This laboratory is also the only one in the world that specializes in the evaluation of such casualties.

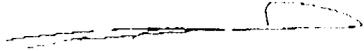
4. This laboratory is also the source of the basic data required for the establishment of safety criteria for laser use. The data accumulated and published by its staff is used worldwide for the formulation of regulations for safe employment of laser instruments in all walks of life, civilian and military.

5. The work of the laboratory was interrupted and stopped for about two years when they moved from San Francisco to San Antonio. Even if one disregards the human costs and expenses incurred by moving such a laboratory, the impact of the idleness which will be forced again upon the laboratory by another move will unacceptably retard the state of readiness of the U.S. military forces. Please bear in mind that they have just begun to research again after the last move.

6. Furthermore, I doubt that most of the personnel in this laboratory (or their families) will agree to another translocation. Thus the U.S. military (and the world) will lose the best research team in this field. This loss, which will be unremediable, will set back the research efforts in this field for very many years.

In view of all the above, I suggest and hope that you will object to and oppose moving the U.S. Army Medical Research Detachment from their present location.

Sincerely yours,


Michael Belkin, M.A., M.D.
Professor of Ophthalmology

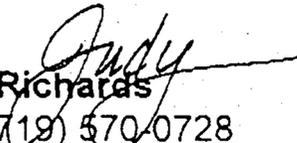
PH: 01 705 1244PM
May 1, 1995

PLEASE DELIVER TO:

The Honorable Alan Dixon, Chairman
The Honorable Rebecca Cox, Member
The Honorable S. Lee Kling, Member

Please refer to this number
when responding 950502-5

FROM:


Judy Richards
FAX (719) 570-0728

I believe the attached resolution has merit on an issue you may be presently considering.

Since you are the Commission members most likely to have expertise in this particular area, I have been asked to forward this to you for your consideration.

I believe your work is vital to the long term strength of our national defense. Towards that end I wish you well as you contemplate the many significant and complex issues facing the Department of Defense.

THIS FAX CONTAINS THREE (3) PAGES TOTAL

The Defense Base Closure and Realignment Commission

Commission Resolution

Jointly introduced by Ms. Rebecca Cox and Mr. S. Lee Kling, Members

May 1, 1995

WHEREAS, The Nation's environmental security interests are constantly changing in response to changing national conditions and threats; and

WHEREAS, The Base Closure and Realignment Act empowers the Defense Base Closure and Realignment Commission to articulate, analyze, and consider new choices for Department of Defense (DoD) base closures and realignments; and

WHEREAS, In September 1993, the California Assembly and Senate passed a joint resolution (AJR No. 29) supporting an environmentally compatible alternative to satisfying the Army's National Training Center (NTC) requirement for additional maneuver land; and

WHEREAS, In August 1994 California Senators Feinstein and Boxer announced the Southwest Training Complex, a program to consolidate and better coordinate the use of DoD's training and testing assets in southern California, in order to strengthen the Service's ability to perform their respective missions while confirming those land and airspace resources to DoD; and

WHEREAS, Excess capacity at missile ranges in Florida, Arizona, and the Pacific Ocean can accommodate any displacement in missile testing from Mojave Range B (China Lake); and

WHEREAS, The NTC's land acquisition requirement can be largely satisfied through a combination of its use of China Lake land and the conservative acquisition of Silurian Valley lands; and

WHEREAS, Such joint use would substantially reduce DoD acquisition costs presently estimated at \$50 million dollars in the Silurian Valley; now therefore, be it

Resolved by the Defense Base Closure and Realignment Commission, That the Commission acknowledges and supports the Army's need to obtain additional land for maneuver training use; and be it further

Resolved by the Defense Base Closure and Realignment Commission. That the Commission acknowledges and supports the Navy's testing mission at the Naval Air Weapons Station, China Lake; and be it further

Resolved. That the Defense Base Closure and Realignment Commission concurs with the goal of minimizing the commitment of resources for the acquisition of public and private lands when existing DoD lands are readily available; and be it further

Resolved. That the Defense Base Closure and Realignment Commission endorses the Army's joint use of Mojave Range B as part of an alternative that best balances the requirements of mission needs and cost-effectiveness for the taxpayers; and be it further

Resolved. That the Defense Base Closure and Realignment Commission will now evaluate, analyze, investigate, and consider the possible realignment of the Naval Air Weapons Station, China Lake in order to permit joint use by the Army's National Training Center, Fort Irwin on a time-share basis.

STEDP-TD

03 MAY 95

MEMORANDUM FOR Defense Base Closure and Realignment Commission, ATTN: Les
Farrington

SUBJECT: List for Thank You Notes

1. Following is a list of names for SAB:

STEDP-PO ATTN: Gale Chapin and staff
LARRY AINSWORTH
321st MEDICAL DETACHMENT RESERVE/US ARMY RESERVISTS
STEDP-TD-BU ATTN: Ms. Sandra Andrus
STEDP-WD-C ATTN: Dr. Bill Dement
STEDP-WD-L ATTN: Dr. John Middlebrook
STEDP-WD-P ATTN: Mr. Dennis Bodrero
STEDP-WD-C-CF ATTN: Mr. Gary Bodily
NAGE R14-9 ATTN: Mr. Mike LeFevre
STEDP-CA ATTN: Mr. Stu Soffer
CO ATTN: Ms. Wendy Harn
WDTC ATTN: Ms. Elaine Smith
WDTC ATTN: Ms. Deb Zumwalt
WDTC ATTN: CPT Terrie Makara
WD-L ATTN: Ms. Bonnie Rupp
WDTC ATTN: Ms. Effie Rome
ATTN: Ms. Pat Snyder
PROTOCOL ATTN: SFC Betty Creach
HST
STEDP-CA ATTN: All Staff
Dugway High School
Dugway Booster Club
Dugway PTA
STEDP-CA-FSD ATTN: Ms. Vera Zaccardi & Staff
Utah National Guard Flight Crew

2. Following is the address that can be used to send all thank you notes:

Commander
US Army Dugway Proving Ground
"addressee's name goes here"
Dugway, UT 84022-5000

3. POC is the undersigned, x5699.


SANDRA ANDRUS
BRAC Coordinator

THE GREATER SAN ANTONIO CHAMBER OF COMMERCE

Fax Transmission

TO: Mr. Jamington 703 696 0550
 Name Fax Number
BRAC Staff 5/1/95
 Organization Date

- From:
- Tullos Wells, Chairman of the Board - 229-2128
 - Joe Krier, President - 229-2128
 - Frances Wright Collins, Exec. Vice President - 229-2111
 - Jose Trujillo, Director of Operations - 229-2109
 - Lloyd Cunningham, VP-Information Systems - 229-2126
 - Patti Larsen, VP-Communications - 229-2112
 - Bill Mock, VP-Small Business - 229-2132
 - Toni Renfrow, VP-Special Events - 229-2129
 - Paul Roberson, Sr. VP-Military Affairs, BRAC - 229-2124
 - Tris Casteneda, VP-Governmental Affairs - 229-2162
 - Doug Williams, VP-Military Affairs - 229-2148
 - Richard Heard, VP-Membership - 229-2160
 - Dominick Pisano, Dir. Bus. Retention & Expansion - 229-2106
 - Jackie Craver, Vice President-Major Industry - 229-2114

NUMBER OF PAGES INCLUDING COVER SHEET: 3

COMMENTS OR INSTRUCTIONS: _____



DEPARTMENT OF THE AIR FORCE
HEADQUARTERS UNITED STATES AIR FORCE

15 JUN 1995

MEMORANDUM FOR BASE CLOSURE COMMISSION (Mr. Francis A. Cirillo, Jr.)

FROM: HQ USAF/RT

SUBJECT: Brooks AFB Closure's Military Value to the Air Force

This responds to your verbal request for comments on the attached point paper: "Does it represent an Air Force position?" We performed no analysis by criteria on particular relocation scenarios; but, the overall thrust of the point paper is correct. Our analysis clearly resulted in a high (Tier I) rating for Wright-Patterson AFB and a relatively low (Tier III) rating for Brooks AFB based on all eight DoD criteria. Brooks was the lowest rated in its category for the product center/laboratory mission effectiveness sub-element under Criterion I.

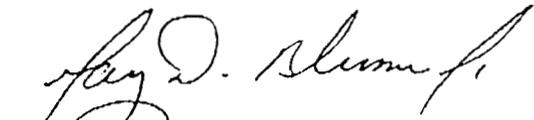
From every analysis, the closure of Brooks AFB is well-supported. Moreover, movement of its principal activities to Wright-Patterson AFB produces an abundance of advantages as detailed in the point paper. Collocation of the Human System Research, Development, and Acquisition (RD&A) with our air vehicle RD&A establishes Wright-Patterson AFB as the largest and most capable RD&A complex in the free world.

Some additional points should also be addressed. This collocation will provide our human system and air vehicle scientists, engineers, and other laboratory and acquisition personnel an opportunity for career growth in breadth by rotating among a greater variety of job opportunities offered by Wright-Patterson AFB. We can reap the full benefits of the synergy for the "man/machine interface" at one location. We cannot simply afford to retain our current infrastructure and expect the same quality of service from our RD&A folks as their personnel base diminishes in size.

Perhaps just as importantly, based on the questions posed by the Commissioners during the 14 June hearing, we need to stress that the cantonment option of Brooks AFB is unacceptable apart from any consideration of the move to Wright-Patterson. It seems to be viewed as a "cash cow" to supply funds for a depot closure. We object strenuously to this proposal because it is faulty from a practical standpoint. As you know, remote support of a major installation has been tried and doesn't work! The Air Force feels that the cantonment option would simply create a long-term, unacceptable situation. If the Commission retains Brooks AFB just to fund another action, then it must recognize that it is avoiding an extremely appropriate, operationally sound closure with significant reductions in infrastructure, reduction of excess product center/laboratory capacity by sharing facilities at Wright-Patterson, and significant annual savings.

If that is the judgment of the Commission, the Air Force should not have to endure an unsound cantonment plan that basically closes nothing. Indeed, I suspect this notion would soon collapse and base operating support would be added back to Brooks in future years. It would be better, in the view of the Air Force, to simply leave Brooks AFB open rather than to approve the cantonment option, and I request this view be communicated to the Commission.

I trust this information will be responsive to your request. Maj Michael Wallace, 695-6766, is my point of contact.


JAY D. BLUME, Jr., Maj Gen, USAF
Special Assistant to the Chief of Staff
for Realignment and Transition

Attachments:

1. Brooks AFB, TX Point Paper (HQ AFMC FAX date 5 Jun 95)
2. Air Force BCEG Minutes from 19 Oct 94, and 20 Oct 94 (W/O Atchs)

**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 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..

JUN 5 '95 12:35 FROM HQ AFMC/XP

*Chapter 3**The Selection Criteria*

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 +
Huntscom AFB	Red	Green -	Yellow +	Red +	421/-158	9	18,769 (1.0%)*	Green -	Yellow +
Kirland 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 -
Route 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 -

UNCLASSIFIED

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

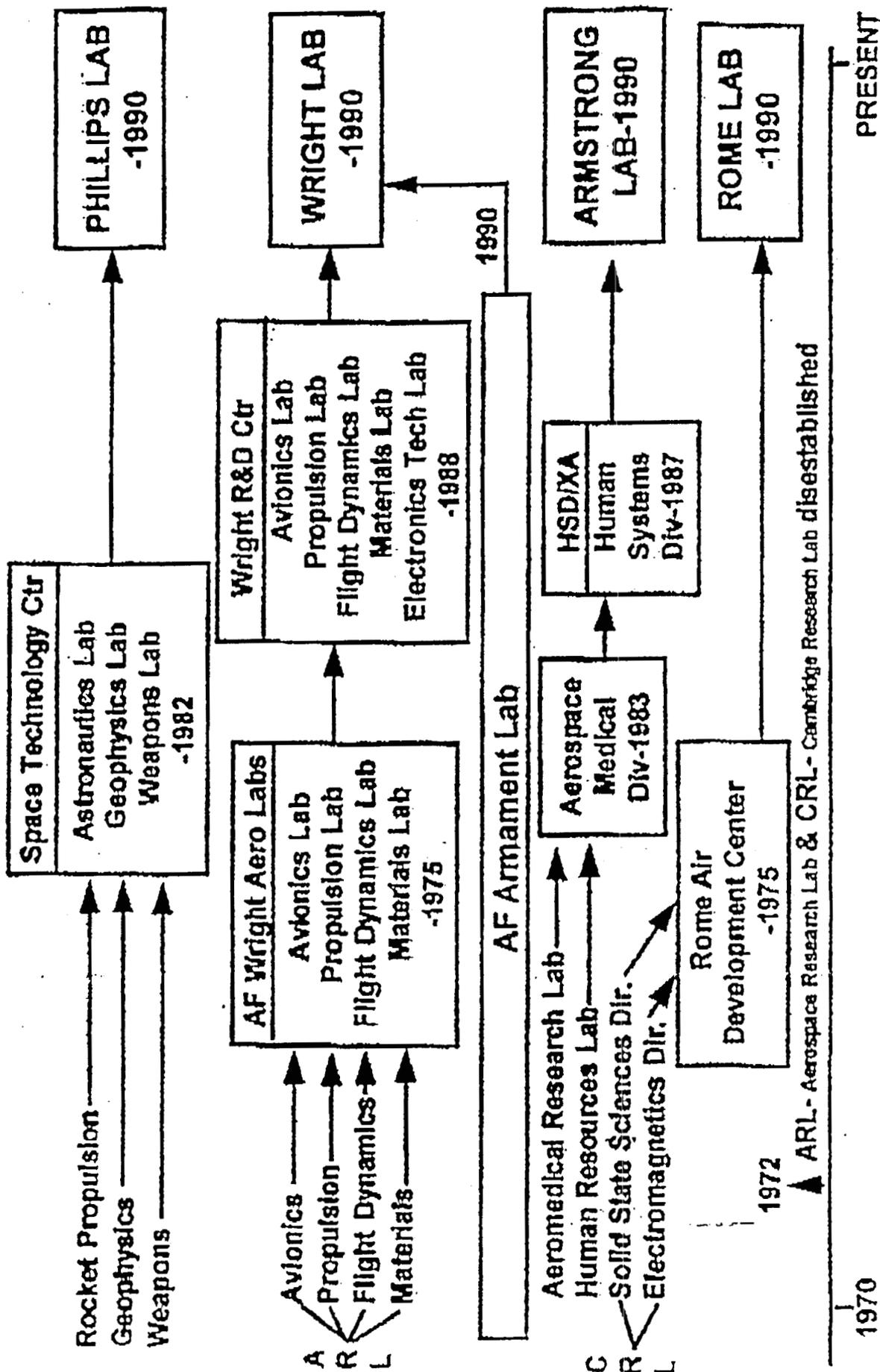
- Brooks AFB

Appendix 9 61

UNCLASSIFIED

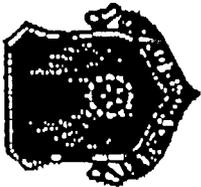
ATCH 1

AF LAB CONSOLIDATIONS



6/31

Dayton Region -- Biomedical Center of Excellence

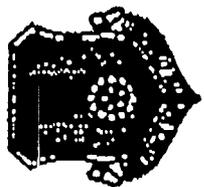


BRAC '95

- 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

ATCH 3

6/7/95



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



June 14, 1995

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

*Information Copy
Sent to all
Commissioners
6/14*

Dear Chairman Dixon:

We greatly appreciate the attention of the Defense Base Closure and Realignment Commission and its staff to our presentations in Birmingham and Atlanta on behalf of Homestead Air Reserve Base.

Our presentation clearly demonstrates that the Base represents an irreplaceable and valuable piece of real estate for the nation due to its strategic location; its dual-use airfield; its 11,200 foot runway; its funded facilities program; its exemplary capacity for training and contingency operations; its designation as one of Secretary Perry's model bases; and, most importantly, its cost effectiveness.

The community and Homestead Air Reserve Base are also poised for the future to meet America's defense and peacekeeping missions. The Base's new state-of-the-art air traffic control tower is nearing completion. Real estate and infrastructure are also presently available for beddown of KC-135 and/or C-130 aircraft, in addition to the F-16's. Such an enhanced military presence would be welcomed by our community.

As cited in your March 1995 report, "Each potential recommendation is measured by published criteria, which give priority first to military value, then to cost savings and to the economic and other impacts upon local communities." Homestead Air Reserve Base positively meets not only the military but also the cost saving and economic criteria. Please consider these factors as the deliberations are proceeding. Thank you.

Sincerely,

David R. Weaver
Convening Chairman



DEPARTMENT OF THE AIR FORCE
HEADQUARTERS UNITED STATES AIR FORCE

16 JUN 1995



MEMORANDUM FOR BASE CLOSURE COMMISSION (Mr. Francis A. Cirillo, Jr.)

FROM: HQ USAF/RT

SUBJECT: Additional Brooks AFB Information (RT Tasker 594)

177

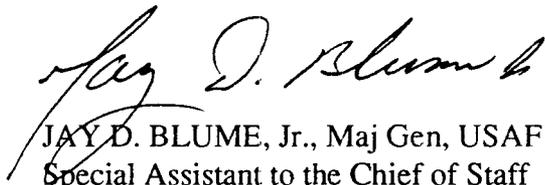
This responds to your FAX request (9500609-7) of June 9, 1995 regarding additional information on the Brooks AFB recommendation, especially on how the manpower savings were obtained and how "Dorn" cuts were applied. The attached information is provided to assist your analysis. Please note the project order sheets are in Then Year Dollars which will be higher than the numbers used in COBRA due to adjustments for inflation.

We need to further address the "Dorn" reductions. Both closures (Rome Lab and Brooks AFB) used the same approach. The "Dorn" reductions were applied based on the review of the site survey teams. Upon consideration, the Air Force determined that personnel authorizations that would be eliminated prior to completion of the BRAC action would not be moved to a new location. The "Dorn" reductions were not taken as BRAC related savings, they were taken as a force structure change prior to the BRAC action. The reduction in personnel authorizations was distributed based on the following calculation:

Non-savings "Dorn" reductions = [Undistributed reduction (PB 1996-2001) in personnel authorizations - Known specific reduction actions (e.g., F-111, BRAC closure eliminations] * (Total base population/Total AFMC population)

The personnel savings for Brooks AFB were based on the standard Air Force methodology to determine the base operating support savings of 422. The remaining personnel savings of 84 are attributed to consolidating Human System Center (formerly at Brooks AFB) with Aeronautical System Center and Human System Institute at Wright-Patterson AFB.

I trust this information will be responsive to your request. Maj Michael Wallace, 695-6766, is my point of contact.


JAY D. BLUME, Jr., Maj Gen, USAF
Special Assistant to the Chief of Staff
for Realignment and Transition

Attachments:

1. Manpower Sheets on Brooks AFB Closure
2. Additional Brooks AFB Closure COBRA-related Information

BRAC95 MANPOWER IMPACT WORKSHEET

BASE: BROOKS

CLOSURE

	<u>OFF</u>	<u>AMN</u>	<u>CIV</u>	<u>ACTIVE</u>	<u>DRILL</u>	<u>TOTAL</u>	<u>COMMENTS</u>
ADJUSTED BASELINE POPULATION	827	1,110	1,445	3,382	38	3,420	
MISSION & BOS TO REALIGN	765	812	1,215	2,792	38	2,830	
MANPOWER IMPACTS							
Move Armstrong Lab	-231	-357	-427	-1015	0	-1015	less 42 consolidation, 99 Dom
BOS tail	-1	-23	-67	-91	0	-91	
Move Human Sys Center (incl med school)	-223	-139	-181	-543	0	-543	less 174 support embedded in HSC
BOS tail	0	-12	-36	-48	0	-48	23 consolidation, 22 medical supply
<i>AL & HSC consolidation savings (per AFMC)</i>	0	0	-76	-76	0	-76	42 AL, 23 HSC, 10 med supply
<i>BOS tail savings</i>	0	-2	-5	-7	0	-7	
Medical supply manpower retained (DHP) <i>6025 w/HSE</i>	0	0	-12	-12	0	-12	12 DHP in med supply
<i>BOS tail savings</i>	0	0	-1	-1	0	-1	
Move 615 School Sq to Wright-Pat	-16	-4	-13	-33	0	-33	
BOS tail	0	-1	-2	-3	0	-3	
Move 68 Intel Sq (AIA) to Medina (Lackland)	-4	-127	0	-131	0	-131	
BOS tail	0	-3	-9	-12	0	-12	
Move 710th Intel Flight (AFRES) to Medina (Lackland)	0	0	-2	-2	-38	-40	
BOS tail	0	0	-1	-1	0	-1	
Move Center for Environmental Excellence	-47	-2	-286	-335	0	-335	
BOS tail	0	-7	-20	-27	0	-27	
Move medical agencies	-35	-6	-44	-85	0	-85	
BOS tail	0	-2	-6	-8	0	-8	
Move other units (OSI, AFBCA, DFAS, etc.)	-2	-7	-8	-17	0	-17	
BOS tail	0	0	-1	-1	0	-1	
Students & BOS tail to move <i>TO WPAFB</i>	-206	-120	-18	-344	0	-344	
Support manpower retained	-26	-89	-53	-168	0	-168	
Estimated closure savings	36	209	177	422	0	422	
TOTAL SAVINGS (INCL CONSOLIDATION)	36	211	259	506	0	506	

AL (W/FM/PK MATRIX AND SAVINGS) AUTHORIZATIONS TO TRANSFER TO WPAFB

	<u>OFF</u>	<u>ENL</u>	<u>CIV</u>	<u>TOTAL</u>	<u>COMMENTS</u>
BASELINE (EOM AUG 94 UMD)	227	356	561	1144	
UMD ADJUSTMENTS	0	0	-54	-54	TRANSFER MEDSITE TO YA CIV PROGRAM ADJUSTMENT
	0	0	6	6	
	4	1	7	12	
TOTAL AUTHORIZED	231	357	520	1108	
MATRIXED FROM FM	0	0	18	18	
MATRIXED FROM PK	3	0	19	22	
TOTAL MATRIXED	3	0	37	40	
TOTAL (AL W/FM/PK MATRIX AT HSC)	234	357	557	1148	
LESS MATRIXED TRANSFERRED TO ASC	-3	0	-37	-40	
AL CONSOLIDATION SAVINGS (SD GRAPHICS, PHOTO, ETC.)	0	0	-42	-42	
AL HSI (AT WPAFB)	231	357	478	1066	

HQ HSI (AT WPAFB)

HQ HUMAN SYSTEMS	OFF	ENL	CIV	TOTAL
IISC/CC, CCE, CCEA	3	2	1	6
CD	0	0	2	2
CCP	0	0	1	1
CMS	0	1	0	1
CCX	4	0	2	6
XP	0	0	5	5
XR	12	0	11	23
SUBTOTAL HQ	19	3	22	44

HOME OFFICE ACQ/LAB SUPPORT

	EM			
FM	1	0	7	8
JA	0	0	8	8
PK	3	1	0	4
QI	0	0	7	7
SE	0	0	1	1
	0	0	2	2
	4	1	25	30
SUBTOTAL HOME OFC SPT	4	1	25	30
TOTAL	23	4	47	74

YA (W/FM/PK MATRIX) AUTHORIZATIONS TO TRANSFER TO WPAFB

	<u>OFF</u>	<u>ENL</u>	<u>CIV</u>	<u>TOTAL</u>
BASELINE (EOM AUG 94 UMD)	112	41	84	237
TRANSFER TO MEDSITE FROM AL	0	0	54	54
TOTAL AUTHORIZED	112	41	138	291
MATRIXED FROM FM	6	0	9	15
MATRIXED FROM PK	0	0	3	3
TOTAL MATRIXED	6	0	12	18
TOTAL (YA W/FM/PK MATRIX) TO TRANSFER TO WPAFB	118	41	150	309

SAM (W/RAM STUDENTS) AND SAS

	<u>OFF</u>	<u>ENL</u>	<u>CIV</u>	<u>TOTAL</u>	<u>COMMENTS</u>
BASELINE (EOM AUG 94 UMD)					
USAFSAM	38	88	42	168	
RESIDENT AEROSPACE MEDICINE	31	0	0	31	FLIGHT SURGEONS
SUBTOTAL USAFSAM	69	88	42	199	
70TH TRAINING SQDN	16	4	13	33	SYSTEMS ACQ SCHOOL

JUN 15 '95 14:09 HQ AFLC/XRJ WRIGHT-PATTERSON OH

P.08

JUN-15-1995 13:10

P.008

HQ HSC (M, PK, JA, ETC.)

HQ FUNCTIONS	OFF	ENL	CIV	TOT
CCEA	0	2	0	2
FINANCIAL MANAGEMENT	0	8	9	17
HISTORY OFFICE	0	1	1	2
INSPECTOR GENERAL	1	0	1	2
INTELLIGENCE	0	1	1	2
JUDGE ADVOCATE	5	7	2	14
MANPOWER	1	4	4	9
PUBLIC AFFAIRS	1	1	4	6
CONTRACTING	0	4	21	25
SAFETY	0	0	2	2
ENVIRONMENTAL MANAGEMENT	1	0	7	8
TOTAL HQ HSC SUPPORT	9	28	52	89

JUN.15 '95 14:09 HQ AFLC/XRJ WRIGHT-PATTERSON OH

P.09

70TH ABG SUPPORT AUTHS

<u>ORG</u>	<u>OFF</u>	<u>ENL</u>	<u>CIV</u>	<u>TOTAL</u>
70 ABG/CC	3	1	2	6
CCQ	1	2	0	3
CE	5	32	172	209
COMM	5	41	29	75
COMMAND POST	0	5	0	5
DP	1	0	1	2
DPC	0	0	21	21
DPE	4	8	10	22
DPM	2	26	2	30
FAMILY SUPPORT	0	1	7	8
HC	3	3	0	6
IM	1	4	4	9
LG	1	0	1	2
LGS	1	31	14	46
LGT	0	21	9	30
MED SVC STAFF	0	0	1	1
MEDICAL SQ	23	73	12	108
SA	1	3	0	4
SP	1	55	0	56
SV	1	16	44	61
XP	0	1	4	5
TOTAL 70TH ABG	53	323	333	709

Brooks Base Measure and Realignment Totals

Budget	Total Request	96	97	98	99	00	01	BY 95 Total	Remarks
Total 110	119.773154	0.000000	0.000000	88.626319	31.146835	0.000000	0.000000	106.120000	
Total 120	10.180718	0.000000	0.000000	7.333237	2.647481	0.000000	0.000000	9.037200	
Total 100	129.953873	0.000000	0.000000	96.159556	33.794316	0.000000	0.000000	115.357280	
Total 310	20.064714	0.909620	1.312021	1.929423	5.964270	1.731495	4.217823	17.259523	
Total 311	1.088581	0.049330	0.071182	0.104678	0.323583	0.310934	0.228235	0.936390	
Total 320	28.394793	1.287239	1.856720	2.730446	8.440401	8.110986	3.968982	24.423000	
Total 330	18.380165	1.374114	1.981999	2.914678	9.069901	8.658239	6.371727	26.073031	
Total 340	6.277661	0.284594	0.410493	0.603661	1.866046	1.793217	1.319632	5.400000	
Total 341	1.942006	0.088040	0.126987	0.186744	0.577263	0.554735	0.408237	1.670500	
Total 342	0.051477	0.002334	0.003366	0.004950	0.015302	0.014704	0.010821	0.044280	
Total 343	15.990441	0.724916	1.043606	1.537642	4.733186	4.567677	3.361414	2.286764	
Total 345	0.052779	0.002393	0.003451	0.005075	0.015689	0.015076	0.011093	0.045400	
Total 346	4.079661	0.184949	0.266767	0.392301	1.212686	1.165337	0.837602	3.509296	
Total 348	6.712814	0.304321	0.438947	0.645505	1.995396	1.917519	1.411127	5.774316	
Total 352	0.278953	0.012646	0.018241	0.026824	0.082919	0.079683	0.038640	0.239934	
Total 300	183.314046	5.224533	7.535779	11.081929	34.236642	32.919661	24.226014	87.664455	
Total 612	0.003162	0.003162	0.000000	0.000000	0.000000	0.000000	0.000000	0.003000	
Total 630	0.073314	0.000000	0.000000	0.000000	0.000000	0.000000	0.073314	0.060000	
Total 640	2.426423	2.426423	0.000000	0.000000	0.000000	0.000000	0.000000	2.302000	
Total 650	1.784415	0.000000	0.005430	0.000000	0.000000	1.778985	0.000000	1.585000	
Total 600	4.287314	2.429585	0.005430	0.000000	0.000000	1.778985	0.073314	3.870000	
Total 721	0.358377	0.358377	0.000000	0.000000	0.000000	0.000000	0.000000	0.340000	
Total 724	0.603971	0.603971	0.000000	0.000000	0.000000	0.000000	0.000000	0.573000	
Total 725	3.8178932	0.590268	0.6081376	0.6260184	0.6430328	0.6641544	0.684264	3.36	
Total 700	4.780243	1.552616	0.608138	0.626018	0.643033	0.664154	0.684264	4.273000	
Total	242.335476	9.306734	8.149347	107.867504	68.696011	35.362801	24.903592	211.164633	

#270k - 2000 - 2001
 (Budget '95 - 2001)

Atch
 2-A

JUN-15-1995 13:14

P. 02/06
 210 536 2018

HSC/CCB BROOKS AFS TX

JUN-14-1995 15:23
 H-A
 H-A

BASE NAME: BROOKS AFB			BASE CLOSURE COST ESTIMATE (FISCAL YEAR)				AMOUNT (\$)			REMARKS			
BASE (ABB)	PROJ REF	CLOSE BASE	RELIGN LOC	BUDGET PROGRAM	BUDGET PROJECT	PROJECT DESCRIPTION	REQUEST TOTAL	96	97		98	99	00
HKO	HR0001	BRO	W-P	100	100	110 95-3331, New USAFSAF Academic Complex 95-3381, Alter 821, 95-3361, New Outdoor Training Facility, 95-3363, New Pipeline Dormitory.	21,283	0.000	0.000	21,283	0.000	0.000	0.000
DRO	HR0002	BRO	W-P	100	100	110 95-3333, Renovate 57 & 17 for YA Systems Program Office	10,597	0.000	0.000	0.000	10,597	0.000	0.000
BIRO	DR0003	BRO	W-P	100	100	110 95-3334, Renovate 22 for ALSD- YA Consolidated Library	2,236	0.000	0.000	2,236	0.000	0.000	0.000
DRO	HR0004	BRO	W-P	100	100	110 95-3355, Renovate 28 for AL-HQ	0,968	0.000	0.000	0.000	0,968	0.000	0.000
URO	DR0005	BRO	W-P	100	100	110 95-3356, ADAL 33 AL-Centrifuge Facility	3,410	0.000	0.000	3,410	0.000	0.000	0.000
URO	DR0006	BRO	W-P	100	100	110 95-3358, ADAL 79, 190, 414 & WISE for Aerospace Medical & Clinical Labs	19,582	0.000	0.000	0.000	19,582	0.000	0.000
BRO	BR0007	BRO	W-P	100	100	110 95-3360, ADAL 824 AL/OE Vivarium	15,427	0.000	0.000	15,427	0.000	0.000	0.000
URO	DR0008	BRO	W-P	100	100	110 95-3362, New AL Facility (includes 95-3369 New Reference Laser Lab & 3373)	24,929	0.000	0.000	24,929	0.000	0.000	0.000
HKO	HR0009	BRO	W-P	100	100	110 95-3382, Renovate 125 for Acquisition School, 20 TRS	0,626	0.000	0.000	0,626	0.000	0.000	0.000
HKO	HR0010	BRO	KHL	100	100	110 97-3113, Kelly AFB - New AF Drug Testing Lab, Part 1, 97-3119, ADAL 1500 AFMSA/AFHQADJTL	1,599	0.000	0.000	1,599	0.000	0.000	0.000
URO	DR0011	BRO	LAC	100	100	110 97-3272, Lackland AFB - ADAL Intelligence Operations Facility	1,073	0.000	0.000	1,073	0.000	0.000	0.000
URO	DR0012	BRO	LAC	100	100	110 97-3012, Lackland AFB - AL/AO New Hyperbaric Alt Facility (includes 97-544 New Equip)	6,372	0.000	0.000	6,372	0.000	0.000	0.000
URO	BR0013	BRO	TYN	100	100	110 98-9999a, Tyndall AFB - New AFCEE Facility	11,671	0.000	0.000	11,671	0.000	0.000	0.000
URO	DR0014	URO		100	100	120 Design, All @ 8.5% of each project	10,181	0.000	0.000	7,533	2,647	0.000	0.000
				300	300	SubTotal 100	129,954	0.000	0.000	96,160	33,794	0.000	0.000
URO	BR0015	BRO		300	300	310 Summary Civ Separation Incentives	8,774	0.398	0.574	0.844	2,608	2,506	1,844

Alch
2-B

LOFTON03.XLS, Summary 6/14/95 3:02 PM, Page 1

Alch
2-B

Brooks AFB, Base Closure Cost Estimate

JUN-15-1995 13:18

P. 04/05
210 536 2018

HSC/CCB BROOKS AFB TX

JUN-14-1995 15:24

P. 013

BASE NAME: BROOKS AFB				BASE CLOSURE COST ESTIMATE (FISCAL YEAR)											REMARKS
BASE (AM)	PROJ REF	CLOSURE BASE	RELIGN LOC	BUDGET PROGRAM	BUDGET PROJECT	PROJECT DESCRIPTION	REQUEST TOTAL	96	97	98	99	00	01		
BRO	BRO0016	BRO		300	310	Summary Civ Health Benefits Covrg	4.363	0.198	0.283	0.420	1.297	1.246	0.917	All Orgs	
BRO	BRO0017	BRO		300	310	Summary Civ Severance Pay	2.683	0.122	0.176	0.338	0.798	0.767	0.564	All Orgs	
BRO	BRO0018	BRO		300	310	Summary Civ Annual Leave	4.243	0.192	0.277	0.408	1.261	1.212	0.892	All Orgs	
BRO	BRO0019	BRO		300	311	Summary Unemployment Comp	1.089	0.049	0.071	0.105	0.324	0.311	0.229	All Orgs	
BRO	BRO0020	BRO		300	320	Summary Civ PCS	28.395	1.287	1.857	2.730	8.440	8.111	5.969	All Orgs	
BRO	BRO0021	BRO		300	330	AFMISA Computer Systems and Service	0.064	0.003	0.004	0.006	0.019	0.018	0.013	Transport of Things (TOT)	
BRO	BRO0022	BRO		300	330	AL HQ Plus - CAT 3 TOT Summary	0.312	0.014	0.020	0.030	0.093	0.089	0.066		
BRO	BRO0023	BRO		300	330	AL AO - CAT 3 TOT Summary	2.325	0.105	0.152	0.224	0.691	0.664	0.489		
BRO	BRO0024	BRO		300	330	AL CF - CAT 3 TOT Summary	6.314	0.286	0.413	0.607	1.877	1.804	1.377		
BRO	BRO0025	BRO		300	330	AL OE - CAT 3 TOT Summary	2.472	0.112	0.162	0.238	0.735	0.706	0.520		
BRO	BRO0026	BRO		300	330	DPS RF Defense Printing Service	0.006	0.000	0.000	0.001	0.002	0.002	0.001		
BRO	BRO0027	BRO		300	330	HSC - CAT 3 TOT Summary	0.507	0.023	0.033	0.049	0.151	0.145	0.107		
BRO	BRO0028	BRO		300	330	SAM/EA	0.766	0.033	0.050	0.074	0.228	0.219	0.161		
BRO	BRO0029	BRO		300	330	70th ADD & Atch Units - CAT 1/2 TOT	0.000	0.000	0.000	0.000	0.000	0.000	0.000		
BRO	BRO0030	BRO		300	330	AFMOA/AFMSA - CAT 1/2 TOT	0.101	0.003	0.007	0.010	0.030	0.029	0.021		
BRO	BRO0031	BRO		300	330	AL - CAT 1/2 TOT	1.459	0.066	0.095	0.140	0.434	0.417	0.307		
BRO	BRO0032	BRO		300	330	HSC - CAT 1/2 TOT	1.062	0.048	0.069	0.102	0.316	0.303	0.223		
BRO	BRO0033	BRO		300	330	SAM - CAT 1/2 TOT	1.392	0.063	0.091	0.134	0.414	0.398	0.293		
BRO	BRO0034	BRO		300	330	All Other Unit - CAT 1/2 TOT	1.598	0.072	0.103	0.154	0.475	0.457	0.334		
BRO	BRO0035	BRO		300	340	HSC Real Property Maint Sum	6.278	0.285	0.410	0.604	1.866	1.793	1.320		

JUN-15 '95 14:15 HQ AF/CCB/WRIGHT-PATTERSON OH

P. 13

Brooks Base Closure Cost Estimate

JUN 15 '95 14:18 HQ AFLC/XRJ WRIGHT-PATTERSON OH

BASE NAME: BROOKS AFB			BASE CLOSURE COST ESTIMATE (FISCAL YEAR)				AMOUNT (MIS)		P. 14					
BASE (ABB)	PROJ REF	CLOSE BASE	IRLEIGN LOC	BUDGET PROGRAM	BUDGET PROJECT	PROJECT DESCRIPTION	REQUEST TOTAL	96	97	98	99	00	01	REMARKS
BRO	BRO036	BRO		300	341	Civ Pay Sum	1.942	0.000	0.127	0.187	0.577	0.515	0.408	
BRO	BRO037	BRO		300	342	Travel Sum	0.051	0.002	0.003	0.003	0.015	0.015	0.011	
BRO	BRO038	BRO		300	343	98-9999A, Tyndall AFB - New AFCEE Facility	2.223	0.105	0.152	0.224	0.691	0.664	0.489	CONM
BRO	BRO039	BRO		300	343	AFCEE Computer Ops	1.163	0.053	0.076	0.112	0.346	0.332	0.244	CONM
BRO	BRO040	BRO		300	343	WPAFB-WP352	3.009	0.136	0.197	0.289	0.894	0.840	0.633	CONM
BRO	BRO041	BRO		300	343	WPAFB-WP353	1.433	0.063	0.094	0.138	0.426	0.409	0.301	CONM
BRO	BRO042	BRO		300	343	WPAFB-WP358	0.941	0.043	0.062	0.090	0.280	0.269	0.198	CONM
BRO	BRO043	BRO		300	343	WPAFB-WP359	1.139	0.032	0.075	0.110	0.339	0.323	0.240	CONM
BRO	BRO044	BRO		300	343	WPAFB-WP366	2.171	0.098	0.142	0.209	0.645	0.620	0.456	CONM
BRO	BRO045	BRO		300	343	WPAFB-WP368	1.131	0.032	0.075	0.111	0.342	0.329	0.242	CONM
BRO	BRO046	BRO		300	343	Other Comm Sum	2.638	0.121	0.174	0.236	0.790	0.739	0.559	CONM
BRO	BRO047	BRO		300	345	Purchase Equip Sum	0.053	0.002	0.003	0.003	0.016	0.015	0.011	
BRO	BRO048	BRO		300	346	70 CSSC	0.087	0.004	0.006	0.006	0.026	0.023	0.018	Purchase Other
BRO	BRO049	BRO		300	346	AI, OA Purchase Other	0.291	0.013	0.019	0.028	0.087	0.083	0.061	
BRO	BRO050	BRO		300	346	AL, CF Purchase Other	0.326	0.015	0.021	0.031	0.097	0.093	0.069	
BRO	BRO051	BRO		300	346	AL, IIC Purchase Other	0.308	0.014	0.020	0.030	0.092	0.088	0.065	
BRO	BRO052	BRO		300	346	AL, OE Purchase Other	2.685	0.122	0.176	0.238	0.798	0.767	0.564	
BRO	BRO053	BRO		300	346	SAMEA	0.017	0.001	0.001	0.002	0.003	0.003	0.004	Purchase Other
BRO	BRO054	BRO		300	346	Trained Program Requirements	0.029	0.001	0.002	0.003	0.009	0.008	0.006	Purchase Other
BRO	BRO055	BRO		300	346	Other Purchased Serv Misc	0.336	0.013	0.022	0.032	0.100	0.096	0.071	

LOFTON03.XLS, Summary, 6/14/95 3:02 PM, Page 3

ATK
2
6/14/95 7:26 AM

LIST OF BRAC RELATED PROJECTS

LOSING BASE	PROJECT BASE	PROJECT NUMBER	PROJECT TITLE	Scope	COST(\$000)
Brooks	Kelly	MBP8973119	BC - Renovate for AF Drug Testing Lab and AFMSA and AFMOA		1,430
	Lackland	AETC Prepared MPYJ973272	BC - Convert Intelligence Operations Facility		960
		MPLS978012	BCL - Hyperbaric Medical Facility (\$3.3M MCP, \$2.4M Equip)		5,700
					6,660
	Tyndall	AETC Prepared XLWU989999A	BC - Air Force Center for Environmental Excellence AFCEE)	74,077	9,900
			BC - Renovate facility for AFCEE		540
					10,440
	Wright-Patterson	USAFSAM ZHTV953351	BC - USAFSAM Academic Facility	89,100	11,200
		ZHTV953361	BC - USAFSAM Outdoor Training Area	3,000	440
		ZHTV953363	BC - USAFSAM Pipeline Student Dorm	53,500	6,000
		ZHTV953381	BC - ADAL USAFSAM Bldg 821	24,000	1,400
					19,040
	SAS	ZHTV953383	Renovate for Acquisition School	15,400	660
	AL/AO	ZHTV953358	BC - ADAL Fac's for Aerospace Medical & Clinical Labs	95,500	17,000
	YA SPO	ZHTV953353	BC - Renovate for YA SPO (Bldg 57)	74,000	9,200
	HSI & AL HQ	ZHTV953355	BC - Renovate Facility for HSI and AL Staff Headquarters	90,000	840
	AL/CFT	ZHTV953373	BC - Crew Technology Facility	29,100	7,900
	AL/OE	ZHTV953362	BC - (AL/OE) ADAL Occupational Environmental Health Lab	97,350	14,400
		ZHTV953360	BC - Addition to Vivarium	53,000	13,800
					28,200
		ZHTV953354	BC - Renovate Library for YA SPO & AL/SD	20,000	2,000
		ZHTV953356	BC - Centrifuge Facility Addition	10,700	3,050
					6,050
			TOTAL CONSTRUCTION COST		106,320
			Design Fee		9037
			TOTAL MILCON COST		116,357

4 270k Brooks Hall
(Brooks Building)

ATK
3



DEPARTMENT OF THE AIR FORCE
HEADQUARTERS UNITED STATES AIR FORCE



12 JUN 1995

MEMORANDUM FOR AF/RT *(Handwritten initials)*

FROM: AF/CE

SUBJECT: Cost Avoidance Brooks AFB Housing

Our staff completed a review of the military family housing (MFH) shortfall issue in the San Antonio metropolitan area. New housing market analyses were recently completed for all the San Antonio bases. The projected deficits before BRAC 95 are:

<u>BASE</u>	<u>DEFICITS</u>
Kelly AFB	141
Lackland AFB	580

Keeping the 170 units at Brooks AFB will reduce the projected housing deficit in the San Antonio area by 136. The remaining 34 housing units are related to Brooks AFB realignments to Lackland. We propose transferring the housing to Lackland AFB should the Brooks AFB closure be approved by the Closure Commission. Lackland AFB has the greatest need for additional military family housing in the foreseeable future. Due to proposed BRAC 95 realignments to Lackland AFB, the deficit for military family housing will increase.

Keeping the 170 Brooks AFB family housing units will create an FY96 \$4.2M and a FY01 \$16.8M cost avoidance for new construction of military family housing at Lackland AFB. Recommend that the BRAC 95 language specifically exclude the closure of the 170 Brooks family housing units and realign them to Lackland AFB. Our POC for BRAC housing issues is Major Ron Deak at 70157.

(Handwritten signature)
ROBERT D. WOLFF, P.E.
Deputy Civil Engineer



USAF SCHOOL OF AEROSPACE MEDICINE (AFMC)
HUMAN SYSTEMS CENTER
BROOKS AIR FORCE BASE, TEXAS 78235-5301

Office of the Commander

Les - per your request -
news media article regarding
proposed closure of Brooks AFB.
Also - issues applicable to
USAFSAM

Regards,

Neil Antonio

BASE CLOSURE AND REALIGNMENT ISSUES FOR THE USAF SCHOOL OF AEROSPACE MEDICINE

1. ACCREDITATION OF PREVENTIVE MEDICINE RESIDENCY PROGRAMS

-The USAFSAM has a three-year preventive residency program currently accredited by the Accreditation Council for Graduate Medical Education (ACGME). It is the largest residency program of its kind in the whole United States military or civilian, training Air Force and Army physicians and Canadian Forces Flight Surgeons. The program has two practicum years, one for Aerospace Medicine and the other for Occupational Medicine, completion of which qualify the graduate to take the examinations leading to national certification in those specialties. Accreditation of the residency program is predicated on the USAFSAM's symbiotic relationship with the Armstrong Laboratory and ability to tap into the training resources of Wilford Hall Medical Center and Brooke Army Medical Center. Additionally, the health departments of the city of San Antonio and the State of Texas provide hands-on training for the residents in public health. Kelly Air Force Base provides the training base for the Occupational Medicine residents as it has a full fledged occupational health program. Residents actively participate in human based clinical research at the Armstrong Laboratory. The ACGME is on record as having "grave concerns" about the viability of the residency program because of the perceived organizational separation of the USAFSAM and the Armstrong Laboratory in its current form. Should there be a break-up of the relationship due to realignment and other reasons, further accreditation the the residency would be at risk. As it is, being deprived of the occupational medicine experience provided by Kelly AFB and clinical experience provided by the medical centers and health departments in the area place the occupational medicine practicum year in jeopardy. Loss of accreditation would mean the loss of the entire residency program.

2. ASSOCIATION WITH KELLY AIR FORCE BASE

-Kelly Air Force Base has perhaps the largest occupational health program in the Air Force. It provides eight weeks worth of training for our preventive medicine residents to prepare them for actual practice as they rotate through industry later in their training year. This basic rotation gained at Kelly AFB is a key to the accreditation of the practicum year. Flying units at Kelly Air Force Base also provide flying opportunities for the Flight Surgeons assigned to the USAFSAM. All active Flight Surgeons are required to fly as crew members a minimum of four hours per month to keep up their proficiency in their assigned aircraft and establish rapport with aircrew as is the basic requirement of their practice. Flight Nurses assigned to the school also must maintain their skills in Aeromedical Evacuation. This is a hard requirement for them as they must not only teach aerospace nursing, but they also serve as evaluators for aerovac nurses when the latter qualify for in-flight duties. Kelly Air Force Base reserve units provide that flying opportunity for these Flight Nurses.

3. ASSOCIATION WITH RANDOLPH AIR FORCE BASE

-The flying units at Randolph Air Force Base provide the bulk of flying opportunity for all flight surgeons at the School to include faculty, residents and command staff. Additionally, all our students in the Aerospace Medicine Primary Course are provided with orientation flights by Randolph AFB units. This is part and parcel of the curriculum that leads to becoming a Flight Surgeon.

4. FELLOWSHIP IN HYPERBARIC MEDICINE

-The USAF School of Aerospace Medicine sponsors a Fellowship in Hyperbaric Medicine. It is a graduate level fellowship and requires hands-on experience in hyperbaric chamber operations both for clinical and research applications. Proposed realignment of the Hyperbaric Medicine Department with Wilford Hall Medical Center effectively separates the fellowship program from its sponsoring agent, the School.

5. FACULTY SUPPORT

-The Armstrong Laboratory provides over 30% podium time for all our officer courses. It must be made clear that all the various disciplines involved in the practice of Aerospace Medicine provide direct operational support for the Air Force. As such, the specialty is highly dynamic as it must stay on top of a constantly changing operational world. Current knowledge must be taught to our students. This cannot be gained from textbooks that are five to ten years old. It must be taught by people that are working with current issues. Armstrong Laboratory adjunct faculty provide all that. Rough estimates indicate that at least one third of our source of experts will not move to Wright -Patterson AFB.

6. CIVILIAN ACADEMIC SUPPORT

-The School, over the years, has produced a cadre of highly skilled people providing support for its teaching departments. These areas include curriculum development, testing and evaluation, a highly complex registrar function, faculty development, and management of TDY-to-school function which deals with the personnel system. These functions so critical in maintaining student flow and quality of instruction will be difficult to replicate in its current form elsewhere. The majority of personnel in those jobs have spent their careers in San Antonio and would be unwilling to move.

7. ADVANCED SPATIAL DISORIENTATION DEMONSTRATOR

-The newly installed ASDD trains pilots by demonstrating various mechanisms producing spatial disorientation. Moving the device would separate it from Randolph Air Force Base whose pilots would be the primary customers.

8. GLOBAL MEDICINE COURSE

-The Interservice Training Review Organization (ITRO) has designated our Global Medicine Course as the basic course in Tropical Medicine for all three services. The decision was influenced by the school's proximity to joint service faculty from Wilford Hall Medical Center and Fort Sam Houston. A move to Wright Patterson would inevitably remove that proximity and the course would lose that designation as a triservice basic course.

25 Feb. 95

San Antonio Express-News

Bush to visit Brooks, Kelly

By Diana R. Fuentes

Chief, Express-News Austin Bureau

AUSTIN — Gov. George W. Bush plans to tour Brooks and Kelly AFBs on Monday as a show of support on the day before the Base Closure and Realignment Commission announces which installations it wants to shut down.

“As governor of Texas, I want to highlight the importance of our military personnel and missions,” Bush said.

“I want Washington to know that Texas provides the military with the best quality of life and training opportunities of any state in America,” he said. “Texas, especially San Antonio, supports our soldiers, sailors, airmen and veterans like no place else.”

Bush is expected to arrive about 10:30 a.m. at Kelly AFB, where he's scheduled to tour an engine overhaul facility and the largest aircraft hangar in the world.

From there he will go to Brooks.

“The governor wants to make the case as best he can for Texas bases,” Bush spokeswoman Karen Hughes said. “He feels very strongly that, when it comes to defense, we do a better job in Texas.

“Our communities give great support to the military and their families. We have great weather, a low cost of living, great quality of life. National taxpayers get a good return for their dollars spent in Texas.”

Recently, San Antonio's Congress members reported Kelly AFB likely won't be on the list, but it appeared that Brooks was being strongly considered for the list.

While Brooks has a smaller direct fiscal impact on the San Antonio area than does Kelly, the loss of Brooks would be felt keenly across the city.

Military downsizing threatens research

by Richard D. Heimbach, M.D.
President, Aerospace Medicine Assn.

reprinted from October issue of Aviation, Space, and Environmental Medicine.

The subject of this month's President's Page is short but not sweet. Military downsizing poses a serious threat to clinical aerospace medicine and biotechnology and particularly to Brooks Air Force Base (AFB) in San Antonio, TX.

Brooks AFB has a unique place in history of U.S. air power. From 1918, when it was established, to 1947 it has been the home of both primary and advanced flying schools, as well as part of the development of the Gasport Method of flight training, a teaching philosophy still used today. In 1926, the School of Aviation Medicine was transferred to Brooks Field from Mitchell Field. Hanger 9, presently the Edward H. White II Memorial Museum focusing on the history of Aerospace Medicine, is the oldest military hanger in the U.S., and is listed in the National Register of Historic Places as well as designated a National Historic Landmark. Building 1102, one of four metal hangers completed in 1918, is now eligible for nomination to the National Register of Historic Places.

In 1947, the U.S. Air Force became an independent military branch and established its own medical service in 1949. With the rapid advances in aeronautical technology occurring, man was becoming the limiting factor in the use of such technology. A new aeromedical center was needed to combine research, education, training, and clinical care in the rapidly advancing aeromedical environments. Brooks was chosen as the site of such a center, and Lyndon B. Johnson dedicated the new Aerospace Medical Center (AMC) in 1959.

It was transferred from Air University to Air Training Command and, in addition to its military mission, was charged with providing medical advice and assistance to the National Aeronautics and Space Administration (NASA). The School of Aviation Medicine, which had previously been

moved to Randolph AFB, TX, was relocated to Brooks. Additionally the Aeromedical Laboratory at Wright-Patterson AFB, OH, the Medical Service School at Gunter AFB, AL, and the Air Force Epidemiology Laboratory at Lackland AFB, TX, were made part of the AMC.

During the early years of the space program the AMC was heavily involved with NASA conducting research in such areas as exposure to zero gravity, life support in space craft, high altitude parachute jumps, long period exposures to 100% oxygen and 30-day space cabin simulator tests.

In the 1960's it became apparent that man was an integral part of all weapons systems. Therefore, the mission of the AMC was expanded to encompass research, teaching, health care, training, selection, and medical support for crew effectiveness. The recognition that aerospace medical training and practice were a necessary function of operational systems led to the transfer of the AMC to the Air Force Systems Command (AFSC), and it was renamed the Aerospace Medical Division (AMD) in 1961. In 1963, President John F. Kennedy arrived at Brooks Air Force Base to dedicate new buildings which had been added to the existing facility and to express his administration's support for the managed space program. This was to prove to be President Kennedy's last official act, as he was assassinated the following day in Dallas.

AMD consolidated research and development resources of the previous AMC with the hospital at Lackland AFB, the Aeromedical Research Laboratory at Holloman AFB, NM, the Personnel Research Laboratory at Lackland, and the Artic Aeromedical Laboratory in Alaska. All studies of human involvement in aeronautical and space activities would be undertaken at Brooks by AMD. Over the years, as requirements varied, the structure of AMD changed. With increasing emphasis on humans and weapons systems support the Division's name was changed to the Human Systems Division (HSD) in 1987.

In 1990, the Air Force consolidated its 12 laboratories in 4 "super-labs." Brooks

Air Force Base's super-lab, the Armstrong Laboratory, was charged to focus on protecting the human in space. In July 1992, AFSC was merged with the Air Force Logistics Command (AFLC) and the new organization was named the Air Force Material Command (AFMC). HSD became the Human Systems Center (HSC), its present designation.

The programs of the HSC are contained within the United States Air Force School of Aerospace Medicine, the oldest of the HSC components; the Crew Systems and Human Factors Directorate which evolved from the Physiological Research Unit established at Wright Field in 1935; the Directorate of Occupational Medicine and Environmental Health of the Armstrong Laboratory which formerly was the Occupational and Environmental Health Laboratory; and the Drug Testing Division of the Directorate of Aerospace Medicine. The technological advances spear-headed by work done at Brooks are much too extensive to list here. They include work with NASA in all its manned programs as well as the development and testing of equipment and procedures to protect aviators and enhance their performance in subatmospheric environments.

It is apparent from the above history that Brooks has been and continues to be the home of organizations responsive to the needs of the military and of NASA. Restructuring of these organizations has occurred as necessary to integrate and coordinate efforts in a timely manner. Thus, at one location the nation has focused capabilities to address research and development needs quickly in an era of rapid changes in biotechnology. Further, the base is located in a city dedicated to biotechnology. San Antonio has on-going, progressive programs in areas which fit hand-in-glove with efforts at Brooks. If Brooks were to be closed the loss of this focus through elimination of these efforts or "farming them out" would strike a devastating blow to the nation's advancement in biotechnology both in military applications and civilian spin-offs. Such a degradation would be very dangerous even in a time of lessened world tensions.

The closure of Brooks Air Force Base would be a tragedy from another point of view as well. There is rich heritage and tradition centered at Brooks. This is reflected in our American culture and makes up a living part of our history. A nation's history is truly its identity, its source of being. If a nation loses its sense of history, it is in danger of losing its essence and identity.

I would hope the Base Closure Commission and the administration will take this into consideration when deciding upon the future of Brooks Air Force Base.

The demise of the Soviet Union has translated into a smaller military force for our country. This reduction has been achieved through several rounds of Base Closure. The next round of closures will be announced by the Secretary of Defense on March 1, 1995 and Brooks Air Force Base is vulnerable for closure. Keeping Brooks open is in the best interest of the Department of Defense (DoD), the local community and the taxpayers. You can help to keep Brooks open by contacting your elected officials and stating your support.

Listed below are some facts regarding Brooks Air Force Base.

Brooks is the only location within the DoD where primary focus is on the "human" in the weapon system. The mission at Brooks strives to maximize human capability, performance, protection, and safety through the integration of the disciplines of education, science and technology, acquisition, and preventive medicine. This interdisciplinary approach, focused on the human and the life sciences, is critical in understanding and developing solutions for today's Air Force and the other DoD agencies. Brooks is the only Air Force installation solely dedicated to improving people efficiency and effectiveness.

Population at Brooks AFB		
	<u>People</u>	<u>Annual Payroll</u>
Military	1,865	\$64,923,433.00
Civilian	1,885	\$64,276,847.00
Other (contractors)	510	\$11,375,000.00
Totals	4,260	\$140,575,280.00

Brooks Facilities	
Number of Buildings	279
Size of Buildings (sq.ft.)	2,038,439
Replacement Cost of Buildings	\$300+ million

Brooks Contract Dollars (as of Sept. 94)	
Annual Total	\$558,872,560.00

40 companies have established offices in San Antonio in the past two years in support of these Brooks Contract Dollars.

90-Days Free Trial Period on PC Banking.

Sign up for our PC Banking service on any NationsBank checking account and pay no monthly service fee for the first 90 days. In addition receive no monthly service charge on your PC Banking checking account for the first 90 days.

As a NationsBank PC Banking customer, you will enjoy:

- 24-hour access to your account information through a nationwide Toll-Free 1-800 number.
- Convenient transfers from one NationsBank account to another 24 hours a day.
- Custom downloads of your current and prior statements into most popular money management and spreadsheet programs.
- No more stamps! When you schedule unlimited fixed and variable bill payments to up to 50 payees.

NationsBank®

After 90 days, monthly fee for PC Banking is \$7.95
NationsBank of Texas, N.A. Member FDIC. Equal Housing Lender. © 1994 NationsBank Corporation

Kelly facing further cuts

'Holy war' begins to save Brooks from Pentagon budget ax

By Christopher Anderson
and Don Driver
Express-News Staff Writers

Kelly AFB may not be on the list of bases destined for closure, but it appears unlikely the base will survive unscathed.

The Pentagon is eyeing the nation's five air logistics centers for additional work force cutbacks, a source familiar with the base closure process told the San Antonio Express-News on Sunday.

"I doubt that the cuts will be drastic. My guess is that Kelly might face another 10 percent cut," said the source, who spoke on condition of anonymity.



"There will be downsizing throughout all the air logistics centers, and they will be downsized about the same.

"This doesn't surprise us. We knew if they kept all of them, they would have to reduce manpower."

The Pentagon has ordered the commanders of the air logistics centers to meet in Washington on Monday to discuss scaling back the work forces, the source said.

"My understanding is that all the ALC commanders have been summoned to discuss how the Air Force expects them to conduct themselves during the (closure and realignment) process and what the future is going to hold," the source added.

Meanwhile, city and community officials are huddling in strategy sessions for a "holy war" to save Brooks AFB from the Pentagon's budget ax.

The first shot in the battle was fired Saturday when leaked Defense Department recommendations identified Brooks as being on the hit list for closure or realignment, while Kelly, one of the largest employers in the Alamo

City, was spared.

"The battle has started to save Brooks AFB," Tullos Wells, chairman of the Greater San Antonio Chamber of Commerce, said Sunday. "We had a sense that Brooks was going to be on the list. No one will know for sure until the list is officially released by the Pentagon on Tuesday.

"I have said in the past that this community will lead a holy war to make the case for Brooks."

Mayor Nelson Wolff was scheduled to meet with city and community officials Monday morning to review strate-

See CITY/4A

*Express - News
27 Feb. 95
Pg. 1A*

City plans 'holy war' to save Brooks

Continued from 1A

gy and coordinate activities to save the Southeast Side base, which is home to the Air Force's School of Aerospace Medicine and employs more than 2,400 civilians.

Gov. George W. Bush is scheduled to tour Brooks and Kelly on Monday, and Wolff said he will brief the governor on the latest developments and request his support in retaining the installation.

But officials conceded that history has shown it is a difficult task to save an installation once it is targeted for closure.

"The very good news is that Kelly isn't on the list," Wolff said. "Kelly employs five times more workers than Brooks does, and now we can breathe a sigh of relief and feel good about that."

"Now, we need to orient our actions towards Brooks and come up with a plan on how we approach and articulate our arguments to keep the base open." However, he also contended that Kelly isn't completely out of the

woods.

"The Base Closure and Reassignment Commission could add Kelly, so it's not a done deal," Wolff said. "They have until May 17 to add bases. We don't think that's going to happen, but I should add that part of the equation is not totally out of the picture."

Retired Brig. Gen. Paul Roberson, a Greater San Antonio Chamber of Commerce vice president who is heading up the \$250,000 lobbying effort to save the city's military installations, also pointed out that the five air logistics centers probably will face further work force reductions.

It wouldn't be the first time that Kelly has been forced to downsize. In December, Air Force Secretary Sheila Widnall outlined 1,007 civilian jobs to be eliminated at the San Antonio base, although officials said that most of those cuts already had been made.

As part of the Air Force's plan to streamline, Widnall announced that as many as 38,000 jobs, including 11,700 cut for fiscal year 1995,

would be eliminated by the year 2001.

The number of civilians working at Kelly already has been whittled down from about 16,000 to 10,400.

City and community officials will be using Monday's meeting on Brooks' future to iron out some details in their strategy, Roberson said.

"I want to stress that we have been focused on two bases in San Antonio — Kelly and Brooks — and we're certainly not starting from scratch," he said. "We have a good handle, I think, on the primary arguments that can be made to defend Brooks."

The mayor's task force to save local installations, which learned in recent weeks that Brooks was vulnerable, already has sought out additional contributions, officials said.

U.S. Rep. Frank Tejeda, D-San Antonio, in whose district Brooks is located, said his review of the leaked list indicates there may be a "major policy shift" by the Air Force to consolidate labs — such

as those at Brooks — into a "super lab" at one location.

"At this point, it is not gloom and doom for San Antonio," he said. "No one should portray that Brooks being on the list is doomsday or the end of the world. First of all, it's not over, and secondly, we're going to do everything we can possibly do to put up the best defense for Brooks AFB."

Tejeda pointed out that in the 1993 round of base closures, Kelly was originally not on the hit list but was later added for consideration and then subsequently spared. Secretary of Defense William Perry is scheduled to officially announce the hit list Tuesday.

The commission has until May 17 to make any changes before the list is submitted to President Clinton and the Congress.

Roberson said he will be going to Washington on Tuesday to gather the data used by the Pentagon in targeting Brooks for closure.

Officials say there are four key arguments that can be made to justify saving Brooks:

- The missions it performs will still need to be accomplished even if the facility is closed.

- It may not be cost-effective to close Brooks and relocate those tasks elsewhere.

- San Antonio's vast medical and biomedical research and teaching facilities complement the mission at Brooks.

- \$21 million worth of construction is under way at the facility.

Besides the School of Aerospace Medicine, Brooks also is home to the Armstrong Laboratory, considered an Air Force super lab, and the Air Force Center for Environmental Excellence.

Tejeda noted that other Air Force facilities on the leaked list include the Rome Laboratory in New York and Kirtland AFB in New Mexico — all home to other so-called Air Force super labs.

The Wright Laboratory at Wright-Patterson AFB in Ohio is also a super lab, but it was not on the unofficial hit list.

"It seems there may be a major

policy shift by the Air Force to perhaps consolidate and merge all these labs into one super lab," Tejeda said. "That could be anywhere. It might be Wright-Patterson, but they're looking at all of them."

Wolff said that if BRAC history is any guide, it will be a tough battle to save Brooks.

"The odds we face are difficult odds," he said. "Previously, 85 percent of the bases recommended for closure by the Defense Department were closed by the BRAC committee."

Roberson said that if, as it appears likely, Brooks is targeted for closure, two key upcoming events will be a visit by one of the BRAC commissioners sometime in March and a regional hearing by the BRAC panel sometime in April.

"We are going to make a respectful but very compelling presentation to BRAC," Wells said. "I think we have a whiz-bang case to make."

Sunset for some military bases



By Rob Robbins, AP

ROBERSON: 'We'll survive, but we'd rather survive with Brooks.'

San Antonio pulls together for a battle

By Mark Potok
USA TODAY

SAN ANTONIO — Lunch hour is booming at the Lotus Chinese Restaurant in a dilapidated part of southeast San Antonio. Ten waitresses serve customers, a third of whom are military.

But Patty Moy's lunch hours soon may be winding down.

Moy, owner of the restaurant outside Brooks Air Force Base, has heard Brooks is on the Pentagon's list of bases recommended for closing. The list is due out Tuesday and she's worried.

"It probably won't put us out of business," says Moy, who serves 500 people daily. "But we'd lose at least 30% of our customers. . . . Other restaurants around here would also lose, and some of the grocery stores. And all the people in these apartments work at the base.

"What can I say?"

That's what residents wonder here, a city with one Army and four Air Force bases. In a military-heavy state where only two major bases closed in three rounds of closings, and in a town with 82,000 military and civilian base employees, most expect one base to close.

"Brooks will probably be on the list," says Mayor Nelson Wolff. "We just don't know if it will be a complete takedown, or if they'll consolidate it. . . . If it's a complete wipeout, obviously, the loss of 4,000-odd civilian and military jobs would be dramatic."

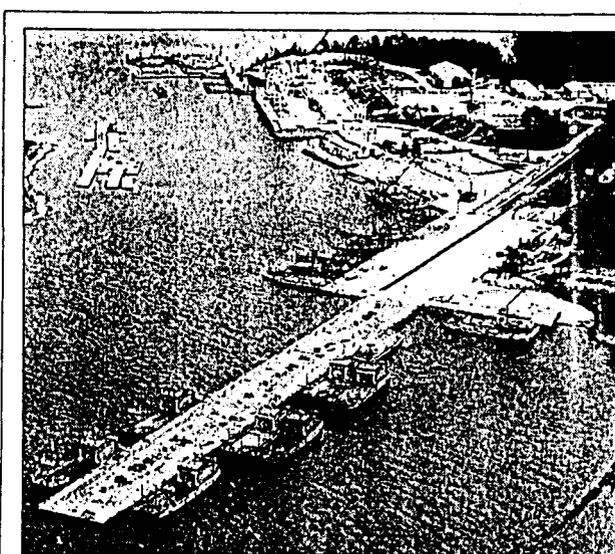
So San Antonio is girding for battle. In days, 10,000 pamphlets lauding Brooks will be published. Economic analyses are under way. Officials already estimate closing Brooks would cost the local economy \$166 million directly. And city officials, at work for a year, are planning new strategies.

It has worked in the past. In 1993, Kelly Air Force Base, staffed by almost 25,000 civilians and military personnel, made the list. But an extraordinary effort saved the city's No. 1 employer.

"We pulled every bit of this community together — business, minority activists, neighborhood groups — got them all united and put on one hell of a show," says Tullio Wells, head of the city's 1993 task force. The group also:

- Bused 2,000 San Antonians to Corpus Christi, where the Base Realignment and Closure Commission was holding a hearing. All wore blue T-shirts emblazoned with "Kelly Proud."

- Turned out 20,000 demonstrators when a commission representative arrived for an on-site evaluation of Kelly.
- Had retired congressman Tom



By Joe Fudge, Daily Press via AP

FORT EUSTIS: The Army's Newport News, Va., base is the only one in Virginia on the Pentagon's base closings/downsizing list.

MILITARY BASES TARGETED

Among bases expected to be recommended for closing:

- Oakland, Calif., Army base.
- Long Beach, Calif., shipyard.
- Red River Army Depot, Texas-kana, Texas.

- Reese Air Force Base, Lubbock, Texas.
- Brooks Air Force Base, San Antonio.

- Fort McClellan, Anniston, Ala.
- Fort Indiantown Gap, Pa.
- Fitzsimmons Army Hospital, Aurora, Colo.

- South Weymouth Naval Air Station, Mass.
- Fort Hamilton, New York.
- Indianapolis Naval Air Warfare Center.

- Meridian, Miss., Naval Air Station.
- Naval Ordnance Station, Louisville.

- Fort Chaffee Reserve Center, Fort Smith, Ark.
- Naval Air Engineering Station, Lakehurst, N.J.

Bases downsizing

Among military bases recommended for reductions:

- Ellsworth Air Force Base near Rapid City, S.D.
- Naval Air Station, Corpus Christi, Texas

- Fort Eustis, Va.
- Army Marine Ocean Terminal, Bayonne, N.J.
- Fort Monmouth, Eatontown, N.J.

- New London, Conn., Navy submarine base.
- Kirtland Air Force Base, Albuquerque.
- Hanscom Air Force Base, Bedford, Mass.



By Rob Robbins, AP

THIRD OF CUSTOMERS MILITARY: Patty Moy's eatery serves 500 daily.

Loeffler, who knew five of seven commissioners, make the city's pitch.

► Pointed out that, if Kelly were to be closed, more than 45% of Hispanic civilians employed by the Air Force nationally would be out of work.

Brooks is different. It specializes in aerospace medicine, cockpit design, virtual-reality design and other "human-centered" research. If it is shut

“Where else can we go? The majority of people around Brooks make a living at the base.”
— Lourdes Rodriguez, union activist

down, the city probably will lose a number of scientists and specialists. But about 2,400 civilian employees, mostly non-specialized, will lose out.

"Where else can we go?" asks Lourdes Rodriguez, a union activist at Kelly and a member of the current task force. "The majority of people around Brooks make a living at the base."

Construction workers are just finishing two \$8 million Brooks facilities: a School of Aerospace Medicine building and an office complex for the Center for Environmental Excellence.

"This is a poor city, and that's a fairly poor part of town," says Paul Roberson, who is coordinating the current task force. "We'll survive, but we'd rather survive with Brooks."

Closings have communities living on edge

By Steve Komarow
USA TODAY

The Pentagon announces Tuesday what could be the last round of military base closings for years to come, and dozens of communities are praying they've dodged the bullet.

Some, like Portsmouth, N.H., may have reason to celebrate. Its Navy base isn't on the list. Others, like Lubbock, Texas, which has an endangered Air Force base, may be searching for industries to replace thousands of lost jobs.

Long Beach, Calif., may see its shipyard closed.

"We've already been hit twice — the naval station and hospital," says Mayor Beverly O'Neill. "The city to this point has suffered a \$1 billion impact, and loss of the shipyard could mean another \$750 million" and 10,000 jobs lost, directly or indirectly.

Perhaps 20 major Army, Navy or Air Force installations and dozens of smaller ones are threatened with closing. The armed services use the base-closing process to reorganize, consolidate and, they hope, save money.

By 2000, the Pentagon says, more than \$4 billion a year will be saved from three earlier rounds of closings. Savings from this round will show up later.

Defense Secretary William Perry says he wants the base-closing process to continue after this year, the last one authorized by law. But he says he doesn't expect Congress will make that happen. It's politically too difficult.

Political troubles already are having an effect on the list being released this week, a bid its prospect for final passage.

Once Perry approves the Pentagon plan, it goes to an independent commission with members appointed by President Clinton and congressional leaders. Some of those appointments were made with home-state interests in mind.

For example, Senate Majority Leader Bob Dole, R-Kan., nominated retired Army general Josue Robles, former commander of the 1st Infantry Division at Fort Riley, Kan.

The Army is moving 1st Division headquarters to Germany, leaving two brigades behind. Robles' appointment gives Kansans confidence the commission won't move the troops elsewhere.

The commission will be under pressure to add more closings to the Pentagon list, which is far more timid than expected. For example, the Air Force, though sharply downsized in past years, declined to close any of its five major repair depots.

"They didn't want to bite the bullet," says Jay Wink, deputy director of the 1988 base closings commission.

"It's an absolute imperative" that the commission review that decision, he says — even though depots, often more than bases, affect lots of jobs.

So nervous are some communities about the closings they've spent tens of thousands of dollars on consultants and sent their leaders to lobby.

That process goes into high gear now. The commission, headed by former senator Alan Dixon of Illinois, starts hearing next week and must make its recommendations by July 1.

Clinton then gets to review the list and pass it on to Congress for a final up-or-down vote.

Contributing: Tom Bradford in Long Beach, Calif.

Big void seen looming in local research

By Jim Hutton
Express-News Staff Writer

The closing of Brooks AFB with its highly educated work force will create a void in local research efforts, with many highly skilled workers fleeing the city, officials said Tuesday.

The Defense Department's recommendation to close Brooks was called stupid and significant by members of San Antonio's scientific community.

"To me, it's utter stupidity to close

Brooks," said Dr. Tom Butler, a retired colonel who spent 15 years at Brooks and now is chairman of the department of laboratory animal medicine at the Southwest Foundation for Biomedical Research.

Butler's comment came before Defense Secretary William Perry officially announced that Brooks was on the list for closure as part of military downsizing brought on by the end of the Cold War.

For the Southeast Side installation, that means research and development fa-

cilities like the Armstrong Laboratory and the School of Aerospace Medicine will be relocated to Wright-Patterson AFB in Ohio.

More than 240 people with doctorate degrees and 560 with masters' degrees along with countless physicians, scientists and engineers, work at Brooks in varying areas of research related to the Air Force's overall mission with several

See **SCIENTISTS/4A**



- Brooks a major loss4A
- Politics allegation5A
- Kelly news a relief5A
- Analysis: Politics' role7A
- ALCs survive Round 1 ...7A
- USAA's Robles named...4B
- Editorial1E
- S. Side firms worry2E
- Brooks contractors2E
- Group ready for fight2E

civilian applications. For Butler and other local researchers, their departures would mean terrible news.

"It's one of a kind. The people are so specialized at Brooks — one-of-a-kind jobs. Letting them all go in San Antonio would present a problem," Butler added.

Of course, many will relocate, others will stay locally and some will retire, said Olivia Guerra, civilian personnel officer at Brooks.

Additionally, Butler said, "even if you don't have a contract with them, you can ask them a question and get the information."

"It's like they're not in the military, and we're not civilians," said Butler, referring to the sharing of scientific data.

Brendan Godfrey, director of the Armstrong Laboratory for the past seven months, agreed the lab's departure would be a drawback locally.

"The lab contributed significantly to the community," Godfrey said. "We have numerous ties in the community — contracts, adjunct professors and joint projects."

"Losing a facility the size of Armstrong is not good for the community. But San Antonio has a robust high-tech community. The strong ties we have, however, will be broken by distance."

"The greatest asset of this lab is its people. My desire is to bring as many as I can to Wright-Patterson."

During an afternoon news conference at Brooks, Brig. Gen. Robert Belihar, commander of the Human Systems Center, said: "From my vantage point, my position is I support Brooks' closing. But hope springs eternal."

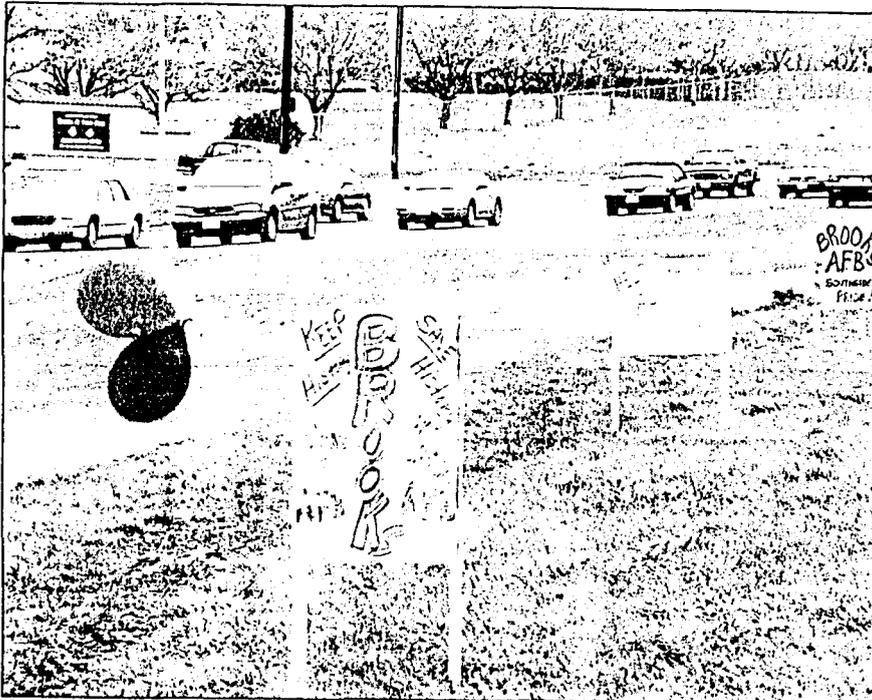
"There will be a void in the research and development community. When the mission moves, you like to see the experts move. I don't see anything to fill the void left by Brooks."

Another local researcher, Dr. David Wood, has had a professional relationship with Brooks since 1964.

"I've been in communications with Brooks on a daily basis since 1964, studying the long-term effects of space radiation," said Wood, a staff veterinarian at Southwest Research Institute.

He served 14 years at Brooks in the Air Force and three years as a civilian. Also, he has a research grant from NASA for continuing space-radiation studies.

"Brooks' closing is going to have



And the campaign begins ... signs supporting Brooks AFB line Southwest Military Drive on Tuesday across the street from the main entrance to the installation.

PHOTO BY GLORIA FERNIZ

“ Brooks' closing is going to have a significant effect on the research community. ”

— Dr. David Wood, researcher

a significant effect on the research community," Wood said. "Quite a few Brooks alumni have prominent positions at the (University of Texas) Health Science Center, Southwest Research and Southwest Foundation.

"The abruptness of it will have a negative impact on the R&D (research and development) community."

Belihar said the closure would be implemented within two years, with final shutdown after six years.

Locally, there has been much collaboration between facilities, including Brooks, in many research fields.

Martin Meltz, a Ph.D at the Health Science Center and Director of the Center for Environmental Radiation Toxicology (CERT), said losing Brooks would be devastating.

"This would be a major setback for the aspirations of the city, the loss of dollar input, intellectual capital and loss of colleagues," Meltz said.

"Many scientists will be lost overall," he added. "Some had patents out of the Armstrong Lab. Brooks itself is a resource for the development of biotechnology not exploited by the community."

"Aspirations to gain biomedical technology in the community now will be a loss to the community."

He said CERT is a collaboration between UTHSC, Armstrong Laboratory, Southwest Research Institute, Southwest Foundation for Biomedical Research, UTSA and Trinity University, consisting of 55 scientists from six facilities.

"We created a graduate programs — master's and Ph.D — in the radiology program, with a

large number — 12 to 15 civilian and military — coming from the Armstrong Lab.

"If it goes, we'd lose highly skilled individuals, and it would be a major loss to our graduates. During the semester, they give one or two lectures in a course. One of the Armstrong people organized an eight-lecture series."

"The advantage of having investigators is they can serve as mentors on research projects or with doctoral theses," Meltz said.

"Ask this question: 'How hard is it to get private or public labs of this magnitude to come to San Antonio?'"

In making its recommendations, the Department of the Air Force stated: "The Armstrong Lab and Human Systems Center operations at Brooks AFB contributed less to Air Force needs as measured by such areas as workload requirements, facilities and personnel."

"The labs (Air Force's four 'Super Labs' including Armstrong) were looked at collectively," Belihar said.

Meanwhile, Godfrey said he was familiar with the recommendation but had not read it.



PHOTO BY KEVIN GEL

Mayor Nelson Wolff addresses a group of Brooks AFB backers during a news conference Tuesday after the base closure announcement.

San Antonio's changing military

Here's what San Antonio's military bases are gaining and losing in terms of individual missions as a result of the Defense Department's base closing recommendations. Exact numbers of personnel for all units were unavailable. There are no changes at Randolph AFB.

Brooks AFB Cost to implement: \$185 million

Organization	Relocation site
Human Systems Center	Wright-Patterson AFB, Ohio
Armstrong Laboratory	Wright-Patterson AFB, Ohio
School of Aerospace Medicine	Wright-Patterson AFB, Ohio
Air Force Drug Testing Lab	Unknown
68th Intelligence Squadron	Kelly AFB
Air Force Center for Environmental Excellence	Tyndal AFB, Fla.
710th Intelligence Flight (AF Reserve)	Lackland AFB
Hyperbaric medicine	Lackland AFB

Kelly AFB

Organization	Coming from
Air Force Inspection Agency	Kirtland AFB, N.M.
Air Force Safety Agency	Kirtland AFB, N.M.
Field Command Defense Nuclear Agency	Kirtland AFB, N.M.
68th Intelligence Squadron	Brooks AFB
485th Electronic Installation Group	Griffiss AFB, N.Y.

Fort Sam Houston

Organization	Coming from
Fitzsimons Army Medical Center	
Medical Equipment and Optical School	
Optical Fabrication Laboratory	Aurora, Colo.

Lackland AFB

Organization	Coming from
710th Intelligence Flight (AF Reserve)	Brooks AFB
Hyperbaric Medicine	Brooks AFB

Source: Defense Department

EXPRESS-NEWS GRAPHIC

4B Wednesday, March 1, 1995

San Antonio Express-News

A division
of The Hearst Corporation

Editorials

Brooks' mission is one of a kind

With the news that Brooks AFB is on the 1995 Base Realignment and Closure Commission's hit list, San Antonio's job between now and Sept. 1 is to convince the BRAC why it should save the "Knowledge Base."

Brooks is the smallest of the five local military installations, but — manpower-wise — the creme de la creme: Of its 2,400 civilian employees, 962 are doctors, scientists and engineers. Forty of them teach at local colleges.

Brooks is closely intertwined with local medical and scientific institutions. Ironically, its environmental experts support cleanup operations at previously closed military installations.

Its Armstrong Laboratory, Human Systems Center and the Air Force School of Aerospace Medicine provide scientific research for all the service branches.

"We have a half-billion in contracts, we're heavily involved in interservice, and a lot of our technology transitions both ways — military and private," says Human Systems commander Brig. Gen. Robert Belihar.

In his last official act on Nov. 21, 1963, President John

F. Kennedy dedicated four buildings still in use at the base.

Some options/arguments the BRAC should consider:

- What is the cost of shutting down Brooks and transferring its distinguished work force elsewhere? Brooks' unique mission is essential. Is moving it cost-effective?

- Related to that, could Brooks be closed and its mission moved next door to Kelly AFB? Both are in the Air Force Materiel Command. Consolidation would be less disruptive to the work force.

- Finally, before closing Brooks, the BRAC should consider a subtler aspect of that move: the Air Force's historic, longstanding, wonderful relationship with San Antonio and its people. Is there a better military city in the United States? No way.

Having said all that, two final thoughts:

- The city and the state should prepare a contingency plan for the Brooks site if it closes.

- Sen. Phil Gramm should put his presidential campaign on hold long enough this year to fight for Brooks and the other Texas bases on the BRAC hit list.

Research at Brooks AFB will go on elsewhere

By Kristi Gibbs
Sun Staff Writer

The type of research conducted at Brooks AFB must continue regardless of whether the base is closed, according to two scientists who work on the base.

But many local civilian researchers probably would lose their Air Force support contracts, one scientist said.

Brooks did appear on an unofficial Defense Department draft list that surfaced Saturday. Defense Secretary William Perry was required to release the official list to the Base Closure and Realignment Commission by Wednesday, March 1.

"(If Brooks closes), it will take all our re-

sources away," said Douglas R. Eddy, a senior research scientist with NTI Inc., a contractor that supports Air Force research. Brooks provides office space and equipment necessary for the research.

Eddy said specific contracts, including one with the National Aeronautics and Space Administration for an experiment on Space Shuttle Columbia, will continue, even if Brooks is closed.

But aside from those contracts, he said, "I'll be looking for another job."

According to a San Antonio Express-News report, 962 doctors, scientists and engineers work at Brooks. Some are civilian contractors, and others work in the Armstrong Laboratory, one

of four super labs in the Air Force Material Command. The Armstrong Laboratory specializes in research to enhance human capabilities.

"This is kind of a quiet place, but there's a lot of work that goes on here at a fairly high level," Eddy said. "(If Brooks closes), it's going to dramatically change the flavor of San Antonio."

Research in the Armstrong Laboratory is vital to the Air Force, said Jonathan French, who works in the Armstrong Laboratory.

"They're asking air crews to fly 20-, 30-hour missions and we're researching ways to help sustain long-duration missions," French said.

"We're making plans up to the year 2000. Whether we do it here or someplace else is another question, I guess."

Southside Sun
1 Mar. 95

Officials set 'holy war' to stop Brooks closure

By Don Driver
and Christopher Anderson
Express-News Staff Writers

City and community officials are huddling together, planning strategy sessions for a "holy war" to fulfill their singular mission — saving Brooks AFB from the Pentagon budget ax.

"The battle has started to save Brooks AFB," Tulos Wells, chairman of the Greater San Antonio Chamber of Commerce, said over the weekend. "We had a sense that Brooks was going to be on the list.

"I have said in the past that this community will lead a holy war to make the case for Brooks," Wells said, sounding the battle cry for the community to rally behind Brooks.

To express your
opinion of
Brooks closing,
call 554-0500
and punch 7226.

ExpressLine
888
888
888

The shot that prompted the declaration of jihad, or holy war, was fired Saturday when Defense Department recommendations for base closure were leaked out, identifying Brooks as being on the military's hit list.

The official list of proposed closures and realignments must be released to the Base Closure and Realignment Commission by Wednesday, March 1. That release marks the beginning of the final round of

base closures authorized by Congress to close down obsolete installations and combine the missions of others to reduce the military's operating budget.

The draft list revealed over the weekend did not include Kelly AFB, one of the largest employers in San Antonio.

Mayor Nelson Wolff said he was pleased that Kelly AFB was apparently not on the list for recommended base closures, noting that the community's full attention can now be devoted to Brooks.

"Kelly employs five times more workers than Brooks does and now we can breathe a sigh of relief and feel good about that," Wolff said.

"Now, we need to orient our actions towards Brooks and come up with a plan on

See TEJEDA/8

Southside Sun
Pg. 1

Tejeda: Brooks on closure list not end of world

Continued from 1

how to approach and articulate our arguments to keep the base open."

Wolff planned to meet with city and community officials on Monday to review strategy and coordinate activities to save the Southeast Side installation, which is home to the Armstrong Laboratory and the Air Force's School of Aerospace Medicine. More than 2,400 civilians work on the base, alongside more than 2,000 military personnel.

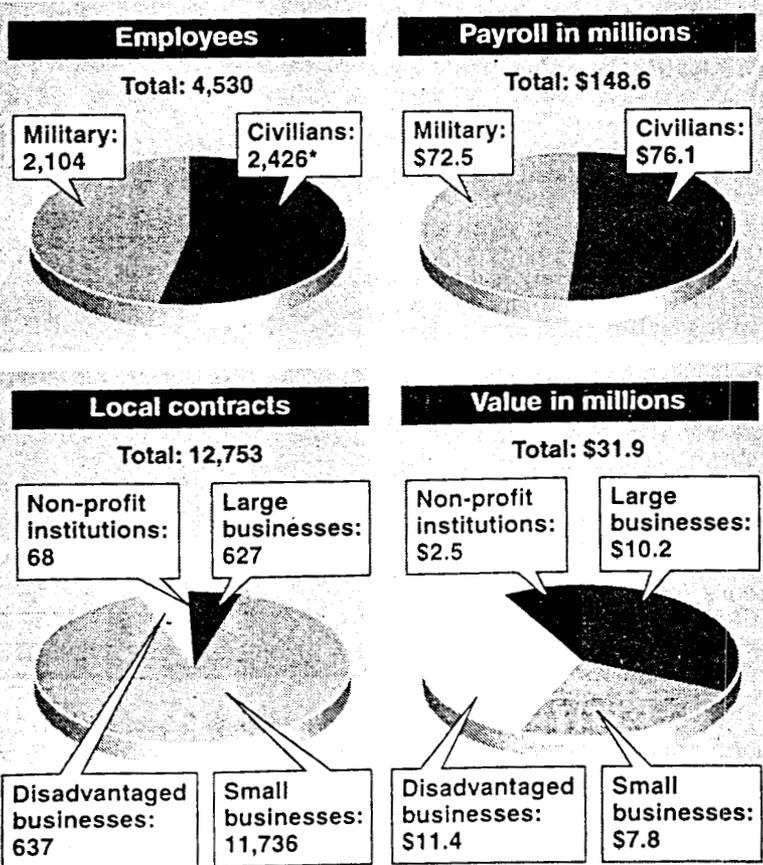
"We already have a strategy and we're going to be reviewing it and going over our assignments," said retired Brig. Gen. Paul Roberson,

a Greater San Antonio Chamber of Commerce vice president who is heading up a \$250,000 lobbying effort to save San Antonio's military installations from closure.

U.S. Rep. Frank Tejeda, D-San Antonio, in whose district Brooks is located, said it is merely Round 1 in the battle.

"At this point it is not gloom and doom for San Antonio," he said. "No one should portray that Brooks being on the list is doomsday or the end of the world. First of all, it's not over, and secondly we're going to do everything we can possibly do to put up the best defense for Brooks AFB."

Brooks' 1994 impact on S.A.



*Includes contractors' employees working full time on the base

Source: Brooks AFB Public Affairs

Brooks contractors evaluate future

By Patricia Konstam
Express-News Staff Writer

Some Brooks AFB contractors hope to continue or replace their work if the base closes, but others fear being left out in the cold.

For small, minority-owned construction contractors like Astra Quality Services Inc., losing work at Brooks would be a body blow.

News that Brooks is on the Defense Department's base-closing list is "devastating, a shocker," said Elvia Garza, president of the 28-employee company. "It will affect us pretty bad."

Nine-year-old Astra, owned by Garza and her husband, Andrew, has an exclusive contract to handle small repairs at Brooks and is in the middle of negotiations to extend that contract for five years.

The contract, worth \$2 million to \$5 million — and now uncertain — represents more than half of the general contracting company's anticipated revenue for the year ahead.

"They say the missions can go to Wright Patterson (AFB near Dayton, Ohio). But where do the contractors go? Where do their employees go?" Garza said.

She hopes the Defense Department will reconsider what she regards as a hasty decision.

"Brooks is being sacrificed at the last minute," she said. "My understanding is it was sacrificed (to save) Kelly."

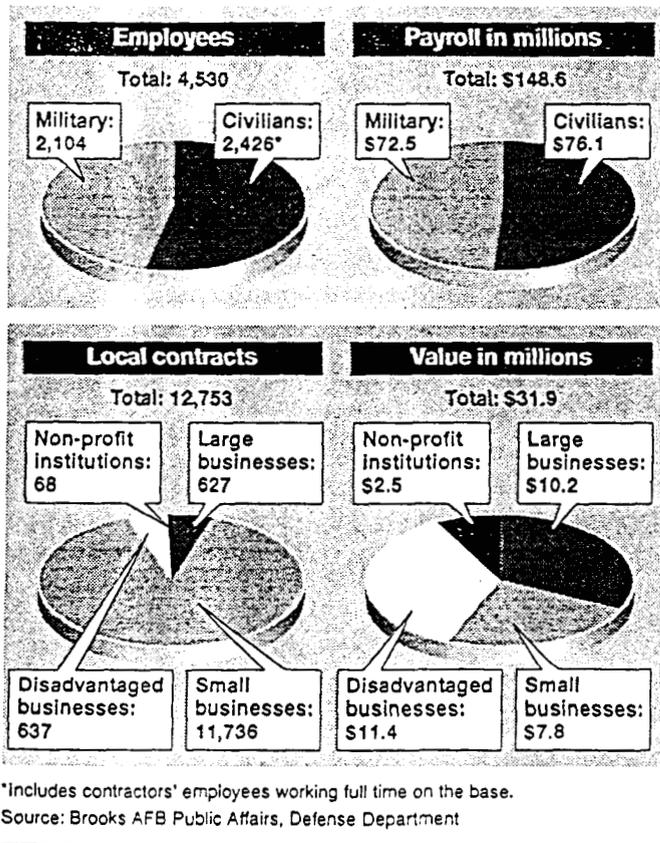
Astra is one of about 19 SBA 8(a) contractors with a total of \$9.1 million of contracts at Brooks. Certified by the U.S. Small Business Administration as disadvantaged, they are eligible for certain reserved contracts.

"Brooks has been well-known for setting work aside for SDBs (small disadvantaged businesses) and 8(a)s in construction. Other bases don't do that as much," Garza said.

"Minority construction contractors will be really hurt at Brooks."

Brooks' impact on S.A.

As of September 1994.



GRAPHIC BY EMMETT MAYER III

Contractors providing technical services to Brooks expect some work to continue at bases to which Brooks' functions may be relocated. But jobs also would move.

"We would think that if the work is transferred to Wright-Patterson, the support (contracts) will continue," said Max Navarro, president of Operational Technologies Inc.

"But there will be a loss of jobs

in San Antonio. People would have to be hired in Dayton, or would transfer there."

With contracts to supply environmental engineering systems analysts and post-doctorate researchers to Brooks, Operational Technologies has 45 of its 230 employees stationed on the base. Those jobs would move.

For technologically based com-

panies like Operational Technologies, the base is a rare local source of contracts.

"Brooks is the only other source of research contractual opportunities in San Antonio" aside from Southwest Research Institute and the University of Texas Health Science Center, Navarro said.

"We will have to find (contracting sources) in other parts of the country," he said. "It's bad for San Antonio when we start losing research and high-tech capability."

Although Brooks administers contracts that totaled \$560 million in fiscal 1994, only \$34.1 million — 6 percent — went to San Antonio businesses and non-profit institutions. Of that, \$31.9 million came from the base contracting office.

"In terms of the research budget itself, I don't see that (closing Brooks) will have a major impact on San Antonio," said George Ensley, president and chief executive officer of the Texas Research and Technology Foundation.

Brooks has 1,820 military and 1,939 civilian employees, earning a combined \$148.6 million last year.

It's not the money but the brainpower and state-of-the-art laboratories that local research institutions and universities would miss.

The loss of 960 medical doctors, scientists and engineers from Brooks' Human Systems Center would constitute a "harmful brain drain" from the city, the Southwest Foundation for Biomedical Research said in a statement.

"It would be a serious loss of research resources to the community," said Ray Elizondo, dean of College of Sciences & Engineering at the University of Texas at San Antonio.

"For UTSA specifically, a number of our faculty do collaborative projects of various kinds with scientists there, so it would be a loss for our faculty and even some of our students," Elizondo said.

Brooks great place for airport

If the closing of Brooks AFB is inevitable, we need to take a look at its future uses.

The buildings would make an excellent two-year or four-year college, and the airstrip would be an excellent reliever airport.

Stinson Field is not a good reliever airport and never will be. During bad weather there would be a conflict with the Kelly AFB instrument approaches, closing Stinson down when it would be most needed.

Instead of buying more land for Stinson, which is not in a good location, is poorly managed and is infrequently used, there is enough property at Brooks for runways up to 8,000 feet long.

It provides excellent access to Interstates 410 and 37, and there are no cemeteries on its northern border. Cemeteries are not an encouraging sight when you are making an approach.

Alex Thomas

Kids tell what they think of Brooks

By Jim Hutton
Express-News Staff Writer

Romance and the possible closure of Brooks AFB were drawn together Friday.

Students at Schenck Elementary School took time to write letters to members of the Base Closure and Realignment Commission, urging them to keep the base on the Southeast Side open.

On Tuesday, Brooks was placed on the Defense Department's closure list, which has been given to the commission for further review.

"Obviously, these letters won't make or break what happens, but the students wanted to show their support of the 65 kids from Brooks," Principal Michelle Barrera said.

In one letter, a student wrote: "I don't want Brooks to close, because theirs (sic) a guy that likes my mom, and if they close down Brooks then he'll never have snacks for us, or have toys for us, and he'll never get to talk to anyone."

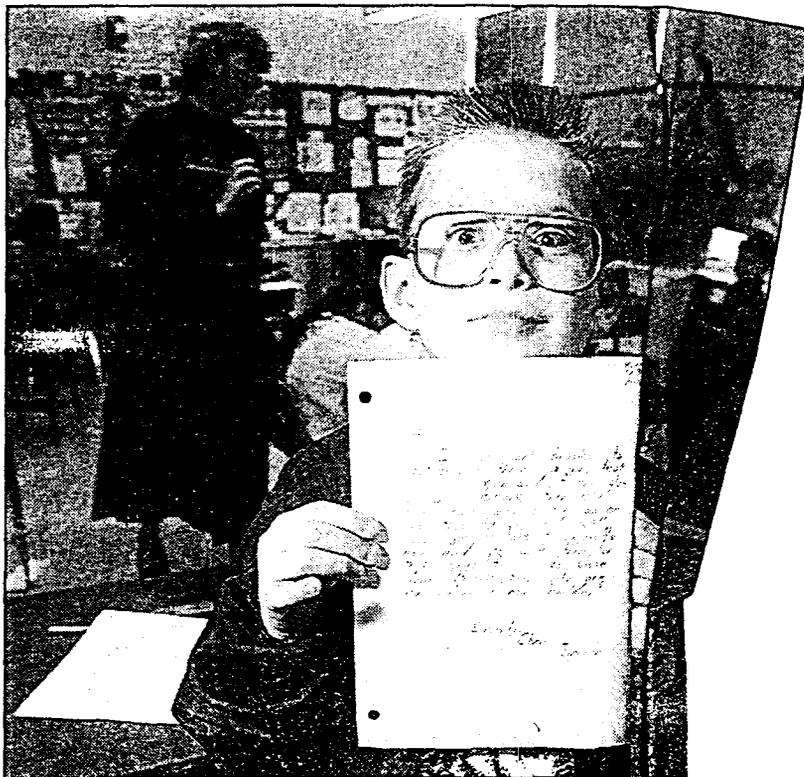
"My mom used to work there for 6 1/2 years. If you do close down Brooks, then why are you making a new building?"

At least two buildings costing more than \$16 million will be completed by the middle of next year.

Letters from many of the 720 students at the San Antonio School District facility will be given to base officials Monday, Barrera said.

Even the prekindergarten and kindergarten students participated by dictating letters to their teachers, the principal added.

"We're inviting Brooks' parents to school to be with their children on Monday for a morale-support-



Chris Jimenez, a third-grader at Schenck Elementary School displays his letter urging Brooks AFB not be closed. Students attend Schenck in the San Antonio School District.

ing event," Barrera said.

She said the school had been working with Brooks this year "to do some creative things."

"The base is lending an aerospace engineer to teach an extended science class," Barrera said. "Now this announcement (of closure) has put a disappointing cloud over it."

"Our parents from Brooks probably put in 500 to 1,000 hours a month in school programs and doing the local Boy Scouts program in the area," Barrera added.

School officials and students realize a closure could mean the end of many friendships.

A first-grade student wrote: "I don't want Brooks AFB to close (sic) I don't want my friend Robert to move (sic) they don't have anywhere to go."

Another student wrote similar words for a friend named Rebecca.

Also, a kindergarten student wrote: "My dad works for the (sic)

Brooks AFB. Brookie me feel happy."

Another student, said he lived on the base, "I love going out on the line and skating and flying in. When I have no one to play with I can go to the youth center."

Speaking of several kids from Brooks, one student said: "They are tired of moving 12 times in five years. So please, don't close Brooks."

Barrera, who has worked in the district for 15 years, said she never worked with the military until she came here three years ago.

"I've enjoyed my relationship with Brooks. I've learned to be flexible in a lot of ways because a death in the family may mean a student is gone a week or two instead of going to the funeral the next day."

"You can't ask, 'Where have your children been for two weeks?' I've learned to be sensitive to their needs."



PHOTO BY BOB OWEN

Third-grader Matthew Thomas, whose mother works at Brooks AFB, writes a letter to military officials requesting the base remain open. Students at Schenck Elementary School wrote letters in support of 65 classmates who live on the base. See story on Page 3B.

Role of water issue jolts anti-base-closing official

By Cindy Tumiel
Express-News Staff Writer

The official leading the fight to save local military installations said Friday he was surprised the Pentagon considered the area's water woes in evaluating three of the city's Air Force bases.

"We thought that we had at least taken the edge off the water issue," said Paul Roberson, senior vice president for military affairs with the Greater San Antonio Chamber of Commerce. "But that's clearly not the case."

Brooks, Kelly and Randolph



AFBs all received low marks from the Pentagon in the environmental category of water. The Defense Department wants to close Brooks.

City and business community officials say the low grades were at least partly due to ongoing water litigation, which clouds the bases' long-term access to the Edwards

See **SAN ANTONIO/3B**

Brooks closure protested

By Anastasia Cisneros-Lunsford
Sun Staff Writer

Closing Brooks AFB would have a negative impact not only on its employees but also on the surrounding community, especially military retirees, readers say.



Readers who called the Southside Sun ExpressLine last week agreed that closing the 77-year-old air base would affect Southeast San Antonio residents and businesses.

Mary Kivela said she wants Brooks to stay open.

"I'm very much against the closure of this base because the whole Southeast community will deteriorate. Also the small (businesses) will suffer," she said. "There are many old retirees and their spouses here and we all would miss it. It's too far to go to other bases."

Earlier this month, the Department of Defense included Brooks on a list of military installations proposed for closure.

With four key units at Brooks — Armstrong Laboratory, the Human Systems Center, the U.S. Air Force School of Aerospace Medicine and the Air Force Center for Environmental Excellence — the base employs more than 5,000 people.

The Base Closure and Realignment Commission is reviewing the list and has until May 17 to make any changes.

John Winfield Sr., president of the Highland Hills Neighborhood Association, said a Brooks closure would have a negative impact on more than just the community.

He said the costs of (transferring operations) and closing the base would save the government very little money.

"(But) it definitely will have an impact in the area, especially small businesses. Some restaurants rely on Brooks patronage almost at 50 percent," Winfield said.

He said he is also concerned about the number of military families that could move from

the area.

"I also think the city should have been planning (a reuse plan for Brooks) all along," he said.

JoAnn Reedy, a Highland Hills resident and military dependent, said she wants to know what will happen to the construction projects at Brooks that the military has started.

In April, base officials broke ground for a new Consolidated Academic Complex at a cost of \$8.9 million.

"If they know they are going to do these closures, then they should not invest in something that's going to sit there," Reedy said.

She said her husband is retired from the military and that they would miss shopping at the commissary, the base exchange and the thrift and hobby shops, and they would miss the beautiful view of the golf course.

Mary Keel said her family also would miss Brooks if it closes.

"My children use Brooks for recreation and we've grown up in this area and we would hate to see it go," she said.

Betty Vangjel, a Southeast Antonio resident since 1965, said military retirees and their spouses who live in the Brooks area would encounter a change in lifestyle.

"There are senior citizens who don't drive or who don't drive far," Vangjel said, adding that many retirees live near the base go to the clinic for medical visits, or shopping for groceries at the commissary, or to take care of financial needs at the Randolph-Brooks Federal Credit Union.

She said she moved to the Southeast area to be near Brooks AFB.

Dorothy Wedgeworth said the government should make other budget cuts rather than close Brooks AFB.

"I think if (the government) is going to tie the budget on our military then they're crazy. Our defense — we need that. If they want to cut down on the budget, I think Congress needs to cut down on their personal income," she said.

*Southside
Sun
15 Mar. 95*

Brooks backers plan big rally for BRAC visit

By Don Driver
Express-News Staff Writer

A wide-ranging public display of support for beleaguered Brooks AFB is being readied to greet four members of the base closure panel when they visit the threatened installation April 6, officials said Monday.

"What we want to do is demonstrate the concerns of the people of San Antonio and that the workers at Brooks care about that base," said Paul Roberson, a retired Air Force brigadier general who is project director for the mayor's task force trying to keep the base open.

Jesse Salcedo, union president at nearby Kelly AFB, added: "We want to get all the community sup-



port we can get — people on the sides of the road and at the base entrance, holding signs and showing support for Brooks."

It will be the first time members of the Defense Base Closure and Realignment Commission, commonly called BRAC, get a personal view of the base, which the Pentagon wants to close.

A full-scale regional BRAC hearing on recommended closures and realignments will be held April 19 in Dallas.

Other Pentagon-recommended
See BROOKS/3B

Continued from 1B

moves on Texas bases include closure of Red River Army Depot in Texarkana and Reese AFB in Lubbock, as well as major realignment of Corpus Christi Naval Air Station.

One of the four members on the San Antonio visit is expected to be retired Army Maj. Gen. Joe Robles Jr., an executive with USAA Financial Services in San Antonio.

The other three are expected to include Rebecca Cox of California, Wendi Louise Steele of Houston and Benjamin Montoya of New Mexico.

Local officials learned Monday of the scheduled April 6 visit to Brooks, home of the Air Force School of Aerospace Medicine and the Armstrong Laboratory. Nearly 4,000 military and civilians work at the base.

"It's important," Roberson said Monday after a meeting of the executive committee of the mayor's task force. "It will be the first opportunity for them to see Brooks' mission. I'm sure the community will be able to talk to them and give our rationale for keeping Brooks' missions in San Antonio."

He said the local task force is

SAN ANTONIO EXPRESS-NEWS

DATE _____

PAGE _____

still running a computer analysis of Pentagon figures and expects to have a strategy in place next week to launch its defense.

Officials know their work is out for them, since few installations in past rounds have escaped the budget ax once they have appeared on the Pentagon's hit list.

City Councilwoman Lynda Burke was appointed to a committee to prepare the public support during the BRAC visit.

She vowed it would be a demonstration during a BRAC visit to Kelly 17 years ago. Kelly at the time had a BRAC review list for closure, but eventually moved from the list.

"We're going to put on a show as Kelly's was," she said.

Meanwhile, the task force is keeping a wary eye on the city largest military installation which was pegged for closure by the Pentagon.

The BRAC panel has 17 to propose changes to the Pentagon's list, and local officials are concerned that a member that is how it will affect itself in harm's way due to

base closure round.

The BRAC panel has been critical of the Pentagon's review of this year which spared a number of the Air Force's maintenance shops, including the San Antonio Logistics Center at Kelly, but instead realigned some tasks at the installations.

A General Accounting Office review of the Pentagon's methodology is scheduled to be completed by April 15.

"That's very important," Brooks said. "If, as we expect, the methodology is sound, it's that whole issue to rest. I can't let our guard down."

He added that officials from the four BRAC members will visit Brooks, but he will be seeking clarification on whether he plans to visit Kelly.

Salcedo, president of the American Federation of Government Employees Local 1617, represents workers at Kelly and will visit Washington Monday to round up additional support for Brooks.

"I'm also concerned that it not get on the list," he said.

grou
of th
teri
It
nifi
me
ma
th
mi
thi
th
I
pe
we
dis
I
tur
alo
ear
Ser
hib
H
ref
mer
the
Ti
an
the
He
and
dign
puni
Ame

DATE 13 Mar. 95PAGE 11A

Deed Brooks to researchers

Re: The Brooks AFB closure:

I love Roddy Stinson when he says, "Hold on to your wallet."

The March 1 editorial said: "The city and the state should prepare a contingency plan for the Brooks site if it closes."

And comments by Councilman Lyle Larson on Page 5A: "... but we also should look at setting up some contingencies for using the property (in case) the base closes."

I fear the city, county and/or state is setting us up for a tax increase to fund these contingencies.

I would favor a nontax-supported group being deeded the property, and let it make a go of it as the Southwest Research Institute and the Southwest Foundation for Biomedical Research have done. They have proven records of excellence.

Everitt M. Mahon

Editorials

Losing Brooks cuts vital service

Is the Pentagon forgetting about the environment?

After many years of strong environmental concern and dramatic improvements, there seems to be a mood in our country to abandon this.

Congress is moving to nullify or reduce the effect of environmental regulations.

Closer to home, the closure of Brooks AFB would also mean closure by the Air Force of its center for environmental programs.

Brooks is home to the Air Force Center for Environmental Excellence and Armstrong Laboratory's Occupational and Environmental Health Directorate. The 700 to 800 individuals from these organizations represent some of the leading environmental scientists in the world.

These groups take the Air Force's worldwide lead in environmental research and development, base cleanups, environmental impact studies, base compliance with environmental regulations, BRAC environmental closure needs and worker safety.

The Air Force will tell you that these vital groups will be moved to Ohio and Florida, but they will probably lose greater than 50 percent of these experts, who will choose to go elsewhere, find other local jobs or retire early.

Moving a complex operation such as this will reduce its effectiveness for years because of loss of certifications, long lead times of moving very complex equipment and operations and lack of proper space at the new locations.

The world-famous environmental effort now at Brooks AFB will take years to recover from this drastic move, if it ever does.

Are we getting a message that we should forget about all the sensible environmental gains we have made?

This is obvious when one looks at what the Pentagon is proposing to do at Brooks.

Thomas Thomas

San Antonio

¥ 1.00

Business Journal

VOLUME 9, NUMBER 8

SERVING CENTRAL AND SOUTH TEXAS SINCE 1987

WEEK OF MARCH 10-16, 1995

Loss of Brooks will sting local tech base

By SANFORD NOWLIN

Brooks Air Force Base's closure could create a serious brain drain for a city striving to improve its technology and research base.

The facility, which was recommended for closure by the Department of Defense earlier this month, is home to major Air Force research facilities such as the Human Systems Division, the Armstrong Laboratory and the School of Aerospace Medicine.

Brooks employs nearly a 1,000 scientists, doctors and engineers on staff, and also works in cooperation with a number of research and development organizations in San Antonio. Not surprisingly, local research and business professionals, San Antonio's research facilities and many high-tech contractors will suffer setbacks if the base closes.

"It would be a big loss to the city in terms of intellectual ability and capital," says Mar-

tin Meltz, an associate professor at the University of Texas Health Science Center and founding director of the recently established Center for Environmental Radiation Toxicology (CERT).

CERT, headquartered at UTHSC, is comprised of 50 scientists that study electrical and magnetic fields and their effects on humans. Since the center's staff is comprised of scientists from UTHSC and other local research institutions, including Brooks' Armstrong Laboratory, a closure of Brooks would negatively impact the group, Meltz says.

Several other non-military research facilities also would be hit hard if Brooks closes its doors. Among them are:

- The Radiological Sciences Department at UTHSC, which relies on classroom and lab training provided by Armstrong Lab sci-

entists;

- The Southwest Foundation for Biomedical Research, which has supplied Brooks with baboons for aerospace medicine studies since the early 1980s;

• The Southwest Research Institute, which has conducted ongoing work for the Air Force Drug Testing Lab located at the base;

- The University of Texas at San Antonio, which conducts an electronic tutoring program at the base, called the Intelligent Tutoring System.

While some of the cooperative research involving local scientists may carry over to

Continued on page 24

BROOKS AFB

Total contracts administered: \$560 million

Total contracts for San Antonio businesses: \$34.1 million

→ → → → →
Civilian Employees: 1,939
Employees with advanced scientific degrees: 960

SOURCE: Brooks AFB public affairs; numbers reflect fiscal year 1994.

Brooks AFB:

Continued from page 1

Wright-Patterson Air Force Base in Ohio — the proposed site for several of Brooks' labs — the loss of proximity would severely hinder the opportunity for collaboration, Meltz says.

The closure of Brooks also would remove one of the city's chief biotech selling points. City leaders frequently point to the base, in addition to UTHSC and other non-profit research facilities, when trying to sell the city as an emerging biotech mecca.

"Without question, Brooks is a critical element in our city's bioscience strategy," says John Howe, president of UTHSC, and one of the city's most outspoken biotechnology proponents. "Without it here, we have one less facility to point to as an asset for the city's third-largest industry (biotechnology)."

Jay Campion, former president of the Texas Research and Technology Foundation, the non-profit group that promotes the Texas Research Park, says he is not aware of any San Antonio biotech start-up firms that have actually formed strong ties to Brooks.

But the foundation "always included Brooks when ... showing people the total R&D base in San Antonio," says Campion, now a special limited partner in the technology venture capital fund Woodside III.

The loss of contracting dollars linked to Brooks also would cause a problem for local firms employing people with advanced degrees. In addition, the loss of those funds will make it hard for some national firms to justify keeping their satellite offices open here.

Local firms account for a minimal amount of the contracts awarded by Brooks. Of the \$560 million in contracts administered by the base during fiscal 1994, \$34.1 million went to San Antonio firms, according to information provided by Brooks officials.

Also, only a small portion of the contracts won by local firms were granted to support high-tech missions. However, several local minority-owned firms, such as Operational Technologies Corp. (OpTech) and Galactic Technologies Inc., have developed contract relations with Brooks that involve high-tech projects.

"(If Brooks closes), San Antonio starts losing a lot of technical capability," says Max Navarro, chief executive officer of OpTech, which expects to do some \$2 million worth of contract work with Brooks this year. "The technical people outside of the nonprofit (research organizations) are going to have trouble finding work."

While Navarro says his firm plans to remain true to its San Antonio roots in the event that its work with Brooks dries up, national firms with offices here may be less inclined to keep them open if Brooks shuts down.

"If Brooks is the only thing they've fo-

cused on and the plug is pulled, then they're going to have to make a business decision," says Mike Anglea, area manager for CH2M Hill's South Texas region. "They'll have to decide whether it's more beneficial to keep the office here open and pursue other work, or whether they need to close it down."

CH2M Hill, an engineering firm which employs 15 people here, will not shut its doors, Anglea says. The firm has a large contract with the Air Force Center for Environmental Excellence, which is based at Brooks. However most of the staff involved in that contract are located at cleanup sites.

Among other national firms with offices here that help facilitate contracts with the AFCEE include Booz-Allen & Hamilton Inc., Earth Technology Corp. and Radian Corp. Information on plans those companies have if Brooks closes was not available at press time.

"Brooks is a critical
element in our
city's bioscience strategy."

— John Howe

In terms of Brooks' employee base, many research professionals that retire or decide not to move if the base shuts down may find themselves highly sought after by local R&D institutions, some industry observers say. Many former Brooks scientists now work at facilities such as UTHSC and the Southwest Foundation for Biomedical Research.

However, those same observers point out that there are only a limited number of positions that could be filled. Research professionals who do not make the move with Brooks will undoubtedly find themselves in a tough job market, according to Ray Elizondo, dean of the College of Sciences & Engineering at UTSA.

"I do believe some of those people would be able to be absorbed, but I doubt that all of them would be able to find positions," Elizondo says. "A lot of the work done at Brooks is very specialized."

Elizondo says organizations such as UTSA or some of the city's non-profit research organizations may gain the advantage of tapping into a new pool of qualified scientific professionals. However, he says the overall outcome for San Antonio will be negative.

The Southwest Foundation for Biomedical Research has tapped former Brooks employees for positions in the past. Southwest Foundation conducts research in areas similar to that undertaken at Brooks.

However, the organization will not be in a position to make a large number of new

Continued on page 25

hires, Southwest Foundation officials say. The organization now employs only 300 people, ranging from janitors to research scientists.

"If you look at the numbers realistically, not many could expect to find employment here," says Stacy Maloney, communications director for Southwest Foundation.

Officials with the larger, 2,500-employee Southwest Research Institute say unlike Brooks and Southwest Foundation, biological and behavioral research represents a small fraction of the work conducted at the institute — which translates into limited hiring opportunities.

"I think all of the research institutions have aspirations about helping the community, but I don't think any of the institutions are wealthy enough (to hire a large number of former Brooks staff)," says Meltz of UTH-SC.

Street rally vital step for Brooks

By Don Driver
Express-News Staff Writer

A street rally, complete with signs and banners supporting Brooks AFB, is planned for the April 6 visit of four base-closure panel commissioners to the threatened installation.

"It's tremendously important," said City Councilwoman Lynda Billa-Burke on Monday. Burke heads a committee coordinating the display.

Officials with the Mayor's '95 BRAC Task Force will have 15 minutes during the daylong visit to make a brief presentation to the commissioners, retired Brig. Gen. Paul Roberson said.

"The visit is principally designed for the base people and for commissioners to see the base," said Roberson, task force project director.

The task force will have its best opportunity to present its formal case in defense of Brooks at an April 19 regional hearing by the Defense Base Closure and Realignment Commission, commonly known as BRAC, in Dallas.

The mayor's task force met Monday afternoon to go over strategy in its quest to protect Brooks, which the Pentagon has recommended for closure.

The task force is still running a computer analysis of Pentagon figures used in reaching the decision to close Brooks. The base is home to the Air Force School of Aerospace Medicine and the Armstrong Laboratory.

Base closure team to visit Brooks in April

By Gary Martin

Express-News Washington Bureau

WASHINGTON — The base closure commission Wednesday begins a six-week tour of military installations targeted for elimination by the Pentagon, with a visit to Brooks AFB in San Antonio scheduled for April 6.

The Pentagon has proposed scuttling Brooks and moving its Air Force "super lab" to Wright-Patterson AFB in Dayton, Ohio.

Some smaller components at



Brooks would be moved to Kelly and Lackland AFBs in San Antonio.

"The base visits are intended to allow the commissioners to see an installation and talk with the commanders to assess the military value," said Wade Nelson, a spokes-

man for the Defense Base Closure and Realignment Commission.

Nelson said the itinerary for closure commissioners at specific installations is dictated by the base commander.

Commissioners tentatively scheduled to visit Brooks are: Benjamin Montoya of New Mexico, a retired Navy rear admiral; Joe Robles of San Antonio, a retired Army major general; Wendi Steele of Houston, a former aide to Republican Sen. Don Nichols of Okla-

homa; and Rebecca Cox of California, a Continental Airlines vice president who served on the 1993 base closure commission.

Nelson said commissioners would not visit the air logistics depot at Kelly AFB, which landed on the Pentagon list for major realignments.

All five Air Force logistics centers are slated for personnel cuts as part of the Pentagon's continued

See: BROOKS/5B

Brooks visit scheduled by closing panel

Continued from 1B

efforts to shrink the military.

While all lose personnel due to downsizing, logistics centers at Kelly, McClellan AFB in California, and Hill AFB in Utah receive additional personnel under the realignment of the depots.

Nelson said commissioners would tour the depot at Robins AFB in Georgia on Thursday and have scheduled an April 3 visit for the logistics center at Tinker AFB in Oklahoma.

Commissioners also have decided not to visit Corpus Christi Naval Air Station, which the Pentagon wants to reduce to an air facility by moving a pilot-training command to Pensacola, Fla.

Once helicopter operations are moved to Corpus Christi from bases on the East and West coasts, the Corpus Christi installations actually will receive more personnel than are now employed there.

Other Texas bases scheduled to receive a visit April 5 by the com-

““ *The regional hearings are more of an opportunity for communities to argue why an installation should not be closed or realigned. “It’s a chance for them to ask questions.* ”

— Wade Nelson, spokesman,
Defense Base Closure and Realignment Commission

mission are Reese AFB in Lubbock, and Red River Army Depot in Texarkana and the former Bergstrom AFB in Austin, both scheduled for April 6.

The Pentagon wants to close Reese and move its pilot-training mission to bases in Del Rio and Enid, Okla.

The Red River Army Depot would be dismantled, with its missions scattered to other Army installations.

The Air Force wants to move a

reserve unit at Bergstrom to available space in Fort Worth.

Nelson said the first base to be visited by the commission will be Fort McClellan in Alabama on Thursday. Commissioners plan to visit 54 installations nationwide between March 23 and May 3.

During that time, the base closure and realignment commission, commonly called BRAC, will hold regional hearings. The commission has scheduled a hearing in Dallas on April 19 for installations

in Texas, Oklahoma and Arkansas.

“The regional hearings are more of an opportunity for communities to argue why an installation should not be closed or realigned,” Nelson said.

“It’s a chance for them to ask questions,” he said.

The exact time and place of the Dallas hearing is yet to be determined.

Meanwhile, representatives of two San Antonio employees’ organizations traveled to Washington this week to urge lawmakers to protect Kelly’s depot and its 10,400 civilian employees.

The closure commission has voiced skepticism of an Air Force plan to keep open all five aircraft repair depots instead of closing the lowest-ranking installations: Kelly and the California depot at McClellan.

Larry Cheever, president of the Federal Managers’ Association at Kelly, said employees of the San Antonio base fear commissioners

On the road with BRAC

Here are the dates and locations for visits by the Base Closure and Realignment Commission of Texas bases targeted for closure or mission realignments by the Pentagon.

Date	Installation	Pentagon recommendation
April 5	Reese AFB, Lubbock	Close base
April 6	Red River Army Depot, Texarkana	Close depot
April 6	Bergstrom AFB, Austin	Relocate reserve units
April 6	Brooks AFB	Close base

Source: Base Closure and Realignment Commission

EXPRESS-NEWS GRAPHIC

could put the installations on a review list in May for further scrutiny.

Cheever was carrying a "points paper" that touts Kelly's strengths and rebuts weaknesses noted in an Air Force analysis.

"We're concerned," Cheever said. "We want to make a strong pitch."

Nelson said that if Kelly or other

bases are placed on a review list in March, commissioners then would visit those installations to give base commanders an opportunity to explain missions and illustrate military value.

Also in Washington to lobby lawmakers this week was Jesse Salcedo, president of the American Federation of Government Employees, Local No. 1617 at Kelly.

*San Antonio Business Journal -
March 17-23 1995*

PAGE 54

Brooks fate must be catalyst for change

As San Antonio prepares for life after Brooks Air Force Base, job loss, of course, will be a key area of concern. But the Department of Defense's recommendation earlier this month to close Brooks will create more than just an employment void: it will send a ripple effect through the city's emerging research and technology sector.

As the *Business Journal* recently reported, the 1,000 or so scientists and researchers at Brooks will be looking for new opportunities if Brooks shuts down. Unfortunately, many of those people may have to search outside the city to find work.

But the effects don't end with some of the best minds in the scientific community packing their bags: some of the research being conducted by Brooks' scientific staff is being done in cooperation with other research and development organizations in the city. Removing Brooks from the equation could impair some scientific studies in progress.

The situation at Brooks reminds us once more of the double-edged sword that the military is in San Antonio. It produces economic benefits, but it also can cut deeply if we depend upon it too much for our future economic welfare.

In some military circles, the philosophy goes that the best defense is a good offense. The city's business and political leaders need to continue their offensive with even more vigor to improve the educational and employment opportunities here in the scientific and technology sector.

Without such an ongoing commitment, the brain drain may not stop with Brooks' closure. It could continue moving north along I-35 to Austin, an emerging high-tech mecca willing and able to attract the minds and technology-related companies that San Antonio cannot accommodate.

Thursday, March 23, 1995 5B

SMU chosen as site of base closure meet

Express-News Washington Bureau

WASHINGTON — Southern Methodist University in Dallas has been chosen as the site for an April 19 regional hearing to be conducted by five members of the base closure commission, where San Antonio leaders plan to present their case to save Brooks AFB from elimination.

The hearing will be held at the Hughes-Trigg Theater at the SMU student center at 3140 Dyer St., officials announced Wednesday. Testimony begins at 9 a.m.

"This is the opportunity for the communities to get their positions on the record with the base closure commission," said Wade Nelson, a spokesman for the eight-member panel.

San Antonio leaders also are ex-

pected to endorse an Air Force plan to consolidate its five air logistics centers, instead of closing its two lowest-ranked facilities at Kelly AFB in San Antonio and McClellan AFB in Sacramento, Calif.

The regional hearing in Dallas will allow communities from Texas, Arkansas and Oklahoma to detail their objections to Pentagon recommendations on military installations in those states.

Nelson said the state's two senators, governor and congressmen whose districts include targeted bases will be notified of the hearing and given a block of time to present cases for each individual facility on the list.

San Antonio leaders will be given time for Brooks and the maintenance depot at Kelly.

Marketing strategy for Brooks pushed

Firm says city should be looking for tenants

By Jim Hutton

Express-News Staff Writer

San Antonio should be formulating a marketing strategy to attract potential tenants now before the possible closure of Brooks AFB becomes reality, officials from a national consulting firm said.

"We advise our clients to devise a marketing strategy even when they are trying to head off a base closure," Vernon George, president of Hammer, Siler, George Associates, said recently.

The Silver Spring, Md.-based company provides economic and development consulting for local governments and agencies, private corporations and universities, George said.

"About one-fourth of our work over the last four decades has been with local communities (nation-wide) facing base closures," George added.

Brooks AFB made Defense Secretary William Perry's closure list in late February.

Now that list is being reviewed by the Base Closure and Realignment Commission, commonly called BRAC, which can make additions or deletions to the list by mid-May.

The Mayor's '95 BRAC Task Force, fighting to protect San Antonio's military installations from shutdown, is hoping to make a brief presentation to members of the base closure commission April 6 on their tour of Brooks AFB.

A detailed presentation will be given April 19 in Dallas at the regional BRAC meeting for Texas and neighboring states, said Paul Roberson, task force project director and a retired Air Force brigadier general.

““ Communities should establish parallel committees — one putting up a good fight (to save the base) and the other going in a back room to discuss what if it (closure) happens.”

— David Slater,
firm vice president

After being involved in developing economic game plans for "45 to 50" communities facing base closures, George said: "Attracting tenants takes some time."

Local leadership has indicated it prefers to make every effort to save Brooks before considering what types of clients-tenants to lure to the Southeast Side site should the base officially be closed.

Charles Cheever, a co-chairman of the task force, has said contingency plans have not been discussed.

He added that waiting until mid-May or July 1 when the list goes to President Clinton for approval or disapproval in its entirety wouldn't prove to be a hardship in securing future tenants for Brooks, if necessary.

But Cindy Taylor, president of the Southside Chamber of Commerce, has said: "As far as contin-

gency plans, it's ludicrous to wait to the last minute."

Insiders hinted to the San Antonio Express-News that marketing strategies could be discussed as early as late April or early May.

The decision to wait to discuss contingency plans is common in communities facing base closures, said David Slater, vice president of Hammer, Siler, George Associates.

"The most typical responses are to head off the (base closure) decision and get it reversed," George said about gathering data. "Second, the thrust is to go through the procedural process to get it off the list (by making presentations to the commission). Third, it's the marketing of the bases (destined to close)."

"Communities should establish parallel committees — one putting up a good fight (to save the base) and the other going in a back room to discuss what if it (closure) happens," Slater said.

"A marketing strategy on what part of the base and equipment may be attractive should be done while reaching out to resources (tenants), which may take a year or more (to achieve success)," George said.

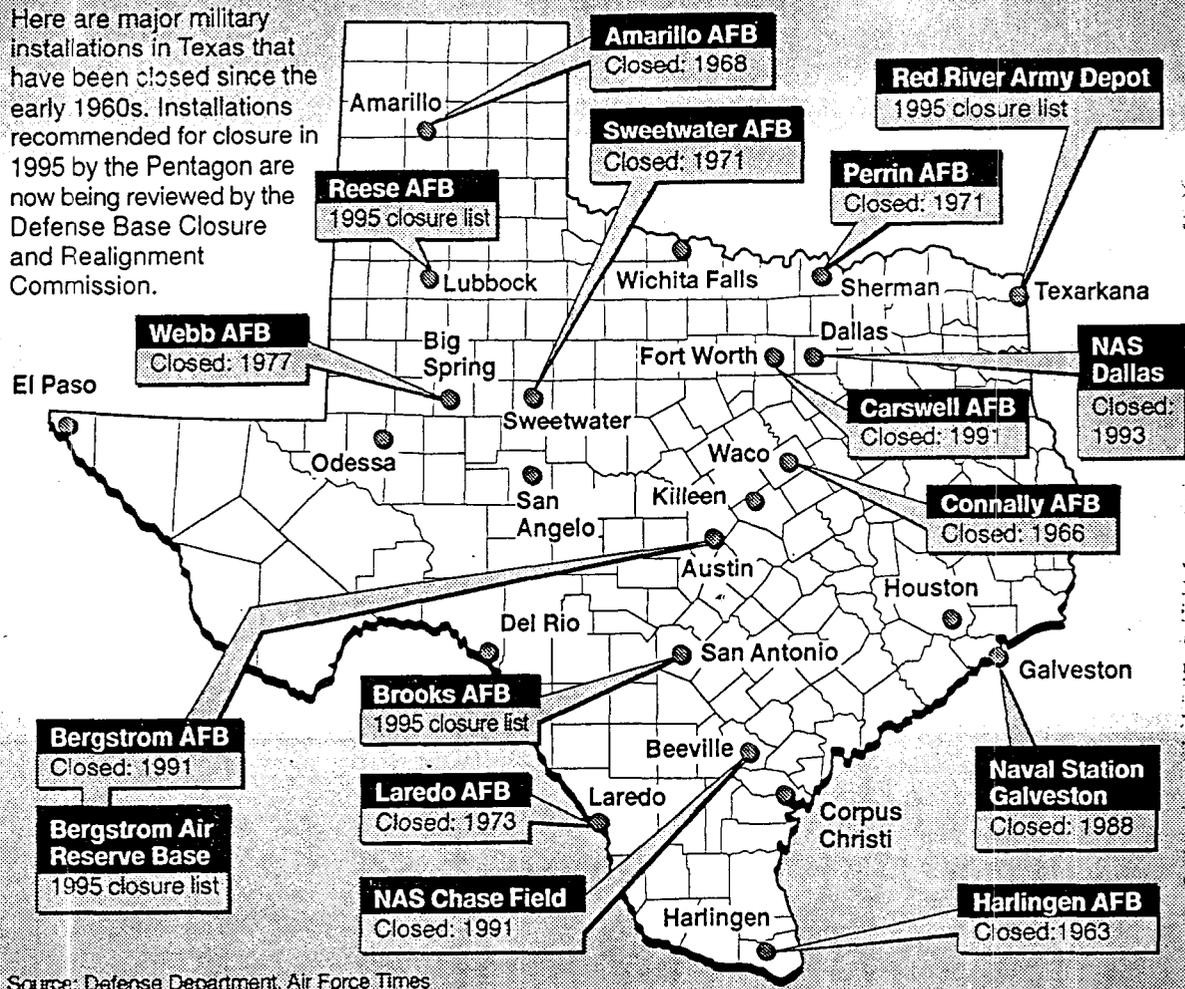
Slater cautioned, however, that a community should never "establish a promotional campaign because it doesn't own the base."

Often, closed bases are deeded by the federal government to city governments, according to past base closure commissions.

George and Slater said they had not been in contact with any San Antonio governmental officials. However, both said that in 1993 they were at Brooks on separate

Texas' vanishing military installations

Here are major military installations in Texas that have been closed since the early 1960s. Installations recommended for closure in 1995 by the Pentagon are now being reviewed by the Defense Base Closure and Realignment Commission.



Source: Defense Department, Air Force Times

GRAPHIC BY P. ZELLER

consulting trips, talking to people on environmental and base closure issues.

The company did a study — "San Antonio Socioeconomic Assessment" — in 1977, examining the relationship between the San Antonio region and its four Air Force bases.

Calling San Antonio's military situation "unique," George said: "The bases in San Antonio made up such a large economic impact on the community that it was obvious that base closures for smaller communities would prove even more dramatic."

Mario Hernandez, president of the Economic Development Foun-

datation, said he had received a letter and newsletter from a base closure and realignment group.

"The company touted its specialized in working with communities where base closures were occurring," Hernandez said. "If the unfortunate thing occurs (Brooks closes), we would not want to limit our options."

Additionally, George said: "Air Force bases fared better than Army posts and Navy bases when closures occurred."

"A number of uses related to Air Force bases" fit better in the private sector, "like large hangars for industry," Slater said. "Another common use is manufacturing and

warehousing looking for inexpensive space. Universities and (business) offices, too.

"Training simulators and the environmental experts (at the Air Force Center for Environmental Excellence at Brooks) offer privatization potential."

The environmental center has been scheduled to shift to Tyndall AFB in Florida.

"(Private sector) people quickly will size up the unique environmental building and when the human resources will be available," George said.

Construction of the \$8.4 million environmental headquarters building will be completed in July 1995.

Senator visits Brooks facilities

by Jim Hutton
Express-News Staff Writer

Texas Sen. Kay Bailey Hutchison on Friday toured Brooks AFB, providing optimism that San Antonio's endangered military installation can be saved.

"It's always a hill to climb when a base is on the list," said Hutchison, R-Houston, during a news conference in the Officers Club.

"I met with the commission and the chair (Alan Dixon) and have looked at the data they gathered," Hutchison said about the Defense Base Closure and Realignment Commission.

"I feel good about the story of Brooks. It's a center of excellence which can't be duplicated in Ohio," she added.

Coming Sunday

SURVIVING A CLOSURE

In Sunday's San Antonio Express-News, we begin a series of stories, 'Surviving a Closure,' that looks at what the future may hold for Brooks AFB.

The Pentagon has recommended the School of Aerospace Medicine and Armstrong Laboratory at Brooks be relocated to Wright-Patterson AFB in Ohio.

Brooks is part of the Air Force Materiel Command, headquartered at Wright-Patterson.

Brooks was placed on Defense Secretary William Perry's closure list revealed in late February as part of the 1995 base closure and realignment process, commonly called BRAC.

The Pentagon's "hit list" now is in the hands of the BRAC Commission for review until mid-May when deletions or additions to the

See HUTCHISON/2B



PHOTO BY BOB O

Sen. Kay Bailey Hutchison speaks at a news conference at Brooks AFB. Mayor Nelson Wolff and Lynda Billa Burke listen.

Hutchison optimistic despite Brooks' status on closure list

Continued from 1B

list can be made.

Hutchison said the medical center complex on the Northwest Side and specifically the University of Texas Health Science Center enables "Brooks to share brain power" with the medical community.

"Another sharing story is about 200 miles down the road at NASA which dovetails with the aerospace medicine here," the lawmaker added.

The senator admitted San Antonio's continuing water woes are a major problem for local bases.

"San Antonio needs a supplemental water supply," she said. "This is a big red flag. We saw it in the Air Force's ratings for this area."

Also, Hutchison said she was try-

ing to push through legislation to place a moratorium on new list to the Endangered Species Act, a focal problem in San Antonio's water problems with the federal government.

"I want to make sure no bases are hampered by the Endangered Species Act," she added. "It must take precedence over species."

Surrounded by many local citizens and governmental leaders, Hutchison said she and Sen. Phil Gramm would meet with members of the Texas delegation after the regional BRAC hearing in mid-April in Dallas to show keeping Brooks really would provide savings to the Air Force.

S.A. told: Plan early for closure

Flexibility aided Fort Worth for life after Carswell AFB

By Mike Menichini

Special to the Express-News

FORT WORTH — San Antonio leaders fretting over the possible closing of Brooks AFB can get some advice from their counterparts here who went through the same thing.

Start planning early for what to do with any closed facility, get as many people involved in the process as you can and be flexible, because things can change quickly.

"You really can't start planning too early," said Fort Worth Mayor Kay Granger, who helped shepherd the city through the closing of Carswell AFB in 1991.

"Once the decision is made, fighting the closing is a losing battle. You're not going to change their minds. So you have to get everyone involved in deciding how best to use the base for the community," said Granger, who

SURVIVING

A

CLOSURE

- MONDAY: Laredo
- TUESDAY: Beeville
- WEDNESDAY: Austin

serves on a base closings task force for the U.S. Conference of Mayors.

As in San Antonio, Fort Worth's development in the 20th century was tied closely to aviation and the military.

The Army built an airstrip in what was an open prairie in the 1940s, and the Air Force took it over in 1948. For years it was F-16s that the Air Force flew there, jets built at nearby General Dynamics plants.

Over the years, the city grew out to the edges of the base. Former Speaker of the House Jim Wright, on more than one occasion, called the deafening roar of the jets the "sound of freedom."

The patriotic description helped the attitudes, if not the ears, of the people living and working under the landing path of the planes.

The scream of military jets still can be heard, but General Dynamics has been replaced by Lockheed, and the Air Force F-16s are all but gone. Instead, Navy F-14s, Army helicopters and Air Force cargo planes are likely to be landing and taking off.

The jets are there because of a combination of

TEAM EFFORT, LUCK AIDED FORT WORTH

Continued from 1A

ings, including community effort and a bit of good fortune.

In 1991, Fort Worth was hit directly in its weakened economic tank. The scheduled closing of Carswell was going to mean the loss of more than 7,000 military and civilian jobs.

Ironically, one of the most marketable assets of a closed airfield — the airstrip — was what Fort Worth needed the least.

The city already had Dallas-Fort Worth International Airport and Alliance Airport, a huge airfield north of the city developed by Ross Perot Jr. to attract businesses that could fly in and out with their materials. Three smaller municipal airports handle most private jets and airplanes in the area.

"We sure didn't need another airport," Granger said.

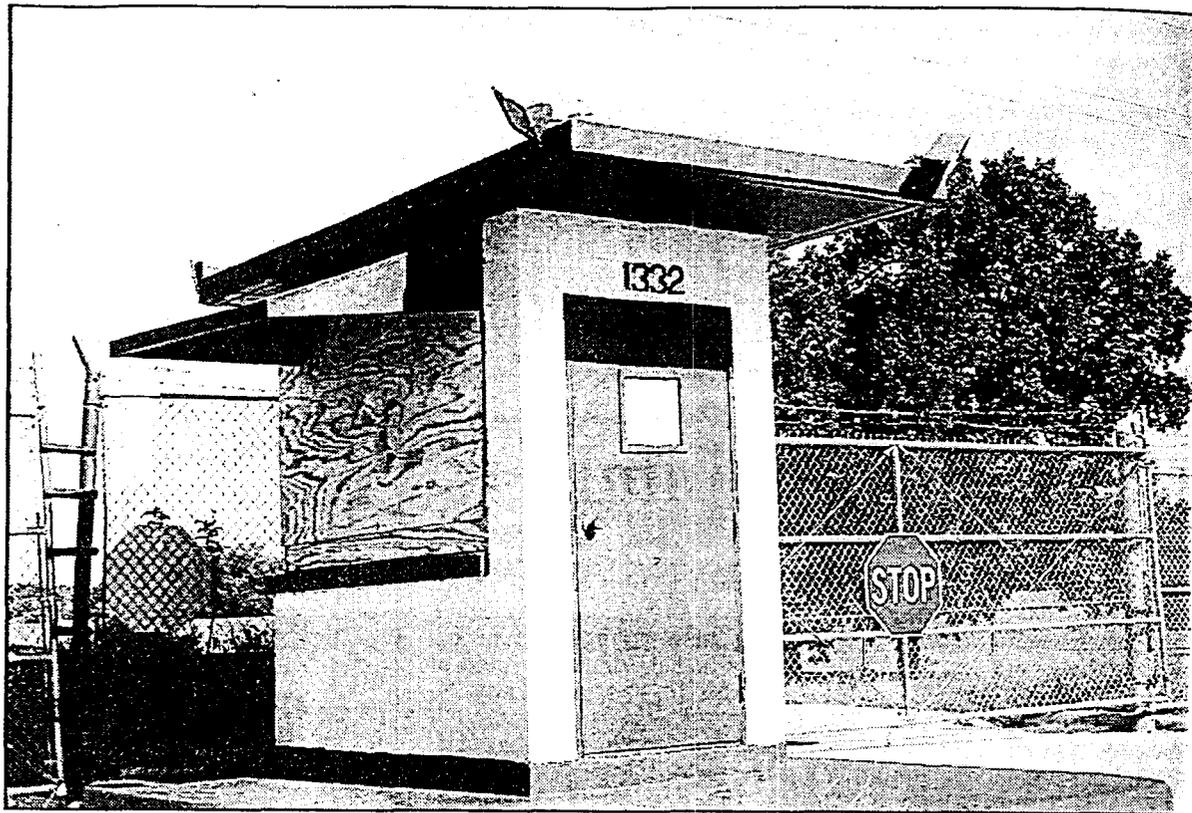
But the open hangars, classrooms and machine shops left by the departed Air Force attracted attention from about 200 businesses in the early stages of post-active life, according to Derrick Curtis, executive director for the Carswell Redevelopment Authority.

The authority comprises nine members from Fort Worth, Tarrant County and two smaller communities — White Settlement and Westworth Village — in which parts of the air base land are located.

"At first it looked like we were going to have to develop some 2,200 acres," he said, referring to the approximate size of the entire base.

Then one of those quick changes occurred — Fort Worth benefiting from another result of military downsizing — consolidation.

The Navy, looking for a place to



PHOTOS SPECIAL TO THE EXPRESS

The east gate has been closed and the security police building boarded up at Carswell AFB in Fort Worth.

move its crowded Dallas reserve facility, decided it could use part of the base. So did the Army, the Marines and the Texas Air National Guard.

All four decided to move both full-time and reserve personnel to the base — moves that are expected to be complete next year. More than 8,600 people will come to Carswell, but only 2,000 of those will be full-time military. The rest are reservists and civilians.

Still, it's a good trade for the city.

"That's what we wanted," Granger said. "We told them, if you're going to consolidate, look at Carswell."

The total bill for readying the base is estimated at \$131 million.

The simple moniker of Carswell AFB has been replaced by Naval Air Station Fort Worth/Joint Reserve Base. Road signs on Interstate 30 refer to it as NAS Fort Worth JRB. Locals still call it Carswell.

As a bonus, the federal Bureau of Prisons converted the base hospital into a facility to care for some female prisoners.

Between the full-time military and reserves and the prison hospital, the joint base now employs 4,500 people. It has been less painful than trying to bring in companies piecemeal, Curtis said, but it is still not a complete tradeoff for more than 7,000 Air Force jobs.

It also changed the job of the redevelopment authority, part of the reason for flexibility, Curtis said.

Now the authority has to figure out what to do with the assets outside the base fence, including hundreds of residences that once housed base personnel and a golf course that once was the private domain of military golfers.

The golf course was easy. In an organizational arrangement as clear cut as the new name for the base, the golf course is owned by the military, developed by the authority and managed by a private company, Brooks-Baine Golf Inc.

It's been harder to figure out what to do with the houses.

The homes, built in the heyday of the 1950s and '60s, don't meet modern building codes and contain asbestos materials and lead-based paints, Curtis said.

While federal regulations for homeless agencies to buy the houses, Curtis said the \$12,000 per house needed to ready them for use disappears many.

Studies are being done to see whether the houses could be demolished at a reasonable cost. The land developed. But an estimated \$8 million then would have spent on infrastructure improvements — water, sewerage, and electricity — to ready development.

"We have to see if we can take this free gift," Curtis said.

If not, it would be up to the government to auction off the property.

"Whether or not that would be good for the community is something that has to be considered," he said.

While the federal government has become better at working with communities facing base closure, Granger said, there is still something that cannot be stressed strongly.

"You have to be aggressive and not let the federal government do what is good for your corporation."



Crew members from seven Marine Corps transport planes arrive in August 1991 at Carswell. More than 1,800 Marines will be at the base after

Military support isn't welfare

Re: proposed closure of Brooks
AFB letter by Jane Schillaci:

First, you must realize that as
our military gets smaller and a
larger number of installations are
eliminated, so is the security of
your loved ones diminished.

Yes the military's mission is
not to support local economics. Yet
our local civil servants' mission is
to support the U.S. armed forces.

You say it is a welfare system
for civilians who work it? If it
were not for the support facilities
that repair, manufacture and
transport our military forces,
someone would need to train, edu-
cate and continually re-educate
thousands of "recruits" who will
serve no more than three or four
years in active duty service.

If you have any knowledge of his-
tory, you know that war has been
around since Cain and Abel, and
that dark cloud over our head will
be there forever.

Money saving? Budgets? With
territorial conflicts all over the
world, do you think our "shrink-
ing" military and support facili-
ties (both military and civilian)
will be enough to save you and
yours in case of war?

Mr. & Mrs. Eddie Guevara

City prepares to reveal strategy for Brooks AFB

By Jim Hutton
Express-News Staff Writer

City and civic leaders plan to unveil their strategy Thursday for fighting the potential closure of Brooks AFB.

The executive committee of the Mayor's '95 BRAC Task Force met Tuesday in the Municipal Plaza Building to "fine-tune the strategy," said Paul Roberson, task force project director.

Defense Secretary William Perry placed Brooks on the closure list in late February after the Pentagon reviewed Air Force recommendations.

The list is in the hands of the independent Defense Base Closure and Realignment Commission,

commonly called BRAC, before making final additions or deletions by mid-May.

Also, Roberson said the commission will hear the "Texas block" initially during its regional hearing April 19 in Dallas.

"Brooks will be first with a 60-minute presentation and we will make voluntary comments on Kelly (AFB)," added Roberson, a retired Air Force brigadier general.

Kelly AFB wasn't on the closure list but rated low among four other air logistics centers nationwide.

Roberson said the task force also would make statements to "defuse the water issue which rated a red flag" in consideration of San Antonio's military installations.

The city, state and federal gov-

ernment still are at odds over the availability and pumping rights of the Edwards aquifer. This follows a lawsuit by the Lone Star Chapter of the Sierra Club that cited violations of the Endangered Species Act in South Texas.

"We feel we need to take water off the commissioners' minds as an issue," Roberson said.

On Monday, Roberson was in Washington.

"I visited our congressional delegation and got them up to speed," he said. "I also talked to the commission staff."

"We believe we are looking at the same numbers (as the Defense Department) and can preserve the missions and jobs at Brooks."

Kelly 'annex' plan would keep 3,000 Brooks AFB jobs in S.A.

By Don Driver
Express-News Staff Writer

The primary missions and most of the jobs at threatened Brooks AFB would be saved under a unique annexation plan, that still calls for the base itself to be closed, Mayor Nelson Wolff said Thursday.

The city's counterattack to a Pentagon recommendation to close the base and move its missions and personnel to installations

City leaders battle to save base's missions

in Florida and Ohio was unveiled one week before a visit to Brooks by members of the independent Defense Base Closure and Realignment Commission, commonly called BRAC.

Local supporters of Brooks hope to convince BRAC to keep the base's primary research and medical missions at or near their pre-

sent locations in two, non-contiguous "cantonment" areas, while closing the rest of the facility around them.

The plan would save more than 3,000 jobs at the Southeast Side base.

"We have concluded that it would be futile to argue to retain Brooks AFB as it exists today,"

Wolff said in a prepared statement.

"We believe we have developed an option which allows the Air Force to close Brooks; realize savings over 20 years which are far greater than their current plan; and, at the same time, retain Brooks' missions in San Antonio," the mayor said.

The Armstrong Laboratory, School of Aerospace Medicine and the Air Force Center for Environmental Excellence would be retained, but all base support functions either would be eliminated or relocated to Kelly AFB.

"We could call it the Brooks Annex at Kelly AFB," suggested retired Brig. Gen. Paul Roberson, project director of the Mayor's BRAC '95 Task Force. "It would

See **CITY LEADERS/8A**

SAN ANTONIO EXPRESS-NEWS

Continued from 1A

collapse Brooks into a small industrial/office complex which will be a skeleton of what's there now."

As an example, there would be no medical clinics, commissary, base exchange or other similar facilities, he said.

The bulk of the base's 1,310 acres, other than the cantonment areas, would become available for reuse as an office or industrial complex, according to the task force.

The plan officially was unveiled Thursday during a news conference at which Wolff and other task force members donned blue T-shirts with white letters reading: "Keep Brooks Working!" The other side of the T-shirt reads: "Brooks, The Knowledge Base."

Under the plan, the base still would lose 391 military and civilian jobs, and 518 others, primarily base support positions, would be relocated to Kelly.

But about 3,000 other threatened jobs would remain, saving moving costs and keeping the base's highly educated work force in San Antonio.

The plan, supporters said, would save \$301 million over 20 years and would avoid a \$185 million upfront cost in closing the installation and relocating its missions and personnel elsewhere.

"This is the best option we have to keep as many jobs as we can in San Antonio," said Dino Urdiales, president of the American Federation of Government Employees at Brooks and a task force member.

Defense Secretary William Per-

ry has recommended to BRAC that Brooks be closed, with the Armstrong Laboratory and the School of Aerospace Medicine relocated to Wright-Patterson AFB, Ohio. The Air Force Center for Environmental Excellence would go to Tyndall AFB, Fla.

An \$8 million academic complex for the aerospace medicine facility and a \$7.2 million environmental excellence site are both nearing construction at Brooks, projects that began long before the Pentagon recommended closing the base.

The mayor's task force realizes it has a difficult task ahead of it since, historically, only 15 percent of the installations have ever been spared the budget ax by BRAC once they were placed on the Pentagon's hit list.

"We didn't want to get into an argument with the Air Force and Defense Department challenging their data," Wolff said. "We know the odds are tough so let's go with something that makes good sense."

Jose Villarreal, task force co-chair, said: "It's a unique plan. This is something unlike any other community has done. We're not contesting (Defense Department) data, but (are) coming up with a unique approach."

"The result is a win-win situation which results in savings to the Pentagon, and we get the retention of at least 3,000 jobs."

Charles Cheever, another task force co-chairman, said cantonments are not new to the Air Force and some already exist at other installations in the United States.



PHOTO BY STEWART F. HOUSE

Paul Roberson, project director of the local base closure task force, shows his support Thursday of a plan to save key missions at Brooks AFB. Task force co-chairman Charles Cheever (left) and Patty Larsen of the Greater San Antonio Chamber of Commerce joined Roberson in outlining the plan to the San Antonio Express-News Editorial Board.

Ironically, the Pentagon's base closure report proposes to keep the Phillips Laboratory in cantonment at its present site at Kirtland AFB, N.M.

Phillips and Armstrong are two of the Air Force's four "super labs."

Roberson told the San Antonio Express-News Editorial Board that he briefed BRAC staffers about the plan Monday and said: "I sensed they were intrigued with the idea."

Chuck Pizer, a BRAC spokes-

man, said staff members are reviewing the proposal.

"The technical guys will run all the numbers and take a look at it," he said by phone from Washington. "We'll give it due consideration."

Task force officials already have briefed congressional members on the proposal.

"It's a very sound and very solid strategy," said U.S. Rep. Frank Tejeda, D-San Antonio, in whose district the base is located. "If accepted by BRAC, the strategy presents a win-win situation for all parties involved."

The Brooks AFB strategy

■ **Cantonment:** Military term for quartering of troops. In case of Brooks AFB, keeping the three primary missions in same or nearby locations, but as annex of Kelly. Majority of military acreage on Brooks is closed and becomes office/industrial complex.

The two plans:

Pentagon recommendation

- Close base
- Move Human Systems Center, Armstrong Laboratory, School of Aerospace Medicine to Wright-Patterson AFB, Ohio
- Move Air Force Center for Environmental Excellence to Tyndall AFB, Fla.
- Eliminate 391 base support jobs
- Move 3,228 military and civilians to Ohio and Florida

Cantonment option

- Close base
- Keep the center, laboratory and aerospace medicine school in present or newly constructed sites
- Keep center in newly constructed site
- Eliminate 391 base support jobs
- Move 518 military and civilian base support jobs that face elimination to Kelly and keep the remaining 3,228 jobs on Brooks

The cost factor

	Pentagon option	Cantonment option
■ Cost to implement	\$185 million	\$11 million
■ Savings over 20 years	\$142 million	\$301 million
■ Annual recurring savings	\$27.4 million	\$21.6 million
■ Return on investment	7 years	Immediately

The cantonment payoff

- More than 3,000 jobs would be retained in San Antonio
- Saves millions in upfront costs compared with implementing Pentagon plan
- Avoids disruption to research and environmental programs
- No loss of scientists to local community
- Existing cooperative efforts between Brooks and the local biomedical research and teaching community continues

Source: The Mayor's BRAC '95 Task Force

GRAPHIC BY P. ZELLER

"we in San Antonio would have several options for reuse of the excess capacity. It would put valuable assets back in the tax base and provide an economic generator for the South Side, which has been needed for many years."

Task force officials are to give a 15-minute presentation on the cantonment plan to four BRAC commissioners during a scheduled April 6 tour of Brooks, Roberson said.

The plan formally will be presented to the BRAC panel at an April 19 regional hearing in Dallas.

The task force plans a massive demonstration of support for Brooks at San Antonio International Airport when the four BRAC commissioners arrive late April 5, and also when they leave the base the next day.

Officials said they were disappointed that the Pentagon chose to put Brooks on the hit list, but the Air Force concluded it has excess capacity, it has to reduce its laboratory infrastructure and Brooks scored lower than the three other "super labs" in terms of priorities.

Additionally, Brooks, which has no operable runway, has limited potential to absorb operational missions, and the Air Force can achieve considerable savings over a 20-year period by closing the installation.

However, the task force claims, even more can be saved under its cantonment plan.

It also claims San Antonio has a unique configuration of biomedical research and teaching facilities that provide a close rapport and association with Brooks and

enhances the installation's mission.

The task force proposal would reap twice the savings of the Pentagon shut-down plan over 20 years and would avoid disrupting research and environmental programs by not having to relocate personnel, members claim.

The cantonment plan calls for two separate areas to be set up on the base to house the remaining missions.

The Armstrong Laboratory and the School of Aerospace Medicine, and other related operations, would basically remain where they are in the northwest corner of the base, according to Roberson.

The Air Force Center for Environmental Excellence would be located about one mile east, where construction already is under way.

"That would basically be just another office building in the reuse area," Roberson said.

Wolff said city staffers already are boning up on how other communities handled military installation closures.

He plans to consult with community leaders and his successor after the May 6 election, before appointing a task force to explore options on how to reuse Brooks.

No matter what the BRAC panel decides, it will be about 18 months before any operations will start leaving Brooks, officials said. It will take about two to four years

for any relocation to be completed.

"We have adequate time to plan for reuse of the base outside of the cantonment area," Wolff said.

City Councilwoman Lynda Billa Burke, in whose district the base is located, said she leans toward at least some of Brooks' excess acreage being used for educational facilities.

"I'm determined to put higher education out there," she said.

Meanwhile, the task force still is keeping a wary eye on the San Antonio Air Logistics Center at Kelly AFB.

BRAC commissioners have expressed skepticism over the Pentagon's plan to cut personnel at Kelly and the other four Air Force maintenance depots rather than close one or more of the centers.

The Air Force maintains it would cost too much to close one or two of the massive industrial complexes.

Kelly ranked in the bottom tier among the five depots and could be vulnerable if the BRAC panel opts to close one of the facilities.

A key factor will be a General Accounting Office report on methodology used by the Air Force in reaching its conclusions on the five depots. That report is due April 15, followed by a hearing two days later.

The BRAC panel has until May 17 to make changes to the Pentagon's closure list.

Military cuts set unless funds OK'd

Associated Press

WASHINGTON — The military is so strapped for funds it will order Air Force pilots to cut flying hours 25 percent, curb overhauls on two aircraft carriers and halt several major Army and Marine Corps training exercises unless Congress votes more money in the next week, Pentagon officials said Thursday.

"It will create ... a lot of training problems and a lot of difficult financial problems," Pentagon spokesman Kenneth Bacon said, referring to reports of slow progress by House and Senate negotiators on resolving substantial differences in a supplemental defense spending bill.

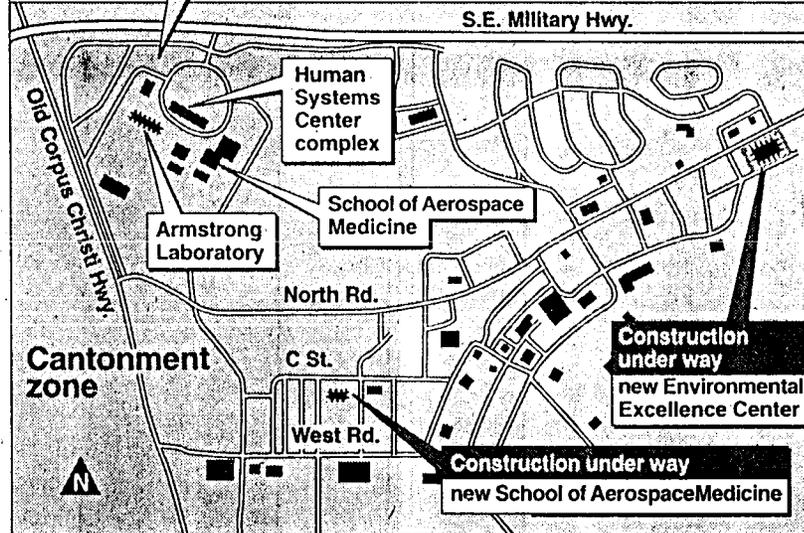
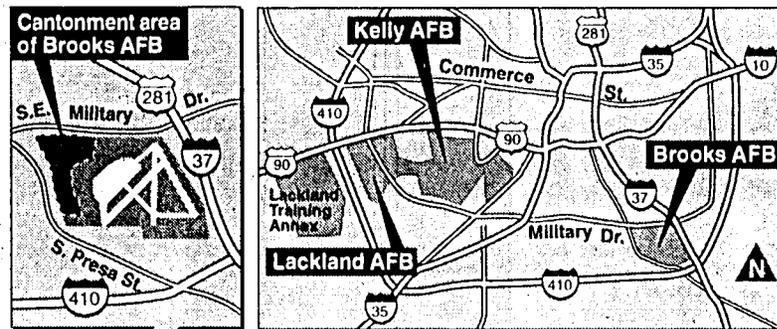
But while talks continue, the military services must make decisions about what to do with their troops and weapons, Bacon said.

"Reduced training and reduced readiness would hurt the military. It will remain a very strong, ready, highly disciplined and supple military, but it will not remain trained to the very edge of its abilities, which is what the current budget is designed to do," Bacon said.

The cuts, outlined by the various services for the next month alone, amount to nearly \$333 million worth of activities.

Savings Brooks' missions

Roughly more than 75 percent of Brooks AFB would be closed as part of a 'cantonment' strategy to save three key missions. The Human Systems Center complex, including the Armstrong Laboratory, and the new School of Aerospace Medicine would remain in an area on the west side of the base and would be annexed by Kelly AFB. The Air Force Center for Environmental Excellence would move into a \$7.2 million building nearing construction about a mile east from the systems complex.



GRAPHIC BY P. ZELLER

Building projects at Brooks to be completed as planned

By MELINDA FULMER

As Brooks Air Force Base's future hangs in the balance, two multimillion-dollar real estate projects are proceeding uninterrupted at the site.

The new \$7.9 million building that will house the Air Force Center for Environmental Excellence (AFCEE) and a consolidated academic complex for the School of Aerospace Medicine, which has an \$8 million price tag, are currently under construction at the base.

These projects, which are both scheduled to be complete by year's end, may be a saving grace for Brooks, some observers say.

"The economics of moving those missions does not work for the Air Force," says J. Tulos Wells, chairman of the Greater San Antonio Chamber of Commerce.

Wells says the Mayor's Base Realignment and Closure task force will have to demonstrate that point to the base closure commission when they visit San Antonio in April. The high price tag for the two new buildings will be a plus for the task force in that regard, according to chamber officials.

The Department of Defense (DOD) has recommended that AFCEE, which is made up of more than 400 people, be moved to Tyndall Air Force Base in Panama City, Fla. This would entail abandoning the two-story building now under construction at Brooks, which when finished in July will be 75,000 square feet. The new AFCEE building is comparable to a Class A office building, says Fred Raley, president of San Antonio-based Spaw-Glass Inc., the general contractor on

the project.

Kunz Construction Co. Inc. of San Antonio is working on the Consolidated Academic Complex for Brooks. This 80,000-square-foot building contains auditoriums, classrooms and laboratories. It is scheduled to be complete in mid-December, according to Andy Koebel, project manager for Kunz. DOD has recommended that this mission be moved to Dayton, Ohio-based Wright-Patterson Air Force Base.

Both of the contractors have orders to go ahead and complete the construction of the two buildings. Brooks spokesperson Major Peter Kirk says the money is already budgeted for the construction. He says shutting down the projects now would be more expensive than finishing the work.

Representatives from both contracting firms also say they have been informed by military officials that if the Brooks' missions are moved, new multimillion-dollar buildings will have to be built at Tyndall and Wright-Patterson in two years to house AFCEE and the School of Aerospace Medicine.

"It doesn't make a whole lot of sense," Raley says.

Kirk says if Congress accepts the base closure list presented to them in July, the targeted installations will have two years to begin the closure process, and they can take up to six years to make the transition. That means AFCEE and the school could continue to operate at Brooks for some time to come, even if Brooks remains on the closure list.

Closing Brooks not money-saver

I would like to encourage every taxpayer to support keeping Brooks AFB open.

The super Brooks laboratories are integral to the medical and research communities of San Antonio.

These laboratories perform procedures that would not be discontinued, just relocated.

As the laboratories are very high-tech, they are not easily closed and relocated. It would probably mean several years of downtime, not to mention an even larger expense to the taxpayers. It has been estimated that it would cost several hundred million dollars to relocate these facilities.

I find it even more amazing that \$21.7 million of our tax money has been recently allocated for new facilities under construction at Brooks, while consideration is being given to close the facility.

Are we really saving anything by closing and relocating Brooks? Or is this just another effort to increase our taxes and the national debt?

If nothing else, leave the facilities intact and consider incorporating the Armstrong Laboratory as an annex of Kelly AFB.

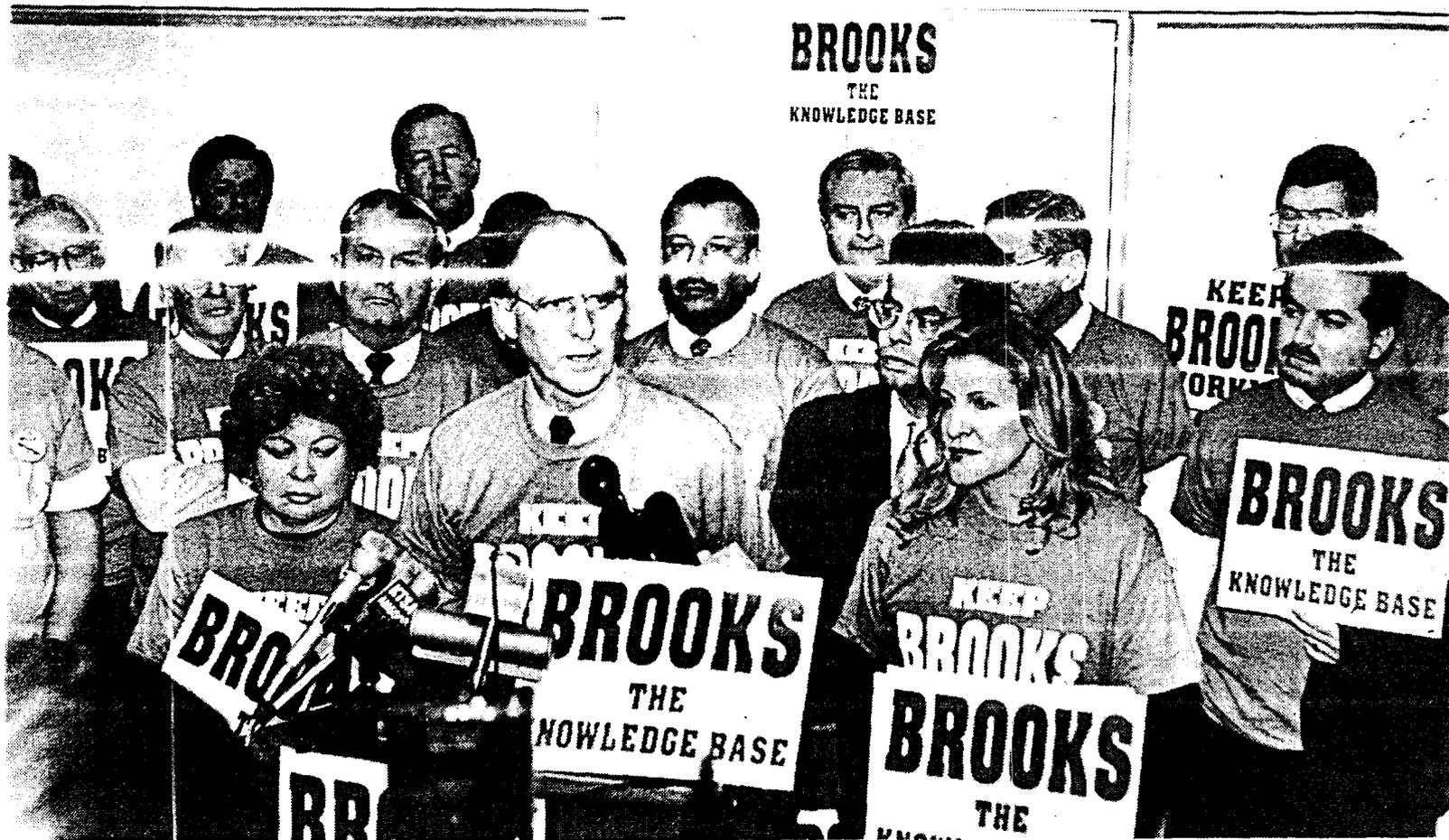
Please consider the uniqueness, rich heritage and value that Brooks brings to our community.

Is closing Brooks saving us taxes or, in fact, costing us more taxes for the sake of politics?

Nancy G. Davison

BRAC Magic

BROOKS: Now You See It, Now You Don't



Mayor Nelson Wolff flanked by (clockwise) Councilwoman Helen Ayala, Charles Cheever, Councilman Henry Avila, José Villarreal, Councilwoman Lynda Billa Burke. (Foto José I. Franco)

by Frank Alvarez

The Base Realignment And Closure Task Force, also known as the Mayor's BRAC '95 Task Force, has come up with a strategy for salvaging jobs at Brooks Field that is so unique locally that it should be called BRAC Magic.

In a briefing at City Hall Thursday, members of the Mayor's BRAC

'95 Task Force headed by the Tri-Chairpersons, Councilwoman Helen Ayala; Charles Cheever, Chairman, Broadway Bank; and attorney José Villarreal were present as Mayor Nelson Wolff outlined the strategy to keep the military missions assigned and the civilian jobs at Brooks Air Force Base in San Antonio. Others present included District 3 Councilwoman Lynda Billa Burke, in whose district Brooks is located, and District

4 Councilman Henry Avila, union representatives from the bases Mike Urdiales and Alfonso García, and members of the Greater S. A. Chamber of Commerce. Defense Secretary William Perry placed Brooks on the closure list in late February following a Pentagon review of Air Force operations. The strategy involves keeping the three primary missions at Brooks as a "cantonment" with the area supported by Kelly Air Force Base. In

reality, this makes Brooks an annex to Kelly, thus it saves over 2,000 civilian jobs in San Antonio. Brooks' existing support functions would either transfer to Kelly or be eliminated, making the majority of the acreage at Brooks available for reconfiguration as an office or industrial complex.

Mayor Wolff stated that the city doesn't want to challenge the Department of Defense statistics but that

See BRAC... page

La Orensa

BRAC... (continued from page 1-A)

figures compiled by the BRAC '95 Task Force show that the savings over 20 years would be approximately double what would be achieved by closing Brooks.

"The Air Force has a goal of saving \$142 million in net present value over 20 years," Wolff said.

"Our cantonment strategy saves more than \$300 million and accomplishes six key elements: 1. More than 3,000 jobs would be retained in San Antonio. 2. More than 3,000 people

would not have to be moved from San Antonio. 3. Existing research and environmental programs would not have to endure the obvious disruption associated with a move. 4. The existing synergy of the biomedical research and teaching community in San Antonio could continue uninterrupted. 5. More than \$185 million in up-front movement costs would be avoided. 6. The plan saves twice as much for the Air Force as their own plan".

Mayor Wolff committed city staff

to assist the BRAC'95 Task Force in studying this proposal over the next two weeks to consider land re-use, legal pre-requisites, and any other pertinent matters that need to be presented to the Commissioners during their visit to Brooks on April 6, and then formally present it to the entire BRAC Commission at the regional hearing in Dallas on April 19. Final decisions will not be made until after July 1.

School program at Brooks at risk

S. A. Express
Pg. 6A
3 Apr. 95

By Jim Hutton
Express-News Staff Writer

Pat May does not want to leave her extended family at Sinclair Elementary School.

A sense of sadness envelops her whenever she thinks about the possibility of Brooks AFB closing.

The base has been slated for shutdown via Defense Department recommendations, which are being studied by the independent Base Closure and Realignment Commission.

May, who has worked at Brooks since 1982, has been involved in the mentoring program at Sinclair since its inception five years ago.

If Brooks closes and its missions relocate, May realizes her association with Sinclair in the East Central School District probably would end.

"I work in the (Air Force) drug testing division and live on this side of town," May said Thursday.

She had finished her mentoring session with a first-grader and was substituting for another mentor by working with second-grader Dora Mitchell on her reading skills.

There is a possibility of moving the drug testing lab to Lackland AFB, May said, but, "It would be tough to move on" to a new mentor program in another school in the Lackland area.

About 40 mentors from Brooks work with nearly 65 first-through-third-grade students who are considered at risk academically with reading, writing and computer skills, said Betty Whitaker, Sinclair reading specialist and mentorship coordinator.

Whitaker wore a red, white and blue "San Antonio Needs Brooks AFB — It Means Business" button.

"The overall effect of closing Brooks would be to curtail the mentor program because we only have small businesses near the school with limited time to let people off work," she said.

"It's not just 30 minutes of reading but that encouragement that somebody cares for me and my education," Whitaker said. "Some children are willing to produce for



PHOTO BY JOHN DAVENPORT

Brooks AFB worker Pat May helps Sinclair Elementary student Dora Mitchell, 7, with homework as part of the school mentoring program.

mentors but won't for their parents.

"You get a 6-foot-2, 200-pound guy in fatigues here and it really impresses them. . . . They never fail to ask me if 'my mentor' is coming today."

"It's a sense of satisfaction, a warm fuzzy feeling," May said. "Maybe we're making a small difference in a child's life, especially when we see them progress."

Another mentor, Sandy Eynon, who works in the Family Support Center at Brooks, is in her first

year of helping second-grader Brandy King.

"Being in civil service, I'd probably have to leave San Antonio," said Eynon, a teacher for 16 years before she went to work at Brooks. "But it's not likely because my husband spent 26 years in the military, we just bought a house and our intent was to retire here."

Likewise, first-year mentor Mary Hymon said: "If I wanted to continue in civil service, I'd prob-

See MENTORSHIPS/7A

Mentorships may suffer if Brooks AFB is closed

Continued from 6A

ably have to move with the Systems Acquisition School to Wright-Patterson (AFB in Ohio).

"But I'm established in the community," said Hymon, who has worked at Brooks since 1980 and now mentors second-grader Turkessa Watson. "I fit good in the community, the workplace and the church. I have personal and family reasons to stay here."

Sinclair Principal Ramona Ward hopes Brooks and all the mentors stay.

"We couldn't have begun the program without Brooks," Ward said. "We put out an appeal, begged and pleaded, did in-service and it caught on."

"It's been an easy partnership," she said. "Now when someone (military personnel at Brooks) is going to rotate, they find someone to replace them" as a mentor.

Saying the mentorship program would be "set back five years to start at zero" if Brooks closes, Ward said: "A base must be willing to cross district lines (from the San Antonio School District) to a rural district (such as East Central).

"Brooks has a global interest. They could be provincial, but they're not. The mentors come without strings attached to send an important message, how special these children are."

Department : AIR FORCE
 Option Package : BROOKS ALT #1
 Scenario File : A:\COBRA\BROOKS-1.CBR
 Std Fctrs File : A:\COBRA\BROOKS.SFF

Starting Year : 1996
 Final Year : 2001
 ROI Year : Immediate

NPV in 2015(\$K): -301,520
 1-Time Cost(\$K): 11,143

Net Costs (\$K) Constant Dollars	1996						Total	Beyond
	1996	1997	1998	1999	2000	2001		
MilCon	3,000	3,000	0	0	0	0	6,000	0
Person	-3,658	-12,588	-17,914	-17,993	-18,061	-18,079	-88,294	-18,079
Overhd	-132	-1,903	-3,306	-3,371	-3,444	-3,511	-15,667	-3,585
Moving	710	713	9	10	9	3	1,454	0
Missio	0	0	0	0	0	0	0	0
Other	104	104	0	0	0	0	208	0
TOTAL	24	-10,674	-21,211	-21,355	-21,496	-21,587	-96,299	-21,664

	1996	1997	1998	1999	2000	2001	Total
POSITIONS ELIMINATED							
Off	18	18	0	0	0	0	36
Enl	100	101	0	0	0	0	201
Civ	77	77	0	0	0	0	154
TOT	195	196	0	0	0	0	391
POSITIONS REALIGNED							
Off	10	9	1	1	1	1	23
Enl	67	80	32	39	32	8	258
Stu	0	0	0	0	0	0	0
Civ	114	114	2	2	2	3	237
TOT	191	203	35	42	35	12	518

Summary:

 CLOSE BROOKS AFB; RETAIN HSC, ARMSRTONG LAB, SCHOOL OF AEROSPACE MEDICINE, AFCEE, AND YA IN CANTONEMENT AT BROOKS FIELD. THE 68TH INTEL SQDN RELOCATES TO KELLY AFB; THE 710TH INTEL FLIGHT (AFRES) RELOCATES TO LACKLAND.

Is still valid?

COBRA REALIGNMENT SUMMARY (COBRA v5.08) - Page 2/2
 Data As Of 21:59 03/09/1995, Report Created 14:01 03/31/1995

Department : AIR FORCE
 Option Package : BROOKS ALT #1
 Scenario File : A:\COBRA\BROOKS-1.CBR
 Std Fctrs File : A:\COBRA\BROOKS.SFF

Costs (\$K) Constant Dollars								
	1996	1997	1998	1999	2000	2001	Total	Beyond
	----	----	----	----	----	----	----	-----
MilCon	3,000	3,000	0	0	0	0	6,000	0
Person	1,266	1,660	868	1,036	1,172	1,211	7,214	1,211
Overhd	765	812	350	339	333	321	2,919	266
Moving	710	713	9	10	9	3	1,454	0
Missio	0	0	0	0	0	0	0	0
Other	104	104	0	0	0	0	208	0
TOTAL	5,845	6,290	1,226	1,385	1,514	1,535	17,796	1,478

Savings (\$K) Constant Dollars								
	1996	1997	1998	1999	2000	2001	Total	Beyond
	----	----	----	----	----	----	----	-----
MilCon	0	0	0	0	0	0	0	0
Person	4,924	14,249	18,782	19,029	19,233	19,291	95,508	19,291
Overhd	897	2,715	3,656	3,710	3,776	3,832	18,586	3,851
Moving	0	0	0	0	0	0	0	0
Missio	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0
TOTAL	5,820	16,964	22,438	22,740	23,010	23,123	114,094	23,142

NET PRESENT VALUES REPORT (COBRA v5.08)
 Data As Of 21:59 03/09/1995, Report Created 14:01 03/31/1995

Department : AIR FORCE
 Option Package : BROOKS ALT #1
 Scenario File : A:\COBRA\BROOKS-1.CBR
 Std Fctrs File : A:\COBRA\BROOKS.SFF

Year	Cost(\$)	Adjusted Cost(\$)	NPV(\$)
----	-----	-----	-----
1996	24,419	24,090	24,090
1997	-10,673,737	-10,248,110	-10,224,019
1998	-21,211,352	-19,820,462	-30,044,482
1999	-21,354,613	-19,420,272	-49,464,753
2000	-21,496,006	-19,025,651	-68,490,405
2001	-21,587,470	-18,595,235	-87,085,640
2002	-21,663,904	-18,161,630	-105,247,270
2003	-21,663,904	-17,675,552	-122,922,822
2004	-21,663,904	-17,202,484	-140,125,306
2005	-21,663,904	-16,742,077	-156,867,383
2006	-21,663,904	-16,293,992	-173,161,375
2007	-21,663,904	-15,857,900	-189,019,275
2008	-21,663,904	-15,433,479	-204,452,754
2009	-21,663,904	-15,020,418	-219,473,172
2010	-21,663,904	-14,618,411	-234,091,583
2011	-21,663,904	-14,227,164	-248,318,747
2012	-21,663,904	-13,846,389	-262,165,136
2013	-21,663,904	-13,475,804	-275,640,940
2014	-21,663,904	-13,115,138	-288,756,078
2015	-21,663,904	-12,764,124	-301,520,202

Department : AIR FORCE
 Option Package : BROOKS ALT #1
 Scenario File : A:\COBRA\BROOKS-1.CBR
 Std Fctrs File : A:\COBRA\BROOKS.SFF

(All values in Dollars)

Category	Cost	Sub-Total
-----	----	-----
Construction		
Military Construction	6,000,000	
Family Housing Construction	0	
Information Management Account	0	
Land Purchases	0	
Total - Construction		6,000,000
Personnel		
Civilian RIF	254,665	
Civilian Early Retirement	67,164	
Civilian New Hires	0	
Eliminated Military PCS	1,487,073	
Unemployment	43,848	
Total - Personnel		1,852,751
Overhead		
Program Planning Support	753,581	
Mothball / Shutdown	875,000	
Total - Overhead		1,628,581
Moving		
Civilian Moving	0	
Civilian PPS	1,324,800	
Military Moving	0	
Freight	128,903	
One-Time Moving Costs	0	
Total - Moving		1,453,703
Other		
HAP / RSE	208,456	
Environmental Mitigation Costs	0	
One-Time Unique Costs	0	
Total - Other		208,456

Total One-Time Costs		11,143,491

One-Time Savings		
Military Construction Cost Avoidances	0	
Family Housing Cost Avoidances	0	
Military Moving	0	
Land Sales	0	
One-Time Moving Savings	0	
Environmental Mitigation Savings	0	
One-Time Unique Savings	0	

Total One-Time Savings		0

Total Net One-Time Costs		11,143,491

Department : AIR FORCE
 Option Package : BROOKS ALT #1
 Scenario File : A:\COBRA\BROOKS-1.CBR
 Std Fctrs File : A:\COBRA\BROOKS.SFF

Base: WRIGHT-PATTERSON AFB, OH
 (All values in Dollars)

Category	Cost	Sub-Total
-----	----	-----
Construction		
Military Construction	0	
Family Housing Construction	0	
Information Management Account	0	
Land Purchases	0	
Total - Construction		0
Personnel		
Civilian RIF	0	
Civilian Early Retirement	0	
Civilian New Hires	0	
Eliminated Military PCS	0	
Unemployment	0	
Total - Personnel		0
Overhead		
Program Planning Support	0	
Mothball / Shutdown	0	
Total - Overhead		0
Moving		
Civilian Moving	0	
Civilian PPS	0	
Military Moving	0	
Freight	0	
One-Time Moving Costs	0	
Total - Moving		0
Other		
HAP / RSE	0	
Environmental Mitigation Costs	0	
One-Time Unique Costs	0	
Total - Other		0
-----	-----	-----
Total One-Time Costs		0
-----	-----	-----
One-Time Savings		
Military Construction Cost Avoidances	0	
Family Housing Cost Avoidances	0	
Military Moving	0	
Land Sales	0	
One-Time Moving Savings	0	
Environmental Mitigation Savings	0	
One-Time Unique Savings	0	
-----	-----	-----
Total One-Time Savings		0
-----	-----	-----
Total Net One-Time Costs		0

Department : AIR FORCE
 Option Package : BROOKS ALT #1
 Scenario File : A:\COBRA\BROOKS-1.CBR
 Std Fctrs File : A:\COBRA\BROOKS.SFF

Base: BROOKS AFB, TX
 (All values in Dollars)

Category	Cost	Sub-Total
Construction		
Military Construction	5,000,000	
Family Housing Construction	0	
Information Management Account	0	
Land Purchases	0	
Total - Construction		5,000,000
Personnel		
Civilian RIF	254,665	
Civilian Early Retirement	67,164	
Civilian New Hires	0	
Eliminated Military PCS	1,487,073	
Unemployment	43,848	
Total - Personnel		1,852,751
Overhead		
Program Planning Support	753,581	
Mothball / Shutdown	875,000	
Total - Overhead		1,628,581
Moving		
Civilian Moving	0	
Civilian PPS	1,324,800	
Military Moving	0	
Freight	128,903	
One-Time Moving Costs	0	
Total - Moving		1,453,703
Other		
HAP / RSE	208,456	
Environmental Mitigation Costs	0	
One-Time Unique Costs	0	
Total - Other		208,456
Total One-Time Costs		10,143,491
One-Time Savings		
Military Construction Cost Avoidances	0	
Family Housing Cost Avoidances	0	
Military Moving	0	
Land Sales	0	
One-Time Moving Savings	0	
Environmental Mitigation Savings	0	
One-Time Unique Savings	0	
Total One-Time Savings		0
Total Net One-Time Costs		10,143,491

Department : AIR FORCE
 Option Package : BROOKS ALT #1
 Scenario File : A:\COBRA\BROOKS-1.CBR
 Std Fctrs File : A:\COBRA\BROOKS.SFF

Base: BASE X
 (All values in Dollars)

Category	Cost	Sub-Total
-----	----	-----
Construction		
Military Construction	0	
Family Housing Construction	0	
Information Management Account	0	
Land Purchases	0	
Total - Construction		0
Personnel		
Civilian RIF	0	
Civilian Early Retirement	0	
Civilian New Hires	0	
Eliminated Military PCS	0	
Unemployment	0	
Total - Personnel		0
Overhead		
Program Planning Support	0	
Mothball / Shutdown	0	
Total - Overhead		0
Moving		
Civilian Moving	0	
Civilian PPS	0	
Military Moving	0	
Freight	0	
One-Time Moving Costs	0	
Total - Moving		0
Other		
HAP / RSE	0	
Environmental Mitigation Costs	0	
One-Time Unique Costs	0	
Total - Other		0
-----	-----	-----
Total One-Time Costs		0
-----	-----	-----
One-Time Savings		
Military Construction Cost Avoidances	0	
Family Housing Cost Avoidances	0	
Military Moving	0	
Land Sales	0	
One-Time Moving Savings	0	
Environmental Mitigation Savings	0	
One-Time Unique Savings	0	
-----	-----	-----
Total One-Time Savings		0
-----	-----	-----
Total Net One-Time Costs		0

Department : AIR FORCE
 Option Package : BROOKS ALT #1
 Scenario File : A:\COBRA\BROOKS-1.CBR
 Std Fctrs File : A:\COBRA\BROOKS.SFF

Base: TYNDALL AFB, FL
 (All values in Dollars)

Category	Cost	Sub-Total
-----	-----	-----
Construction		
Military Construction	0	
Family Housing Construction	0	
Information Management Account	0	
Land Purchases	0	
Total - Construction		0
Personnel		
Civilian RIF	0	
Civilian Early Retirement	0	
Civilian New Hires	0	
Eliminated Military PCS	0	
Unemployment	0	
Total - Personnel		0
Overhead		
Program Planning Support	0	
Mothball / Shutdown	0	
Total - Overhead		0
Moving		
Civilian Moving	0	
Civilian PPS	0	
Military Moving	0	
Freight	0	
One-Time Moving Costs	0	
Total - Moving		0
Other		
HAP / RSE	0	
Environmental Mitigation Costs	0	
One-Time Unique Costs	0	
Total - Other		0
-----	-----	-----
Total One-Time Costs		0
-----	-----	-----
One-Time Savings		
Military Construction Cost Avoidances	0	
Family Housing Cost Avoidances	0	
Military Moving	0	
Land Sales	0	
One-Time Moving Savings	0	
Environmental Mitigation Savings	0	
One-Time Unique Savings	0	
-----	-----	-----
Total One-Time Savings		0
-----	-----	-----
Total Net One-Time Costs		0

Department : AIR FORCE
 Option Package : BROOKS ALT #1
 Scenario File : A:\COBRA\BROOKS-1.CBR
 Std Fctrs File : A:\COBRA\BROOKS.SFF

Base: KELLY AFB, TX
 (All values in Dollars)

Category	Cost	Sub-Total
Construction		
Military Construction	1,000,000	
Family Housing Construction	0	
Information Management Account	0	
Land Purchases	0	
Total - Construction		1,000,000
Personnel		
Civilian RIF	0	
Civilian Early Retirement	0	
Civilian New Hires	0	
Eliminated Military PCS	0	
Unemployment	0	
Total - Personnel		0
Overhead		
Program Planning Support	0	
Mothball / Shutdown	0	
Total - Overhead		0
Moving		
Civilian Moving	0	
Civilian PPS	0	
Military Moving	0	
Freight	0	
One-Time Moving Costs	0	
Total - Moving		0
Other		
HAP / RSE	0	
Environmental Mitigation Costs	0	
One-Time Unique Costs	0	
Total - Other		0
Total One-Time Costs		1,000,000
One-Time Savings		
Military Construction Cost Avoidances	0	
Family Housing Cost Avoidances	0	
Military Moving	0	
Land Sales	0	
One-Time Moving Savings	0	
Environmental Mitigation Savings	0	
One-Time Unique Savings	0	
Total One-Time Savings		0
Total Net One-Time Costs		1,000,000

Department : AIR FORCE
Option Package : BROOKS ALT #1
Scenario File : A:\COBRA\BROOKS-1.CBR
Std Fctrs File : A:\COBRA\BROOKS.SFF

All Costs in \$K

Base Name	Total MilCon	IMA Cost	Land Purch	Cost Avoid	Total Cost
-----	-----	-----	-----	-----	-----
WRIGHT-PATTERSON AFB	0	0	0	0	0
BROOKS AFB	5,000	0	0	0	5,000
BASE X	0	0	0	0	0
TYNDALL AFB	0	0	0	0	0
KELLY AFB	1,000	0	0	0	1,000
-----	-----	-----	-----	-----	-----
Totals:	6,000	0	0	0	6,000

Department : AIR FORCE
Option Package : BROOKS ALT #1
Scenario File : A:\COBRA\BROOKS-1.CBR
Std Fctrs File : A:\COBRA\BROOKS.SFF

MilCon for Base: BROOKS AFB, TX

All Costs in \$K

Description:	MilCon Categ	Using Rehab	Rehab Cost*	New MilCon	New Cost*	Total Cost*
CANTONEMENT	OTHER	0	n/a	0	n/a	5,000

Total Construction Cost: 5,000
+ Info Management Account: 0
+ Land Purchases: 0
- Construction Cost Avoid: 0

TOTAL: 5,000

* All MilCon Costs include Design, Site Preparation, Contingency Planning, and SIOH Costs where applicable.

Department : AIR FORCE
 Option Package : BROOKS ALT #1
 Scenario File : A:\COBRA\BROOKS-1.CBR
 Std Fctrs File : A:\COBRA\BROOKS.SFF

MilCon for Base: KELLY AFB, TX

All Costs in \$K

Description:	MilCon Categ	Using Rehab	Rehab Cost*	New MilCon	New Cost*	Total Cost*
MINOR ADAPTATIONS	OTHER	0	n/a	0	n/a	1,000
Total Construction Cost:						1,000
+ Info Management Account:						0
+ Land Purchases:						0
- Construction Cost Avoid:						0
TOTAL:						1,000

* All MilCon Costs include Design, Site Preparation, Contingency Planning, and SIOH Costs where applicable.

PERSONNEL SUMMARY REPORT (COBRA v5.08)
 Data As Of 21:59 03/09/1995, Report Created 14:01 03/31/1995

Department : AIR FORCE
 Option Package : BROOKS ALT #1
 Scenario File : A:\COBRA\BROOKS-1.CBR
 Std Fctrs File : A:\COBRA\BROOKS.SFF

PERSONNEL SUMMARY FOR: WRIGHT-PATTERSON AFB, OH

BASE POPULATION (FY 1996, Prior to BRAC Action):

Officers	Enlisted	Students	Civilians
3,709	2,993	0	14,109

BASE POPULATION (After BRAC Action):

Officers	Enlisted	Students	Civilians
3,709	2,993	0	14,109

PERSONNEL SUMMARY FOR: BROOKS AFB, TX

BASE POPULATION (FY 1996):

Officers	Enlisted	Students	Civilians
640	999	0	1,766

FORCE STRUCTURE CHANGES:

	1996	1997	1998	1999	2000	2001	Total
Officers	0	186	0	0	0	0	186
Enlisted	0	129	0	0	0	0	129
Students	0	0	0	0	0	0	0
Civilians	0	-101	0	0	0	0	-101
TOTAL	0	214	0	0	0	0	214

BASE POPULATION (Prior to BRAC Action):

Officers	Enlisted	Students	Civilians
826	1,128	0	1,665

PERSONNEL REALIGNMENTS:

To Base: KELLY AFB, TX

	1996	1997	1998	1999	2000	2001	Total
Officers	10	9	1	1	1	1	23
Enlisted	67	80	32	39	32	8	258
Students	0	0	0	0	0	0	0
Civilians	114	114	2	2	2	3	237
TOTAL	191	203	35	42	35	12	518

TOTAL PERSONNEL REALIGNMENTS (Out of BROOKS AFB, TX):

	1996	1997	1998	1999	2000	2001	Total
Officers	10	9	1	1	1	1	23
Enlisted	67	80	32	39	32	8	258
Students	0	0	0	0	0	0	0
Civilians	114	114	2	2	2	3	237
TOTAL	191	203	35	42	35	12	518

SCENARIO POSITION CHANGES:

	1996	1997	1998	1999	2000	2001	Total
Officers	-18	-18	0	0	0	0	-36
Enlisted	-100	-101	0	0	0	0	-201
Civilians	-77	-77	0	0	0	0	-154
TOTAL	-195	-196	0	0	0	0	-391

BASE POPULATION (After BRAC Action):

Officers	Enlisted	Students	Civilians
767	669	0	1,274

Department : AIR FORCE
 Option Package : BROOKS ALT #1
 Scenario File : A:\COBRA\BROOKS-1.CBR
 Std Fctrs File : A:\COBRA\BROOKS.SFF

PERSONNEL SUMMARY FOR: BASE X

BASE POPULATION (FY 1996, Prior to BRAC Action):

Officers	Enlisted	Students	Civilians
-----	-----	-----	-----
736	3,263	0	11,455

BASE POPULATION (After BRAC Action):

Officers	Enlisted	Students	Civilians
-----	-----	-----	-----
736	3,263	0	11,455

PERSONNEL SUMMARY FOR: TYNDALL AFB, FL

BASE POPULATION (FY 1996, Prior to BRAC Action):

Officers	Enlisted	Students	Civilians
-----	-----	-----	-----
802	3,801	0	1,011

BASE POPULATION (After BRAC Action):

Officers	Enlisted	Students	Civilians
-----	-----	-----	-----
802	3,801	0	1,011

PERSONNEL SUMMARY FOR: KELLY AFB, TX

BASE POPULATION (FY 1996, Prior to BRAC Action):

Officers	Enlisted	Students	Civilians
-----	-----	-----	-----
825	3,539	0	14,036

PERSONNEL REALIGNMENTS:

From Base: BROOKS AFB, TX

	1996	1997	1998	1999	2000	2001	Total
-----	-----	-----	-----	-----	-----	-----	-----
Officers	10	9	1	1	1	1	23
Enlisted	67	80	32	39	32	8	258
Students	0	0	0	0	0	0	0
Civilians	114	114	2	2	2	3	237
TOTAL	191	203	35	42	35	12	518

TOTAL PERSONNEL REALIGNMENTS (Into KELLY AFB, TX):

	1996	1997	1998	1999	2000	2001	Total
-----	-----	-----	-----	-----	-----	-----	-----
Officers	10	9	1	1	1	1	23
Enlisted	67	80	32	39	32	8	258
Students	0	0	0	0	0	0	0
Civilians	114	114	2	2	2	3	237
TOTAL	191	203	35	42	35	12	518

BASE POPULATION (After BRAC Action):

Officers	Enlisted	Students	Civilians
-----	-----	-----	-----
848	3,797	0	14,273

TOTAL PERSONNEL IMPACT REPORT (COBRA v5.08) - Page 1/6
 Data As Of 21:59 03/09/1995, Report Created 14:01 03/31/1995

Department : AIR FORCE
 Option Package : BROOKS ALT #1
 Scenario File : A:\COBRA\BROOKS-1.CBR
 Std Fctrs File : A:\COBRA\BROOKS.SFF

	Rate	1996	1997	1998	1999	2000	2001	Total
CIVILIAN POSITIONS REALIGNING OUT		114	114	2	2	2	3	237
Early Retirement*	10.00%	0	0	0	0	0	0	0
Regular Retirement*	5.00%	0	0	0	0	0	0	0
Civilian Turnover*	15.00%	0	0	0	0	0	0	0
Civs Not Moving (RIFs)**		0	0	0	0	0	0	0
Civilians Moving (the remainder)		114	114	2	2	2	3	237
Civilian Positions Available		0	0	0	0	0	0	0
CIVILIAN POSITIONS ELIMINATED		77	77	0	0	0	0	154
Early Retirement	10.00%	8	8	0	0	0	0	16
Regular Retirement	5.00%	4	4	0	0	0	0	8
Civilian Turnover	15.00%	12	12	0	0	0	0	24
Civs Not Moving (RIFs)**		5	5	0	0	0	0	10
Priority Placement#	60.00%	46	46	0	0	0	0	92
Civilians Available to Move		2	2	0	0	0	0	4
Civilians Moving		0	0	0	0	0	0	0
Civilian RIFs (the remainder)		2	2	0	0	0	0	4
CIVILIAN POSITIONS REALIGNING IN		114	114	2	2	2	3	237
Civilians Moving		114	114	2	2	2	3	237
New Civilians Hired		0	0	0	0	0	0	0
Other Civilian Additions		0	0	0	0	0	0	0
TOTAL CIVILIAN EARLY RETIRMENTS		8	8	0	0	0	0	16
TOTAL CIVILIAN RIFs		7	7	0	0	0	0	14
TOTAL CIVILIAN PRIORITY PLACEMENTS#		46	46	0	0	0	0	92
TOTAL CIVILIAN NEW HIRES		0	0	0	0	0	0	0

* Early Retirements, Regular Retirements, Civilian Turnover, and Civilians Not Willing to Move are not applicable for moves under fifty miles.

+ The Percentage of Civilians Not Willing to Move (Voluntary RIFs) varies from base to base.

Not all Priority Placements involve a Permanent Change of Station. The rate of PPS placements involving a PCS is 50.00%

PERSONNEL IMPACT REPORT (COBRA v5.08) - Page 2/6
 Data As Of 21:59 03/09/1995, Report Created 14:01 03/31/1995

Department : AIR FORCE
 Option Package : BROOKS ALT #1
 Scenario File : A:\COBRA\BROOKS-1.CBR
 Std Fctrs File : A:\COBRA\BROOKS.SFF

Base: WRIGHT-PATTERSON AFB, OH Rate	1996	1997	1998	1999	2000	2001	Total
CIVILIAN POSITIONS REALIGNING OUT	0	0	0	0	0	0	0
Early Retirement*	10.00%	0	0	0	0	0	0
Regular Retirement*	5.00%	0	0	0	0	0	0
Civilian Turnover*	15.00%	0	0	0	0	0	0
Civs Not Moving (RIFs)*	6.00%	0	0	0	0	0	0
Civilians Moving (the remainder)		0	0	0	0	0	0
Civilian Positions Available		0	0	0	0	0	0
CIVILIAN POSITIONS ELIMINATED	0	0	0	0	0	0	0
Early Retirement	10.00%	0	0	0	0	0	0
Regular Retirement	5.00%	0	0	0	0	0	0
Civilian Turnover	15.00%	0	0	0	0	0	0
Civs Not Moving (RIFs)*	6.00%	0	0	0	0	0	0
Priority Placement#	60.00%	0	0	0	0	0	0
Civilians Available to Move		0	0	0	0	0	0
Civilians Moving		0	0	0	0	0	0
Civilian RIFs (the remainder)		0	0	0	0	0	0
CIVILIAN POSITIONS REALIGNING IN	0	0	0	0	0	0	0
Civilians Moving		0	0	0	0	0	0
New Civilians Hired		0	0	0	0	0	0
Other Civilian Additions		0	0	0	0	0	0
TOTAL CIVILIAN EARLY RETIRMENTS		0	0	0	0	0	0
TOTAL CIVILIAN RIFs		0	0	0	0	0	0
TOTAL CIVILIAN PRIORITY PLACEMENTS#		0	0	0	0	0	0
TOTAL CIVILIAN NEW HIRES		0	0	0	0	0	0

* Early Retirements, Regular Retirements, Civilian Turnover, and Civilians Not Willing to Move are not applicable for moves under fifty miles.

Not all Priority Placements involve a Permanent Change of Station. The rate of PPS placements involving a PCS is 50.00%

PERSONNEL IMPACT REPORT (COBRA v5.08) - Page 3/6
 Data As Of 21:59 03/09/1995, Report Created 14:01 03/31/1995

Department : AIR FORCE
 Option Package : BROOKS ALT #1
 Scenario File : A:\COBRA\BROOKS-1.CBR
 Std Fctrs File : A:\COBRA\BROOKS.SFF

Base: BROOKS AFB, TX	Rate	1996	1997	1998	1999	2000	2001	Total
CIVILIAN POSITIONS REALIGNING OUT		114	114	2	2	2	3	237
Early Retirement*	10.00%	0	0	0	0	0	0	0
Regular Retirement*	5.00%	0	0	0	0	0	0	0
Civilian Turnover*	15.00%	0	0	0	0	0	0	0
Civs Not Moving (RIFs)*	6.00%	0	0	0	0	0	0	0
Civilians Moving (the remainder)		114	114	2	2	2	3	237
Civilian Positions Available		0	0	0	0	0	0	0
CIVILIAN POSITIONS ELIMINATED		77	77	0	0	0	0	154
Early Retirement	10.00%	8	8	0	0	0	0	16
Regular Retirement	5.00%	4	4	0	0	0	0	8
Civilian Turnover	15.00%	12	12	0	0	0	0	24
Civs Not Moving (RIFs)*	6.00%	5	5	0	0	0	0	10
Priority Placement#	60.00%	46	46	0	0	0	0	92
Civilians Available to Move		2	2	0	0	0	0	4
Civilians Moving		0	0	0	0	0	0	0
Civilian RIFs (the remainder)		2	2	0	0	0	0	4
CIVILIAN POSITIONS REALIGNING IN		0	0	0	0	0	0	0
Civilians Moving		0	0	0	0	0	0	0
New Civilians Hired		0	0	0	0	0	0	0
Other Civilian Additions		0	0	0	0	0	0	0
TOTAL CIVILIAN EARLY RETIRMENTS		8	8	0	0	0	0	16
TOTAL CIVILIAN RIFs		7	7	0	0	0	0	14
TOTAL CIVILIAN PRIORITY PLACEMENTS#		46	46	0	0	0	0	92
TOTAL CIVILIAN NEW HIRES		0	0	0	0	0	0	0

* Early Retirements, Regular Retirements, Civilian Turnover, and Civilians Not Willing to Move are not applicable for moves under fifty miles.

Not all Priority Placements involve a Permanent Change of Station. The rate of PPS placements involving a PCS is 50.00%

Department : AIR FORCE
 Option Package : BROOKS ALT #1
 Scenario File : A:\COBRA\BROOKS-1.CBR
 Std Fctrs File : A:\COBRA\BROOKS.SFF

Base: BASE X	Rate	1996	1997	1998	1999	2000	2001	Total
CIVILIAN POSITIONS REALIGNING OUT		0	0	0	0	0	0	0
Early Retirement*	10.00%	0	0	0	0	0	0	0
Regular Retirement*	5.00%	0	0	0	0	0	0	0
Civilian Turnover*	15.00%	0	0	0	0	0	0	0
Civs Not Moving (RIFs)*	0.00%	0	0	0	0	0	0	0
Civilians Moving (the remainder)		0	0	0	0	0	0	0
Civilian Positions Available		0	0	0	0	0	0	0
CIVILIAN POSITIONS ELIMINATED		0	0	0	0	0	0	0
Early Retirement	10.00%	0	0	0	0	0	0	0
Regular Retirement	5.00%	0	0	0	0	0	0	0
Civilian Turnover	15.00%	0	0	0	0	0	0	0
Civs Not Moving (RIFs)*	0.00%	0	0	0	0	0	0	0
Priority Placement#	60.00%	0	0	0	0	0	0	0
Civilians Available to Move		0	0	0	0	0	0	0
Civilians Moving		0	0	0	0	0	0	0
Civilian RIFs (the remainder)		0	0	0	0	0	0	0
CIVILIAN POSITIONS REALIGNING IN		0	0	0	0	0	0	0
Civilians Moving		0	0	0	0	0	0	0
New Civilians Hired		0	0	0	0	0	0	0
Other Civilian Additions		0	0	0	0	0	0	0
TOTAL CIVILIAN EARLY RETIRMENTS		0	0	0	0	0	0	0
TOTAL CIVILIAN RIFs		0	0	0	0	0	0	0
TOTAL CIVILIAN PRIORITY PLACEMENTS#		0	0	0	0	0	0	0
TOTAL CIVILIAN NEW HIRES		0	0	0	0	0	0	0

* Early Retirements, Regular Retirements, Civilian Turnover, and Civilians Not Willing to Move are not applicable for moves under fifty miles.

Not all Priority Placements involve a Permanent Change of Station. The rate of PPS placements involving a PCS is 50.00%

Department : AIR FORCE
 Option Package : BROOKS ALT #1
 Scenario File : A:\COBRA\BROOKS-1.CBR
 Std Fctrs File : A:\COBRA\BROOKS.SFF

Base: TYNDALL AFB, FL	Rate	1996	1997	1998	1999	2000	2001	Total
CIVILIAN POSITIONS REALIGNING OUT		0	0	0	0	0	0	0
Early Retirement*	10.00%	0	0	0	0	0	0	0
Regular Retirement*	5.00%	0	0	0	0	0	0	0
Civilian Turnover*	15.00%	0	0	0	0	0	0	0
Civs Not Moving (RIFs)*	6.00%	0	0	0	0	0	0	0
Civilians Moving (the remainder)		0	0	0	0	0	0	0
Civilian Positions Available		0	0	0	0	0	0	0
CIVILIAN POSITIONS ELIMINATED		0	0	0	0	0	0	0
Early Retirement	10.00%	0	0	0	0	0	0	0
Regular Retirement	5.00%	0	0	0	0	0	0	0
Civilian Turnover	15.00%	0	0	0	0	0	0	0
Civs Not Moving (RIFs)*	6.00%	0	0	0	0	0	0	0
Priority Placement#	60.00%	0	0	0	0	0	0	0
Civilians Available to Move		0	0	0	0	0	0	0
Civilians Moving		0	0	0	0	0	0	0
Civilian RIFs (the remainder)		0	0	0	0	0	0	0
CIVILIAN POSITIONS REALIGNING IN		0	0	0	0	0	0	0
Civilians Moving		0	0	0	0	0	0	0
New Civilians Hired		0	0	0	0	0	0	0
Other Civilian Additions		0	0	0	0	0	0	0
TOTAL CIVILIAN EARLY RETIRMENTS		0	0	0	0	0	0	0
TOTAL CIVILIAN RIFS		0	0	0	0	0	0	0
TOTAL CIVILIAN PRIORITY PLACEMENTS#		0	0	0	0	0	0	0
TOTAL CIVILIAN NEW HIRES		0	0	0	0	0	0	0

* Early Retirements, Regular Retirements, Civilian Turnover, and Civilians Not Willing to Move are not applicable for moves under fifty miles.

Not all Priority Placements involve a Permanent Change of Station. The rate of PPS placements involving a PCS is 50.00%

Department : AIR FORCE
 Option Package : BROOKS ALT #1
 Scenario File : A:\COBRA\BROOKS-1.CBR
 Std Fctrs File : A:\COBRA\BROOKS.SFF

Base: KELLY AFB, TX	Rate	1996	1997	1998	1999	2000	2001	Total
CIVILIAN POSITIONS REALIGNING OUT		0	0	0	0	0	0	0
Early Retirement*	10.00%	0	0	0	0	0	0	0
Regular Retirement*	5.00%	0	0	0	0	0	0	0
Civilian Turnover*	15.00%	0	0	0	0	0	0	0
Civs Not Moving (RIFs)*	6.00%	0	0	0	0	0	0	0
Civilians Moving (the remainder)		0	0	0	0	0	0	0
Civilian Positions Available		0	0	0	0	0	0	0
CIVILIAN POSITIONS ELIMINATED		0	0	0	0	0	0	0
Early Retirement	10.00%	0	0	0	0	0	0	0
Regular Retirement	5.00%	0	0	0	0	0	0	0
Civilian Turnover	15.00%	0	0	0	0	0	0	0
Civs Not Moving (RIFs)*	6.00%	0	0	0	0	0	0	0
Priority Placement#	60.00%	0	0	0	0	0	0	0
Civilians Available to Move		0	0	0	0	0	0	0
Civilians Moving		0	0	0	0	0	0	0
Civilian RIFs (the remainder)		0	0	0	0	0	0	0
CIVILIAN POSITIONS REALIGNING IN		114	114	2	2	2	3	237
Civilians Moving		114	114	2	2	2	3	237
New Civilians Hired		0	0	0	0	0	0	0
Other Civilian Additions		0	0	0	0	0	0	0
TOTAL CIVILIAN EARLY RETIRMENTS		0	0	0	0	0	0	0
TOTAL CIVILIAN RIFS		0	0	0	0	0	0	0
TOTAL CIVILIAN PRIORITY PLACEMENTS#		0	0	0	0	0	0	0
TOTAL CIVILIAN NEW HIRES		0	0	0	0	0	0	0

* Early Retirements, Regular Retirements, Civilian Turnover, and Civilians Not Willing to Move are not applicable for moves under fifty miles.

Not all Priority Placements involve a Permanent Change of Station. The rate of PPS placements involving a PCS is 50.00%

TOTAL APPROPRIATIONS DETAIL REPORT (COBRA v5.08) - Page 1/18
 Data As Of 21:59 03/09/1995, Report Created 14:01 03/31/1995

Department : AIR FORCE
 Option Package : BROOKS ALT #1
 Scenario File : A:\COBRA\BROOKS-1.CBR
 Std Fctrs File : A:\COBRA\BROOKS.SFF

ONE-TIME COSTS ----(\$K)----	1996 ----	1997 ----	1998 ----	1999 ----	2000 ----	2001 ----	Total -----
CONSTRUCTION							
MILCON	3,000	3,000	0	0	0	0	6,000
Fam Housing	0	0	0	0	0	0	0
Land Purch	0	0	0	0	0	0	0
O&M							
CIV SALARY							
Civ RIF	127	127	0	0	0	0	255
Civ Retire	33	33	0	0	0	0	67
CIV MOVING							
Per Diem	0	0	0	0	0	0	0
POV Miles	0	0	0	0	0	0	0
Home Purch	0	0	0	0	0	0	0
HHG	0	0	0	0	0	0	0
Misc	0	0	0	0	0	0	0
House Hunt	0	0	0	0	0	0	0
PPS	662	662	0	0	0	0	1,325
RITA	0	0	0	0	0	0	0
FREIGHT							
Packing	47	50	9	10	9	3	129
Freight	0	0	0	0	0	0	0
Vehicles	0	0	0	0	0	0	0
Driving	0	0	0	0	0	0	0
Unemployment	22	22	0	0	0	0	44
OTHER							
Program Plan	229	172	129	97	72	54	753
Shutdown	437	437	0	0	0	0	875
New Hire	0	0	0	0	0	0	0
1-Time Move	0	0	0	0	0	0	0
MIL PERSONNEL							
MIL MOVING							
Per Diem	0	0	0	0	0	0	0
POV Miles	0	0	0	0	0	0	0
HHG	0	0	0	0	0	0	0
Misc	0	0	0	0	0	0	0
OTHER							
Elim PCS	741	746	0	0	0	0	1,487
OTHER							
HAP / RSE	104	104	0	0	0	0	208
Environmental	0	0	0	0	0	0	0
Info Manage	0	0	0	0	0	0	0
1-Time Other	0	0	0	0	0	0	0
TOTAL ONE-TIME	5,404	5,356	138	107	81	57	11,143

TOTAL APPROPRIATIONS DETAIL REPORT (COBRA v5.08) - Page 2/18
 Data As Of 21:59 03/09/1995, Report Created 14:01 03/31/1995

Department : AIR FORCE
 Option Package : BROOKS ALT #1
 Scenario File : A:\COBRA\BROOKS-1.CBR
 Std Fctrs File : A:\COBRA\BROOKS.SFF

RECURRINGCOSTS -----(\$K)-----	1996	1997	1998	1999	2000	2001	Total	Beyond
FAM HOUSE OPS	0	0	0	0	0	0	0	0
O&M								
RPMA	0	0	0	0	0	0	0	0
BOS	98	203	221	242	260	266	1,291	266
Unique Operat	0	0	0	0	0	0	0	0
Civ Salary	0	0	0	0	0	0	0	0
CHAMPUS	0	0	0	0	0	0	0	0
Caretaker	0	0	0	0	0	0	0	0
MIL PERSONNEL								
Off Salary	0	0	0	0	0	0	0	0
Enl Salary	0	0	0	0	0	0	0	0
House Allow	342	731	868	1,036	1,172	1,211	5,361	1,211
OTHER								
Mission	0	0	0	0	0	0	0	0
Misc Recur	0	0	0	0	0	0	0	0
Unique Other	0	0	0	0	0	0	0	0
TOTAL RECUR	441	934	1,089	1,278	1,433	1,478	6,652	1,478
TOTAL COST	5,845	6,290	1,226	1,385	1,514	1,535	17,796	1,478
ONE-TIME SAVES -----(\$K)-----	1996	1997	1998	1999	2000	2001	Total	
CONSTRUCTION								
MILCON	0	0	0	0	0	0	0	
Fam Housing	0	0	0	0	0	0	0	
O&M								
1-Time Move	0	0	0	0	0	0	0	
MIL PERSONNEL								
Mil Moving	0	0	0	0	0	0	0	
OTHER								
Land Sales	0	0	0	0	0	0	0	
Environmental	0	0	0	0	0	0	0	
1-Time Other	0	0	0	0	0	0	0	
TOTAL ONE-TIME	0	0	0	0	0	0	0	
RECURRINGSAVES -----(\$K)-----	1996	1997	1998	1999	2000	2001	Total	Beyond
FAM HOUSE OPS	301	904	1,205	1,205	1,205	1,205	6,025	1,205
O&M								
RPMA	320	969	1,297	1,297	1,297	1,297	6,477	1,297
BOS	275	843	1,154	1,208	1,274	1,330	6,085	1,349
Unique Operat	0	0	0	0	0	0	0	0
Civ Salary	1,796	5,387	7,183	7,183	7,183	7,183	35,914	7,183
CHAMPUS	0	0	0	0	0	0	0	0
MIL PERSONNEL								
Off Salary	708	2,124	2,832	2,832	2,832	2,832	14,160	2,832
Enl Salary	1,807	5,440	7,266	7,266	7,266	7,266	36,311	7,266
House Allow	612	1,297	1,501	1,748	1,953	2,010	9,123	2,010
OTHER								
Procurement	0	0	0	0	0	0	0	0
Mission	0	0	0	0	0	0	0	0
Misc Recur	0	0	0	0	0	0	0	0
Unique Other	0	0	0	0	0	0	0	0
TOTAL RECUR	5,820	16,964	22,438	22,740	23,010	23,123	114,094	23,142
TOTAL SAVINGS	5,820	16,964	22,438	22,740	23,010	23,123	114,094	23,142

TOTAL APPROPRIATIONS DETAIL REPORT (COBRA v5.08) - Page 3/18
 Data As Of 21:59 03/09/1995, Report Created 14:01 03/31/1995

Department : AIR FORCE
 Option Package : BROOKS ALT #1
 Scenario File : A:\COBRA\BROOKS-1.CBR
 Std Fctrs File : A:\COBRA\BROOKS.SFF

ONE-TIME NET -----(\$K)-----	1996	1997	1998	1999	2000	2001	Total	
CONSTRUCTION								
MILCON	3,000	3,000	0	0	0	0	6,000	
Fam Housing	0	0	0	0	0	0	0	
O&M								
Civ Retir/RIF	161	161	0	0	0	0	322	
Civ Moving	710	713	9	10	9	3	1,454	
Other	689	631	129	97	72	54	1,672	
MIL PERSONNEL								
Mil Moving	741	746	0	0	0	0	1,487	
OTHER								
HAP / RSE	104	104	0	0	0	0	208	
Environmental	0	0	0	0	0	0	0	
Info Manage	0	0	0	0	0	0	0	
1-Time Other	0	0	0	0	0	0	0	
Land	0	0	0	0	0	0	0	
TOTAL ONE-TIME	5,404	5,356	138	107	81	57	11,143	
RECURRING NET -----(\$K)-----	1996	1997	1998	1999	2000	2001	Total	Beyond
FAM HOUSE OPS	-301	-904	-1,205	-1,205	-1,205	-1,205	-6,025	-1,205
O&M								
RPMA	-320	-969	-1,297	-1,297	-1,297	-1,297	-6,477	-1,297
BOS	-176	-640	-933	-966	-1,014	-1,064	-4,794	-1,083
Unique Operat	0	0	0	0	0	0	0	0
Caretaker	0	0	0	0	0	0	0	0
Civ Salary	-1,796	-5,387	-7,183	-7,183	-7,183	-7,183	-35,914	-7,183
CHAMPUS	0	0	0	0	0	0	0	0
MIL PERSONNEL								
Mil Salary	-2,515	-7,564	-10,098	-10,098	-10,098	-10,098	-50,471	-10,098
House Allow	-270	-566	-633	-713	-780	-799	-3,761	-799
OTHER								
Procurement	0	0	0	0	0	0	0	0
Mission	0	0	0	0	0	0	0	0
Misc Recur	0	0	0	0	0	0	0	0
Unique Other	0	0	0	0	0	0	0	0
TOTAL RECUR	-5,380	-16,030	-21,349	-21,462	-21,577	-21,645	-107,442	-21,664
TOTAL NET COST	24	-10,674	-21,211	-21,355	-21,496	-21,587	-96,299	-21,664

APPROPRIATIONS DETAIL REPORT (COBRA v5.08) - Page 4/18
 Data As Of 21:59 03/09/1995, Report Created 14:01 03/31/1995

Department : AIR FORCE
 Option Package : BROOKS ALT #1
 Scenario File : A:\COBRA\BROOKS-1.CBR
 Std Fctrs File : A:\COBRA\BROOKS.SFF

Base: WRIGHT-PATTERSON AFB, OH

ONE-TIME COSTS -----(\$K)-----	1996 -----	1997 -----	1998 -----	1999 -----	2000 -----	2001 -----	Total -----
CONSTRUCTION							
MILCON	0	0	0	0	0	0	0
Fam Housing	0	0	0	0	0	0	0
Land Purch	0	0	0	0	0	0	0
O&M							
CIV SALARY							
Civ RIFs	0	0	0	0	0	0	0
Civ Retire	0	0	0	0	0	0	0
CIV MOVING							
Per Diem	0	0	0	0	0	0	0
POV Miles	0	0	0	0	0	0	0
Home Purch	0	0	0	0	0	0	0
HHG	0	0	0	0	0	0	0
Misc	0	0	0	0	0	0	0
House Hunt	0	0	0	0	0	0	0
PPS	0	0	0	0	0	0	0
RITA	0	0	0	0	0	0	0
FREIGHT							
Packing	0	0	0	0	0	0	0
Freight	0	0	0	0	0	0	0
Vehicles	0	0	0	0	0	0	0
Driving	0	0	0	0	0	0	0
Unemployment	0	0	0	0	0	0	0
OTHER							
Program Plan	0	0	0	0	0	0	0
Shutdown	0	0	0	0	0	0	0
New Hires	0	0	0	0	0	0	0
1-Time Move	0	0	0	0	0	0	0
MIL PERSONNEL							
MIL MOVING							
Per Diem	0	0	0	0	0	0	0
POV Miles	0	0	0	0	0	0	0
HHG	0	0	0	0	0	0	0
Misc	0	0	0	0	0	0	0
OTHER							
Elim PCS	0	0	0	0	0	0	0
OTHER							
HAP / RSE	0	0	0	0	0	0	0
Environmental	0	0	0	0	0	0	0
Info Manage	0	0	0	0	0	0	0
1-Time Other	0	0	0	0	0	0	0
TOTAL ONE-TIME	0	0	0	0	0	0	0

APPROPRIATIONS DETAIL REPORT (COBRA v5.08) - Page 7/18
 Data As Of 21:59 03/09/1995, Report Created 14:01 03/31/1995

Department : AIR FORCE
 Option Package : BROOKS ALT #1
 Scenario File : A:\COBRA\BROOKS-1.CBR
 Std Fctrs File : A:\COBRA\BROOKS.SFF

Base: BROOKS AFB, TX

ONE-TIME COSTS -----(\$K)-----	1996	1997	1998	1999	2000	2001	Total
CONSTRUCTION							
MILCON	2,500	2,500	0	0	0	0	5,000
Fam Housing	0	0	0	0	0	0	0
Land Purch	0	0	0	0	0	0	0
O&M							
CIV SALARY							
Civ RIFs	127	127	0	0	0	0	255
Civ Retire	33	33	0	0	0	0	67
CIV MOVING							
Per Diem	0	0	0	0	0	0	0
POV Miles	0	0	0	0	0	0	0
Home Purch	0	0	0	0	0	0	0
HHG	0	0	0	0	0	0	0
Misc	0	0	0	0	0	0	0
House Hunt	0	0	0	0	0	0	0
PPS	662	662	0	0	0	0	1,325
RITA	0	0	0	0	0	0	0
FREIGHT							
Packing	47	50	9	10	9	3	129
Freight	0	0	0	0	0	0	0
Vehicles	0	0	0	0	0	0	0
Driving	0	0	0	0	0	0	0
Unemployment	22	22	0	0	0	0	44
OTHER							
Program Plan	229	172	129	97	72	54	753
Shutdown	437	437	0	0	0	0	875
New Hires	0	0	0	0	0	0	0
1-Time Move	0	0	0	0	0	0	0
MIL PERSONNEL							
MIL MOVING							
Per Diem	0	0	0	0	0	0	0
POV Miles	0	0	0	0	0	0	0
HHG	0	0	0	0	0	0	0
Misc	0	0	0	0	0	0	0
OTHER							
Elim PCS	741	746	0	0	0	0	1,487
OTHER							
HAP / RSE	104	104	0	0	0	0	208
Environmental	0	0	0	0	0	0	0
Info Manage	0	0	0	0	0	0	0
1-Time Other	0	0	0	0	0	0	0
TOTAL ONE-TIME	4,904	4,856	138	107	81	57	10,143

APPROPRIATIONS DETAIL REPORT (COBRA v5.08) - Page 8/18
 Data As Of 21:59 03/09/1995, Report Created 14:01 03/31/1995

Department : AIR FORCE
 Option Package : BROOKS ALT #1
 Scenario File : A:\COBRA\BROOKS-1.CBR
 Std Fctrs File : A:\COBRA\BROOKS.SFF

Base: BROOKS AFB, TX

RECURRINGCOSTS -----(\$K)-----	1996	1997	1998	1999	2000	2001	Total	Beyond
FAM HOUSE OPS	0	0	0	0	0	0	0	0
O&M								
RPMA	0	0	0	0	0	0	0	0
BOS	0	0	0	0	0	0	0	0
Unique Operat	0	0	0	0	0	0	0	0
Civ Salary	0	0	0	0	0	0	0	0
CHAMPUS	0	0	0	0	0	0	0	0
Caretaker	0	0	0	0	0	0	0	0
MIL PERSONNEL								
Off Salary	0	0	0	0	0	0	0	0
Enl Salary	0	0	0	0	0	0	0	0
House Allow	0	0	0	0	0	0	0	0
OTHER								
Mission	0	0	0	0	0	0	0	0
Misc Recur	0	0	0	0	0	0	0	0
Unique Other	0	0	0	0	0	0	0	0
TOTAL RECUR	0	0	0	0	0	0	0	0

TOTAL COSTS 4,904 4,856 138 107 81 57 10,143 0

ONE-TIME SAVES -----(\$K)-----	1996	1997	1998	1999	2000	2001	Total	Beyond
CONSTRUCTION								
MILCON	0	0	0	0	0	0	0	0
Fam Housing	0	0	0	0	0	0	0	0
O&M								
1-Time Move	0	0	0	0	0	0	0	0
MIL PERSONNEL								
Mil Moving	0	0	0	0	0	0	0	0
OTHER								
Land Sales	0	0	0	0	0	0	0	0
Environmental	0	0	0	0	0	0	0	0
1-Time Other	0	0	0	0	0	0	0	0
TOTAL ONE-TIME	0	0	0	0	0	0	0	0

RECURRINGSAVES -----(\$K)-----	1996	1997	1998	1999	2000	2001	Total	Beyond
FAM HOUSE OPS	301	904	1,205	1,205	1,205	1,205	6,025	1,205
O&M								
RPMA	320	969	1,297	1,297	1,297	1,297	6,477	1,297
BOS	275	843	1,154	1,208	1,274	1,330	6,085	1,349
Unique Operat	0	0	0	0	0	0	0	0
Civ Salary	1,796	5,387	7,183	7,183	7,183	7,183	35,914	7,183
CHAMPUS	0	0	0	0	0	0	0	0
MIL PERSONNEL								
Off Salary	708	2,124	2,832	2,832	2,832	2,832	14,160	2,832
Enl Salary	1,807	5,440	7,266	7,266	7,266	7,266	36,311	7,266
House Allow	612	1,297	1,501	1,748	1,953	2,010	9,123	2,010
OTHER								
Procurement	0	0	0	0	0	0	0	0
Mission	0	0	0	0	0	0	0	0
Misc Recur	0	0	0	0	0	0	0	0
Unique Other	0	0	0	0	0	0	0	0
TOTAL RECUR	5,820	16,964	22,438	22,740	23,010	23,123	114,094	23,142
TOTAL SAVINGS	5,820	16,964	22,438	22,740	23,010	23,123	114,094	23,142

APPROPRIATIONS DETAIL REPORT (COBRA v5.08) - Page 9/18
 Data As Of 21:59 03/09/1995, Report Created 14:01 03/31/1995

Department : AIR FORCE
 Option Package : BROOKS ALT #1
 Scenario File : A:\COBRA\BROOKS-1.CBR
 Std Fctrs File : A:\COBRA\BROOKS.SFF

Base: BROOKS AFB, TX

ONE-TIME NET -----(\$K)-----	1996	1997	1998	1999	2000	2001	Total	
CONSTRUCTION								
MILCON	2,500	2,500	0	0	0	0	5,000	
Fam Housing	0	0	0	0	0	0	0	
O&M								
Civ Retir/RIF	161	161	0	0	0	0	322	
Civ Moving	710	713	9	10	9	3	1,454	
Other	689	631	129	97	72	54	1,672	
MIL PERSONNEL								
Mil Moving	741	746	0	0	0	0	1,487	
OTHER								
HAP / RSE	104	104	0	0	0	0	208	
Environmental	0	0	0	0	0	0	0	
Info Manage	0	0	0	0	0	0	0	
1-Time Other	0	0	0	0	0	0	0	
Land	0	0	0	0	0	0	0	
TOTAL ONE-TIME	4,904	4,856	138	107	81	57	10,143	
RECURRING NET -----(\$K)-----	1996	1997	1998	1999	2000	2001	Total	Beyond
FAM HOUSE OPS	-301	-904	-1,205	-1,205	-1,205	-1,205	-6,025	-1,205
O&M								
RPMA	-320	-969	-1,297	-1,297	-1,297	-1,297	-6,477	-1,297
BOS	-275	-843	-1,154	-1,208	-1,274	-1,330	-6,085	-1,349
Unique Operat	0	0	0	0	0	0	0	0
Caretaker	0	0	0	0	0	0	0	0
Civ Salary	-1,796	-5,387	-7,183	-7,183	-7,183	-7,183	-35,914	-7,183
CHAMPUS	0	0	0	0	0	0	0	0
MIL PERSONNEL								
Mil Salary	-2,515	-7,564	-10,098	-10,098	-10,098	-10,098	-50,471	-10,098
House Allow	-612	-1,297	-1,501	-1,748	-1,953	-2,010	-9,123	-2,010
OTHER								
Procurement	0	0	0	0	0	0	0	0
Mission	0	0	0	0	0	0	0	0
Misc Recur	0	0	0	0	0	0	0	0
Unique Other	0	0	0	0	0	0	0	0
TOTAL RECUR	-5,820	-16,964	-22,438	-22,740	-23,010	-23,123	-114,094	-23,142
TOTAL NET COST	-916	-12,108	-22,300	-22,632	-22,929	-23,065	-103,951	-23,142

APPROPRIATIONS DETAIL REPORT (COBRA v5.08) - Page 10/18
 Data As Of 21:59 03/09/1995, Report Created 14:01 03/31/1995

Department : AIR FORCE
 Option Package : BROOKS ALT #1
 Scenario File : A:\COBRA\BROOKS-1.CBR
 Std Fctrs File : A:\COBRA\BROOKS.SFF

Base: BASE X ONE-TIME COSTS ----(\$K)-----	1996 ----	1997 ----	1998 ----	1999 ----	2000 ----	2001 ----	Total -----
CONSTRUCTION							
MILCON	0	0	0	0	0	0	0
Fam Housing	0	0	0	0	0	0	0
Land Purch	0	0	0	0	0	0	0
O&M							
CIV SALARY							
Civ RIFs	0	0	0	0	0	0	0
Civ Retire	0	0	0	0	0	0	0
CIV MOVING							
Per Diem	0	0	0	0	0	0	0
POV Miles	0	0	0	0	0	0	0
Home Purch	0	0	0	0	0	0	0
HHG	0	0	0	0	0	0	0
Misc	0	0	0	0	0	0	0
House Hunt	0	0	0	0	0	0	0
PPS	0	0	0	0	0	0	0
RITA	0	0	0	0	0	0	0
FREIGHT							
Packing	0	0	0	0	0	0	0
Freight	0	0	0	0	0	0	0
Vehicles	0	0	0	0	0	0	0
Driving	0	0	0	0	0	0	0
Unemployment	0	0	0	0	0	0	0
OTHER							
Program Plan	0	0	0	0	0	0	0
Shutdown	0	0	0	0	0	0	0
New Hires	0	0	0	0	0	0	0
1-Time Move	0	0	0	0	0	0	0
MIL PERSONNEL							
MIL MOVING							
Per Diem	0	0	0	0	0	0	0
POV Miles	0	0	0	0	0	0	0
HHG	0	0	0	0	0	0	0
Misc	0	0	0	0	0	0	0
OTHER							
Elim PCS	0	0	0	0	0	0	0
OTHER							
HAP / RSE	0	0	0	0	0	0	0
Environmental	0	0	0	0	0	0	0
Info Manage	0	0	0	0	0	0	0
1-Time Other	0	0	0	0	0	0	0
TOTAL ONE-TIME	0	0	0	0	0	0	0

APPROPRIATIONS DETAIL REPORT (COBRA v5.08) - Page 13/18
 Data As Of 21:59 03/09/1995, Report Created 14:01 03/31/1995

Department : AIR FORCE
 Option Package : BROOKS ALT #1
 Scenario File : A:\COBRA\BROOKS-1.CBR
 Std Fctrs File : A:\COBRA\BROOKS.SFF

Base: TYNDALL AFB, FL

ONE-TIME COSTS -----(\$K)-----	1996	1997	1998	1999	2000	2001	Total
-----	-----	-----	-----	-----	-----	-----	-----
CONSTRUCTION							
MILCON	0	0	0	0	0	0	0
Fam Housing	0	0	0	0	0	0	0
Land Purch	0	0	0	0	0	0	0
O&M							
CIV SALARY							
Civ RIFs	0	0	0	0	0	0	0
Civ Retire	0	0	0	0	0	0	0
CIV MOVING							
Per Diem	0	0	0	0	0	0	0
POV Miles	0	0	0	0	0	0	0
Home Purch	0	0	0	0	0	0	0
HHG	0	0	0	0	0	0	0
Misc	0	0	0	0	0	0	0
House Hunt	0	0	0	0	0	0	0
PPS	0	0	0	0	0	0	0
RITA	0	0	0	0	0	0	0
FREIGHT							
Packing	0	0	0	0	0	0	0
Freight	0	0	0	0	0	0	0
Vehicles	0	0	0	0	0	0	0
Driving	0	0	0	0	0	0	0
Unemployment	0	0	0	0	0	0	0
OTHER							
Program Plan	0	0	0	0	0	0	0
Shutdown	0	0	0	0	0	0	0
New Hires	0	0	0	0	0	0	0
1-Time Move	0	0	0	0	0	0	0
MIL PERSONNEL							
MIL MOVING							
Per Diem	0	0	0	0	0	0	0
POV Miles	0	0	0	0	0	0	0
HHG	0	0	0	0	0	0	0
Misc	0	0	0	0	0	0	0
OTHER							
Elim PCS	0	0	0	0	0	0	0
OTHER							
HAP / RSE	0	0	0	0	0	0	0
Environmental	0	0	0	0	0	0	0
Info Manage	0	0	0	0	0	0	0
1-Time Other	0	0	0	0	0	0	0
TOTAL ONE-TIME	0	0	0	0	0	0	0

APPROPRIATIONS DETAIL REPORT (COBRA v5.08) - Page 15/18
 Data As Of 21:59 03/09/1995, Report Created 14:01 03/31/1995

Department : AIR FORCE
 Option Package : BROOKS ALT #1
 Scenario File : A:\COBRA\BROOKS-1.CBR
 Std Fctrs File : A:\COBRA\BROOKS.SFF

Base: TYNDALL AFB, FL

ONE-TIME NET -----(\$K)-----	1996	1997	1998	1999	2000	2001	Total
CONSTRUCTION							
MILCON	0	0	0	0	0	0	0
Fam Housing	0	0	0	0	0	0	0
O&M							
Civ Retir/RIF	0	0	0	0	0	0	0
Civ Moving	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0
MIL PERSONNEL							
Mil Moving	0	0	0	0	0	0	0
OTHER							
HAP / RSE	0	0	0	0	0	0	0
Environmental	0	0	0	0	0	0	0
Info Manage	0	0	0	0	0	0	0
1-Time Other	0	0	0	0	0	0	0
Land	0	0	0	0	0	0	0
TOTAL ONE-TIME	0	0	0	0	0	0	0

RECURRING NET -----(\$K)-----	1996	1997	1998	1999	2000	2001	Total	Beyond
FAM HOUSE OPS	0	0	0	0	0	0	0	0
O&M								
RPMA	0	0	0	0	0	0	0	0
BOS	0	0	0	0	0	0	0	0
Unique Operat	0	0	0	0	0	0	0	0
Caretaker	0	0	0	0	0	0	0	0
Civ Salary	0	0	0	0	0	0	0	0
CHAMPUS	0	0	0	0	0	0	0	0
MIL PERSONNEL								
Mil Salary	0	0	0	0	0	0	0	0
House Allow	0	0	0	0	0	0	0	0
OTHER								
Procurement	0	0	0	0	0	0	0	0
Mission	0	0	0	0	0	0	0	0
Misc Recur	0	0	0	0	0	0	0	0
Unique Other	0	0	0	0	0	0	0	0
TOTAL RECUR	0	0	0	0	0	0	0	0
TOTAL NET COST	0	0	0	0	0	0	0	0

APPROPRIATIONS DETAIL REPORT (COBRA v5.08) - Page 16/18
 Data As Of 21:59 03/09/1995, Report Created 14:01 03/31/1995

Department : AIR FORCE
 Option Package : BROOKS ALT #1
 Scenario File : A:\COBRA\BROOKS-1.CBR
 Std Fctrs File : A:\COBRA\BROOKS.SFF

Base: KELLY AFB, TX

ONE-TIME COSTS	1996	1997	1998	1999	2000	2001	Total
-----(\$K)-----	-----	-----	-----	-----	-----	-----	-----
CONSTRUCTION							
MILCON	500	500	0	0	0	0	1,000
Fam Housing	0	0	0	0	0	0	0
Land Purch	0	0	0	0	0	0	0
O&M							
CIV SALARY							
Civ RIFs	0	0	0	0	0	0	0
Civ Retire	0	0	0	0	0	0	0
CIV MOVING							
Per Diem	0	0	0	0	0	0	0
POV Miles	0	0	0	0	0	0	0
Home Purch	0	0	0	0	0	0	0
HHG	0	0	0	0	0	0	0
Misc	0	0	0	0	0	0	0
House Hunt	0	0	0	0	0	0	0
PPS	0	0	0	0	0	0	0
RITA	0	0	0	0	0	0	0
FREIGHT							
Packing	0	0	0	0	0	0	0
Freight	0	0	0	0	0	0	0
Vehicles	0	0	0	0	0	0	0
Driving	0	0	0	0	0	0	0
Unemployment	0	0	0	0	0	0	0
OTHER							
Program Plan	0	0	0	0	0	0	0
Shutdown	0	0	0	0	0	0	0
New Hires	0	0	0	0	0	0	0
1-Time Move	0	0	0	0	0	0	0
MIL PERSONNEL							
MIL MOVING							
Per Diem	0	0	0	0	0	0	0
POV Miles	0	0	0	0	0	0	0
HHG	0	0	0	0	0	0	0
Misc	0	0	0	0	0	0	0
OTHER							
Elim PCS	0	0	0	0	0	0	0
OTHER							
HAP / RSE	0	0	0	0	0	0	0
Environmental	0	0	0	0	0	0	0
Info Manage	0	0	0	0	0	0	0
1-Time Other	0	0	0	0	0	0	0
TOTAL ONE-TIME	500	500	0	0	0	0	1,000

APPROPRIATIONS DETAIL REPORT (COBRA v5.08) - Page 18/18
 Data As Of 21:59 03/09/1995, Report Created 14:01 03/31/1995

Department : AIR FORCE
 Option Package : BROOKS ALT #1
 Scenario File : A:\COBRA\BROOKS-1.CBR
 Std Fctrs File : A:\COBRA\BROOKS.SFF

Base: KELLY AFB, TX

ONE-TIME NET -----(\$K)-----	1996	1997	1998	1999	2000	2001	Total	
CONSTRUCTION								
MILCON	500	500	0	0	0	0	1,000	
Fam Housing	0	0	0	0	0	0	0	
O&M								
Civ Retir/RIF	0	0	0	0	0	0	0	
Civ Moving	0	0	0	0	0	0	0	
Other	0	0	0	0	0	0	0	
MIL PERSONNEL								
Mil Moving	0	0	0	0	0	0	0	
OTHER								
HAP / RSE	0	0	0	0	0	0	0	
Environmental	0	0	0	0	0	0	0	
Info Manage	0	0	0	0	0	0	0	
1-Time Other	0	0	0	0	0	0	0	
Land	0	0	0	0	0	0	0	
TOTAL ONE-TIME	500	500	0	0	0	0	1,000	
RECURRING NET -----(\$K)-----	1996	1997	1998	1999	2000	2001	Total	Beyond
FAM HOUSE OPS	0	0	0	0	0	0	0	0
O&M								
RPMA	0	0	0	0	0	0	0	0
BOS	98	203	221	242	260	266	1,291	266
Unique Operat.	0	0	0	0	0	0	0	0
Caretaker	0	0	0	0	0	0	0	0
Civ Salary	0	0	0	0	0	0	0	0
CHAMPUS	0	0	0	0	0	0	0	0
MIL PERSONNEL								
Mil Salary	0	0	0	0	0	0	0	0
House Allow	342	731	868	1,036	1,172	1,211	5,361	1,211
OTHER								
Procurement	0	0	0	0	0	0	0	0
Mission	0	0	0	0	0	0	0	0
Misc Recur	0	0	0	0	0	0	0	0
Unique Other	0	0	0	0	0	0	0	0
TOTAL RECUR	441	934	1,089	1,278	1,433	1,478	6,652	1,478
TOTAL NET COST	941	1,434	1,089	1,278	1,433	1,478	7,652	1,478

PERSONNEL, SF, RPMA, AND BOS DELTAS (COBRA v5.08)
 Data As Of 21:59 03/09/1995, Report Created 14:01 03/31/1995

Department : AIR FORCE
 Option Package : BROOKS ALT #1
 Scenario File : A:\COBRA\BROOKS-1.CBR
 Std Fctrs File : A:\COBRA\BROOKS.SFF

Base	Personnel		SF		
	Change	%Change	Change	%Change	Chg/Per
WRIGHT-PATTERSON AFB	0	0%	0	0%	0
BROOKS AFB	-909	-25%	-700,000	-36%	770
BASE X	0	0%	0	0%	0
TYNDALL AFB	0	0%	0	0%	0
KELLY AFB	518	3%	0	0%	0

Base	RPMA(\$)			BOS(\$)		
	Change	%Change	Chg/Per	Change	%Change	Chg/Per
WRIGHT-PATTERSON AFB	0	0%	0	0	0%	0
BROOKS AFB	-1,296,871	-34%	1,427	-1,348,986	-14%	1,484
BASE X	0	0%	0	0	0%	0
TYNDALL AFB	0	0%	0	0	0%	0
KELLY AFB	0	0%	0	266,242	2%	514

Base	RPMABOS(\$)		
	Change	%Change	Chg/Per
WRIGHT-PATTERSON AFB	0	0%	0
BROOKS AFB	-2,645,858	-20%	2,911
BASE X	0	0%	0
TYNDALL AFB	0	0%	0
KELLY AFB	266,242	1%	514

*In DoD version
 there was an
 increase of SF at
 Wright-Patt & Tyndall.*

Kelly BOS

RPMA/BOS CHANGE REPORT (COBRA v5.08)
 Data As Of 21:59 03/09/1995, Report Created 14:01 03/31/1995

Department : AIR FORCE
 Option Package : BROOKS ALT #1
 Scenario File : A:\COBRA\BROOKS-1.CBR
 Std Fctrs File : A:\COBRA\BROOKS.SFF

Net Change(\$K)	1996	1997	1998	1999	2000	2001	Total	Beyond
RPMA Change	-320	-969	-1,297	-1,297	-1,297	-1,297	-6,477	-1,297
BOS Change	-176	-640	-933	-966	-1,014	-1,064	-4,794	-1,083
Housing Change	-301	-904	-1,205	-1,205	-1,205	-1,205	-6,025	-1,205
TOTAL CHANGES	-798	-2,512	-3,435	-3,468	-3,516	-3,565	-17,296	-3,585

INPUT DATA REPORT (COBRA v5.08)
 Data As Of 21:59 03/09/1995, Report Created 14:01 03/31/1995

Department : AIR FORCE
 Option Package : BROOKS ALT #1
 Scenario File : A:\COBRA\BROOKS-1.CBR
 Std Fctrs File : A:\COBRA\BROOKS.SFF

INPUT SCREEN ONE - GENERAL SCENARIO INFORMATION

Model Year One : FY 1996

Model does Time-Phasing of Construction/Shutdown: No

Base Name	Strategy:
-----	-----
WRIGHT-PATTERSON AFB, OH	Realignment
BROOKS AFB, TX	Deactivates in FY 2001
BASE X	Realignment
TYNDALL AFB, FL	Realignment
KELLY AFB, TX	Realignment

Summary:

 CLOSE BROOKS AFB; RETAIN HSC, ARMSRTONG LAB, SCHOOL OF AEROSPACE MEDICINE, AFCEE, AND YA IN CANTONEMENT AT BROOKS FIELD. THE 68TH INTEL SQDN RELOCATES TO KELLY AFB; THE 710TH INTEL FLIGHT (AFRES) RELOCATES TO LACKLAND.

INPUT SCREEN TWO - DISTANCE TABLE

From Base:	To Base:	Distance:
-----	-----	-----
WRIGHT-PATTERSON AFB, OH	BROOKS AFB, TX	1,265 mi
BROOKS AFB, TX	BASE X	1,000 mi
BROOKS AFB, TX	TYNDALL AFB, FL	846 mi
BROOKS AFB, TX	KELLY AFB, TX	14 mi

INPUT SCREEN THREE - MOVEMENT TABLE

Transfers from BROOKS AFB, TX to KELLY AFB, TX

	1996	1997	1998	1999	2000	2001
	----	----	----	----	----	----
Officer Positions:	10	9	1	1	1	1
Enlisted Positions:	67	80	32	39	32	8
Civilian Positions:	114	114	2	2	2	3
Student Positions:	0	0	0	0	0	0
Missn Eqpt (tons):	0	0	0	0	0	0
Suppt Eqpt (tons):	0	0	0	0	0	0
Military Light Vehicles:	0	0	0	0	0	0
Heavy/Special Vehicles:	0	0	0	0	0	0

INPUT SCREEN FOUR - STATIC BASE INFORMATION

Name: WRIGHT-PATTERSON AFB, OH

Total Officer Employees:	3,709	RPMA Non-Payroll (\$K/Year):	11,009
Total Enlisted Employees:	2,993	Communications (\$K/Year):	5,714
Total Student Employees:	0	BOS Non-Payroll (\$K/Year):	0
Total Civilian Employees:	14,109	BOS Payroll (\$K/Year):	57,011
Mil Families Living On Base:	34.0%	Family Housing (\$K/Year):	11,777
Civilians Not Willing To Move:	6.0%	Area Cost Factor:	0.89
Officer Housing Units Avail:	0	CHAMPUS In-Pat (\$/Visit):	0
Enlisted Housing Units Avail:	0	CHAMPUS Out-Pat (\$/Visit):	0
Total Base Facilities(KSF):	18,046	CHAMPUS Shift to Medicare:	20.9%
Officer VHA (\$/Month):	116	Activity Code:	AF092
Enlisted VHA (\$/Month):	75		
Per Diem Rate (\$/Day):	93	Homeowner Assistance Program:	Yes
Freight Cost (\$/Ton/Mile):	0.07	Unique Activity Information:	No

Department : AIR FORCE
 Option Package : BROOKS ALT #1
 Scenario File : A:\COBRA\BROOKS-1.CBR
 Std Fctrs File : A:\COBRA\BROOKS.SFF

INPUT SCREEN FOUR - STATIC BASE INFORMATION

Name: BROOKS AFB, TX

Total Officer Employees:	640	RPMA Non-Payroll (\$K/Year):	3,765
Total Enlisted Employees:	999	Communications (\$K/Year):	192
Total Student Employees:	0	BOS Non-Payroll (\$K/Year):	8,585
Total Civilian Employees:	1,766	BOS Payroll (\$K/Year):	0
Mil Families Living On Base:	19.0%	Family Housing (\$K/Year):	1,205
Civilians Not Willing To Move:	6.0%	Area Cost Factor:	0.87
Officer Housing Units Avail:	0	CHAMPUS In-Pat (\$/Visit):	0
Enlisted Housing Units Avail:	0	CHAMPUS Out-Pat (\$/Visit):	0
Total Base Facilities(KSF):	1,918	CHAMPUS Shift to Medicare:	20.9%
Officer VHA (\$/Month):	106	Activity Code:	AF009
Enlisted VHA (\$/Month):	80		
Per Diem Rate (\$/Day):	97	Homeowner Assistance Program:	Yes
Freight Cost (\$/Ton/Mile):	0.07	Unique Activity Information:	No

*would not
 all be avoided
 because there is
 no available housing
 at Kelly.*

Name: BASE X

Total Officer Employees:	736	RPMA Non-Payroll (\$K/Year):	6,147
Total Enlisted Employees:	3,263	Communications (\$K/Year):	3,887
Total Student Employees:	0	BOS Non-Payroll (\$K/Year):	21,001
Total Civilian Employees:	11,455	BOS Payroll (\$K/Year):	0
Mil Families Living On Base:	54.0%	Family Housing (\$K/Year):	6,225
Civilians Not Willing To Move:	0.0%	Area Cost Factor:	1.00
Officer Housing Units Avail:	0	CHAMPUS In-Pat (\$/Visit):	0
Enlisted Housing Units Avail:	0	CHAMPUS Out-Pat (\$/Visit):	0
Total Base Facilities(KSF):	13,709	CHAMPUS Shift to Medicare:	20.9%
Officer VHA (\$/Month):	66	Activity Code:	00001
Enlisted VHA (\$/Month):	50		
Per Diem Rate (\$/Day):	69	Homeowner Assistance Program:	No
Freight Cost (\$/Ton/Mile):	0.10	Unique Activity Information:	No

Name: TYNDALL AFB, FL

Total Officer Employees:	802	RPMA Non-Payroll (\$K/Year):	3,175
Total Enlisted Employees:	3,801	Communications (\$K/Year):	594
Total Student Employees:	0	BOS Non-Payroll (\$K/Year):	9,272
Total Civilian Employees:	1,011	BOS Payroll (\$K/Year):	0
Mil Families Living On Base:	48.0%	Family Housing (\$K/Year):	6,390
Civilians Not Willing To Move:	6.0%	Area Cost Factor:	1.00
Officer Housing Units Avail:	0	CHAMPUS In-Pat (\$/Visit):	0
Enlisted Housing Units Avail:	0	CHAMPUS Out-Pat (\$/Visit):	0
Total Base Facilities(KSF):	4,817	CHAMPUS Shift to Medicare:	20.9%
Officer VHA (\$/Month):	65	Activity Code:	86
Enlisted VHA (\$/Month):	55		
Per Diem Rate (\$/Day):	75	Homeowner Assistance Program:	Yes
Freight Cost (\$/Ton/Mile):	0.07	Unique Activity Information:	No

Name: KELLY AFB, TX

Total Officer Employees:	825	RPMA Non-Payroll (\$K/Year):	16,993
Total Enlisted Employees:	3,539	Communications (\$K/Year):	3,681
Total Student Employees:	0	BOS Non-Payroll (\$K/Year):	13,945
Total Civilian Employees:	14,036	BOS Payroll (\$K/Year):	0
Mil Families Living On Base:	14.0%	Family Housing (\$K/Year):	2,870
Civilians Not Willing To Move:	6.0%	Area Cost Factor:	1.00
Officer Housing Units Avail:	0	CHAMPUS In-Pat (\$/Visit):	0
Enlisted Housing Units Avail:	0	CHAMPUS Out-Pat (\$/Visit):	0
Total Base Facilities(KSF):	16,316	CHAMPUS Shift to Medicare:	20.9%
Officer VHA (\$/Month):	106	Activity Code:	43
Enlisted VHA (\$/Month):	80		
Per Diem Rate (\$/Day):	97	Homeowner Assistance Program:	Yes
Freight Cost (\$/Ton/Mile):	0.07	Unique Activity Information:	No

Department : AIR FORCE
 Option Package : BROOKS ALT #1
 Scenario File : A:\COBRA\BROOKS-1.CBR
 Std Fctrs File : A:\COBRA\BROOKS.SFF

INPUT SCREEN FIVE - DYNAMIC BASE INFORMATION

Name: WRIGHT-PATTERSON AFB, OH

	1996	1997	1998	1999	2000	2001
1-Time Unique Cost (\$K):	0	0	0	0	0	0
1-Time Unique Save (\$K):	0	0	0	0	0	0
1-Time Moving Cost (\$K):	0	0	0	0	0	0
1-Time Moving Save (\$K):	0	0	0	0	0	0
Env Non-MilCon Reqcd(\$K):	0	0	0	0	0	0
Activ Mission Cost (\$K):	0	0	0	0	0	0
Activ Mission Save (\$K):	0	0	0	0	0	0
Misc Recurring Cost(\$K):	0	0	0	0	0	0
Misc Recurring Save(\$K):	0	0	0	0	0	0
Land (+Buy/-Sales) (\$K):	0	0	0	0	0	0
Construction Schedule(%):	23%	12%	16%	22%	11%	16%
Shutdown Schedule (%):	0%	23%	12%	16%	22%	27%
MilCon Cost Avoidnc(\$K):	0	0	0	0	0	0
Fam Housing Avoidnc(\$K):	0	0	0	0	0	0
Procurement Avoidnc(\$K):	0	0	0	0	0	0
CHAMPUS In-Patients/Yr:	0	0	0	0	0	0
CHAMPUS Out-Patients/Yr:	0	0	0	0	0	0
Facil ShutDown(KSF):	0					
		Perc Family Housing ShutDown:				0.0%

Name: BROOKS AFB, TX

	1996	1997	1998	1999	2000	2001
1-Time Unique Cost (\$K):	0	0	0	0	0	0
1-Time Unique Save (\$K):	0	0	0	0	0	0
1-Time Moving Cost (\$K):	0	0	0	0	0	0
1-Time Moving Save (\$K):	0	0	0	0	0	0
Env Non-MilCon Reqcd(\$K):	0	0	0	0	0	0
Activ Mission Cost (\$K):	0	0	0	0	0	0
Activ Mission Save (\$K):	0	0	0	0	0	0
Misc Recurring Cost(\$K):	0	0	0	0	0	0
Misc Recurring Save(\$K):	0	0	0	0	0	0
Land (+Buy/-Sales) (\$K):	0	0	0	0	0	0
Construction Schedule(%):	50%	50%	0%	0%	0%	0%
Shutdown Schedule (%):	50%	50%	0%	0%	0%	0%
MilCon Cost Avoidnc(\$K):	0	0	0	0	0	0
Fam Housing Avoidnc(\$K):	0	0	0	0	0	0
Procurement Avoidnc(\$K):	0	0	0	0	0	0
CHAMPUS In-Patients/Yr:	0	0	0	0	0	0
CHAMPUS Out-Patients/Yr:	0	0	0	0	0	0
Facil ShutDown(KSF):	700					
		Perc Family Housing ShutDown:				100.0%

Name: BASE X

	1996	1997	1998	1999	2000	2001
1-Time Unique Cost (\$K):	0	0	0	0	0	0
1-Time Unique Save (\$K):	0	0	0	0	0	0
1-Time Moving Cost (\$K):	0	0	0	0	0	0
1-Time Moving Save (\$K):	0	0	0	0	0	0
Env Non-MilCon Reqcd(\$K):	0	0	0	0	0	0
Activ Mission Cost (\$K):	0	0	0	0	0	0
Activ Mission Save (\$K):	0	0	0	0	0	0
Misc Recurring Cost(\$K):	0	0	0	0	0	0
Misc Recurring Save(\$K):	0	0	0	0	0	0
Land (+Buy/-Sales) (\$K):	0	0	0	0	0	0
Construction Schedule(%):	23%	12%	16%	22%	11%	16%
Shutdown Schedule (%):	0%	23%	12%	16%	22%	27%
MilCon Cost Avoidnc(\$K):	0	0	0	0	0	0
Fam Housing Avoidnc(\$K):	0	0	0	0	0	0
Procurement Avoidnc(\$K):	0	0	0	0	0	0
CHAMPUS In-Patients/Yr:	0	0	0	0	0	0
CHAMPUS Out-Patients/Yr:	0	0	0	0	0	0
Facil ShutDown(KSF):	0					
		Perc Family Housing ShutDown:				0.0%

Department : AIR FORCE
 Option Package : BROOKS ALT #1
 Scenario File : A:\COBRA\BROOKS-1.CBR
 Std Fctrs File : A:\COBRA\BROOKS.SFF

INPUT SCREEN FIVE - DYNAMIC BASE INFORMATION

Name: TYNDALL AFB, FL

	1996	1997	1998	1999	2000	2001
1-Time Unique Cost (\$K):	0	0	0	0	0	0
1-Time Unique Save (\$K):	0	0	0	0	0	0
1-Time Moving Cost (\$K):	0	0	0	0	0	0
1-Time Moving Save (\$K):	0	0	0	0	0	0
Env Non-MilCon Reqd(\$K):	0	0	0	0	0	0
Activ Mission Cost (\$K):	0	0	0	0	0	0
Activ Mission Save (\$K):	0	0	0	0	0	0
Misc Recurring Cost(\$K):	0	0	0	0	0	0
Misc Recurring Save(\$K):	0	0	0	0	0	0
Land (+Buy/-Sales) (\$K):	0	0	0	0	0	0
Construction Schedule(%):	23%	12%	16%	22%	11%	16%
Shutdown Schedule (%):	0%	23%	12%	16%	22%	27%
MilCon Cost Avoidnc(\$K):	0	0	0	0	0	0
Fam Housing Avoidnc(\$K):	0	0	0	0	0	0
Procurement Avoidnc(\$K):	0	0	0	0	0	0
CHAMPUS In-Patients/Yr:	0	0	0	0	0	0
CHAMPUS Out-Patients/Yr:	0	0	0	0	0	0
Facil ShutDown(KSF):	0					
			Perc Family Housing ShutDown:			0.0%

Name: KELLY AFB, TX

	1996	1997	1998	1999	2000	2001
1-Time Unique Cost (\$K):	0	0	0	0	0	0
1-Time Unique Save (\$K):	0	0	0	0	0	0
1-Time Moving Cost (\$K):	0	0	0	0	0	0
1-Time Moving Save(\$K):	0	0	0	0	0	0
Env Non-MilCon Reqd(\$K):	0	0	0	0	0	0
Activ Mission Cost (\$K):	0	0	0	0	0	0
Activ Mission Save (\$K):	0	0	0	0	0	0
Misc Recurring Cost(\$K):	0	0	0	0	0	0
Misc Recurring Save(\$K):	0	0	0	0	0	0
Land (+Buy/-Sales) (\$K):	0	0	0	0	0	0
Construction Schedule(%):	50%	50%	0%	0%	0%	0%
Shutdown Schedule (%):	50%	50%	0%	0%	0%	0%
MilCon Cost Avoidnc(\$K):	0	0	0	0	0	0
Fam Housing Avoidnc(\$K):	0	0	0	0	0	0
Procurement Avoidnc(\$K):	0	0	0	0	0	0
CHAMPUS In-Patients/Yr:	0	0	0	0	0	0
CHAMPUS Out-Patients/Yr:	0	0	0	0	0	0
Facil ShutDown(KSF):	0					
			Perc Family Housing ShutDown:			0.0%

INPUT SCREEN SIX - BASE PERSONNEL INFORMATION

Name: BROOKS AFB, TX

	1996	1997	1998	1999	2000	2001
Off Force Struc Change:	0	186	0	0	0	0
Enl Force Struc Change:	0	129	0	0	0	0
Civ Force Struc Change:	0	-101	0	0	0	0
Stu Force Struc Change:	0	0	0	0	0	0
Off Scenario Change:	-18	-18	0	0	0	0
Enl Scenario Change:	-100	-101	0	0	0	0
Civ Scenario Change:	-77	-77	0	0	0	0
Off Change(No Sal Save):	0	0	0	0	0	0
Enl Change(No Sal Save):	0	0	0	0	0	0
Civ Change(No Sal Save):	0	0	0	0	0	0
Caretakers - Military:	0	0	0	0	0	0
Caretakers - Civilian:	0	0	0	0	0	0

Department : AIR FORCE
 Option Package : BROOKS ALT #1
 Scenario File : A:\COBRA\BROOKS-1.CBR
 Std Fctrs File : A:\COBRA\BROOKS.SFF

INPUT SCREEN SEVEN - BASE MILITARY CONSTRUCTION INFORMATION

Name: BROOKS AFB, TX

Description	Categ	New MilCon	Rehab MilCon	Total Cost(\$K)
CANTONEMENT	OTHER	0	0	5,000

Name: KELLY AFB, TX

Description	Categ	New MilCon	Rehab MilCon	Total Cost(\$K)
MINOR ADAPTATIONS	OTHER	0	0	1,000

STANDARD FACTORS SCREEN ONE - PERSONNEL

Percent Officers Married:	76.80%	Civ Early Retire Pay Factor:	9.00%
Percent Enlisted Married:	66.90%	Priority Placement Service:	60.00%
Enlisted Housing MilCon:	80.00%	PPS Actions Involving PCS:	50.00%
Officer Salary(\$/Year):	78,668.00	Civilian PCS Costs (\$):	28,800.00
Off BAQ with Dependents(\$):	7,073.00	Civilian New Hire Cost(\$):	4,000.00
Enlisted Salary(\$/Year):	36,148.00	Nat Median Home Price(\$):	114,600.00
Enl BAQ with Dependents(\$):	5,162.00	Home Sale Reimburse Rate:	10.00%
Avg Unemploy Cost(\$/Week):	174.00	Max Home Sale Reimburs(\$):	22,385.00
Unemployment Eligibility(Weeks):	18	Home Purch Reimburse Rate:	5.00%
Civilian Salary(\$/Year):	46,642.00	Max Home Purch Reimburs(\$):	11,191.00
Civilian Turnover Rate:	15.00%	Civilian Homeowning Rate:	64.00%
Civilian Early Retire Rate:	10.00%	HAP Home Value Reimburse Rate:	22.90%
Civilian Regular Retire Rate:	5.00%	HAP Homeowner Receiving Rate:	5.00%
Civilian RIF Pay Factor:	39.00%	RSE Home Value Reimburse Rate:	0.00%
SF File Desc:	DEPOT FACTORS	RSE Homeowner Receiving Rate:	0.00%

STANDARD FACTORS SCREEN TWO - FACILITIES

RPMA Building SF Cost Index:	0.93	Rehab vs. New MilCon Cost:	0.00%
BOS Index (RPMA vs population):	0.54	Info Management Account:	0.00%
(Indices are used as exponents)		MilCon Design Rate:	0.00%
Program Management Factor:	10.00%	MilCon SIOH Rate:	0.00%
Caretaker Admin(SF/Care):	162.00	MilCon Contingency Plan Rate:	0.00%
Mothball Cost (\$/SF):	1.25	MilCon Site Preparation Rate:	0.00%
Avg Bachelor Quarters(SF):	256.00	Discount Rate for NPV.RPT/ROI:	2.75%
Avg Family Quarters(SF):	1,320.00	Inflation Rate for NPV.RPT/ROI:	0.00%
APPDET.RPT Inflation Rates:			
1996: 0.00% 1997: 2.90% 1998: 3.00%		1999: 3.00% 2000: 3.00% 2001: 3.00%	

STANDARD FACTORS SCREEN THREE - TRANSPORTATION

Material/Assigned Person(Lb):	710	Equip Pack & Crate(\$/Ton):	284.00
HHG Per Off Family (Lb):	14,500.00	Mil Light Vehicle(\$/Mile):	0.43
HHG Per Enl Family (Lb):	9,000.00	Heavy/Spec Vehicle(\$/Mile):	1.40
HHG Per Mil Single (Lb):	6,400.00	POV Reimbursement(\$/Mile):	0.18
HHG Per Civilian (Lb):	18,000.00	Avg Mil Tour Length (Years):	4.10
Total HHG Cost (\$/100Lb):	35.00	Routine PCS(\$/Pers/Tour):	6,437.00
Air Transport (\$/Pass Mile):	0.20	One-Time Off PCS Cost(\$):	9,142.00
Misc Exp (\$/Direct Employ):	700.00	One-Time Enl PCS Cost(\$):	5,761.00

Department : AIR FORCE
 Option Package : BROOKS ALT #1
 Scenario File : A:\COBRA\BROOKS-1.CBR
 Std Fctrs File : A:\COBRA\BROOKS.SFF

STANDARD FACTORS SCREEN FOUR - MILITARY CONSTRUCTION

Category	UM	\$/UM	Category	UM	\$/UM
-----	--	----	-----	--	----
Horizontal	(SY)	0	Optional Category A	()	0
Waterfront	(LF)	0	Optional Category B	()	0
Air Operations	(SF)	0	Optional Category C	()	0
Operational	(SF)	0	Optional Category D	()	0
Administrative	(SF)	0	Optional Category E	()	0
School Buildings	(SF)	0	Optional Category F	()	0
Maintenance Shops	(SF)	0	Optional Category G	()	0
Bachelor Quarters	(SF)	0	Optional Category H	()	0
Family Quarters	(SF)	0	Optional Category I	()	0
Covered Storage	(SF)	0	Optional Category J	()	0
Dining Facilities	(SF)	0	Optional Category K	()	0
Recreation Facilities	(SF)	0	Optional Category L	()	0
Communications Facil	(SF)	0	Optional Category M	()	0
Shipyards Maintenance	(SF)	0	Optional Category N	()	0
RDT & E Facilities	(SF)	0	Optional Category O	()	0
POL Storage	(BL)	0	Optional Category P	()	0
Ammunition Storage	(SF)	0	Optional Category Q	()	0
Medical Facilities	(SF)	0	Optional Category R	()	0
Environmental	()	0			



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)

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 need 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 disruption.

Product Centers and Laboratories

Page 4. Question 1: Secretary Widnall, an April 1994 Defense Science Board (DSB) report states that the Defense Laboratory System is an "obsolescent artifact of the Cold War that has not kept pace with the shrinking military force structure and changing patterns of technology advancement generation." The DSB recommended a 20 percent cut in the laboratories' Civil Service personnel, in addition to the 4 percent per annum cut directed by Defense Policy Guidance 1995-99. These cuts will result in a 35 percent reduction by the end of the century. Have you recommended base closures or realignments as a result of these personnel reductions?

Answer: The recommended closure of Brooks AFB and relocation of the Human Systems Center and the closure of Rome Lab will bring total personnel down to the level the Air Force will need to effectively operate in this area. The closures and realignments were recommended as a result of an analysis of force structure and the eight selection criteria.

Page 5, Question 2: Secretary Widnall, your recommendation to close Brooks Air Force Base, Texas, involved closing all activities and facilities, including family housing. We understand that there is a large waiting list for family housing at nearby Lackland Air Force Base.

Why did your recommendation not include the retention of family housing at Brooks to help satisfy Air Force family housing requirements in the San Antonio metropolitan area? (Major General Blume agreed to revisit this issue and to provide an insert for the record.)

Answer: Brooks AFB Family Housing was not recommended for retention so that Brooks AFB could be recommended for total closure. The Air Force receives most benefit from the total closure of an installation and the elimination of its entire base operating support. However, in response to the question from the Commission, AETC and AFMC are evaluating the possibility of transferring the responsibility for Brooks base housing to Kelly AFB or Lackland AFB. The Air Force will provide a position on this issue in the near future.

Page 5, Question 3: Secretary Widnall, we recently received a copy of a memorandum dated February 15, 1995, from the Deputy Assistant Secretary of the Army (Installations and Housing) to the Principal Deputy Assistant Secretary of the Air Force (Installations) expressing interest in the U.S. Army Reserve Command acquiring approximately 57 acres and 13 permanent buildings at Brooks AFB--should it become available from the Air Force (see attachment). Transfer of this Air Force property would allow the Army Reserve to (1) eliminate a costly lease, (2) reduce the need for newly programmed military construction, and (3) provides facilities necessary to enhance unit readiness at a significant savings to the Department of Defense. According to Army officials, the Army Reserve would be able to cancel a lease with an annual cost saving of \$218,655 and a fiscal year 1999 military construction project with an estimated cost saving of \$11.4 million.

Was this request discussed and resolved during deliberations by either the BRAC 95 Steering Group or BRAC 95 Review Group, which were established to consider such inter-service needs? If not, why not? (During the hearing, testimony indicated a record reply was in order.)

Answer: This question was not discussed during any deliberation of the Review or Steering Group. Moreover, this request was not discussed by the Air Force Base Closure Executive Group nor presented to the Secretary of the Air Force for consideration. This type of request seems most appropriate for consideration during the screening period associated with base closures after those closures are approved. During the screening period, conducted immediately following closure approval, DoD organizations have priority to request real property.

Page 5, Question 4: Secretary Widnall, an alternative was received by the Laboratory Joint Cross-Service Group to consolidate the lab at Brooks Air Force Base to a Naval Installation in Orlando, Florida. Instead, the Air Force chose to relocate the lab to Wright-Patterson Air Force Base.

What was the Air Force's rationale for this action?

Answer: The rationale for the Air Force decision regarding the Brooks AFB receiver was (1) cost, (2) use of available capacity, and (3) consolidation of related activities. Specifically, because the LJCSG proposed relocation of part of Brooks AFB activities was to leased space, the LJCSG alternative would not use available DoD capacity and would be more costly than using existing Air Force capacity at Wright-Patterson AFB. Additionally, since the primary customer for the products and services of the Human Systems Center and Armstrong Lab are the activities at Wright-Patterson AFB (e.g., ASC and WL), the collocation made sense from a synergistic perspective.

Page 5 Question 4a: Why did the Air Force reject the alternative submitted by the Joint Cross-Service Group?

Answer: The Air Force did not reject the alternative submitted by the Lab Joint Group. Instead, the alternative was considered as one option, along with options involving Air Force sites as the consolidation receivers. For reasons of costs and compatibility, the Air Force option was selected. The Air Force's analysis of this alternative was consistent with the principle that Joint Group alternatives are provided for Service consideration, in parallel with broader Service considerations.

Brooks AFB

316

1 Those are the types of considerations,
2 Ms. Commissioner, that we looked at in every case in trying
3 to maneuver this force structure around but to keep it where
4 it made sense, to keep the right engines together so you
5 don't have multiple engines in an engine shop, that you keep
6 the right avionics together, so that is grouped together.

7 And you keep the missions at a base where they can
8 do their particular training with the ranges and the air
9 space that has to be adjacent to it.

10 COMMISSIONER STEELE: Thank you. At this late hour
11 it was a good job. You anticipated my two follow-on
12 questions and saved some time for the whole panel. So thank
13 you very much.

14 Regarding Brooks, your recommendation to close
15 Brooks Air Force Base involved closing all activities and
16 facilities, including family housing. We understand that
17 there is a large waiting list for family housing at nearby
18 Lackland Air Force base. Why did you recommend not to

1 include the retention of family housing at Brooks to help
2 satisfy this need?

3 SECRETARY WIDNALL: Mr. Boatright, do you want to
4 respond to that?

5 MR. BOATRIGHT: It was my understanding that we had
6 -- Jim Boatright. Excuse me. It was my understanding that
7 our recommendation would have left the family housing for
8 use.

9 COMMISSIONER STEELE: In that case, I'm sorry if
10 I'm mistaken.

11 GENERAL BLUME: No.

12 MR. BOATRIGHT: Okay. I'll have to defer to
13 General Blume, then, because I thought that we were leaving
14 it.

15 GENERAL BLUME: No. As a matter of fact -- this is
16 Major General Jay Blume. Let us check it again as Jim and I
17 were -- as we looked at this, but I feel confident there was
18 a total closure of Brooks Air Force Base that was

1 recommended. We would look at this to be sure that that's
2 the case, though.

3 COMMISSIONER ROBLES: It is the case. It says,
4 "All activities and facilities at the base, including family
5 housing and the medical facility will close."

6 GENERAL BLUME: Yes. I felt confident that that
7 was our -- this is Major General Blume again. That was our
8 recommendation. And your question is why did we do that?

9 COMMISSIONER STEELE: Correct.

10 GENERAL BLUME: It's been policy that as far as the
11 Air Force -- once we close a base, we close all of the base,
12 and this was no exception.

13 COMMISSIONER STEELE: If it could help the Air
14 Force in another base to allow housing of that base to be
15 utilized, would it be appropriate in this particular case to
16 maybe revisit that, or is there something, an overall policy
17 that would be breached by doing so?

1 MR. BOATRIGHT: I don't think there is any
2 overriding
3 policy --

4 CHAIRMAN DIXON: This is Mr. Jim Boatright.

5 MR. BOATRIGHT: Jim Boatright again. We could
6 retain housing for that purpose. I think a lot of it has to
7 do is where is the housing located within the facility? And
8 if my recollection is correct, at Brooks it would be very
9 difficult to carve that housing out and continue to operate
10 it as military housing and keep a disposal there of property
11 that would be viable for reuse by a local community reuse
12 authority.

13 So I think those are the kind of things that we
14 would need to look at, but -- I guess that's the extent of my
15 answer.

16 COMMISSIONER STEELE: Okay. And unfortunately, my
17 time has expired. I saved my good ones for last, which was a
18 big mistake. I'll never do that again.

DEPARTMENT OF THE AIR FORCE
HEADQUARTERS UNITED STATES AIR FORCE

03 MAY 1995



MEMORANDUM FOR BASE CLOSURE COMMISSION (Mr. Francis A. Cirillo, Jr.)

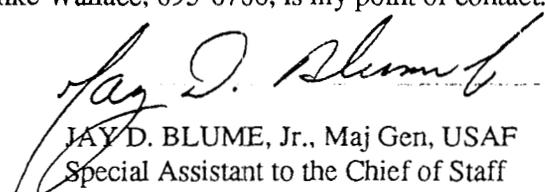
FROM: HQ USAF/RT

SUBJECT: Brooks AFB Cantonment COBRA Taskers Update (RT Taskers 378 & 481)

96

We are in the process of responding to your FAXs of April 20, 1994 (Tasker 950420-2) and May 3, 1995 (Tasker 950504-3). We have found serious miscalculations in the initial data package submittal to us. Upon receipt of the designated command's final submission, it will need to be fully coordinated within the Air Force so we will be unable to meet your suspense of 8 May, 1995 for this COBRA. Additionally, we have been tasked to provide a COBRA for a community version of a Brooks AFB cantonment with a suspense of May 15, 1995. Please note we believe there is a conflict between the first two assumptions with Brooks AFB being cantoned within 15% of the base and having HSC, Armstrong Lab, USAF School of Aerospace Medicine, AFCEE, and HSC/YA retained in their current configurations. We assure you any such conflicts will be resolved prudently. Both the Air Force and Community COBRAs on a Brooks AFB cantonment will be provided NLT May 15, 1995.

I trust this responds to your request. Maj Mike Wallace, 695-6766, is my point of contact.


JAY D. BLUME, Jr., Maj Gen, USAF
Special Assistant to the Chief of Staff
for Realignment and Transition



THE DEFENSE BASE CLOSURE AND REALIGNMENT COMMISSION
1700 NORTH MOORE STREET SUITE 1425
ARLINGTON, VA 22209
703-696-0504

ALAN J. DIXON, CHAIRMAN

COMMISSIONERS:
AL CORNELLA
REBECCA COX
GEN J. B. DAVIS, USAF (RET)
S. LEE KLING
RADM BENJAMIN F. MONTOKA, USN (RET)
MG JOSUE ROBLES, JR., USA (RET)
WENDI LOUISE STEELE

May 3, 1995

Major General Jay D. Blume, Jr. (Lt. Col. Mary Tripp)
Special Assistant to the Chief of Staff
for Base Realignment and Transition
Headquarters USAF
1670 Air Force Pentagon
Washington, D.C. 20330-1670

Please refer to this number
when responding 950504-3

Dear General Blume:

We appreciate your response to our 10 April request to review a community COBRA run on Brooks AFB. After reviewing your response and receiving a detailed concept of operations (Atch) provided by the Brooks AFB community, we have decided to ask you to conduct an alternative COBRA run on Brooks AFB with the following assumptions.

- a. Closure of Brooks AFB with approximately 15% of the base placed in cantonment.
- b. HSC, Armstrong Lab, USAF School of Aerospace Medicine, AFCEE, and HSC/YA retained in their present configurations.
- c. Family housing retained at Brooks AFB with support from Kelly AFB.
- d. All BOS provided by Kelly AFB.

In order to assist the Commission in its work, we request this information to be provided no later than May 15, 1995. Thank you for your assistance in this matter.

Sincerely,

Francis A. Cirillo, Jr., PE
Air Force Team Leader

Attachment
Brooks AFB Community Concept of Operations



THE DEFENSE BASE CLOSURE AND REALIGNMENT COMMISSION

1700 NORTH MOORE STREET SUITE 1425

ARLINGTON, VA 22209

703-696-0504

ALAN J. DIXON, CHAIRMAN

20 April 1995

Mr. Paul Roberson
Senior Vice President, Military Affairs
The Greater San Antonio Chamber of Commerce
602 E. Commerce
P. O. Box 1628
San Antonio, Texas 78296-1628

COMMISSIONERS:
AL CORNELLA
REBECCA COX
GEN J. B. DAVIS, USAF (RET)
S. LEE KLING
RADM BENJAMIN F. MONTOYA, USN (RET)
MG JOSUE ROBLES, JR., USA (RET)
WENDI LOUISE STEELE

Dear Mr. Roberson:

We recently received from Air Force a response to the COBRA analysis provided to us by the Brooks AFB community. The Air Force stated they have serious concerns with several of the assumptions. In addition, the Air Force stated they could not provide any analysis of the concept of operations supporting the community's proposal since such a concept had not been provided.

To be able to fully evaluate the merits of your proposal as well as Air Force views, we would like you to provide to the Commission as soon as possible the concept of operations that supports your cantonment proposal for Brooks Air Force Base. Please be as specific as possible on the assumptions you used in developing the proposal and associated COBRAs.

We are enclosing for your information our request to the Air Force and a copy of their reply. Thank you for your assistance in this matter. If you have any questions, please contact Les Farrington of our staff.

Sincerely,

FOR

Francis A. Cirillo Jr., PE
Air Force Team Leader

Enclosures: As stated

96
Please refer to the number
950420-2



THE DEFENSE BASE CLOSURE AND REALIGNMENT COMMISSION
 1700 NORTH MOORE STREET SUITE 1425
 ARLINGTON, VA 22209
 703-696-0504

ALAN J. DIXON, CHAIRMAN

April 10, 1995

COMMISSIONERS:
 AL CORNELLA
 REBECCA COX
 GEN J. B. DAVIS, USAF (RET)
 S. LEE KLING
 RADM BENJAMIN F. MONTOYA, USN (RET)
 MG JOSUE ROBLES, JR., USA (RET)
 WENDI LOUISE STEELE

Major General Jay D. Blume, Jr. (Lt. Col. Mary Tripp)
 Special Assistant to the Chief of Staff
 for Base Realignment and Transition
 Headquarters USAF
 1670 Air Force Pentagon
 Washington, D.C. 20330-1670

71
 Please refer to this number
 when recording 950410-24

Dear General Blume:

Due to continued community interest and recent national news coverage we request you perform an additional COBRA run on Brooks AFB with the following assumptions.

- a. Cantonment of Brooks AFB with base support provided by Lackland AFB.
- b. Retain HSC, Armstrong Lab, School of Aerospace Medicine, AFCEE, and YA in contonment at Brooks. 68th Intel Sqdn and 710th Intel Flight (AFRES) relocate to Lackland.
- c. Review and carefully estimate the number of positions that could be eliminated with a closure of Brooks but cantonment of major missions. In other words, identify the number of BOS-payroll positions that would be eliminated if we realign Brooks and canton the missions with the base support provided by ~~Lackland AFB~~ Lackland AFB.

In order to assist the Commission in its work, we request this information to be provided no later than May 1, 1995. Thank you for your assistance in this matter.

8

Sincerely,

Francis A. Cirillo, Jr., PE
 Air Force Team Leader

Per Discussion

F Cirillo / J Owsley / Mike Wallace AF/R

4/13













**Dayton/Miami Valley
Position Paper on Brooks AFB Closure
WPAFB Consolidation**

Introduction

The current round of base closings is being done in an environment of defense downsizing and increasingly complex technology. The environment dictates that the DoD consolidate its activities to decrease infrastructure while maintaining the maximum capability to accomplish its mission. The need to cut infrastructure and maintain capability result in a strong argument to consolidate all of the development and acquisition of manned, air-breathing systems at one location. This consolidation would result in the integration of the research and development, acquisition and support of activities of future aircraft weapon systems.

The DoD has proposed the closure of Brooks AFB and relocation of related activities to WPAFB. This action is driven by the fundamental need to decrease Air Force infrastructure. The relocation helps to implement the management philosophy of Integrated Product Development (IPD) which will optimize the Air Force ability to meet future technology demands. The missions that are performed at Brooks AFB are important, and the movement to WPAFB will enhance the Air Force's ability to accomplish those missions.

Military Value

Given the complexities of the man-machine interface in aircraft weapon systems, it is imperative to understand and design for human factors at the beginning and throughout the product development life cycle. The total systems (operator and machine) performance is optimized when the R&D of both machine and human factors are pursued concurrently, not in isolation.

The Air Force is pursuing an organizational philosophy called Integrated Product Development (IPD). IPD means that design and acquisition process include all of the elements needed to design, acquire, manufacture, and support a new weapon system. IPD includes a management structure of Integrated Product Teams (IPT). Each IPT would include all of the personnel needed to develop or acquire a specific product.

IPD is intended to insure that all of the considerations for the use and support of weapon systems are included in the design process. Therefore, the human factors issues, manufacturing issues, and support issues are considered up front in the design process. The man-machine interface is critical to the operation of any sophisticated weapon system and should be an important part of the design and acquisition process. There is a significant human factors work already at WPAFB in the Wright Laboratory and the Armstrong Laboratory (north). The consolidation of bases to accommodate downsizing helps to implement the IPD management philosophy.

The Air Force recommendation to close Brooks AFB and consolidate major functions at WPAFB will create a critical mass of AF scientists/engineers, acquisition and educational professionals at one location. This will enable the Air Force to strengthen its Integrated Product Development (IPD)

focus. Re-uniting Armstrong Lab (south) and Humans Systems Center activities with the resources of Wright Lab, Aeronautical Systems Center and the Air Force Institute of Technology will:

- improve the man/machine total design capability
- allow cross training/career enhancement of AL/HSC scientists and engineers
- prepare the Air Force to meet future demands for cross servicing

Three primary functions currently at Brooks Air Force Base will be enhanced if consolidated at WPAFB:

School of Aerospace Medicine - Collocating this function with the Air Force Institute of Technology, the WSU Aerospace Medicine and the WPAFB Regional Medical Center will insure continued accreditation, expand residency/educational opportunities and eliminate the current need/cost for trainee travel at Brooks (attachment 1).

Armstrong Lab - Collocating AL with the majority of the Air Force research, development acquisition and graduate education programs will enhance career opportunities, assist in the further implementation of Integrated Product Development and concentrate 60% of DoD's human factors and aeronautical expertise/programs at one site.

Human Systems Center - Reuniting HSC with the AF's largest product center (Aeronautical System Center) will leverage existing acquisition, program management and engineering resources.

Facilities

Consolidation of Brooks AFB to WPAFB allows for utilization of excess facility space through restoration of existing facilities and a minimum of new specialty construction. Given the amount allocated for military construction and renovation by the Air Force for this action, Brooks will be housed in excellent facilities upon their relocation to WPAFB.

Attached are photographs of the renovation of Building 32 at WPAFB that illustrate the transformation of excess facilities into quality lab and office space. This type of renovation along with new construction at WPAFB will insure that Human Systems Center functions are continued in a quality environment (attachment 2).

Cost Implications

The community concurs with the Air Force COBRA runs for the Brooks AFB closure submitted to the BRAC Commission on May 19, 1995 and their analysis of the San Antonio Cantonment option submitted on May 26, 1995. This analysis reflects a reasonable and consistent methodology with the following exceptions:

- of the total number of positions realigned in the closure option, the total number of people likely to move should be adjusted to 30% of Brooks AFB population = **863**
- associated total moving expenses should be adjusted to reflect this change = **\$19.5M** as the realignment of a majority of Brooks personnel will be accomplished through a functional transfer, the severance costs should remain roughly constant
- the unspecified one-time unique charge should be reduced in the COBRA model by 75% for Brooks closure = **\$10M**

The total net impact of the above adjustments will reduce the one-time cost of the Brooks closure from \$211.5M to **\$159.6M**.

Discussion Points on Closing Brooks AFB

- The installation of Brooks has no intrinsic military value. Its physical facilities can be replaced or are already duplicated somewhere else. The mission performed by Armstrong Lab is important and would be significantly enhanced by collocating with the product center and laboratory at WPAFB. Brooks was ranked lowest in military value by the Air Force. The Air Force judges the overall value of research activities by assessing the quality of the research work and by the military value. Even if the quality of the research is high, the military value can be low.
- The mission of Brooks can be moved to Wright-Patterson with no loss of mission capability. While the people at Brooks do represent an important resource, many will move to Dayton. Those that do not can be replaced by taking advantage of the rich biomedical resources in the Dayton area and existing expertise at WPAFB. Many of the missions currently at Brooks were transferred from Wright-Patterson originally during an era of DoD decentralization.
- Closing Brooks will have the added benefit of consolidating research, development and acquisition functions for aerospace in one place. This will have an enormous value in the design, development and acquisition of future aircraft weapons systems. This recommendation is consistent with the findings of the recently released White Commission Roles and Missions Report.
- Brooks has no major tenants other than HSC, which can be moved to Wright-Patterson. It is a clean closure with no loss of military warfighting capability.
- There are no environmental problems at Brooks. This makes for an easy closure and a clean conversion to civilian uses.
- Brooks represents excess capacity and unnecessary overhead that DoD cannot afford in an era of downsizing military. Closing Brooks will save money for the Defense Department by reducing overhead and annual operating expenses.
- If the primary purpose of the BRAC Commission is to identify bases with the least military value that can be closed with the least negative effect on our national defense, Brooks is one base to close. The closure of Brooks fits all the major BRAC criteria established for closing.



**Wright State
University**



School of Medicine
Department of Community Health
P.O. Box 927
Dayton, Ohio 45401-0927
513/276-8338

Aerospace Medicine

June 13, 1995

Commissioners
Defense Base Closure and
Realignment Commission

Dear Sirs:

The following is forwarded for your information.

It is our understanding that two questions have been raised by persons in San Antonio with respect to the consolidation at Wright-Patterson Air Force Base (WPAFB) of certain medical activities at Brooks Air Force Base. The two areas in question are addressed as follows:

1) Question: Would the Aerospace Medicine Residency Program accredited now for 12 months training (the "practicum" year) at Brooks Air Force Base be lost if the program is established at Wright-Patterson Air Force Base?

Answer: No. The aeromedical resources available now at Wright-Patterson Air Force Base together with those transferred, plus physicians at Wright-Patterson Air Force Base certified in aerospace medicine, with clinicians and scientists now at Wright-Patterson, along with physicians certified in aerospace medicine and other professionals at the adjacent Wright State University School of Medicine, can readily accommodate the requirements of the Accreditation Council on Graduate Medical Education (ACGME) for residency training accreditation.

2) Question: Could considerable dollar savings be made if military physicians accomplish their academic year (the M.S. degree in Aerospace Medicine) at Wright State University?

Answer: Yes. At present Brooks Air Force Base is sending its trainees for this academic year to various universities throughout the U.S. at considerable cost in travel, tuition, living expenses and related costs. If these physicians accomplish their academic year (the M.S. degree in Aerospace Medicine) at Wright State University adjacent to WPAFB, plus their required practicum year at WPAFB, their assignment will enable them to accomplish the accredited residency and academic training in aerospace medicine at one site.

NOTE: The Air Force at Brooks conducts a third year of aerospace

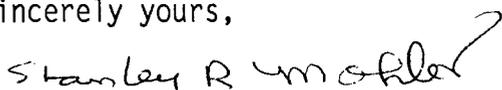
June 13, 1995
Commissioners
Page 2

medicine and clinical rotations, a year not approved by either the ACGME or the American Board of Preventive Medicine (ABPM). This third year can be accomplished at WPAFB. This third year can be arranged through the Wright State University Medical School resources.

I write this as a former member of the Residency Review Committee for Preventive Medicine (under which aerospace medicine is accredited) of the Accreditation Council on Graduate Medical Education in Chicago. I also write this as a former member and Trustee of the American Board of Preventive Medicine from 1976-1992, serving during this period as Vice Chair for Aerospace Medicine (1978-80) and Secretary-Treasurer of the American Board of Preventive Medicine from 1980-1992. I also have directed and operated the aerospace medicine residency program at Wright State University (accredited since 1978 for the two years, the "academic" and "practicum" years). Air Force graduates of our program include the current Chief Flight Surgeon and Aerospace Medicine Commander of the Group that includes the B-2 bombers, Whiteman AFB. Several Navy and Army physicians have also trained with us.

The above information is forwarded in the interest of accuracy with respect to those matters upon which the Commission is deliberating.

Sincerely yours,



Stanley R. Mohler, M.D.
Professor and Vice Chair
Director, Aerospace Medicine

SRM/jeg

STANLEY ROSS MOHLER, M.D., M.A.

April 1995

POSITION: Professor and Vice Chair (July 1, 1978)
Department of Community Health
Director, Aerospace Medicine
Wright State University School of Medicine
P.O. Box 927
Dayton, OH 45401-0927
Telephone: 513/276-8338

Department Location:
Good Samaritan Hospital
Rosary Hall/5th Floor
2222 Philadelphia Drive
Dayton, OH 45406

HOME: 6539 Reigate Road
Centerville, OH 45459
Telephone: 513/435-8771

SPECIALTY: Diplomate of the American Board of Preventive Medicine
(with certification in Aerospace Medicine): 1968

Fellow, American College of Preventive Medicine

First-Class Aviation Medical Examiner, Federal
Aviation Administration

Airline Transport and Instructor Pilot

President, Aerospace Medical Association, 1983 - 1984

DEGREES: Dall High School, Galveston, TX, 1945
B.A. University of Texas, 1953
M.A. University of Texas Medical Branch,
Galveston, TX, 1953
M.D. University of Texas Medical Branch,
Galveston, TX, 1956

Curriculum Vitae - Stanley Ross Mohler, M.D.

PROFESSIONAL POSITIONS

Chief, Aeromedical Applications Division, Office of Aviation Medicine, Federal Aviation Administration, Department of Transportation, Washington, DC, November 21, 1965 - 1978.

Director, Civil Aeromedical Research Institute, Office of Aviation Medicine, Aeronautical Center, Federal Aviation Agency, P.O. Box 25082, Oklahoma City, OK, August 8, 1961 - November 21, 1965.

Associate Professor of Research Preventive Medicine and Public Health, University of Oklahoma School of Medicine, 1961 - 1968.

Medical Officer, Center for Aging Research, National Institutes of Health, U.S. Public Health Service, Bethesda, MD, July 1957 - August 1961.

Internship, U.S. Public Health Service Hospital, San Francisco, CA, (with Obstetrics at St. Joseph's Hospital and Pediatrics at Children's Hospital), July 1956 - June 1957.

Teaching and Research Fellow, Physiology, University of Texas Medical Branch, Galveston, TX, 1952 - 1953.

COLLATERAL PROFESSIONAL EXPERIENCE

Graduate Faculty: Wright State University

Adjunct Faculty, Institute of Aerospace Safety and Management, University of Southern California, Taught Graduate Course, "Physiology of Aerospace Operations", Pentagon, May 11 - July 5, 1970, Washington, DC. Continued lectures for Safety Center, "Human Factors in Accident Causation", Course SSM-532, Forrestal Building, November 16, 1976 - January 10, 1977. Same course taught again, 1978.

Coordinator and Lecturer, Human Factors, National Aircraft Accident Investigators School, Civil Aeronautics Board - FAA Joint Activity, Aeronautical Center, Oklahoma City, OK, 1964 - 1965.

Lecturer, National Aviation System Course, FAA, Aeronautical Center, Oklahoma City, OK, 1963 - 1965.

Acting Chief, Research Requirements Division, Aviation Medicine Service, FAA, December 8, 1961 - July 8, 1962, and Chief, Aeromedical Research Division, Aviation Medical Service, FAA, July 8, 1961 - January 2, 1964 (in addition to duties as Director, CARI).

Technical Director, Research in Gerontology: Biological and Medical, White House Conference on Aging, January 1961.

Research Assistant, Blood Coagulation and High Altitude Physiology, Department of Physiology, University of Texas Medical Branch, 1952 - 1954.

Curriculum Vitae - Stanley Ross Mohler, M.D.

COLLATERAL PROFESSIONAL EXPERIENCE (Continued)

Member, Air Force Studies Board, Assembly of Engineering, National Research Council, National Academy of Sciences, 1982 - 1987.
Consultant, 1988 - 92.

Chairman, Aerospace Medicine Committee and Advisory Group, National Aeronautics and Space Administration, 1982 - 1983.

Section Chairman, Crew Selection and Enhancement, Biotechnology Needs for the Year 2000, U.S. Air Force and Southwest Research Institute, San Antonio, TX 1981 - 1982.

Consultant, Systems Research Laboratories, Dayton, OH.

Member, Summer Study, Human Factors of computer Software, Air Force Studies Board, Woods Hole, MA, July 1983. Report titled: "Methods for Improving Software Quality and Life Cycle Cost".

Member, Medical Advisory Panel, Aircraft Owners and Pilots Association, Frederick, MD, 1983 - .

Member, Risk Factor Panel for Review of Civil Aviation Medical Standards, American Medical Association - Federal Aviation Administration, 1983 - 1986.

Member, Aerospace Medicine Advisory Committee, National Aeronautics and Space Administration, 1988 - .

Member, Operational Medicine Discipline Working Group, National Aeronautics and Space Administration, 1988 - .

PROFESSIONAL ORGANIZATIONS

The Aerospace Medical Association (Fellow)

President 1983 - 1984

First Vice President, 1981, President Elect, 1982

Fellow 1968

Vice President 1962 - 1963

Member, Executive Council, 1975 - 1978, 1981 - 1989

Member, Aerospace Medical Heritage Committee, 1962

Chairman, Scientific Program Committee, 1973

Member, Scientific Program Committee, 1964 - 1970, 1972 - 1977

Member, Technical Exhibits Committee, 1963 - 1968

Member, Long Range Planning committee, 1965 - 1966, 1972 - 1977, 1981 -

Member, Safety and Health Committee, 1965 - 1968, 1984 - 1986

Member, Space Medicine Branch, 1968 -

Chairman, Technical Exhibits Committee, 1966 - 1968

Chairman, International Quarantine, Airport Medical Service and Flight Sanitation Committee, 1968 - 1973

Member, International Activities Committee, 1970 - 1971

Curriculum Vitae - Stanley R. Mohler, M.D.

PROFESSIONAL ORGANIZATIONS (Continued)

The Aerospace Medical Association (Continued)

Member, Advisory Editorial Board, Aviation, Space and Environmental Medicine, 1970 - 1990
Member, Site Selection Committee, 1975 - 1978
Member, Editorial Board, 50th Anniversary Commemorative Volume, 1976- 1979
Chairman, History and Archives Committee, 1979 - 1982, Member, 1984 -
Member, Awards Committee, 1979 - 1980, 1984 - 1985
Member, Education Committee, 1978 - 1984
Member, Membership Committee, 1986 -
Chairman, Nominations Committee, 1989
Chairman, Resolutions Committee, 1992 - 1994

The American Board of Preventive Medicine

Member, Subcommittee for Examination in Aerospace Medicine, 1975 - 1977
Member, American Board of Preventive Medicine, 1976 - 1992
Vice Chair, Aerospace Medicine, 1978 - 1980
Secretary/Treasurer, 1980 - 1992

Residency Review Committee, Preventive Medicine, ACGME, 1978 - 1980,
Ex Officio, 1980 - 1992

The Society of Air Safety Investigators (Director, 1969 - 1978,
1966 - 1992)

Chairman, Nominations Committee, 1974

Civil Aviation Medical Association, 1992 - 1993

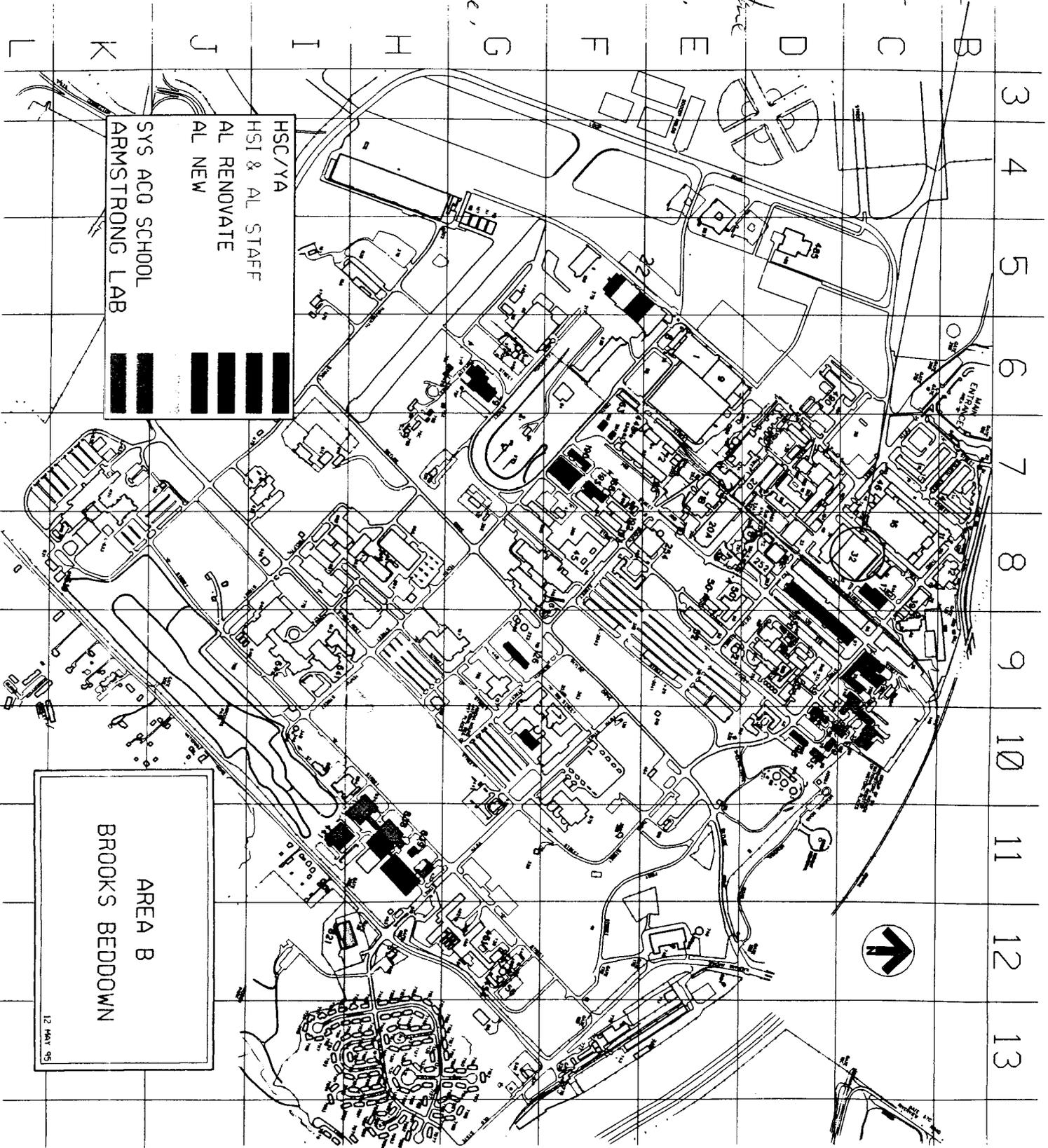
The Flying Physicians Association, 1963 - 1971

Director, 1964 - 1967
Member, Science and Education Committee, 1964 - 1966
Chairman, Aerospace Specialty Section, 1964 - 1965
Chairman, Program Committee, 1967 - 1968
Vice President, 1968 - 1969

Gerontological Society (Fellow), 1958 - 1973

Member, Fellowship Status Committee, 1961
Member, Membership Committee, 1962
Member, Research Committee, 1962 - 1967
Chairman Elect, Clinical Section, 1963
Chairman, Clinical Section, 1964
Chairman, Research Committee, Clinical Section, 1965 - 1966
Clinical Section Delegate to the Research and Training Committee
of the Society, 1969 - 1971
Finance Committee, 1972 - 1973

Before & After
 pictures of the
 renovation
 of Bldg 32, a
 historic structure
 at W-P AFB,
 Jones by
 BRAC Staff
 included
 their structure,



HSC/YA
 HSI & AL STAFF
 AL RENOVATE
 AL NEW

SYS ACO SCHOOL
 ARMSTRONG LAB

AREA B
 BROOKS BEDDOWN

12 MAR 95



Building 32 Photos - Before and After Rehab

Before Rehab

- #1. Exterior - North Wall
- #4. Interior - Office Area

During Rehab

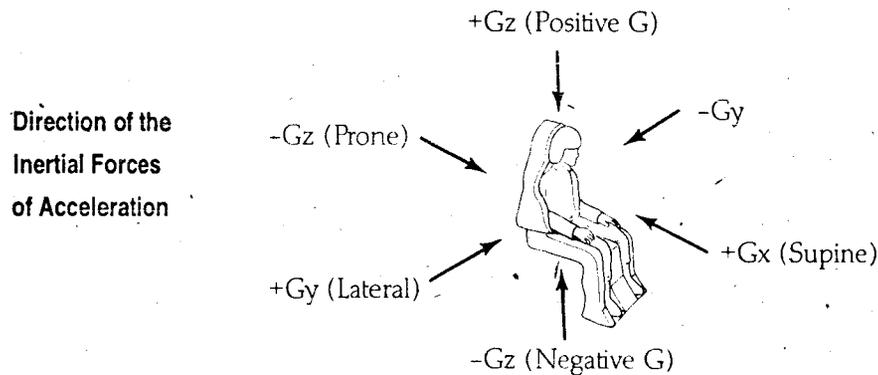
- #6. Interior - Bay 1 - Facing North

After Rehab

- #8. Interior - Main Hallway
- #9. Interior - Bay 1 - Facing North
- #10. Interior - Bay 4 Conference Area

Introduction

Pilots of high performance, maneuvering aircraft are subjected to increased accelerations or G forces. During a typical aircraft turn or pull out, the inertial G forces are directed in the +Gz axis and result in a blood volume shift toward the legs. The reduction of cerebral blood flow and lowered tissue oxygen levels can result in loss of vision (grayout or blackout), decreased performance, and even unconsciousness.



Sustained Acceleration Tolerance

- +Gz (Positive G):** The most common G stress experienced by pilots. The cardiovascular system (via blood displacement along the axis of the body) is very sensitive to increased Gz forces. The average relaxed blackout level is between 3.5 to 4.0 Gz. Pilots using an anti-G suit and straining maneuvers often sustain 7 to 9 Gz in high performance aircraft.
- Gz (Negative G):** Occurs during a push over or outside loop. Tolerance is lowest in this direction and most aircraft maneuvers are less than -3 Gz.
- +Gx (Supine):** Tolerance is highest in this orientation. Astronauts and centrifuge subjects have experienced greater than 12 to 16 Gx. Respiratory difficulties and chest pain are limiting factors in Gx tolerance. An aircraft carrier launch generates about +4.5 Gx.

- Gx (Prone):** Encountered during a flat spin or abrupt deceleration. Physiologic tolerance is similar to +Gx if the restraint system is adequate.
- Gy (Lateral):** Least encountered in operational aircraft. Standard aircraft restraint systems limit tolerance to about 3 Gy. Special full body restraint could increase tolerance to levels greater than 10 Gy.

Dynamic Environment Simulator (DES)

A man-rated, three axis centrifuge used to simulate the acceleration stress encountered by pilots and astronauts, the DES has a radius of 19 feet to the center of the cab. It weighs 180 tons and is supported by a hydrostatic bearing system. The control system uses a digital computer and provides for automatic, manual, or closed loop (i.e., the pilots control the G level) modes of operation. The DES became operational in 1969.

- Main Arm:** Three 110 hp DC electric motors can drive the DES to a maximum speed of 56 rpm which creates a force of 20 G.
- Cab:** A 10 ft. diameter spherical gondola holds the subject and experimental equipment. A four motor hydraulic drive system can turn the cab at ± 30 rpm.
- Fork:** Outer gimbal for the cab. A direct coupled 90 hp DC electric motor provides ± 30 rpm rotational capability for the fork axis.

Utilization

Typical uses for the DES facility are to investigate the effects of sustained G forces on pilot performance, define physiologic changes, develop more effective anti-G equipment and tactics, and provide specialized training.

Mary Ann Gilleece

Jim, Les, and Joe -
Attached is the
information as
discussed this week.
I can be reached
at the office at
(202) 429-9600 and all
weekend at (703) 799-4677.
Please call me
anytime if I can be
of help.
Mary Ann

GADSBY & HANNAH
1747 PENNSYLVANIA AVENUE, N.W., SUITE 800
WASHINGTON, D.C. 20006
(202) 429-9600



*Aeronaautical Systems
Center*



BROOKS AFB BEDDOWN

BRAC VISIT

6 JUNE 1995



Aeronautical Systems Center



INDEX

AGENDA	<u>TAB</u>
	1
AERIAL MAP	2
MILCON PROJECTS	3
AREA B MAP	4
BUILDING PHOTOGRAPHS	5
DD FORM 1391'S (FY95 DOLLARS)	6

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

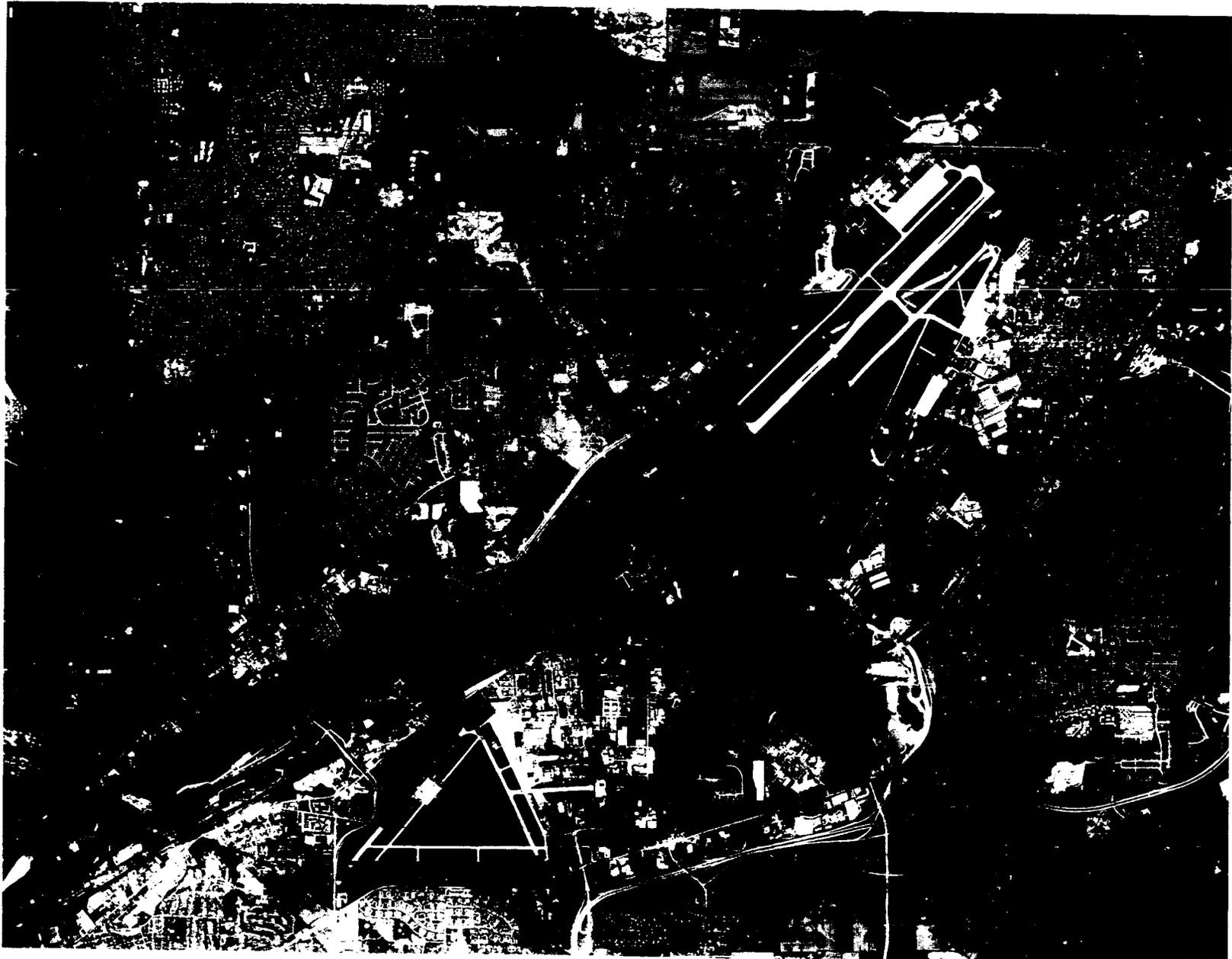
AGENDA

- 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

wpafb.tif



SCALE 1" = 2,000' APPROXIMATELY
DATE OF PHOTOGRAPHY 3-5-66

Prepared by WOODBURY CONSULTANTS
128 E. MONUMENT AVE. DAYTON, OHIO 45402
(513) 261-5966

AREAS A, B and C

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

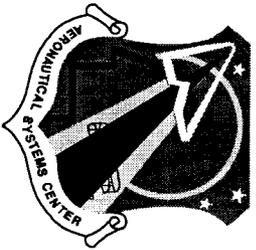


Aeronautical Systems Center



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



Aeronautical Systems Center



BROOKS AFB MILCON (Cont.)

	<u>Scope (SE)</u>	<u>Cost</u> <u>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



Aeronautical Systems Center



BROOKS AFB MILCON (Cont.)

Cost

Scope (SF)

Then YR \$M

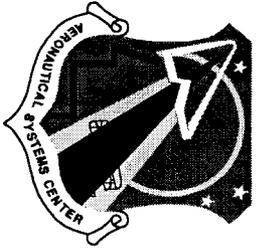
ADAL for USAF School of Aerospace Medicine

- 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

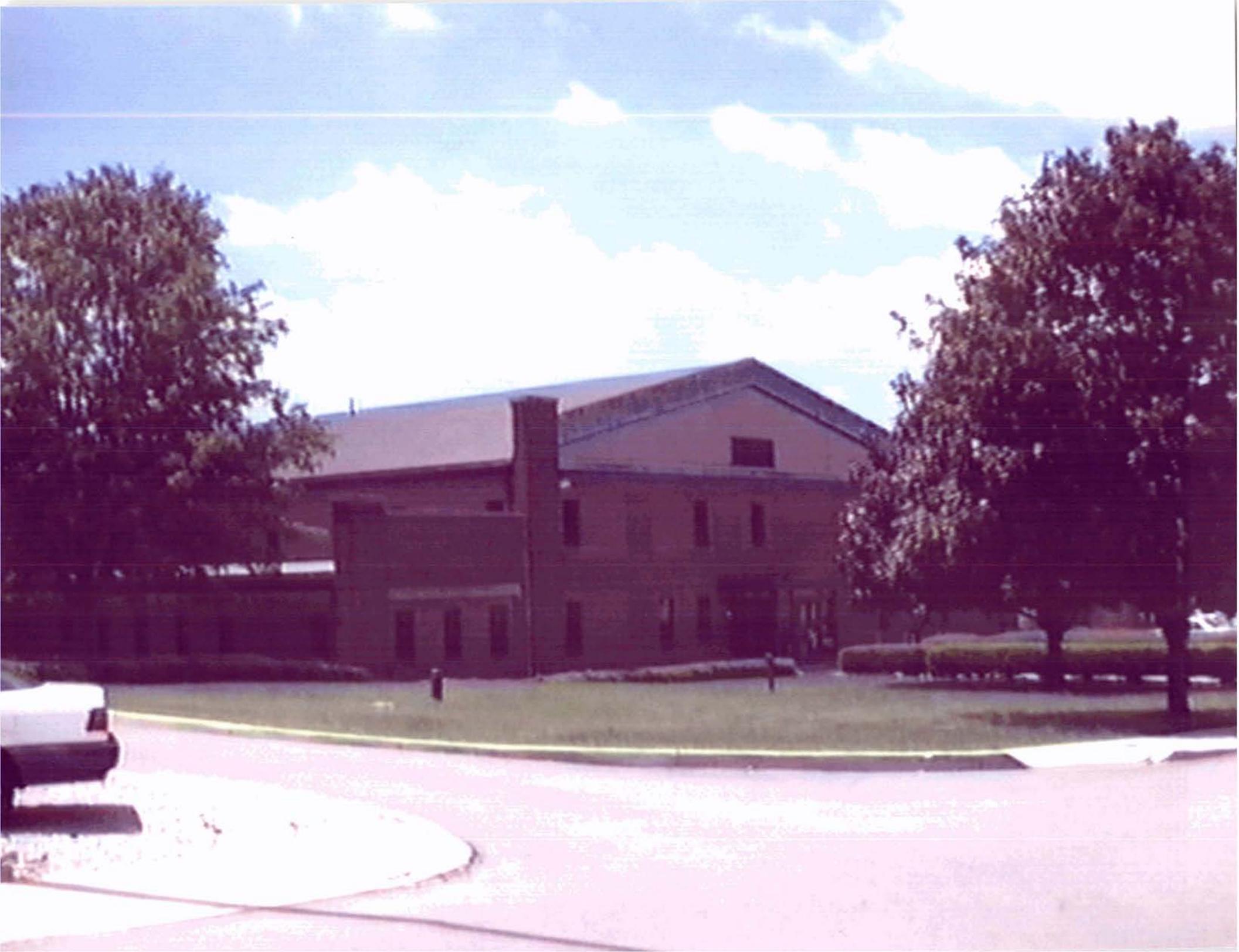


Aeronautical Systems Center



BROOKS AFB MILCON SUMMARY

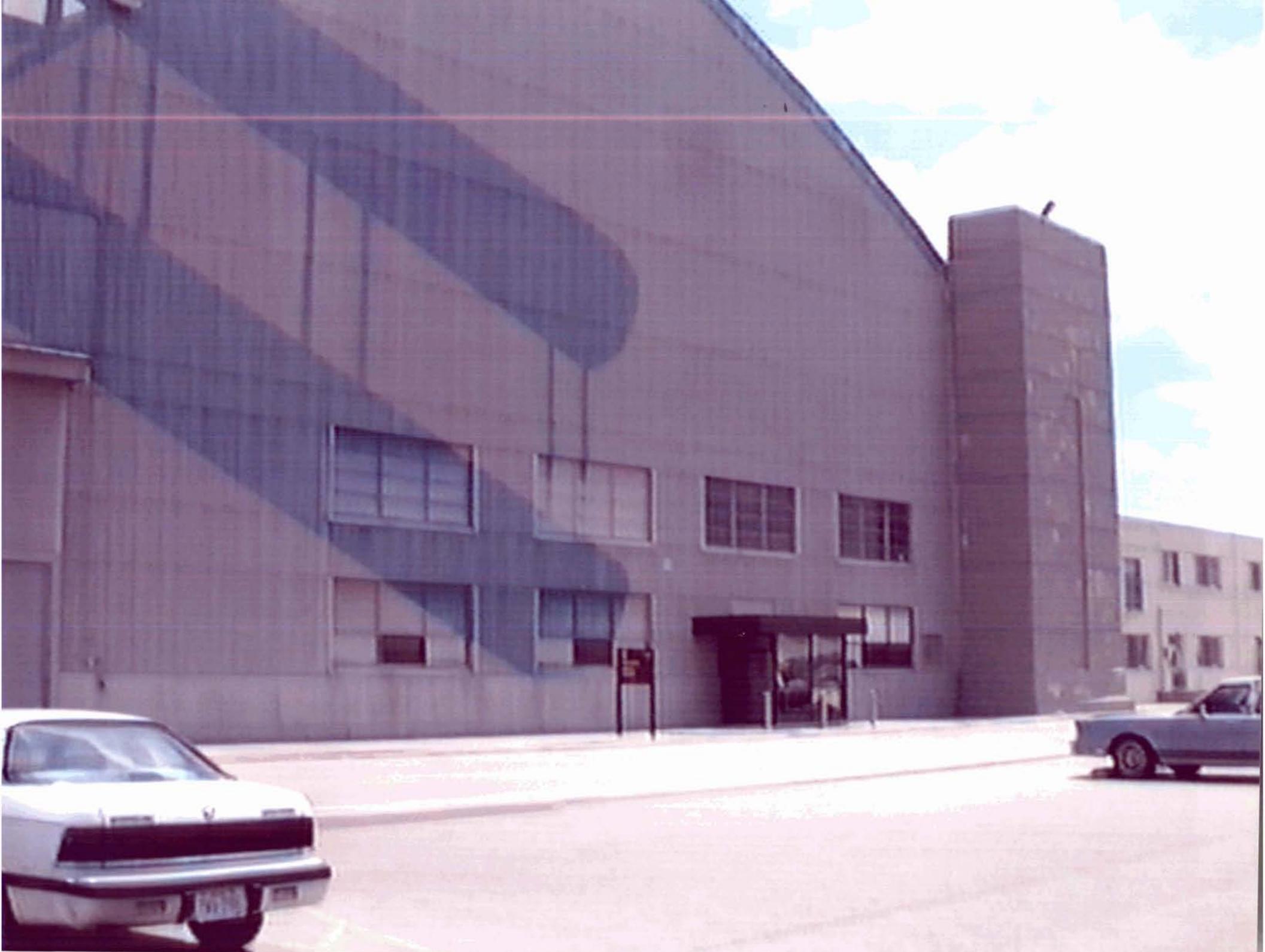
	<u>SCOPE (SF)</u>	<u>(THEN YR \$M)</u>	<u>COST</u>
RENOVATION	362,400	32.6	
NEW	<u>324,450</u>	<u>70.8</u>	
TOTAL	686,850	103.4	































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 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: <u>Replace interior finishes to include carpet, paint, and ceiling tile.</u>						
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	
3. INSTALLATION AND LOCATION			4. PROJECT TITLE		
AIR FORCE 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. Air Conditioning: 30 Tons.					
11. REQUIREMENT: 76,683 SF ADEQUATE: 65,983 SF SUBSTANDARD: 0 PROJECT: BC -- ADAL Existing Centrifuge Facility REQUIREMENT: 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. CURRENT SITUATION: 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. IMPACT IF NOT PROVIDED: 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. ADDITIONAL: 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. <u>Air Conditioning: 61 Tons.</u>					
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 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-(AL/OE) ADAL OCCUPATIONAL ENVIRONMENTAL HEALTH LAB		
5. PROGRAM ELEMENT 7.28.06	6. CATEGORY CODE 310-924	7. PROJECT NUMBER ZHTV953362	8. PROJECT COST(\$000) 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. <u>Air Conditioning: 100 Tons.</u>				
11. REQUIREMENT: 65,326 SF ADEQUATE: 0 SUBSTANDARD: 4,000 SF <u>PROJECT:</u> BC -- ADAL Occupational Environmental Health Laboratory <u>REQUIREMENT:</u> 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. <u>CURRENT SITUATION:</u> 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. <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 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-ADAL FAC'S FOR AEROSPACE MEDICAL AND CLINICAL LABS		
5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST(\$000)		
7.28.06	310-914	ZHTV953358	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%)					1,473
TOTAL CONTRACT COST					16,207
SUPERVISION, INSPECTION AND OVERHEAD (6%)					972
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	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 VIVARIUM			
5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST(\$000)	
7.28.06	310-921	ZHTV953360	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 <u>PROJECT:</u> 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. <u>Air Conditioning:</u> 439 Tons.					
11. REQUIREMENT: 113,455 SF ADEQUATE: 0 SUBSTANDARD: 24,355 SF <u>PROJECT:</u> BC -- USAFSAM Academic Complex <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) 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. <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 facilities at WPAFB available for this relocation. <u>IMPACT IF NOT PROVIDED:</u> These missions 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, 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 <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) 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. <u>CURRENT SITUATION</u> : 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. <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-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".					



The Global Leader

**Brooks AFB Closure:
Assessment Information**

Reference Document
June 1995

Comments on BRAC Assessments

- **Four factors drive analysis in each case**
 - Number of positions to be eliminated
 - Cost of positions
 - Build out cost (for comparable facilities)
 - Cost of operations (real property maintenance, base operations support)
- **Appears Air Force applied consistent methodology and factors to each analysis**
 - Original Air Force Position
 - Updated Air Force Position
 - Air Force Assessment of Cantonment Option
 - Consistent input sheets throughout
- **San Antonio community assessment uses different factors for cost of positions eliminated and build out costs**
- **Assessments do not consider savings from land/facility sales/reuse which could make closure more attractive**

Air Force Cobra Assessment on Closure is Generally Consistent

Key Factors	Original (3/95)	Updated (5/95)	Comment
One Time Cost	\$185 M	\$211 M	Driven by build out and one time unique cost
Number of Positions Eliminated	391	506	
Recurring Savings	\$27.4 M	\$32.2 M	Driven by positions eliminated
Net Operating Costs at Brooks AFB	\$11.0 M	\$11.5 M	
NPV	(\$142) M	(\$172) M	

Air Force and the San Antonio Community Used Different Factors in Analyses of Cantonment Option

Key Factors	Community Analysis	Air Force Analysis	Comment
Positions Eliminated with Cantonment	391	266	Most positions can be eliminated through consolidation at WPAFB. San Antonio estimate suspect.
Build Out Cost for Cantonment	\$11.0 M	\$21.4 M	Air Force estimate is for comparable facilities.
Annual Savings with Cantonment	\$21.6 M	\$10.5 M	San Antonio savings drawn by \$55 K work year. Air Force savings based on \$40 K work year.
NPV	(\$301) M	(\$119) M	Increased by above factors



Most credible factor

Closure Versus Cantonment Option

- **All estimates conclude annual savings are best by relocating activities to WPAFB. Driven by:**
 - More positions eliminated by consolidation.
 - Reduced costs of operations at WPAFB.
- **Build out costs for comparable facilities are highest at WPAFB**
 - Ensures consistent treatment in the assessment.
- **Analysis does not consider savings from land/facility sales/reuse**
 - Makes consolidation at WPAFB more attractive.



DEPARTMENT OF THE AIR FORCE
HEADQUARTERS UNITED STATES AIR FORCE



15 JUN 1995

MEMORANDUM FOR BASE CLOSURE COMMISSION (Mr. Francis A. Cirillo, Jr.)

FROM: HQ USAF/RT

SUBJECT: Brooks AFB Closure's Military Value to the Air Force

This responds to your verbal request for comments on the attached point paper; "Does it represent an Air Force position?" We performed no analysis by criteria on particular relocation scenarios; but, the overall thrust of the point paper is correct. Our analysis clearly resulted in a high (Tier I) rating for Wright-Patterson AFB and a relatively low (Tier III) rating for Brooks AFB based on all eight DoD criteria. Brooks was the lowest rated in its category for the product center/laboratory mission effectiveness sub-element under Criterion I.

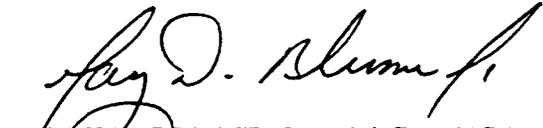
From every analysis, the closure of Brooks AFB is well-supported. Moreover, movement of its principal activities to Wright-Patterson AFB produces an abundance of advantages as detailed in the point paper. Collocation of the Human System Research, Development, and Acquisition (RD&A) with our air vehicle RD&A establishes Wright-Patterson AFB as the largest and most capable RD&A complex in the free world.

Some additional points should also be addressed. This collocation will provide our human system and air vehicle scientists, engineers, and other laboratory and acquisition personnel an opportunity for career growth in breadth by rotating among a greater variety of job opportunities offered by Wright-Patterson AFB. We can reap the full benefits of the synergy for the "man/machine interface" at one location. We cannot simply afford to retain our current infrastructure and expect the same quality of service from our RD&A folks as their personnel base diminishes in size.

Perhaps just as importantly, based on the questions posed by the Commissioners during the 14 June hearing, we need to stress that the cantonment option of Brooks AFB is unacceptable apart from any consideration of the move to Wright-Patterson. It seems to be viewed as a "cash cow" to supply funds for a depot closure. We object strenuously to this proposal because it is faulty from a practical standpoint. As you know, remote support of a major installation has been tried and doesn't work! The Air Force feels that the cantonment option would simply create a long-term, unacceptable situation. If the Commission retains Brooks AFB just to fund another action, then it must recognize that it is avoiding an extremely appropriate, operationally sound closure with significant reductions in infrastructure, reduction of excess product center/laboratory capacity by sharing facilities at Wright-Patterson, and significant annual savings.

If that is the judgment of the Commission, the Air Force should not have to endure an unsound cantonment plan that basically closes nothing. Indeed, I suspect this notion would soon collapse and base operating support would be added back to Brooks in future years. It would be better, in the view of the Air Force, to simply leave Brooks AFB open rather than to approve the cantonment option, and I request this view be communicated to the Commission.

I trust this information will be responsive to your request. Maj Michael Wallace, 695-6766, is my point of contact.



JAY D. BLUME, Jr., Maj Gen, USAF
Special Assistant to the Chief of Staff
for Realignment and Transition

Attachments:

1. Brooks AFB, TX Point Paper (HQ AFMC FAX date 5 Jun 95)
2. Air Force BCEG Minutes from 19 Oct 94, and 20 Oct 94 (W/O Atchs)

**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 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..

Chapter 3
The Selection Criteria

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 +
Kirland 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 BCBG 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

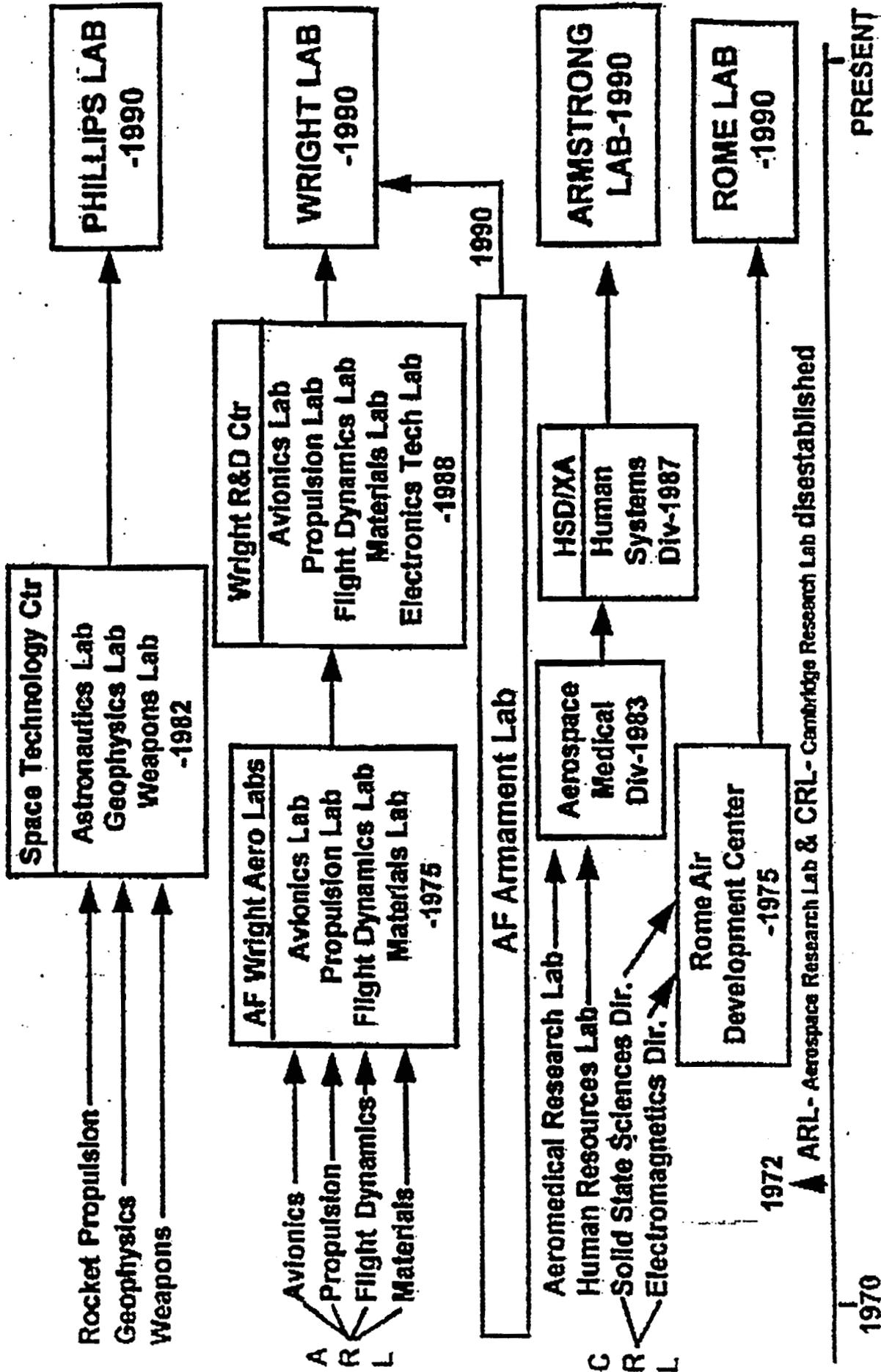
TIER II

Kirtland AFB
Los Angeles AFB

TIER III

Brooks AFB

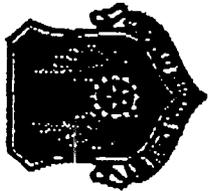
AF LAB CONSOLIDATIONS



ATCH 2

P. 008

8/31



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

ATCH 3



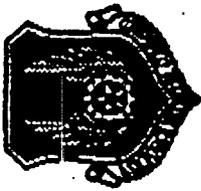
BRAC '95

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

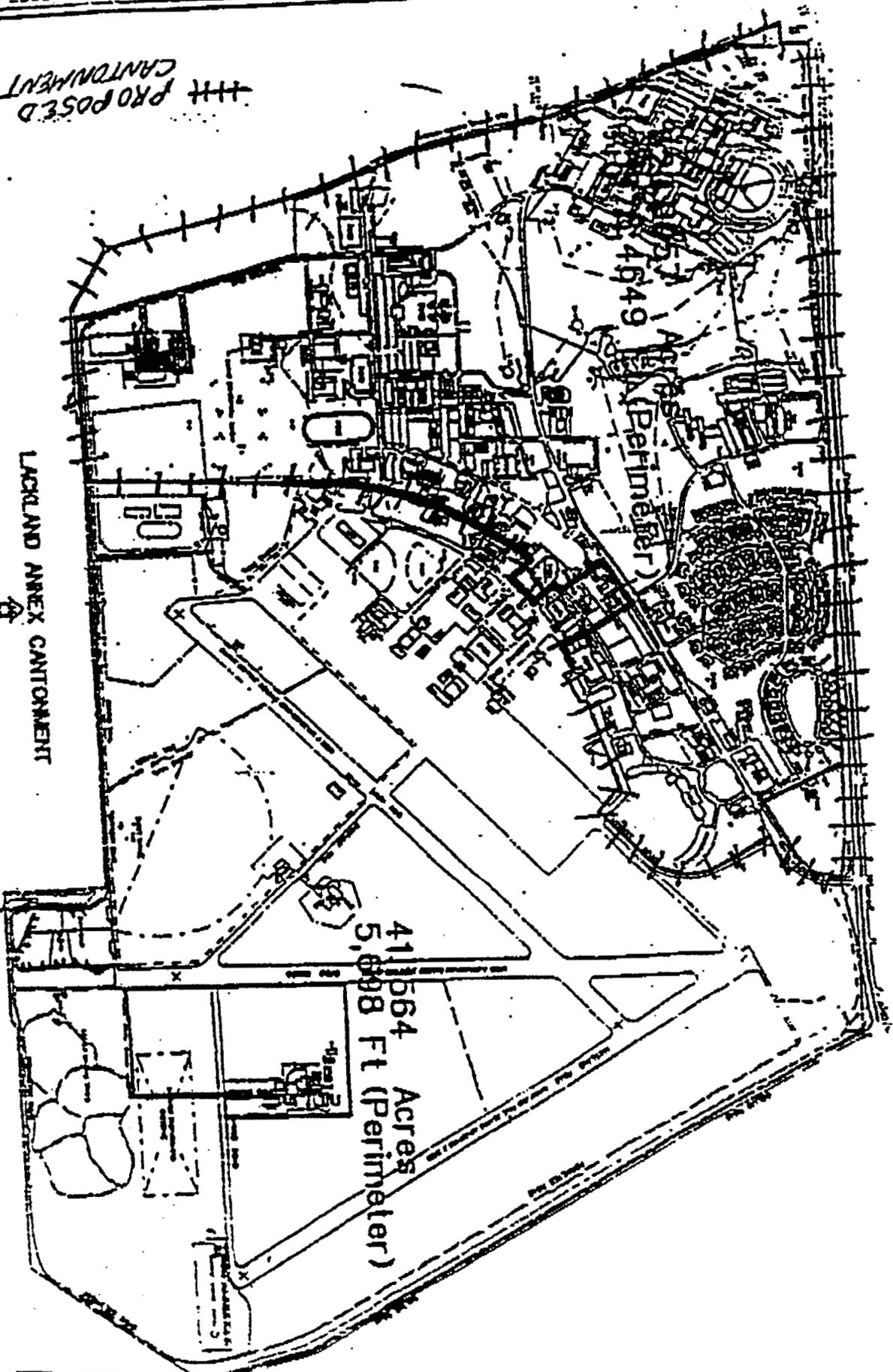
	<u>DOD Proposal</u>	<u>Alternative</u>
	Relocate	Cantonment
• Scenario	Close	Close
• Brooks AFB		
• People		
- Eliminate	391 506	391 266
- Relocate	3,228 2,876	518 689
• One-Time Cost	\$185M \$211.5M	\$11M \$21.4M
• Recurring Savings	27M 32M	--- 11M
• 20 Year Net Present Value	(\$142M) (\$172M)	(\$301M)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

PROPOSED CANTONMENT

LACKLAND ANNEX CANTONMENT

41,564 Acres
5,008 Ft (Perimeter)

4949 (Perimeter)



CLOSE HOLD - BCEG/BCEG STAFF ONLY

DEPARTMENT OF THE AIR FORCE
WASHINGTON DC



31 OCT 1994

OFFICE OF THE ASSISTANT SECRETARY

MEMORANDUM FOR RECORD

FROM: SAF/MII

SUBJECT: Minutes of Air Force Base Closure Executive Group (AF/BCEG) Meeting

The AF/BCEG meeting was convened by Mr Boatright, SAF/MII, at 1030 hours on 19 October 1994, in Room 5D1027, the Pentagon. The following personnel were in attendance:

a. AF/BCEG members:

Mr. Boatright, SAF/MII, Co-Chairman
Maj Gen Blume, AF/RT, Co-Chairman
Mr. Beach, SAF/FM
Mr. McCall, SAF/MIQ
Maj Gen McGinty, AF/DPP
Maj Gen Heflebower, AF/PE
Mr. Orr, AF/LGM
Dr. Wolff, AF/CE
Mr. Durante, SAF/AQX
Mr. Kuhn, SAF/GCN
Brig Gen McCarthy, AF/XOO
Brig Gen Weaver, NGB/CF
Brig Gen Bradley, AF/RE

b. Other key attendees:

Col Mayfield, AF/RTR
Mr. Myers, AF/CEP
Mr. Scovel, SAF/FMCCA
Mr. Schoenecker, AF/CEVP

The meeting was called to order by Mr. Boatright. He raised the issue of giving a Red grade to the Criterion II Encroachment subelement if a base didn't have a runway. Although it is important to give credit to the added value of a base with a runway, this is adequately captured in Criteria I and III. After discussion, the BCEG agreed to use a Not Applicable (N/A) grade for Criterion II Encroachment when a base has no runway.

Mr. Myers, AF/CEP, briefed changes to Kirtland AFB Facility Condition Codes, using the slides at Atch 1. The BCEG questioned why these errors were not caught in the certification process. After discussion, the BCEG directed that a spot sample be conducted to determine if

CLOSE HOLD - BCEG/BCEG STAFF ONLY

CLOSE HOLD - BCEG/BCEG STAFF ONLY

there are wide-spread errors in condition code reporting, and also requested a review of the circumstances of the errors in the Kirtland data. Mr. Boatright stated that he would request the AFAA to conduct a sample audit in accordance with established audit procedures. Also, he would ask the AF Civil Engineer to provide technical assistance to the auditor. In addition, Mr. Boatright asked Dr. Wolff to conduct a review of the circumstances at Kirtland and report to the BCEG. The BCEG accepted the changes as briefed.

Mr. Scovel, SAF/FMCCA, briefed COBRA data on Labs, Product Centers, and T&E facilities, using the slides at Atch 2. The results incorporate the changes as approved by the BCEG in previous meetings. Mr. Boatright mentioned that he had reviewed the available space on Wright-Patterson AFB and it was reasonable for use as excess capacity. The BCEG accepted the COBRA data as briefed.

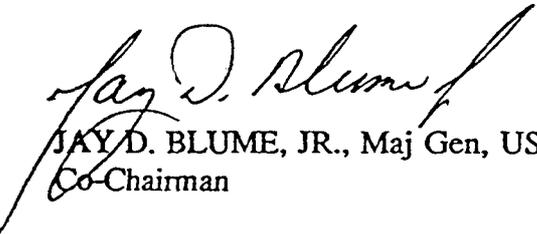
Mr. Scovel then briefed the Small Aircraft subcategory level playing field COBRA figures, using the slides at Atch 3. When the Shaw AFB move was briefed, the BCEG questioned whether this was consistent with the Cannon beddown of F-16 aircraft. After discussion, the BCEG voted to change the Cannon AFB assumptions to match that of Shaw relating to F-16s. The BCEG then approved the briefed COBRA data, with the exception of the change to the Cannon AFB figures.

Mr. Schoenecker, AF/CEVP, briefed Criterion VI data on Depots, Labs, T&E facilities, and Small Aircraft bases, using the slides at Atch 4. The numbers reflect consistency with the COBRA assumptions for all bases. Rome Lab reflects updated information received from OSD. Los Angeles AFB and Hanscom AFB reflect all FFRDC personnel as on-base, but Hanscom does not include any numbers for Lincoln Lab, which was assumed to remain. The BCEG accepted the Criterion VI data as briefed.

The BCEG then considered all eight criteria for Eglin AFB, the sole non-excluded base within the T&E subcategory. After discussion, the BCEG voted by secret written ballot on the relative value of Eglin AFB, with a 3 as the highest score of a possible 3, 2, or 1. Upon review of the votes, the BCEG voted to report Eglin as a Tier 1 base, the highest value for retention.

There being no further matters to discuss, the meeting was adjourned at 1230. The next BCEG meeting will be at the call of the Co-Chairmen.

OPEN ITEMS: Cannon COBRA with new assumptions
 Luke MOA scores
 Squadron size and number of units


JAY D. BLUME, JR., Maj Gen, USAF
Co-Chairman


JAMES F. BOATRIGHT
Co-Chairman

CLOSE HOLD - BCEG/BCEG STAFF ONLY

CLOSE HOLD - BCEG/BCEG STAFF ONLY

DEPARTMENT OF THE AIR FORCE

WASHINGTON DC



OF THE ASSISTANT SECRETARY

31 OCT 1994

MEMORANDUM FOR RECORD

FROM: SAF/MII

SUBJECT: Minutes of Air Force Base Closure Executive Group (AF/BCEG) Meeting

The AF/BCEG meeting was convened by Mr Boatright, SAF/MII, at 1030 hours on 20 October 1994, in Room 5D1027, the Pentagon. The following personnel were in attendance:

a. AF/BCEG members:

Mr. Boatright, SAF/MII, Co-Chairman
Maj Gen Blume, AF/RT, Co-Chairman
Mr. Beach, SAF/FM
Mr. McCall, SAF/MIQ
Maj Gen McGinty, AF/DPP
Maj Gen Heflebower, AF/PE
Mr. Orr, AF/LGM
Dr. Wolff, AF/CE
Mr. Durante, SAF/AQX
Mr. Kuhn, SAF/GCN
Brig Gen McCarthy, AF/XOO
Brig Gen Weaver, NGB/CF
Brig Gen Bradley, AF/RE

b. Other key attendees:

Col Mayfield, AF/RTR
Lt Col Straw, AFSPC/XPPB

The meeting was called to order by Mr. Boatright. Maj Gen Blume introduced Lt Col Straw, AFSPC/XPPB, who presented some initial concepts toward developing a method and data for evaluation of Space subcategory bases. Using the slides at Atch 1, Lt Col Straw presented an approach for evaluating Operational Effectiveness of Space bases under Criterion I. He presented five overall areas in which the bases would be evaluated; Mission Capacity, Mission Support, Sustaining Infrastructure, Risk, and Cost Factors. He then presented a number of questions which would provide the data for evaluation of each area. Although he presented proposed weights for each question, the BCEG agreed that such weights were inappropriate for consideration without developing the measures of merit for each area.

CLOSE HOLD - BCEG/BCEG STAFF ONLY

CLOSE HOLD - BCEG/BCEG STAFF ONLY

As the proposed matters were discussed, the BCEG recognized that the attempt to compare the Space Nodes at Onizuka and Falcon AFBs with the Space Support provided by Peterson AFB was quite complex. Accordingly, the BCEG tasked the BCWG to develop options for properly analyzing these three bases, recognizing the types of factors for the nodes that Lt Col Straw was presenting. On reviewing the Sustaining Infrastructure category, the BCEG determined that these were really encroachment issues, and requested this area be renamed. The BCEG also objected to the first question, since it is vague and speculative. The BCEG also directed the BCWG to reexamine the restrictive easements deemed necessary by AFSPC to determine what kinds of restrictions were valid operational concerns.

On the Risk area, there was concern that the probability of natural disasters measurement was too vague. Nonetheless, the BCEG recognized that the possibility of seismic occurrences disrupting operations was a valid concern that should be evaluated. One means of measuring this is to evaluate the number of lost operations as a result of external factors. The BCWG was tasked to review this area. The BCEG directed that the Cost Factors area be deleted since, unlike some other categories of bases, this wasn't a large factor in comparing facilities. The BCEG also directed that the question relating to square footage be deleted from the Mission Capacity area, since this is accounted for in the COBRA analysis.

The BCEG accepted the COBRA assumptions as briefed, but directed that tenants not be consulted on their level playing field moves. Instead, the BCWG was to develop reasonable moves for those units. The proposed weighting was postponed until the measures of merit were more refined.

Mr. Schoenecker briefed the Criteria VI data for Labs and Product Centers, using the computer database display. He verified the Hanscom figures, including the exclusion of data for Lincoln Lab. The BCEG accepted the displayed figures.

The BCEG then reviewed the eight DoD criteria for the Lab and Product Center subcategory. A separate Criterion I grade was presented for the Operational Effectiveness and Laboratory Effectiveness portions. The BCEG was reminded that bases with no runways received a Red grade for the relevant subelements in Criteria I and III. The BCEG then discussed the criteria. Mr. Boatright suggested that Laboratory Operational Effectiveness was highly important to the overall rating as laboratories and product center activities are the primary missions of these bases; however, some additional consideration should be given to bases with the added flexibility of a runway. The cost and savings factors (Criteria IV and V) were also important because of the very high cost to close or long payback period for some of these installations. Criterion II is the next most important because it reflects the results of the comparative analysis of facilities, including encroachment and airspace at those bases with airfields. Criterion III was not deemed important in this subcategory as most of these bases would not likely be used to directly support contingency or mobilization requirements. The remaining criteria were valuable primarily to resolve close comparisons. After discussion, the BCEG voted, giving each base a score from 1 to 3, with 3 as the highest grade. After reviewing the vote totals, the BCEG voted to approve the tiers as shown below, with Tier 1 as the highest rating for retention:

CLOSE HOLD - BCEG/BCEG STAFF ONLY

CLOSE HOLD - BCEG/BCEG STAFF ONLY

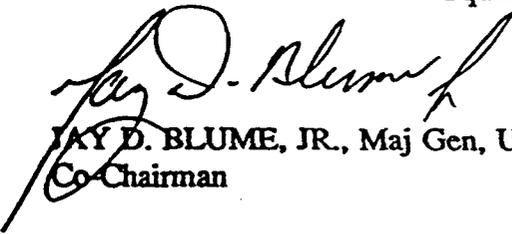
Top Tier Base
 Hanscom
 Rome
 Wright-Patterson

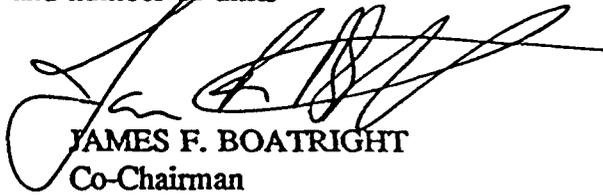
Middle Tier Kirtland
 Los Angeles

Bottom Tier Brooks

There being no further matters to discuss, the meeting was adjourned at 1300. The next BCEG meeting will be at the call of the Co-Chairmen.

OPEN ITEMS: Sustaining Infrastructure Questions
 Risk - Earthquake risk
 Analysis of Space Ops Criterion I
 Cannon COBRA with new assumptions
 Luke MOA scores
 Squadron size and number of units


JAY D. BLUME, JR., Maj Gen, USAF
Co-Chairman


JAMES F. BOATRIGHT
Co-Chairman

Attachments
Space Ops Analysis

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.



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

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.

BRAC '95 Brooks AFB Issues Summary

	<u>Closure/Consolidation at WPAFB</u>	<u>“Cantonment” at Brooks</u>
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

Dayton Daily News

Volume 118
Number 271

Dayton, Ohio, Saturday, June 10, 1995

The First Cox Newspaper

•50f

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 guru," 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, Hippie 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, continuing 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

By Tom Price
WASHINGTON BUREAU
(DOW 6/4/95)

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.

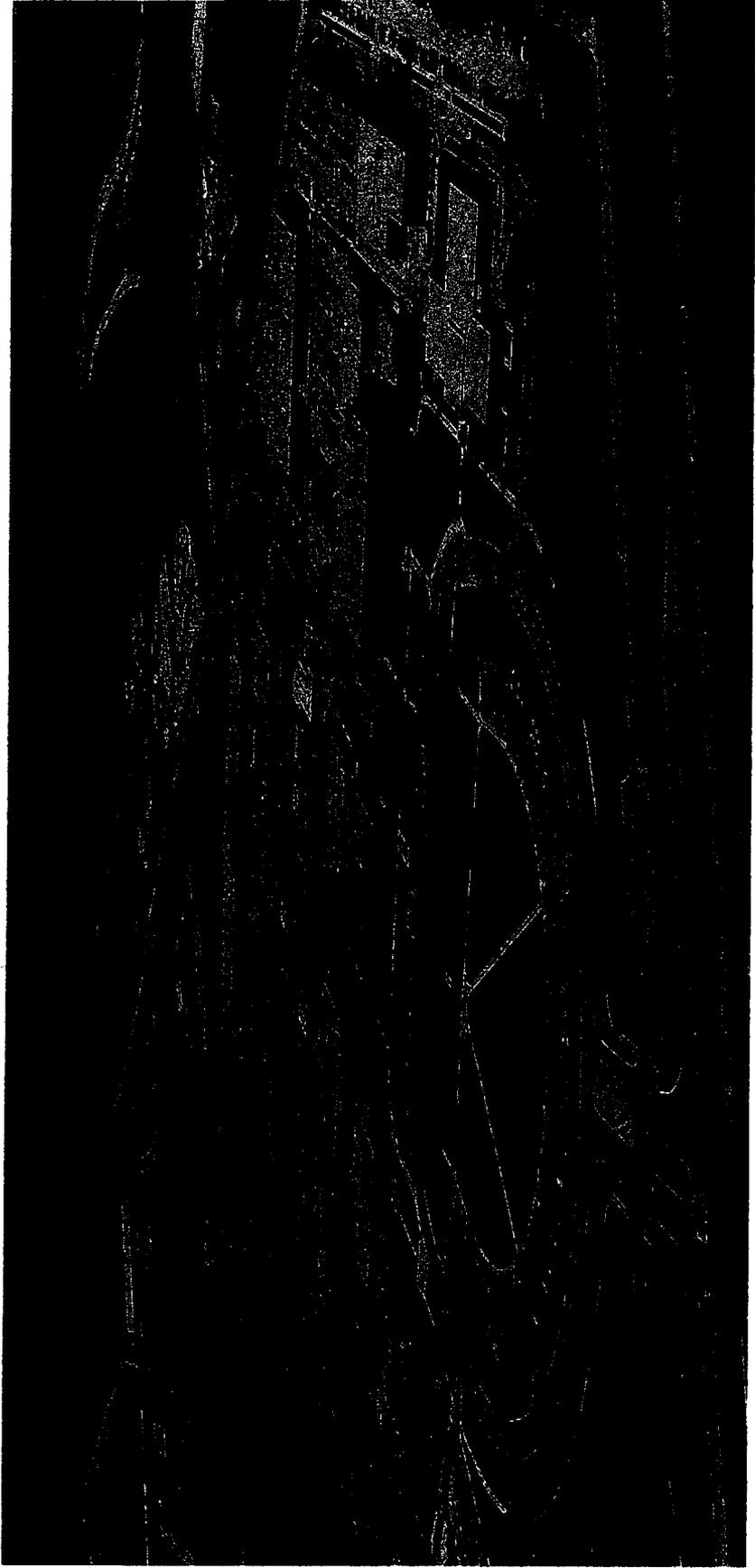
"The (base-closure) process is a crap shoot in that there are a lot of factors in play," Wine said. "The commissioners are dealing with a lot of information in a very short time."

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.

Cirillo

BROOKS AIR FORCE BASE



BROOKS AFB

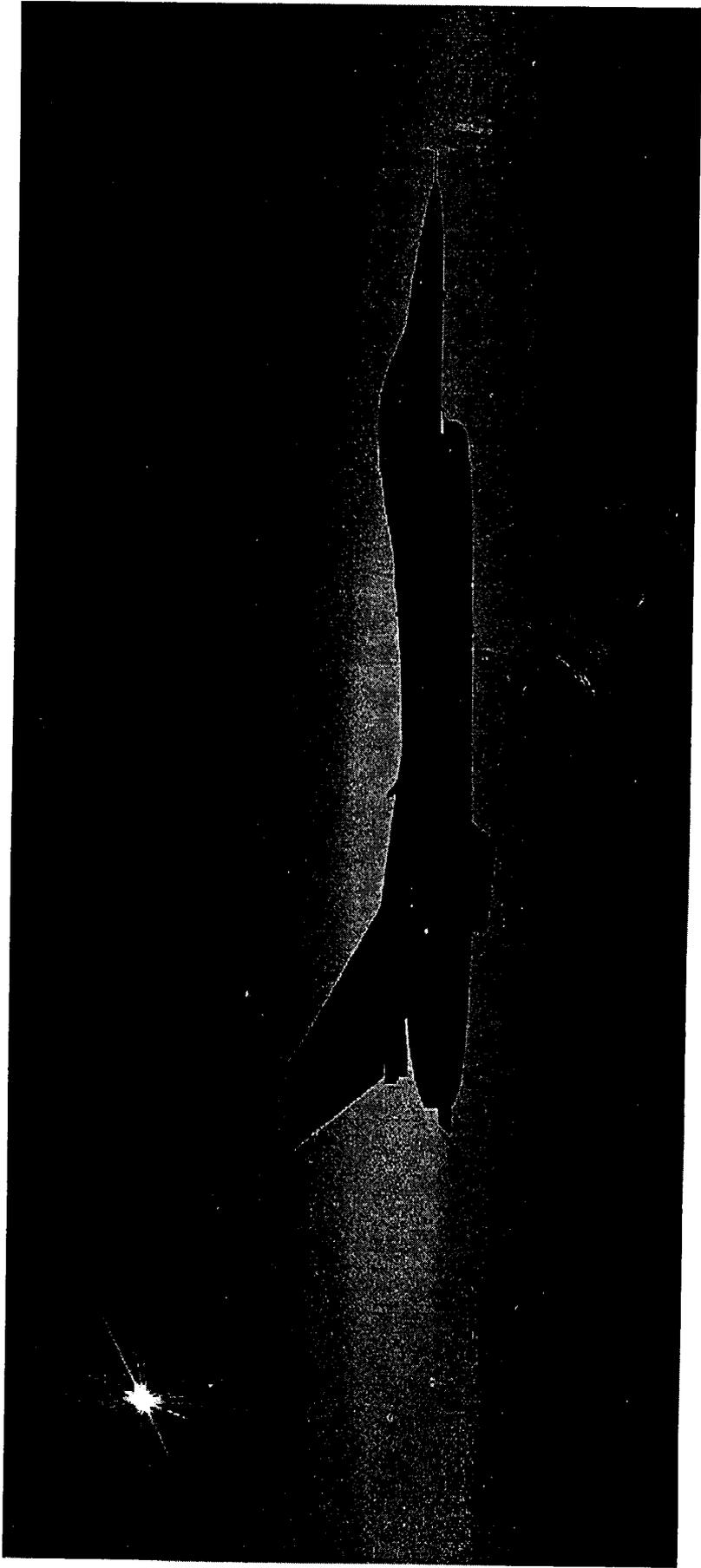
OVERVIEW

- **MISSION**
- **THE PROPOSALS**
 - **DoD PROPOSAL**
 - **ALTERNATIVE**
 - **COMPARISONS**
- **SUMMARY**

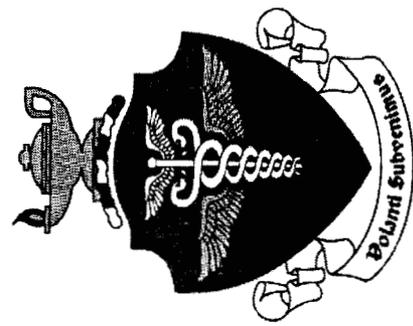
BROOKS AFB

THE HUMAN SYSTEMS CENTER

THE HUMAN IS THE HEART OF AEROSPACE SYSTEMS AND OPERATIONS



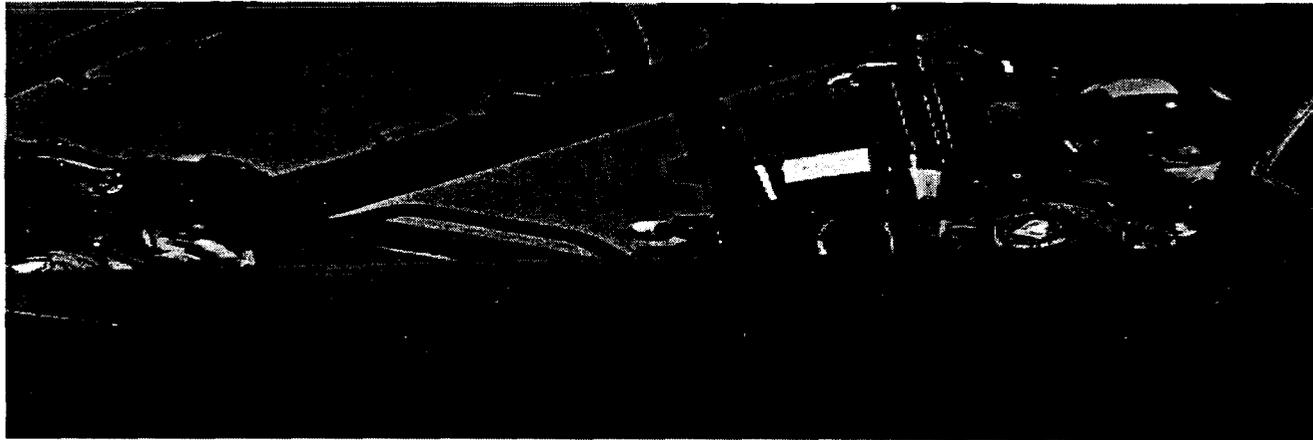
BROOKS AFB



BROOKS AFB SNAPSHOT

- **3,619 People Managing \$608 Million Annually**
- **2,215 Degrees Held**
 - **Scientists**
 - **Medical Doctors**
 - **Researchers**
 - **Research Technicians**
- **400 Acquisition Professionals**
- **128 Education/Training Instructors**
 - **61 Aerospace Medicine Courses Graduating 4,678 Students**
 - **8 System Acquisition Courses Graduating 1,385 Students**

BROOKS AFB



THE WARFIGHTER

AIR FORCE
COMBAT
COMMAND

AIR FORCE
MOBILITY
COMMAND

AIR FORCE
SPACE
COMMAND

AIR FORCE
SPECIAL
OPERATIONS
COMMAND

PACAF

USAFE

DELIVER KNOWLEDGE & SKILLS

SUPPORT OPERATIONAL
SYSTEMS

DELIVER HUMAN SYSTEMS

SUPPORT WEAPONS SYSTEMS DEVELOPMENT

DELIVER HUMAN-CENTERED SCIENCE & TECHNOLOGY

BROOKS AFB



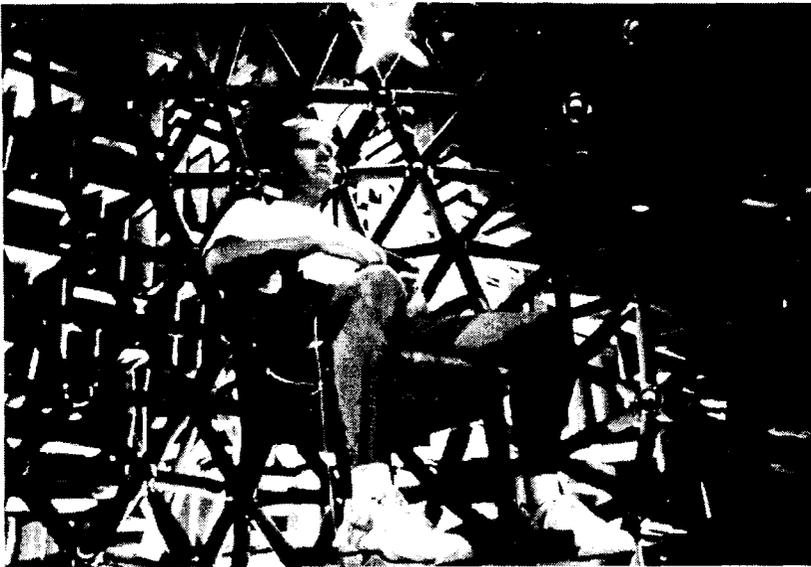
HUMAN SYSTEMS CENTER
Products and Progress

MISSIONS & PRODUCTS

- CREW SYSTEMS
- HUMAN RESOURCES
- AEROSPACE MEDICINE
- OCCUPATIONAL & ENVIRONMENTAL HEALTH
- ENVIRONICS

BROOKS AFB

Crew Systems



This Human Systems Center product area accomplishes research and develops, fields, and supports technology and systems to optimize human combat performance and survivability to ensure weapons systems configurations are compatible with human operator requirements.

- **NUCLEAR - BIOLOGICAL - CHEMICAL DEFENSE**
- **LIFE SUPPORT**
- **CREW INTERFACE TECHNOLOGY**
- **OPERATIONAL PERFORMANCE**
- **HUMAN - CENTERED DESIGN**

BROOKS AFB

Human Resources

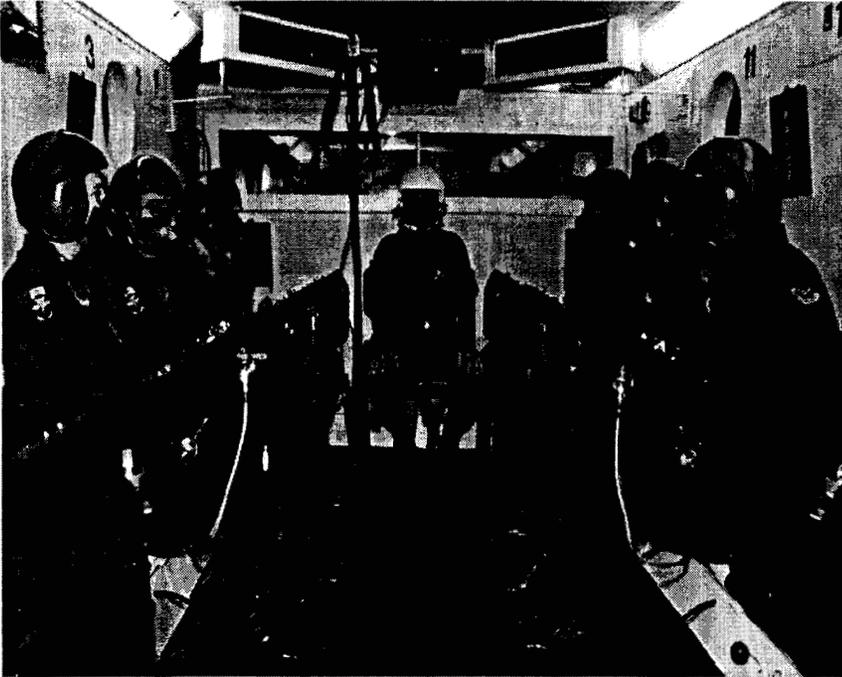


This Human Systems Center product area accomplishes research and develops, fields, and supports unique Manpower, Personnel, and Training technology and systems.

- **FORCE MANAGEMENT**
- **AIRCREW TRAINING**
- **TRAINING SYSTEMS**
- **LOGISTICS SUPPORT**

BROOKS AFB

Aerospace Medicine



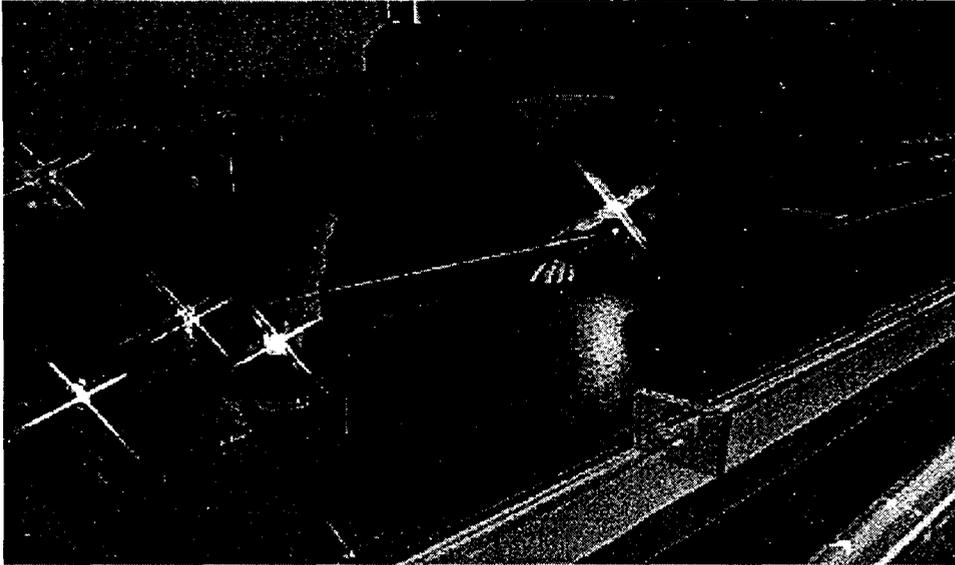
- **AEROMEDICAL CASUALTY CARE**
- **OPERATIONAL APPLICATIONS**
- **AEROMEDICAL EDUCATION**

This Human Systems Center product area provides research and specialized operational support in aeromedical consultation, epidemiology, drug testing, and hyperbaric medicine, as well as development, fielding, and support of aeromedical systems and equipment.

TRAIN 5000
students
each year
"Aeromed
Aerospace Training
Center in the world"

BROOKS AFB

Occupational and Environmental Health



- OCCUPATIONAL HEALTH
- HAZARDOUS MATERIALS
- RADIATION

This Human Systems Center product area assesses risks to personnel from hazardous materials, noise, electromagnetic radiation, and occupational processes in USAF operations. The work combines human-centered research and development in these emphasis areas with broad field consultation responsibilities to measure and reduce occupational illness and environmental hazards.

BROOKS AFB

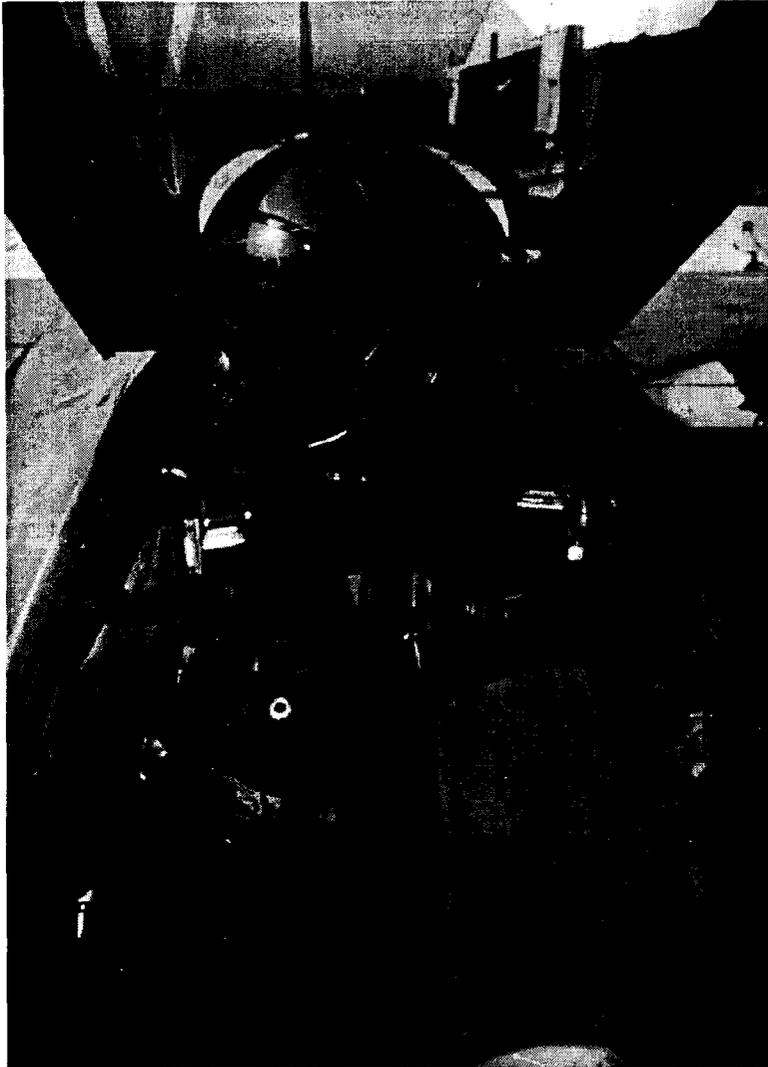
Environics and Environment Clean-up



This Human Systems Center product area provides environmental quality technology that supports the Air Force mission by reducing the cost of cleaning up past waste sites while assuring, through compliance, the completion of critical wartime and peacetime missions. The Air Force Center for Environmental Excellence applies these leading edge technologies to environmental clean-up projects.

- **BIODEGRADATION**
- **BIODEGRADABLE SOLVENTS AND CLEANERS**
- **ROCKET PROPELLANT DISPOSAL**

BROOKS AFB



THE AIR FORCE HUMAN SYSTEMS CENTER

- **ENHANCE WARFIGHTER'S
COMBAT CAPABILITY**
- **ADVOCATE FOR THE HUMAN**
 - **DESIGN**
 - **DEPLOYMENT**
 - **OPERATIONS**

BROOKS AFB

MISSIONS

- **HUMAN SYSTEMS CENTER**
- **HUMAN SYSTEMS PROGRAM OFFICE**
- **ARMSTRONG LABORATORY**
- **SCHOOL OF AEROSPACE MEDICINE**
- **CENTER FOR ENVIRONMENTAL EXCELLENCE**

AN INTEGRATED HUMAN SYSTEMS CENTER

BROOKS AFB

THE BOTTOM LINE

- **THE BROOKS MISSIONS WILL BE RETAINED**
- **THEY WILL BE CONDUCTED SOMEWHERE**
- **MORE COST-EFFECTIVE IN SAN ANTONIO**

SAN ANTONIO SYNERGY

UNIQUE MILITARY HUMAN SYSTEMS COMMUNITY

- **HUMAN SYSTEMS CENTER**
- **ARMSTRONG LAB**
- **USAF SCHOOL OF AEROSPACE MEDICINE**
- **AIR FORCE CENTER FOR ENVIRONMENTAL EXCELLENCE**
- **HUMAN SYSTEMS PROGRAM OFFICE**
- **AIR EDUCATION AND TRAINING COMMAND**
- **AIR FORCE MILITARY PERSONNEL CENTER**
- **LACKLAND AFB**
- **KELLY AFB**



SAN ANTONIO SYNERGY

ONE-OF-A-KIND BIOMEDICAL COMMUNITY

- **UNIVERSITY OF TEXAS HEALTH SCIENCE CENTER**
- **TEXAS RESEARCH AND TECHNOLOGY FOUNDATION**
- **SOUTHWEST RESEARCH INSTITUTE**
- **SOUTHWEST FOUNDATION FOR BIOMEDICAL RESEARCH**
- **WILFORD HALL MEDICAL CENTER**
- **BROOKE ARMY MEDICAL CENTER**
- **UNIVERSITY OF TEXAS AT SAN ANTONIO**
- **AIR EDUCATION AND TRAINING COMMAND**



BROOKS AFB

THE PROPOSALS

BROOKS AFB

COMPARISONS

	<u>DoD Proposal</u>	<u>Alternative</u>
• SCENARIO	RELOCATE	CANTONMENT
• BROOKS AFB	CLOSE	CLOSE
• PEOPLE		
• Eliminate	391	391
• Relocate	3,228	518
• ONE TIME COST	\$ 185 Million	\$ 11 Million
• 20 YEAR NET PRESENT VALUE	\$ 142 Million	\$ 301 Million
• RETURN ON INVESTMENT	7 Years	Immediate

BROOKS AFB

DoD PROPOSAL

- CLOSE BROOKS AFB
- RELOCATE TO WRIGHT PATTERSON AFB
 - * Human Systems Center
 - * Armstrong Laboratory
 - * School of Aerospace Medicine
- RELOCATE TO TYNDALL AFB
 - * Air Force Center for Environmental Excellence
- RELOCATE TO KELLY AFB
 - * 68th Intelligence Squadron
- RELOCATE TO LACKLAND
 - * 710th Intelligence Flight
 - * Hyperbaric Chamber Operation
- RELOCATE TO BASE X
 - * Air Force Drug Test Laboratory

• MOVES	3,228 People
• ONE-TIME COSTS	\$185 Million
• Milcon	\$ 103 M
• Movement	47 M
• Personnel	6 M
• Overhead	5 M
• Other	2 M
• One-Time Unique	21 M
• NET PRESENT VALUE	\$ 142 Million

BROOKS AFB

AN ALTERNATIVE - *CANTONMENT*

- **CLOSE BROOKS AFB**

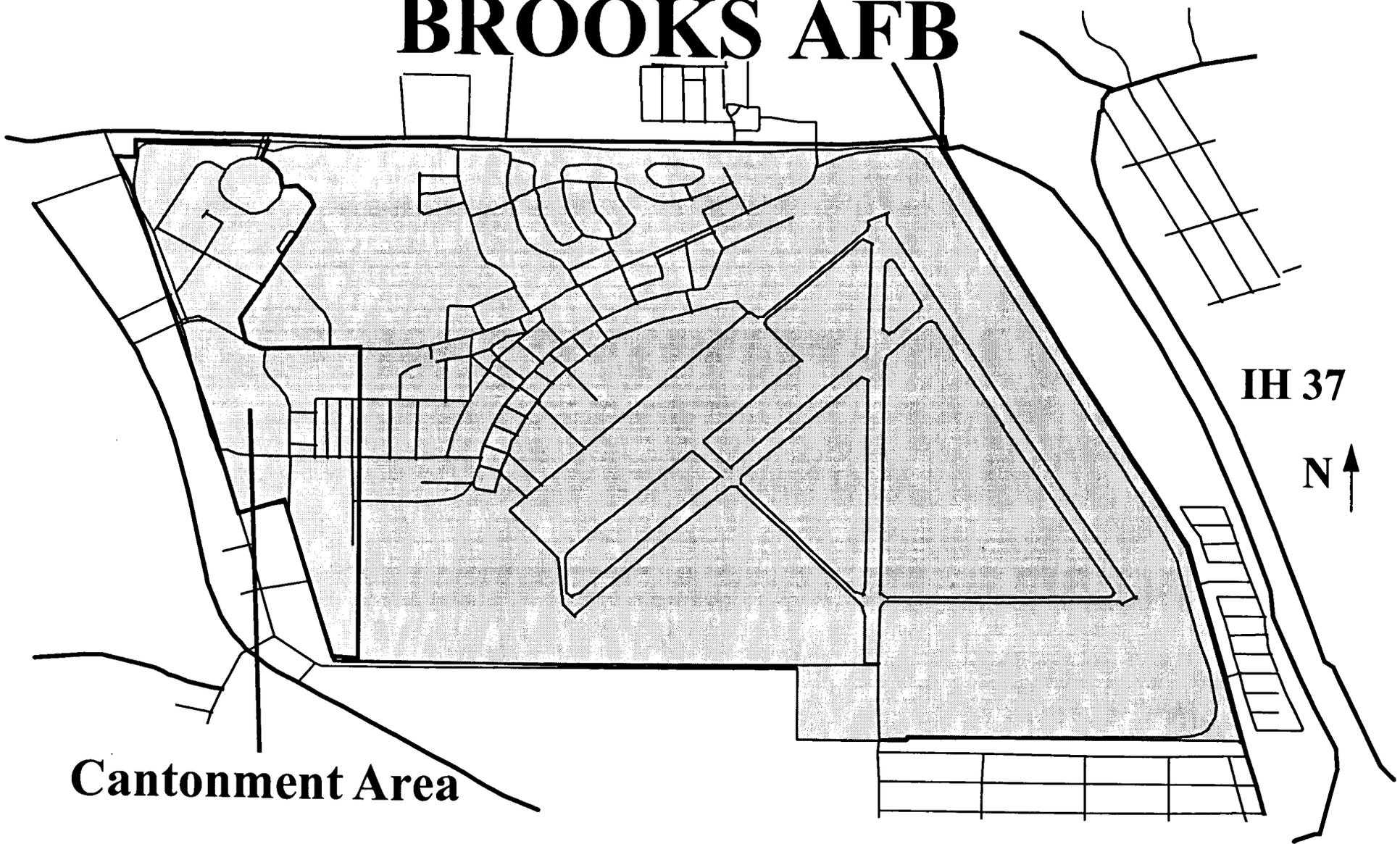
- **RETAIN MISSIONS IN CANTONMENT IN SAN ANTONIO**
 - * **Human Systems Center**
 - * **Human Systems Program Office**
 - * **Armstrong Laboratory**
 - * **School of Aerospace Medicine**
 - * **Center for Environmental Excellence**

- **RELOCATE TO KELLY AFB & LACKLAND AFB**
 - * **68th Intelligence Squadron**
 - * **710th Intelligence Flight**

- **BOS & RPM PROVIDED BY KELLY AFB OR LACKLAND AFB**

Location
in CFW Tower

BROOKS AFB



IH 37



Cantonment Area

BROOKS AFB

THE RESULTS

- CLOSE BROOKS AFB
- PEOPLE/JOBS
 - * Eliminate 391
 - * Relocate 518 (Across Town)
- ONE TIME COST \$ 11 Million
 - * MILCON \$ 6 Million
- 20 YEAR NET PRESENT VALUE \$ 301 Million
- RETURN ON INVESTMENT Immediate

BROOKS AFB

COMPARISONS

	<u>DoD Proposal</u>	<u>Cantonment</u>
• SCENARIO	RELOCATE	CANTONMENT
• BROOKS AFB	CLOSE	CLOSE
• PEOPLE		
•Eliminate	391	391
•Relocate	3,228	518
• ONE TIME COST	\$ 185 Million	\$ 11 Million
• 20 YEAR NET PRESENT VALUE	\$ 142 Million	\$ 301 Million
• RETURN ON INVESTMENT	7 Years	Immediate

THE CASE FOR CANTONMENT

- **BROOKS MISSIONS AND SCIENTISTS ARE ESSENTIAL**
 - **THESE MISSIONS WILL BE CONDUCTED SOMEWHERE**
- **SAN ANTONIO IS THE RIGHT PLACE**
 - **PRESERVES THE SYNERGIES**
 - **MORE COST EFFECTIVE**
- **THERE ARE TWO OPTIONS**

THE CASE FOR CANTONMENT

OPTIONS

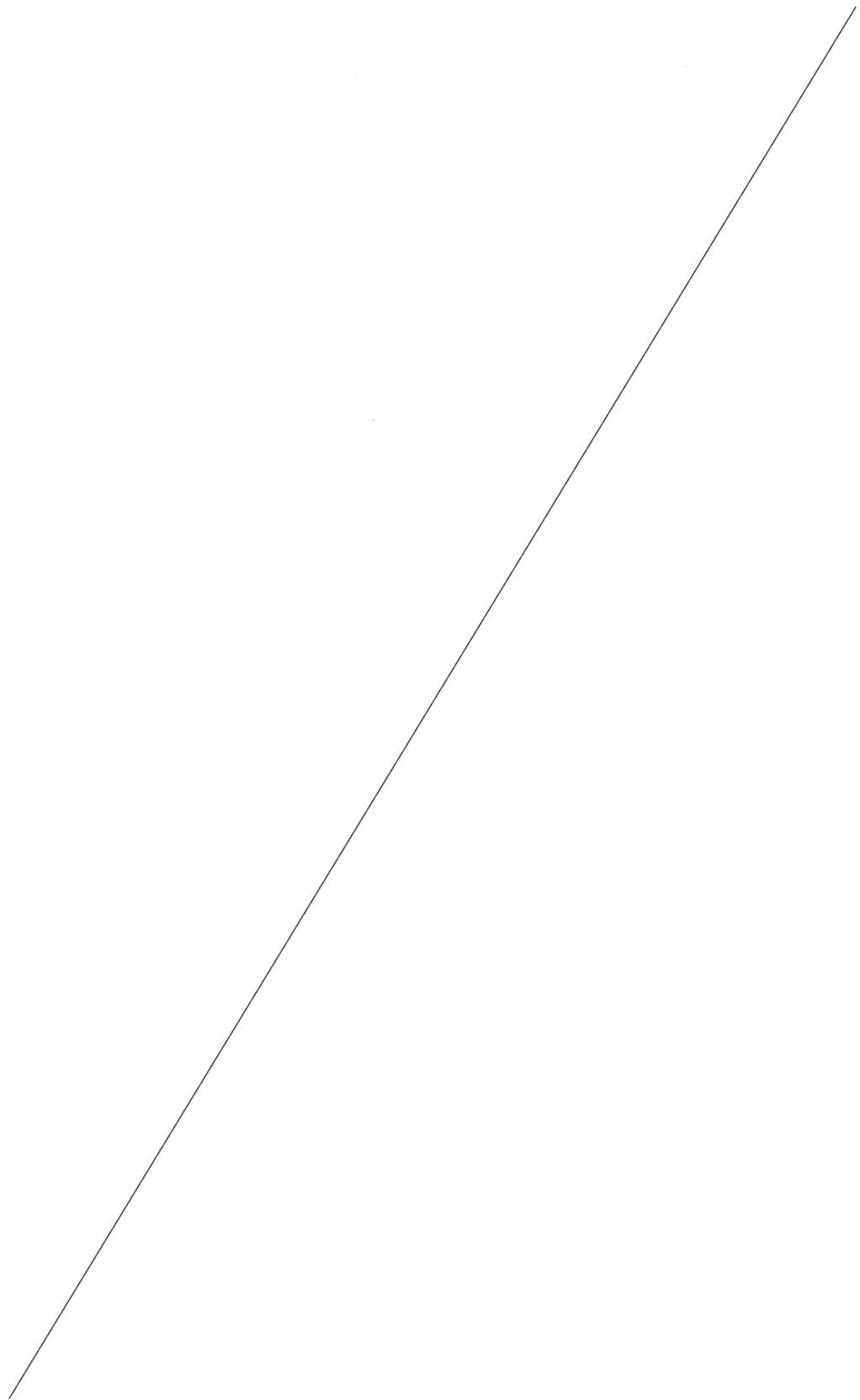
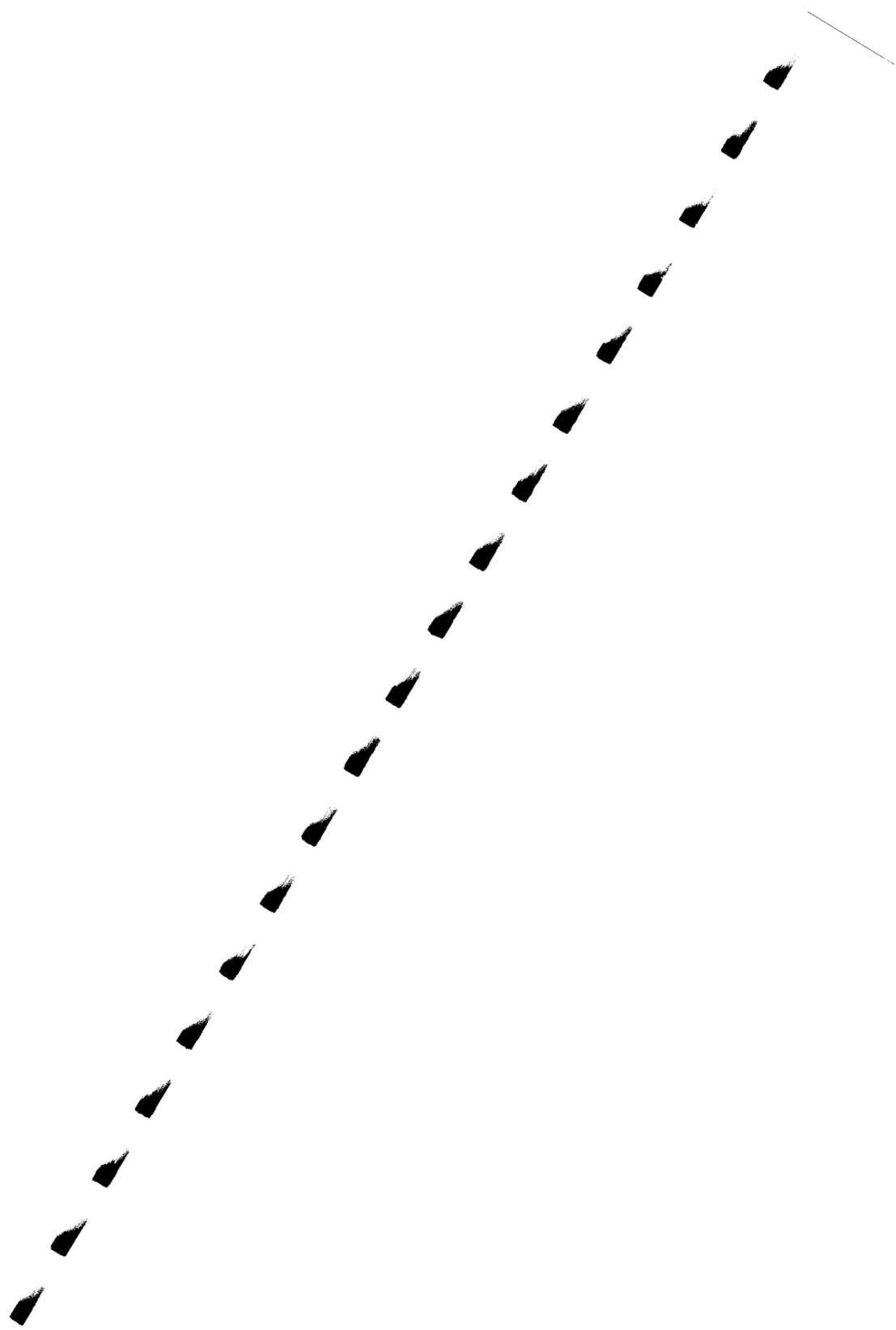
- **DoD PROPOSAL**
 - **CLOSE BROOKS AFB**
 - **MOVE MISSIONS & SCIENTISTS**

- **CANTONMENT**
 - **CLOSE BROOKS AFB**
 - **KEEP MISSIONS & SCIENTISTS**

COST-BENEFIT ANALYSIS

- **COSTS: \$185 MILLION**
- **SAVES: \$142 MILLION**
- **RISKS LOSING SCIENTISTS**
- **LOSES SYNERGIES**

- **COSTS: \$11 MILLION**
- **SAVES: \$301 MILLION**
- **KEEPS SCIENTISTS**
- **RETAINS SYNERGIES**



ARMSTRONG LABORATORY

FACILITY AND EQUIPMENT OVERVIEW

6 APRIL 1995

AGENDA

- REQUIREMENT
- COST DATA FOR LABORATORY CONSTRUCTION AND MOVES
- ESTIMATE COMPARISON
- EQUIPMENT AND FACILITY ISSUES

REQUIREMENT

- CLOSE BROOKS AFB
- MOVE HSC, SAM, AND AL TO WP-AFB
- HYPERBARIC CHAMBERS RELOCATE TO LACKLAND AFB TX



ARMSTRONG LABORATORY BROOKS AFB TX

- 1181 SCIENTISTS, ENGINEERS, AND SUPPORT
- \$75M RESEARCH EQUIPMENT AND COMPUTERS: ORIGINAL COST
- 8.5M POUNDS OF EQUIPMENT, LIBRARY, AND FURNITURE
- UNIQUE FACILITY REQUIREMENTS
- 289 CONTRACT SCIENTISTS, ENGINEERS, AND SUPPORT

COMPARATIVE LABORATORY FACILITY DATA

WALTER REED ARMY INSTITUTE OF RESEARCH (WRAIR)

- REQUIREMENTS SIMILAR TO ARMSTRONG LABORATORY
- A&E DESIGN ESTIMATE FOR A MEDICAL RESEARCH FACILITY
 - 1036 RESEARCHERS AND SUPPORT
 - 460,000 SQUARE FEET
 - FACILITY COST: \$147.3M
 - \$320/SF = \$142K/PERSON
- MOST ACCURATE COST DATA AVAILABLE FOR THE TYPE OF FACILITY THAT ARMSTRONG LAB REQUIRES

COMPARATIVE LABORATORY FACILITY DATA (con't)

KELLY MILCON ESTIMATE

- 1994 AFMC 21 ESTIMATE TO REBUILD AL AT KELLY
- NOT BASED ON A&E DESIGN ESTIMATE
 - \$312M TO INCLUDE DORMS, HOUSING, VOQ
 - \$255M FOR R&D FACILITY
 - 1,087,000 SF R&D FACILITY
 - \$235/SF

THE AUSTIN COMPANY

COMPLETED FACILITY COST SUMMARY

	Total Building Area (SF)	Laboratory Area (SF)	Office & Admin. Area (SF)	Total Project Cost (x \$1,000)	\$ Per SF (1994 Dollars)
Mobil Oil Beaumont, Tx.	19,850	12,685	7,165	\$ 4,320	\$ 217.63
Diamond Shamrock Three Rivers, Tx.	10,550	7,492	3,058	\$ 2,746	\$ 260.25
Citgo Lake Charles, La.	27,636	10,936	16,700	\$ 5,382	\$ 194.75
Exxon (Remodel) Baton Rouge, La.	5,953	4,559	1,394	\$ 1,224	\$ 211.78
Mobil Chem. Houston, Tx.	5,832	4,082	1,750	\$ 1,850	\$ 317.00
Chevron Belle Chasse, La.	12,094	7,620	4,474	\$ 2,600	\$ 214.98
Rexene Odessa, Tx.	4,262	2,314	1,948	\$ 1,154	\$ 270.76
Hoechst Celanese Bayport, Tx.	11,100	9,950	1,150	\$ 3,771	\$ 339.73
Average	12,160			\$ 2,881	\$ 236.92



Phibro USA

Phibro Energy USA, Inc.



**THE AUSTIN
COMPANY**

ARCHITECTS
ENGINEERS
BUILDERS

LABORATORY FACILITY COST ESTIMATE COMPARISON

	<u>COST/SE</u>	<u>AL SPACE</u>	<u>REQUIREMENT (SF)</u>	<u>COST</u>
WRAIR LABORATORY	\$320	580,000	580,000	\$ 185,600,000
AUSTIN CO. AVG.	\$237	580,000	580,000	\$ 137,460,000
KELLY AFB MILCON	\$235	580,000	580,000	\$ 136,300,000
COBRA MODEL	\$136	580,000	580,000	\$ 78,880,000

LABORATORY EQUIPMENT AND FACILITY ISSUE HIGHLIGHTS

HUMAN/ANIMAL CENTRIFUGE
RESEARCH ENVIRONMENTAL CHAMBERS
AEROMEDICAL EQUIPMENT AIRWORTHINESS
CERTIFICATION FACILITY
HIGH ALTITUDE RESEARCH SUPPORT FACILITY
DISPOSITION OF LEGACY ANIMALS
CAPACITY OF WPAFB ANIMAL FACILITIES
ANALYTICAL/RADIOANALYTICAL CAPABILITY
RELOCATION OF LASER AND BIOEFFECTS
SECURITY SPACE REQUIREMENTS
RELOCATION OF REFERENCE LABORATORY
RELOCATION OF HYPERBARIC SERVICES
RELOCATION OF ANECHOIC CHAMBERS

CATEGORY III ITEM #CFT-01

HUMAN/ANIMAL CENTRIFUGE

- **ISSUE:** RELOCATION OF THE BROOKS AFB HUMAN/ANIMAL CENTRIFUGE TO W-P AFB
- **FACTS:**
 - MOST ACTIVE AND PRODUCTIVE CENTRIFUGE IN WORLD
 - MAXIMUM 30 G TEST CAPABILITY
 - ONLY CENTRIFUGE THAT CAN MATCH FIGHTER CAPABILITY
 - 9 G; 6 G/SEC ONSET RATE
 - LOW O&M COSTS COMPARED TO OTHER CENTRIFUGES
 - NAVY CLOSING DOWN WARMINSTER CENTRIFUGE
- **RECOMMENDATIONS:** MOVE THE BROOKS AFB CENTRIFUGE INTO A NEW BUILDING AT WPAFB.
- **IMPACT IF NOT RESOLVED:** LOSS OF A UNIQUE NATIONAL ASSET

CATEGORY III ITEMS #CFT-07, 08, 09

RESEARCH ENVIRONMENTAL CHAMBERS AEROMEDICAL EQUIPMENT AIRWORTHINESS CERTIFICATION FACILITY

HIGH ALTITUDE RESEARCH SUPPORT FACILITY

- ISSUE: RESEARCH ALTITUDE CHAMBERS/SUPPORT EQUIPMENT, RELOCATE TO WPAFB
- FACTS:
 - 7 SPECIALIZED RESEARCH ALTITUDE AND ONE ENVIRONMENTAL CHAMBERS
 - REQUIRES REMOVAL OF BUILDING WALLS AND SPECIAL EXTRACTION EQUIPMENT
 - 19 HIGH CAPACITY VACUUM PUMPS, THERMAL CONDITIONING SYSTEM (SLED MOUNTED TANKS, PUMPS AND COMPRESSORS, AND HOT GLYCOL CIRCULATION SYSTEM)
- RECOMMENDATION:
 - DESIGN/BUILD NEW FACILITY TO ACCOMMODATE RESEARCH/ENVIRONMENTAL CHAMBERS AT W-P AFB

CATEGORY III ITEMS #CFT 07, 08, 09

**RESEARCH ENVIRONMENTAL CHAMBERS
AEROMEDICAL EQUIPMENT AIRWORTHINESS
CERTIFICATION FACILITY
HIGH ALTITUDE RESEARCH SUPPORT FACILITY**

- **IMPACT IF NOT RESOLVED**
 - ONLY AEROSPACE ALTITUDE RESEARCH FACILITY IN DOD
 - LOSS WOULD ELIMINATE:
 - SUPPORT TO ACC, USSOCOM, AND NASA
 - ON BOARD OXYGEN GENERATING SYSTEMS DEVELOPMENT
 - LIFE SUPPORT EQUIPMENT DEVELOPMENT AND MAN-RATING
 - AIRWORTHINESS CERTIFICATION OF AEROMEDICAL EVACUATION EQUIPMENT
 - RESEARCH ON SPECIALIZED REQUIREMENTS FOR HIGH ALTITUDE PROTECTION
 - 1 - 1.5 YEARS DOWN TIME

**CATEGORY III ITEM #OE-1
DISPOSITION OF LEGACY ANIMALS**

- **ISSUE:** LEGACY ANIMALS REQUIRE LIFETIME CARE
- **FACTS:**
 - MOVE TO WPAFB NOT NEEDED
 - NO FURTHER RESEARCH, JUST SUPPORT
 - AAALAC CARE REQUIRED, SOMEWHERE
- **RECOMMENDATION:**
 - MILCON SPACE AT WPAFB
 - MOVE COLONY TO NEW LOCATION
 - LEASE BROOKS FACILITIES
- **IMPACT IF NOT RESOLVED:** CARE IS REQUIRED FOR 10-15 YEARS

CATEGORY III ITEM #OE-2

CAPACITY OF WPAFB ANIMAL FACILITIES

- **ISSUE:** SHORT FALL IN ANIMAL FACILITIES AT WPAFB EXISTS
- **FACTS:**
 - SPACE REQUIRED BEFORE MOVE OF ANIMALS
 - BAFB HAS 100K SF SPACE, WPAFB HAS 50K SF
 - SHORTFALL OF 60K SF IF CONSOLIDATE
 - SPACE IS EXPENSIVE
- **RECOMMENDATION:** LEASE OR BUILD SPACE AT WPAFB
- **IMPACT IF NOT RESOLVED:** LOSS OF ANIMAL SUPPORT SHUTS DOWN IN-HOUSE BIOEFFECTS WORK

CATEGORY III ITEM #OE-6

ANALYTICAL/RADIOANALYTICAL

- **ISSUE:** ENGINEERING SERVICE MISSION REQUIRES LABORATORY, COLLOCATION WITH CONSULTANTS
- **FACTS:** 60K SF LAB, 14K SF ADMIN, 3K SF HAZMAT MEDIUM LABS WITH HVAC (58 HOODS NOW) PROVIDE 30% OF AF ESOH ANALYSES, 90K PLUS COLLOCATED FOR READINESS MISSION EQUIPMENT REQUIRES R/R BY VENDOR RECERTIFICATION REQUIRED FOR WPAFB
- **RECOMMENDATION:** MOVE AS UNIT TO WPAFB
- **IMPACT IF NOT RESOLVED:** READINESS MISSION IMPACT. LOSS OF ESOH ANALYTICAL CAPABILITY

CATEGORY III ITEM #OE-7

RELOCATION OF LASER AND RFR BIOEFFECTS

- **ISSUE: RELOCATION OF RF AND LASER BIOEFFECTS INVOLVES TRISERVICE RELIANCE COLLOCATES**
- **FACTS:**
 - **AGREEMENTS MAKE USAF RESPONSIBLE FOR MOVE**
 - **COLLOCATION DEMONSTRATED AS EFFECTIVE**
 - **35 XMITERS, 9 CHAMBERS**
 - **14 LASERS, 15 OPTICAL BENCHES**
 - **ALL COLLOCATES NEED ANIMAL MODEL SUPPORT**
- **RECOMMENDATION: STUDY ALL OPTIONS FOR MOVE**
- **IMPACT IF NOT RESOLVED: LOSE BIOEFFECTS R&D**

CATEGORY III ITEM #OE-12

SECURITY SPACE REQUIREMENTS

- **ISSUE:** SECURE SPACE FOR MATH PRODUCTS DIVISION
- **FACTS:**
 - 3.4K SF SCIF, 3K NET ADMIN
 - COMPUTER WORKSTATIONS REQUIRE MOVE
 - READY SPACE NEEDED TO FACILITATE, IF MOVED
 - PROVIDES ONLY 1/3 SPACE FOR RELIANCE DETACHMENTS
- **RECOMMENDATION:** LEASE OR BUILD SPACE AT WPAFB
- **IMPACT IF NOT RESOLVED:** DELAYS IN IMPORTANT CLASSIFIED R&D

CATEGORY III ITEM #AO-01

RELOCATION OF REFERENCE LABORATORY

- **ISSUE:** DISRUPTION OF WORLD-WIDE REFERENCE LABORATORY SERVICES PROVIDED BY THE EPIDEMIOLOGIC RESEARCH DIVISION (AOE)
- **FACTS:**
 - RECERTIFICATION REQUIRED
 - 1 YEAR MINIMUM TIME BEFORE CERTIFICATION
- **RECOMMENDATION:** PROVIDE INTERIM CONTRACT SERVICES
- **IMPACT IF NOT RESOLVED:** LOSS OF PATHOGEN SCREENING REQUIRED FOR DEPARTMENT OF DEFENSE MEDICAL TREATMENT FACILITIES.

CATEGORY III ITEM #AO-04

RELOCATION OF HYPERBARIC SERVICES

- **ISSUE:** MAJOR ENGINEERING EFFORT REQUIRED TO RELOCATE HYPERBARIC SERVICES. EXISTING CHAMBERS ARE IN EXCESS OF 30 YEARS OLD.
- **FACTS:**
 - NEW SUPPORT FACILITIES MUST MEET NEW NATIONAL FIRE PREVENTION ASSN (NFPN)
 - PRESSURE VESSELS MUST MEET HUMAN OCCUPANCY (PUHO) STANDARDS.
- **RECOMMENDATION:**
 - RELOCATE EXISTING CHAMBERS IN NEW SUPPORT FACILITY
- **IMPACT IF NOT RESOLVED:** LACK OF TREATMENT CAPABILITY

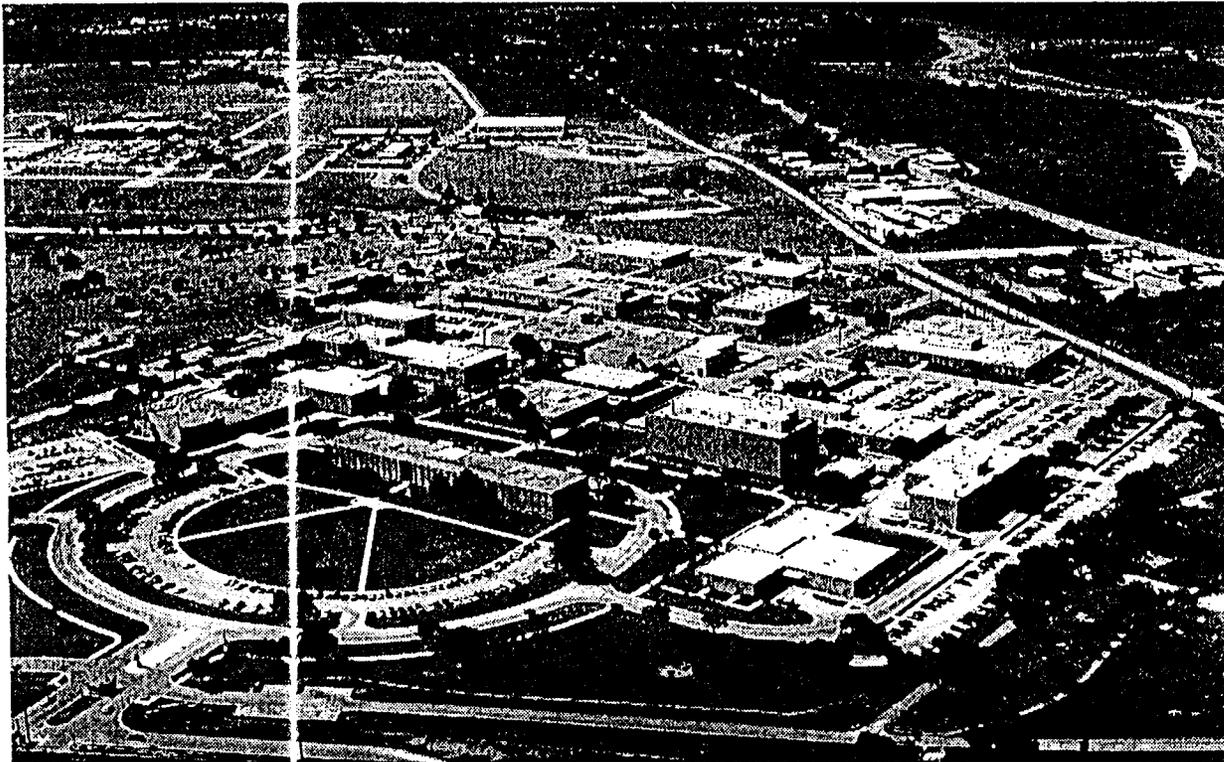
CATEGORY III ITEM #AO-05

RELOCATION OF ANECHOIC CHAMBER

- **ISSUE:** RELOCATION OF ANECHOIC CHAMBER
- **FACTS:**
 - CHAMBERS ARE CUSTOM MADE
 - CONSTRUCTED INTO BUILDING
- **RECOMMENDATION:** BUILD ANECHOIC CHAMBER AT WPAFB
- **IMPACT IF NOT RESOLVED:** AIRCREWS CANNOT BE TESTED FOR RESEARCH IN HUMAN SYSTEMS PROGRAMS.



HUMAN SYSTEMS CENTER AIR FORCE MATERIEL COMMAND



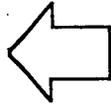


AIR FORCE VISION

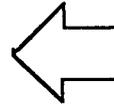
*Air Force PEOPLE Building the
World's Most Respected Air and
Space Force ... Global Power and
Reach for America.*



Mission



Systems



People



HSC PURPOSE

THE HUMAN SYSTEMS CENTER TEAM WORKS WITH ITS CUSTOMERS TO ENHANCE OUR WARFIGHTER'S COMPETITIVE EDGE BY PROVIDING SUPERIOR HUMAN CENTERED TECHNOLOGY, SYSTEMS, EDUCATION AND SUPPORT. WE ARE THE SYSTEM'S INDEPENDENT ADVOCATE FOR THE HUMAN IN DESIGN, DEPLOYMENT AND OPERATIONS OF AEROSPACE SYSTEMS



PRODUCT CENTER BASE DESCRIPTION BROOKS AFB

- **MAJOR UNITS**
 - **HUMAN SYSTEMS CENTER TO INCLUDE:**
 - **ARMSTRONG LAB**
 - **USAF SCHOOL OF AEROSPACE MEDICINE**
 - **HUMAN SYSTEMS PROGRAM OFFICE**
 - **AIR BASE GROUP**
 - **SYSTEMS ACQUISITION SCHOOL**
 - **AIR FORCE CENTER FOR ENVIRONMENTAL EXCELLENCE**
 - **AIR FORCE MEDICAL SUPPORT AGENCY**



PRODUCT CENTER BASE DESCRIPTION BROOKS AFB (CONT)

- **PRODUCT LINES - RESEARCH RELATED TO HUMAN SYSTEMS**
 - **CREW SYSTEMS INTEGRATION**
 - **HUMAN RESOURCES**
 - **AEROSPACE MEDICINE**
 - **OCCUPATIONAL/ENVIRONMENTAL HEALTH**
 - **EDUCATION/FORCE READINESS**
 - **MEDICAL/ENVIRONMENTAL SAMPLE ANALYSIS SERVICE**
 - **ENVIRONMENTAL COMPLIANCE SERVICES**

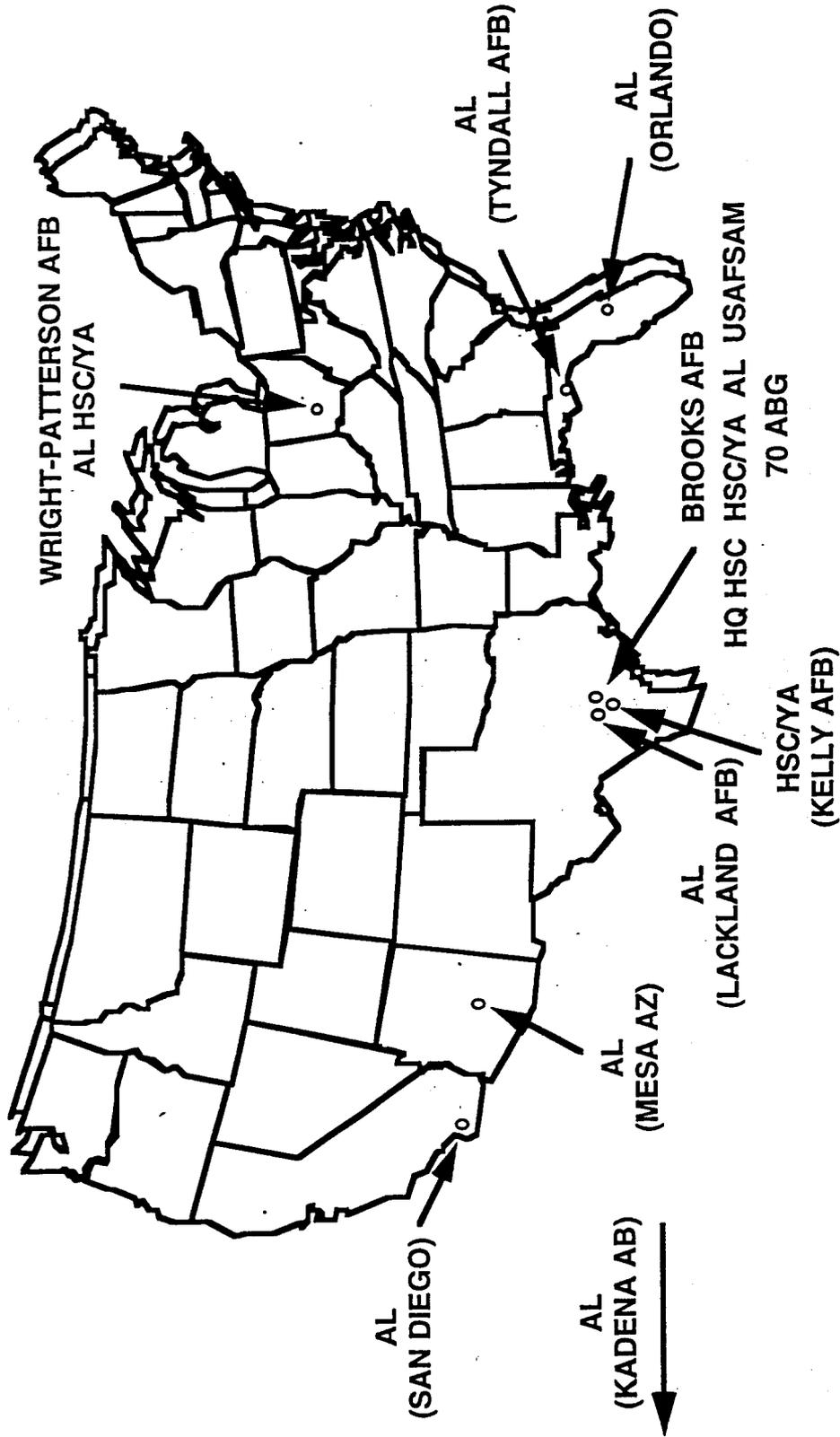


FY95 HSC SNAPSHOT

- 3,249 People Managing \$608 Million Annually
- 962 Scientists & Engineers
 - 400 Published Articles • 27 Patents, Inventions, Disclosures
 - 71 Focused Technology Areas
- 2,215 Degrees Held
 - 242 Doctoral • 570 Masters • 1,403 Bachelors
- 400 Acquisition Professionals
 - 40+ Development / Production Programs
 - 7,000+ Sustainment Items
- 128 Education / Training Instructors
 - 61 Aerospace Medicine Courses Graduating 4,768 Students
 - 8 System Acquisition Courses Graduating 1,385 Students



HSC ORGANIZATIONS





HUMAN SYSTEMS TECHNOLOGY

- **DOD PERVASIVE, CORE TECHNOLOGY**
 - **REQUIRES IN-DEPTH FAMILIARITY WITH SERVICE OPERATIONS**
 - **REQUIRES TIGHT USER INTERFACE**
- **OFTEN MILITARILY UNIQUE, WITHOUT CIVILIAN COUNTERPART**
- **ENDORSED TO CSAF BY AFSAB 1994 SUMMER STUDY**



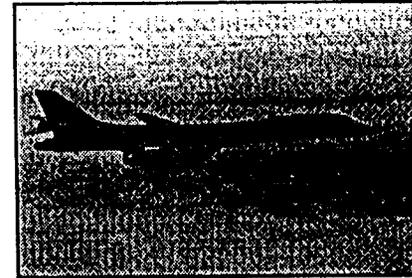
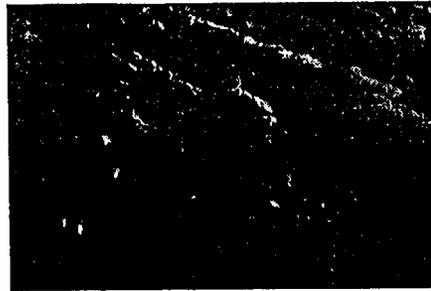
HUMAN SYSTEMS TECHNOLOGY WILL BE OF PARTICULAR VALUE FOR THE FUTURE

- **FEWER NEW WEAPONS; AF MUST EXTEND DEMANDS ON CURRENT SYSTEMS AND CREW**
- **COMPLEX FUTURE WEAPONS SYSTEMS WILL REQUIRE IMPROVED DATA FUSION BY AIRCREW**
- **NIGHT AND ALL-WEATHER OPS WILL INCREASE DEMANDS ON CREWMEMBERS**
- **TRAINING AND SELECTION WILL BECOME EVEN MORE CRITICAL**
- **HUMAN SYSTEMS TECHNOLOGY = LEVER TO MAINTAIN FORCE EFFECTIVENESS DURING DOWNSIZING**
- **ENVIRONMENTAL LAWS IMPACT AIR BASE OPS, BASE CLOSURES, WASTE STREAMS**



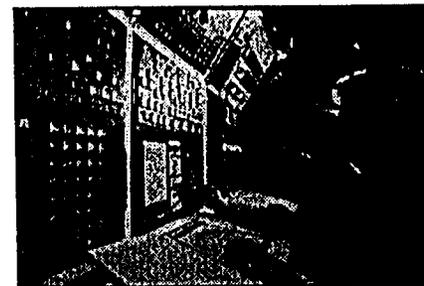
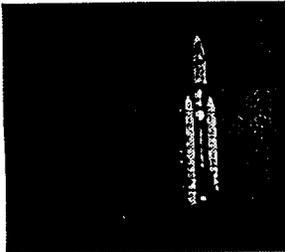
HSC IS LOGICAL ORGANIZATION TO BE FOCAL POINT FOR ALL HUMAN SYSTEMS TECHNOLOGY

- SINGLE MANAGER, ADVOCATE TO PREVENT FRAGMENTATION / ATTRITION
- AL IS ONLY LAB COORDINATING THROUGH MORE THAN TWO RELIANCE PANELS
- 1300 ACRES AT BROOKS AFB FOR FUTURE EXPANSION
- DOWNSIZING OPENS UP ADDITIONAL ROOM FOR FURTHER COLLOCATIONS
- NEW FACILITIES UNDER CONSTRUCTION AT BROOKS AFB
 - USAFSAM ACADEMIC COMPLEX
 - DIRECTED ENERGY LABORATORY
 - AFCEE BUILDING



THERE ARE NO

UNMANNED SYSTEMS





HSC'S MISSION

THE WARFIGHTER

AIR
STAFF

PROGRAM
EXECUTIVE
OFFICER

OTHER
PRODUCT
CENTERS

TECHNOLOGY
EXECUTIVE
OFFICER

INDUSTRY

DELIVER KNOWLEDGE & SKILLS

SUPPORT OPERATIONAL
SYSTEMS

DELIVER HUMAN SYSTEMS

SUPPORT WEAPON SYSTEMS
DEVELOPMENT

DELIVER HUMAN-CENTERED
SCIENCE & TECHNOLOGY



ARMSTRONG LABORATORY TECHNOLOGY TRANSITION TO HUMAN SYSTEMS PROGRAM OFFICE

- **COMBINED ADVANCED TECHNOLOGY ENHANCED DESIGN G-ENSEMBLE (COMBAT EDGE)**
- **NIGHT VISION SYSTEM**
- **DISPOSABLE EYE / RESPIRATORY PROTECTION SYSTEM**
- **THERMAL FLASHBLINDNESS PROTECTION DEVICE**
- **AIRCRAFT MISHAP PREVENTION SYSTEM**
- **RAPID OPTICAL SCREENING TOOL (ROST)**
- **ACTIVE NOISE REDUCTION**
- **MAINTENANCE SKILLS TUTOR**
- **CIVIL RESERVE AIR FLEET AEROMEDICAL EVACUATION SHIPSETS**
- **ADVANCED TECHNOLOGY ANTI-G SUIT (ATAGS)**
- **MICRO COMPUTER INTELLIGENCE FOR TECHNICAL TRAINING (MITT)**



INTEGRATION OF RESEARCH AND EDUCATION BETWEEN AL AND USAFSAM

- **DEVELOPMENT OF THE ADVANCED SPATIAL DISORIENTATION DEMONSTRATOR**
 - **TRAINING PROTOCOLS FOR RECOGNITION OF SD AND RECOVERY TECHNIQUES**
 - **DEVELOPED FOR ACC AND AETC PILOTS**
 - **USAFSAM LEADS AND AL SUPPORTS**
 - **DEVELOPMENT OF REALISTIC FLIGHT SIMULATIONS**
 - **AL LEADS AND USAFSAM SUPPORTS**
- **COOPERATION IN RESEARCH AND EDUCATION MISSIONS - THE UNIVERSITY MODEL**
 - **USAFSAM EDUCATORS PARTICIPATE IN RESEARCH MISSION OF AL**
 - **AL SCIENTISTS AND ENGINEERS SERVE AS FACULTY MEMBERS IN USAFSAM**



AL TIGHTLY INTEGRATED WITH SAN ANTONIO MILITARY COMMUNITY

- USAF SCHOOL OF AEROSPACE MEDICINE (SAM)
 - JOINT PROJECTS AND PERSONNEL EXCHANGES
- AIR FORCE CENTER FOR ENVIRONMENTAL EXCELLENCE (AFCEE)
 - RECIPIENT AND BROKER OF AL ENVIRONMENTAL TECHNOLOGIES
- HUMAN SYSTEMS PROGRAM OFFICE
 - TRANSITION HUMAN-CENTERED TECHNOLOGY
- AIR EDUCATION AND TRAINING COMMAND (AETC)
 - REQUIREMENTS, EVALUATIONS AND SUBJECTS FOR AIRCREW TRAINING R&D
- AIR FORCE MILITARY PERSONNEL CENTER
 - REPOSITORY FOR MPC DATABASE
- LACKLAND AFB
 - FACILITIES AND SUBJECTS FOR TRAINING AND SELECTION RESEARCH
- KELLY AFB
 - BIOREMEDIATION TEST SITE



GEOGRAPHICALLY-UNIQUE PROFESSIONAL SUPPORT



(WITH CIVILIAN COMMUNITY)

**AUDIE MURPHY VETERANS HOSPITAL: CLINICAL HYPERBARIC
MEDICINE SERVICES**

**UTSA: INTELLIGENT TUTORING SYSTEMS IN FUNDAMENTAL SKILLS
MILITARY WOMEN MEDICAL CARE COLLABORATIVE STUDIES**

TRINITY UNIVERSITY: BIOEFFECTS OF ELECTROMAGNETIC FIELDS

SOUTHWEST RESEARCH INSTITUTE: VIBRATION TESTING

**UTHSC, UTSA, TRINITY, SRI AND SYSTEMS RESEARCH LAB: LASER,
MICROWAVE AND ELECTROMAGNETIC ENERGY STUDIES**

TEXAS A&M: FOOD AND SAFETY RESEARCH

**NASA: ENVIRONMENTAL TECHNOLOGY
RADIOLOGICAL AND TOXICOLOGICAL EFFECTS
ALTITUDE DECOMPRESSION SICKNESS**



GEOGRAPHICALLY-UNIQUE PROFESSIONAL SUPPORT



(WITH MILITARY COMMUNITY)

KELLY AFB

- **RADIOLOGICAL WASTE SITE CLEANUP AND SAFE MATERIAL DISPOSAL**
- **OCCUPATIONAL MEDICINE TRAINING**

LACKLAND AFB

- **TRICARE REGION VI REFERENCE LAB**
- **CLOSE PROXIMITY TO 30,000 RECRUITS FOR HUMAN-BASED RESEARCH**

RANDOLPH AFB

- **HIGH-G AWARENESS TRAINING FOR ALL AETC INSTRUCTOR PILOT TRAINEES**
- **CRITICAL FLYING REQUIREMENTS FOR 100 FLIGHT SURGEONS (ANNUALLY)**

JOINT MEDICAL RESOURCE OPPORTUNITIES

- **VETERINARY EXPERIENCE FOR RESEARCH IN MEDICAL SAFETY AND EFFICACY (BAMC)**
- **LOW COST TRAINING IN HEALTH PHYSICS (FORT SAM HOUSTON)**



GEOGRAPHICALLY-UNIQUE CIVIC/SOCIAL SUPPORT



EDUCATION :

- SAN ANTONIO 2000 (HSC/CC CHAIRS PROGRESS REPORT COUNCIL)
- MENTORING PROGRAM (100-PLUS VOLUNTEERS)
- HIGHER EDUCATION INSTRUCTORS AT NEARBY UNIVERSITIES (100-PLUS)

MEDICAL :

- AFTER-HOURS MANPOWER SUPPORT TO LOCAL HOSPITALS
- PRACTICAL EXPERIENCE AVAILABILITY FOR LOCAL DOCTORAL STUDENTS

RUNWAY :

- AUTOMOTIVE RESEARCH AND TESTING
- SAFE-DRIVING TRAINING

MONEY / TIME :

- ALAMO FEDERAL EXECUTIVE BOARD
- HUNDREDS OF EMPLOYEES/THOUSANDS OF VOLUNTEER HOURS



USAF SCHOOL OF AEROSPACE MEDICINE

(USAFSAM)

**PROVIDES TRAINING, EDUCATION, AND
CONSULTATION IN THE AREAS OF HUMAN
PERFORMANCE ENHANCEMENT, CONTINGENCY
MEDICAL OPERATIONS, OCCUPATIONAL
HEALTH, DISEASE PREVENTION,
ENVIRONMENTAL QUALITY, AND AEROMEDICAL
EVACUATION**



USAFSAM

- **INTERNATIONALLY RECOGNIZED**
- **5000+ STUDENTS PER YEAR**
 - **AEROSPACE MEDICINE**
 - **AEROSPACE NURSING**
 - **AEROSPACE PHYSIOLOGY**
 - **PUBLIC HEALTH**
 - **BIOENVIRONMENTAL ENGINEERING**
- **ENTRY LEVEL THROUGH 4TH YEAR POST M.D.**
 - **USAF, DOD, AND ALLIED NATIONS**



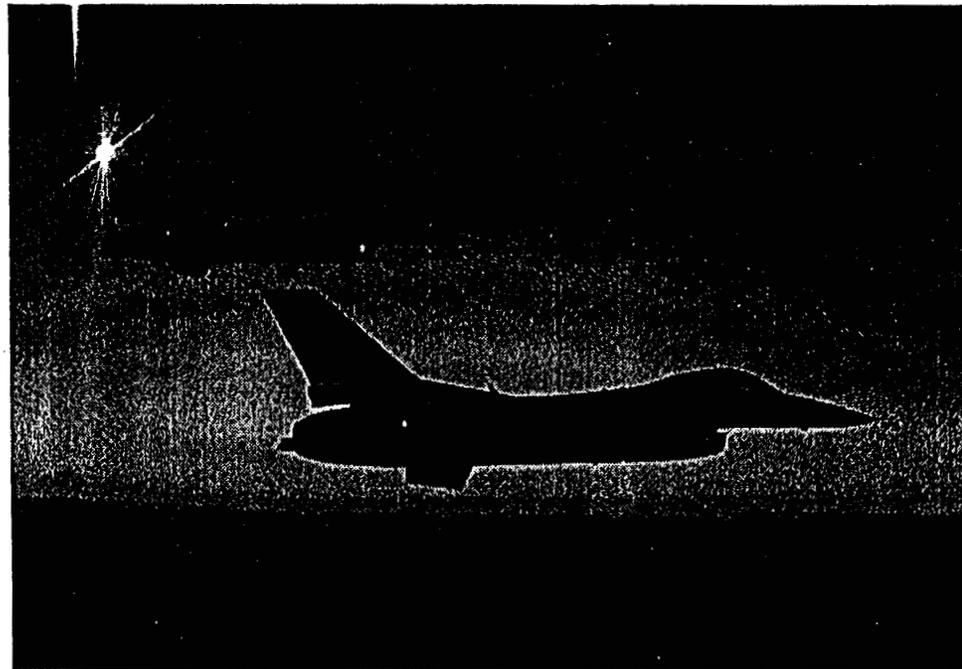
USAFSAM

- **HIGHLY SYNERGISTIC RELATIONSHIP WITH AL AND YA**
 - **30% OF USAFSAM PODIUM HOURS CONDUCTED BY AL AND YA SUBJECT MATTER EXPERTS**
 - **AL PROVIDES ESSENTIAL RESEARCH BASE FOR ADVANCED USAFSAM STUDENTS**
 - **USAFSAM STAFF PROVIDES OPERATIONAL INSIGHT FOR RESEARCHERS, PROGRAM MANAGERS**



WE ARE THE HUMAN SYSTEMS CENTER

THE HUMAN IS THE HEART OF AEROSPACE
SYSTEMS AND OPERATIONS



THERE ARE NO UNMANNED SYSTEMS