

120 FW HOMELAND SECURITY MISSION
AND
MARCH AIR RESERVE BASE, CALIFORNIA

- In Sep 2003, the 120 FW (Montana ANG) assumed joint air defense operations with the 144 FW (CA ANG, Fresno)
 - 144 FW provided 2 officers and 16 maintenance personnel
 - 120 FW provided 3 F-16s, 2 alert pilots, a detachment commander and 16 maintenance personnel

- The ONE (Operation Noble Eagle) and ASA (Air Sovereignty Alert) mission was transferred to the 120 FW effective 1 Feb 2004
 - March ARB was chosen for these missions because of its central location in southern California and its availability of land, runway and ramps for future growth
 - These missions involve coverage over Southern California, Ports of Los Angeles and Long Beach; San Diego including all Naval facilities and Metropolitan Phoenix
 - March ARB is located near the following MOAs and training ranges: Ft. Irwin, 29 Palms and the Goldwater range.
 - Available training ranges/MOAs is necessary for this mission
 - 15 of the 144 FW personnel were sworn into the 120 FW on a 6 year AGR tour
 - 16 additional maintenance personnel are being hired by the 120 FW
 - Mission consists of 3 F-16s on alert and 34 personnel (an increase of 16 personnel from the previous configuration)

- The 120 FW detachment at March ARB has augmented their equipment to replace assets owned by the 144 FW
 - Radio Purchase: \$31,455
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- The following mission essential items are in the procurement process
 - Aircraft Tools: \$25,000
 - Debriefing Station: \$48,000
 - Have-Quick Secure UHF Radios w/ GPS: \$48,000
 - Work out Equipment: \$20,000
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- Improvements to March ARB to support ONE and ASA mission
 - Munitions Storage Building for the 120 FW
 - To be funded by 1AF (~\$300,000)
 - Provides 24 hour access to munitions
 - 452 AMW needs additional munitions storage space
 - Supported by 452 AMW, 1AF, and AFRC
 - BAK-14 Arresting Cable System

- BAK-14 is recessed in the runway and raised only for fighter ops, preventing runway damage (currently \$30,000/year)
 - Other aircraft would not have to land on/roll over cable as with current BAK-12 system
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- Due to other national security mission requirements, March ARB has the infrastructure facilities and equipment to support the 120 FW as a permanent alert site for the ONE and ASA mission in support of Homeland Security.
- There are viable and feasible property expansion opportunities available (in conjunction with the March Joint Powers Authority) to support a robust 24/7 ONE and ASA mission that meets all Homeland Security requirements.
 - If adopted, this expanded mission would not interfere with other current or programmed military aviation missions
 - An expanded air defense mission would not interfere with any planned civil aviation activities (cargo)
- Our concern as citizens and members of the IEISC is that the 120th is scheduled to lose their aircraft in FY 2007 and thus will not be able to perform the mission. No identified replacement was named in the BRAC report to continue this critical Homeland Security mission. We understand that it was covered, but the information is CLASSIFIED.

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3-4 minute informational video describing why March ARB should remain open.
(Version 4)

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We in the communities around March are taking the lead to protect this base and ensure long-term aviation access to March, which now sits in a densely populated Southern California.

The Defense Department's Office of Economic Advantage recently awarded \$102,000 to March's neighbors, the cities of Riverside, Moreno Valley and Perris, and the Riverside County Board of Supervisors for what is the largest Joint Land Use Study grant in its history.

These civilian planners are actively engaged in the JLOS process to provide guidelines and directions to deter future encroachment at March.

Recently passed California Senate Bill 1462 requires coordination between developers and base officials on sites that could potentially create encroachment. That law strengthens efforts to protect the base.

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Although the base was realigned in 1996 from an active duty Air Force base to an air reserve and guard base, its location remains strategic.

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There are four major flying units on base. The 452nd Air Mobility Wing of the Air Force Reserve is the only complete Air Mobility Wing in the U.S. Air Force. It participates in every facet of air mobility: strategic airlift, aerial delivery, air refueling, aeromedical evacuation, and participation in the Single Integration Operation Command, (SIOPs) The 452nd flies KC-135 Rs, and is concurrently converting from the venerable C-141 Starlifter to America's premier airlifter, the C-17 Globemaster III's. The first of eight C-17s is scheduled to be delivered in July 2005

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Military construction of new and upgraded facilities to support the C-17s already is in progress: Including a new hangar, a new base fire station, and renovation of many buildings on base.

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The base also has the 120th Fighter Wing of the Montana Air National Guard This unit deploys on a five-year active duty contract, flies Operation Noble Eagle and air sovereignty alert at March. These missions provide Homeland Security for LA, the valuable ports of LA and Long Beach, San Diego and the Navy's 6th Fleet, and the metropolitan Phoenix area.

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According to the fighter wing's commander, March is the only location from which he can meet his on-station time on a 24/7 basis to scramble out of March to those locations.

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U.S. Customs Service operates a Marine and Air Operations Center at March. This facility provides air and marine radar surveillance for this nation's entire southern border, and down into South America. U.S. Customs' Black Hawk helicopters and fixed-wing aircraft also fly anti-drug missions from March.

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Over 2 million square feet of ramp space exists at March which now is the key mobilization station for Southern California Marines and combat troops. Since the beginning of Iraqi Freedom, more than 100,000 Marines, sailors as well as combat troops from all the services have transited from March. Over 1,100 military and civilian planes have deployed from this base, airlifting between 8,000 to 20,000 tons of cargo

(((Aerial shot going from control tower toward the old base hospital. B-roll of buildings mentioned.

After the BRAC realignment, many military units and federal agencies found a new home on surplus Air Force property outside the designated cantonment area. These units include the 63rd Area Support Group, plus Navy and Marine Corps reserve units, base commissary and exchange, Air Force Audit Agency and the Defense Media Center.

Since the terrorist attacks of 9-11, there are obvious security problems to protect these islands of military and federal units that now act as stand-alone units. They are not counted as part of the March base complex. Although these stand-alone units enjoy many synergistic benefits to being next door to the March cantonment area, they could benefit more by being protected with one big fence around an expanded March cantonment.

Community leaders would like these islands absorbed into the main base with a restructured cantonment area being ordered in the upcoming BRAC round. It's a good move to pave the way for March's future expansion.

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Hi, I'm Congressman Ken Calvert. I'm standing in front of two Marines from Camp Pendleton who are guarding a very important training facility on surplus Air Force property just across the freeway from March Air Reserve Base.

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before they board planes at March and head off to war. The use of this property is just one example how our civilian community is a partner with the military to preserve March as a strategic base.

The video you are watching shows a base that has potential to expand from its current status as the nation's largest reserve and guard installation. Air Force, Army, Navy and Marine units use this base to deploy troops, recruit and train our nation's finest forces, and protect our borders.

March has plenty of potential, and plenty of room to grow.

(((Fade to black.

Inland Empire Installation Support Committee

July 13, 2005

The Honorable Anthony J. Principi
Chairman
2005 Defense Base Closure and Realignment Commission
2521 South Clark Street, Suite 600
Arlington, VA 22202

Library Routing Slip 2005 BRAC Commission Materials
Title of Item: Proposed Relocation Data & Video
1. Installation or Community: March Air Reserve Base
2. Source: Col. Leo Clark - Govt Relations + Leg Counsel Community
3. Certified Material? yes / no
Cert/Analyst / Provider: Tammy Lovz Date Received: 7/13/05
Analyst / H.:

Dear Chairman Principi

Re: Transmittal of March Air Reserve Base (MARB) Document and Video

As you may know, the Department of Defense has recommended that the March Air Reserve Base be realigned. This realignment would affect 71 military jobs and 40 civilian employees and results in the 163rd ANG losing 9 KC-135R tankers. Of that number, four (4) are being assigned to the 452 AMW. MARB has the highest rated military value as a reserve component tanker base (Rated 16 on USAF list). The other five (5) aircraft; two are going to McConnell AFB (Rated 15 on USAF list). One is going to McGhee Tyson ANG base (Rated 74th on USAF Military Value list). The final two aircraft are scheduled for transfer to Pease IAP (NHANG) that was rated 106th in Military Value. It appears incongruous that aircraft are being assigned from a base with high military value to those of lesser military value.

In addition, we are very concerned that the 120th Fighter Wing (MTANG), currently deployed on a five-year active duty contract to perform Operation Noble Eagle and Air Sovereignty Alert Missions at MARB are currently scheduled to lose all their F-16C's in FY07. No replacement unit was identified in the BRAC recommendations to continue performance of this important Homeland Security Mission for Southern California and the metropolitan Phoenix area. We understand that it was covered, but the information is CLASSIFIED. As concerned citizens and members of the Inland Empire Installation Support Committee (IEISC), we know you have access to this critical data. Technically, we don't care who flies the Operation Noble Eagle (ONE) mission, only that it remains intact and at March Air Reserve Base.

Therefore, we respectfully request your support in clarifying the ONE mission and review the attached video that clearly illustrates the ability for future growth at MARB, the scope of the ONE mission and the continued role that MARB plays in our nation's security.

Please contact me at (951) 680-1774 to discuss this matter. Thank you for your attention to our request.

Sincerely,



Roderic O. Ballance
Chairman
Inland Empire Installation Support Committee (IEISC)

cc:

The Honorable James H. Bilbray
The Honorable Philip Coyle
Admiral Harold W. (Hal) Gehman, Jr., (USN, Ret)
The Honorable James V. Hansen
General James T. Hill (USA, Ret)
General Lloyd W. "Fig" Newton (USAF, Ret)
The Honorable Samuel K. Skinner
Brigadier General Sue E. Turner (USAF, Ret)

3985 University Avenue • Riverside, CA 92501-3256
Tel: (951) 680-1774 • Fax (951) 784-5072
www.ieisc.org

March Air Reserve Base

“March has been an integral part of our nation’s military force structure and will remain at the forefront of meeting the nation’s war fighting and security needs – now and in the future.”

U.S. Representative Ken Calvert, R-CA

- March ARB is a joint base with the following units:
 - 452d Air Mobility Wing (C-17 and KC-135R) – USAF Reserve
 - 163d Air Refueling Wing (KC-135R) – Air National Guard
 - 120th Fighter Wing (F-16C) – Air National Guard
 - Air and Marine Operations Center (US Customs)
 - HQ 4th Air Force Reserve Command
 - Office of Special Investigation
 - 362d AF Recruiting Squadron
 - Air Force Audit Agency
 - Army Corps of Engineers
 - Defense Media Center
 - Army Reserve 653d Area Support Group
 - Navy/Marine Corps Reserve
 - Army/Air Force Exchange and Commissary
- March ARB has a 13,300 foot runway and 2 million square feet of ramp space
 - Built on bedrock to be earthquake-proof
 - Can accommodate any size aircraft, military or Civil Reserve Air Fleet¹
 - Approximately 1 million square feet of available ramp space which can accommodate additional aircraft
- Approximately 35% of logistics warehouse space available for future growth
- Since the beginning of the Global War On Terrorism (GWOT), March ARB has been the point of departure for deploying over 150,000 troops, over 26,000 tons of equipment and supplies and over 1,200 military and Civil Reserve Air Fleet flight operations
- New C-17 hangar, C-17 simulator and fire station are among the \$50 million in military construction projects completed at March ARB
- March ARB sits on 2,200 acres of land with more than 80 acres available for expansion
- Economic impact of March ARB to local community is \$423 million (2004) per year
- March ARB employs over 9,100 personnel
 - Approximately 4200 personnel are employed at the 452d Air Mobility Wing with an annual pay roll of over \$153 million
- Recruiting for Reserve and Guard units for all service is ideal with March ARB located near 27 universities, colleges, and vocational schools in Southern California
- Local community working with March ARB to reduce cost of operations
 - Recently negotiated deal with DHL to locate and share cost of airfield operations at March ARB – looking to save ~15% of cost of airfield operations
 - Working with local utility companies to reduce costs

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Title	Max	March	McConnell	Pease	McGee-Tyson
Fuel Hydrant system support mission growth	4.15	4.15	4.15	2.91	1.94
Ramp area and serviceability	7.89	7.89	5.91	1.97	0.00
Runway dimension and serviceability	9.55	9.55	9.55	8.90	6.69
Hangar Capability - Large Aircraft	3.32	1.07	1.13	0.93	0.88
Attainment/Emission Budget Growth allowance	1.35	0.16	1.35	0.81	0.81
buildable acres for industrial ops growth	1.58	0.12	0.67	0.41	0.15
Buildable acres for air ops growth	1.58	0.00	1.03	0.18	0.18
Level of mission encroachment	2.08	2.08	2.08	2.00	2.08
Fuel dispensing rate to support mobility and surge	3.85	1.00	0.87	0.89	2.03
Installations pavement quality	14.53	10.89	10.89	9.08	7.26
Ability to support large scale mobility deployments	1.65	1.65	0.00	1.24	0.00
ATC restrictions to operations	6.90	6.90	6.90	6.90	6.90
Proximity to airspace supporting mission (ASM)	39.10	30.79	31.25	13.56	24.26
area cost factor	1.25	0.70	0.86	0.72	1.07
utilities cost rating (U3C)	0.13	0.07	0.10	0.03	0.08
BAH rate	0.88	0.35	0.69	0.00	0.74
GS locality pay rate	0.25	0.01	0.25	0.09	0.25
Total	100.04	77.38	77.68	50.62	55.32
Military Utility Ranking		16	15	105	74

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THE
PMA
GROUP
GOVERNMENT RELATIONS
& LEGISLATIVE COUNSEL

LEO T. CLARK

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Headquarters U.S. Air Force

Integrity - Service - Excellence

BCEG



10 Feb 05

U.S. AIR FORCE



Agenda 10 Feb 05

0830-0845	Opening Business	Co-chairs
	Candidate Recommendations	Scenario Team Leads
0845-1015	-S121Z - Realign Luke -S129 - Close Fort Smith -S131 - Close Springfield-Beckley -S136 - Realign NAS New Orleans	
	Break	
	Candidate Recommendations	Scenario Team Leads
1030-1230	-S142 - Close Otis -S200Z - Close Ellsworth -S303J - Close Nashville -S306Z - Realign Andrews -S312J - Realign Luis Munoz	
	Lunch	
	Candidate Recommendations	Scenario Team Leads
1315-1445	-S317 - Close Pittsburgh ARS -S318 - Close Niagara -S421 - Realign March -S427 - Realign McGuire -S428 - Realign Beale -S431 - Realign Pittsburgh	
	Break	
	Candidate Recommendations	Scenario Team Leads
1500-AR	-S433 - Realign Robins -S434 - Realign McGuire -S422 - Realign Fairchild -S316 - Close Pope -S704 - Close Kulis -S420 - Close Grand Forks -S133 - Close Lambert	

Integrity - Service - Excellence



Scenario S318

MILCON Summary

MilCon for Base: **Little Rock AFB, AR** (NKAK)

All values in 2005 Constant Dollars (\$K)

FAC	Title	UM	New MilCon	New Cost*	Using Rehab Rehab Type	Rehab Cost*	Total Cost*
2113	Aircraft Corrosion Control Hangar	SF	6,301	n/a**	0 Default	n/a**	2,215
2116	Aircraft Maintenance Shop, Depot	SF	953	n/a**	0 Default	n/a**	203
2181	Installation Support Vehicle Maintenance	SF	2,199	n/a**	0 Default	n/a**	441
4421	Covered Storage Building, Installation	SF	2,525	n/a**	0 Default	n/a**	266
6100	General Administrative Building	SF	12,976	n/a**	0 Default	n/a**	2,392
7210	Enlisted Unaccompanied Personnel Housing	SF	26,839	n/a**	0 Default	n/a**	5,296
7220	Dining Facility	SF	4,969	n/a**	0 Default	n/a**	1,541
7362	Religious Education Facility	SF	9,756	n/a**	0 Default	n/a**	2,100
7371	Nursery and Child Care Facility	SF	12,424	n/a**	0 Default	n/a**	2,768
7416	Library, General Use	SF	1,526	n/a**	0 Default	n/a**	303
7417	Recreation Center	SF	7,247	n/a**	0 Default	n/a**	1,477
Total Construction Cost:							19,002
- Construction Cost Avoid:							0
Total Net Milcon Cost:							19,002



S421

Realign March ARB, Riverside, CA



Candidate #USAF-0083 / S421 Realign March ARB, Riverside, CA

Candidate Recommendation: Realign March ARB. The wing's KC-135R aircraft will be distributed to the 452d Air Mobility Wing (AFRC), March ARB, California (4 PAA); the 157th Air Refueling Wing (ANG), Pease International Tradeport AGS, New Hampshire (3 PAA); the 134th Air Refueling Wing (ANG), McGhee-Tyson ANGB, Tennessee (1 PAA) and the 22d Air Refueling Wing (Active Duty) at McConnell AFB (1 PAA).

<u>Justification</u>	<u>Military Value</u>
<ul style="list-style-type: none"> ■ Enables Future Total Force transformation ■ Consolidate tanker fleet 	<ul style="list-style-type: none"> ■ Consolidates aircraft and optimizes organization under one reserve component ■ Distributes additional force structure for optimal use at high mil value locations with efficient proximity to air refueling missions.
<u>Payback</u>	<u>Impacts</u>
<ul style="list-style-type: none"> ■ One Time Cost: \$17M ■ Net Implementation Cost: \$12M ■ Annual Recurring Savings: \$3M ■ Payback period: 100+ ■ NPV Costs: \$8M 	<ul style="list-style-type: none"> ■ Criterion 6: Total Job Change: -214 (direct: -118, indirect: -96) ROI: -0.01% ■ Criterion 7: A review of community attributes indicates no issues regarding the ability of the infrastructure of the communities to support missions, forces and personnel ■ Criterion 8: No natural infrastructure issues affecting candidate recommendation

- ✓ Strategy ✓ Capacity Analysis / Data Verification ✓ JCSG/MilDep Recommended ✓ Deconflicted w/JCSGs
 ✓ COBRA ✓ Military Value Analysis / Data Verification ✓ Criteria 6-8 Analysis ✓ Deconflicted w/MilDeps

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Scenario S421 Manpower

	FY 09					FY 10					FY 11				
	Off	Enl	Civ	Tot	Drill	Off	Enl	Civ	Tot	Drill	Off	Enl	Civ	Tot	Drill
Source 30 Sept 03 UMD	31	168	1441	1640	3992	31	168	1441	1640	3992	31	168	1441	1640	3992
Source MAJCOM-Current/Projected 30 Sep 04	30	243	1212	1485	4019	30	243	1212	1485	4019	30	243	1212	1485	4019
(S421) Add 4 KC-135R aircraft to AFRC Unit from March ANG Unit - Manpower from AFRC Base X	0	0	52	52	134	0	0	52	52	134	0	0	52	52	134
(S421) Minus 5 KC-135R to March AFRC and BAI, manpower to ANG Base X (ANG)	0	-53	-48	-101	-201	0	-53	-48	-101	-201	0	-53	-48	-101	-201
(S421) Minus 1 KC-135R Ops and Maint to McGee Tyson (ANG)	0	0	-19	-19	-28	0	0	-19	-19	-28	0	0	-19	-19	-28
(S421) Minus 1 KC-135R BOS to McGee Tyson (ANG)	0	-1	-1	-2	0	0	-1	-1	-2	0	0	-1	-1	-2	0
(S421) Minus 3 PAA KC-135R Ops and Maint to Pease (ANG)	-12	-6	-25	-43	-69	-12	-6	-25	-43	-69	-12	-6	-25	-43	-69
(S421) Minus 3 PAA KC-135R BOS to Pease (ANG)	0	-2	-3	-5	0	0	-2	-3	-5	0	0	-2	-3	-5	0
Adjusted Baseline	18	181	1168	1367	3855	18	181	1168	1367	3855	18	181	1168	1367	3855
COBRA Delta	-12	-62	-44	-118	-164	0	0	0	0	0	0	0	0	0	0

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Scenario S421

One-Time Costs

Category	Cost	Sub-Total
-----	----	-----
Construction		
Military Construction	4,141,000	
Total - Construction		4,141,000
Personnel		
Civilian RIF	665,230	
Civilian Early Retirement	177,121	
Unemployment	48,961	
Total - Personnel		891,312
Overhead		
Program Management Cost	1,441,862	
Mothball / Shutdown	17,100	
Total - Overhead		1,458,962
Moving		
Civilian Moving	5,690,019	
Military Moving	520,317	
Freight	217,929	
Information Technologies	446,200	
One-Time Moving Costs	213,000	
Total - Moving		7,087,466
Other		
Environmental Mitigation Costs	408,000	
One-Time Unique Costs	3,054,000	
Total - Other		3,462,000
Total One-Time Costs		17,040,740



Scenario S421

MILCON Summary

All values in 2005 Constant Dollars

Base Name	Total MilCon*	Milcon Cost Avoidance	Total Net Costs
-----	-----	-----	-----
March ARB	0	0	0
McGee Tyson APT AGS	397,000	0	397,000
Pease International	3,744,000	0	3,744,000
McConnell AFB	0	0	0
BASE X (AIR FORCE)	0	0	0
Totals:	4,141,000	0	4,141,000

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



Scenario S421 MILCON

MilCon for Base: **McGee Tyson APT AGS, TN** (PSXE)

All values in 2005 Constant Dollars (\$K)

FAC Title	UM	New MilCon	New Cost*	Using Rehab Type	Rehab Cost*	Total Cost*
1131 Aircraft Apron, Surfaced	SY	2,376	n/a**	0 Default	n/a**	294
1251 POL Pipeline	MI	0	n/a**	0 Default	n/a**	67
1262 POL Pump Station	SF	46	n/a**	0 Default	n/a**	34
4111 Bulk Liquid Fuel Storage	BL	33	n/a**	0 Default	n/a**	2
Total Construction Cost:						397
- Construction Cost Avoid:						0
Total Net Milcon Cost:						397



Scenario S421 MILCON

MilCon for Base: **Pease International, NH** (SZDT)

All values in 2005 Constant Dollars (\$K)

FAC Title	UM	New MilCon	New Cost*	Using Rehab Type	Rehab Cost*	Total Cost*
1131 Aircraft Apron, Surfaced	SY	7,506	n/a**	0 Default	n/a**	2,661
1251 POL Pipeline	MI	1	n/a**	0 Default	n/a**	486
1262 POL Pump Station	SF	549	n/a**	0 Default	n/a**	496
4111 Bulk Liquid Fuel Storage	BL	400	n/a**	0 Default	n/a**	34
8721 Fence and Wall	LF	1,250	n/a**	0 Default	n/a**	67
Total Construction Cost:						3,744
- Construction Cost Avoid:						0
Total Net Milcon Cost:						3,744

Headquarters U.S. Air Force

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BCEG



19 Apr 05

U.S. AIR FORCE



Agenda 19 Apr 05

0830-0900	Opening Business -Calendar Review -IEC Feedback	Co-chairs
0900-1015	Candidate Recommendations -S121Zc2 – Realign Luke -S130c1 – Realign Great Falls -S132.2c3 – Realign Mountain Home -S133c2 – Realign Lambert	Scenario Team Leads
Break		
1030-1230	Candidate Recommendations -S137.3 – Realign Eielson -S141.2c1 – Realign Elmendorf -S200.2 – Close Ellsworth -S311Zc2 – Realign Reno-Tahoe -S316.2 – Realign Pope -S317.1 – Close Pittsburgh (ARS) -S318.3c1 – Close Niagara -S319.1 – Close Mansfield Lahm -S320c2 – Realign Schenectady	Scenario Team Leads
Lunch		
1330-A/R	Candidate Recommendations -S321.3c2 – Realign Yeager -S324 – Close Gen Mitchell ARS -S325 – Realign Boise -S704.2 – Realign Kulis -S421c2 – Realign March -S436c2 – Realign Birmingham -S432.1c2 – Realign Portland -S439c2 – Realign Pittsburgh (AGS) -S440c2 – Realign Dover -S800Jc1 – Close Onizuka -S907c1 – CIRF – F-15 Avionics	Scenario Team Leads

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**Candidate #USAF 0083V2 / 421c2
Realign March ARB, Riverside, CA**



***Candidate #USAF 0083V2 / 421c2
Errata***

- **Manpower moves from March in FY07**
- **Moving Ops and Mx with the aircraft**



Candidate #USAF-0083V2 / S421c2 Realign March ARB, Riverside, CA

Candidate Recommendation: Realign March ARB. The 163d Air Refueling Wing (ANG) KC-135R aircraft will be distributed to the 452d Air Mobility Wing (AFRC), March ARB, California (4 PAA); the 157th Air Refueling Wing (ANG), Pease International Tradeport AGS, New Hampshire (3 PAA); the 134th Air Refueling Wing (ANG), McGhee-Tyson ANGB, Tennessee (1 PAA) and the 22d Air Refueling Wing (Active Duty) at McConnell AFB (1 PAA). The 163d ECS remains in place.

Justification		Military Value	
<ul style="list-style-type: none"> Realigns all March operations under AFRC—streamlines leadership and optimizes unit efficiency Distributes portion of March's KC-135R ANG assets to utilize excess capacity and increase efficiency and capability at Pease, McGhee Tyson and McConnell Optimally sizes squadrons at McConnell – increases efficiency and capability 		<ul style="list-style-type: none"> Retains March ARB (16) as highest rated mil val reserve component tanker base; aligns some force structure to McConnell (15), McGhee Tyson (74) and Pease (105) Military judgment: Pease provides essential support to Northeast/European tanker task force; remaining single tanker to McGhee Tyson robusts squadron size 	
Payback		Impacts	
<ul style="list-style-type: none"> One Time Cost: \$11M Net Implementation Cost: \$1.9M Annual Recurring Savings: \$1.8M Payback period: 5 yrs/2013 NPV Savings: \$15M 		<ul style="list-style-type: none"> Criterion 6: Total Job Change: -201 (direct: -111, indirect: -90) ROI: -0.01% Criterion 7: A review of community attributes indicates no issues regarding the ability of the infrastructure of the communities to support missions, forces and personnel Criterion 8: No natural infrastructure issues affecting candidate recommendation 	

- | | | | |
|------------|---|---------------------------|--------------------------|
| ✓ Strategy | ✓ Capacity Analysis / Data Verification | ✓ JCSG/MilDep Recommended | ✓ Deconflicted w/JCSGs |
| ✓ COBRA | ✓ Military Value Analysis / Data Verification | ✓ Criteria 6-8 Analysis | ✓ Deconflicted w/MilDeps |

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Candidate #USAF 0083V2 / 421c2 March Manpower

SCENARIO #	S421c2		6-Apr-05												
	BRAC ID: 87					BASE NAME: March ARS									
Source	FY 05					FY 06					FY 07				
	Off	Enl	Civ	Tot	Drill	Off	Enl	Civ	Tot	Drill	Off	Enl	Civ	Tot	Drill
Source 30 Sept 03 UMD	36	169	1370	1575	4124	31	158	1410	1599	3992	31	168	1441	1640	3992
Source MAJCOM-Current/Projected 30 Sep 04	33	187	1203	1423	4060	30	212	1203	1445	4041	30	243	1212	1485	4019
(421c2) Minus 4 KC-135R to March AFRC, manpower to ANG Base X (ANG)											0	-53	-29	-82	-173
(421c2) Minus 1 KC-135R to AD at McConnell, manpower to ANG Base X (ANG)											0	0	-19	-19	-28
(421c2) Minus 1 KC-135R Ops and Maint to McGee Tyson (ANG)											0	0	-19	-19	-28
(421c2) Minus 3 PAA KC-135R Ops and Maint to Pease (ANG)											-12	-6	-25	-43	-69
(S421c2) Add 4 KC-135R aircraft to AFRC Unit from March ANG Unit - Manpower from AFRC Base X											0	0	52	52	134
Adjusted Baseline	33	187	1203	1423	4060	30	212	1203	1445	4041	0	18	184	1172	1374
COBRA Delta	0	0	0	0	0	0	0	0	0	0	-32	-59	-40	-111	-164

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Candidate #USAF 0083V2 / 421c2 Pease Manpower

		SCENARIO #		S421c2		5-Apr-05															
BRAC ID: 141		BASE NAME:		Pease																	
		FY 05					FY 06					FY 07					FY 08				
		Off	Enl	Civ	Tot	Drill	Off	Enl	Civ	Tot	Drill	Off	Enl	Civ	Tot	Drill	Off	Enl	Civ	Tot	Drill
Source 30 Sept 03 UMD		13	94	230	337	860	13	94	230	337	855	13	94	229	336	855	13	94	229	336	855
Source MAJCOM-Current/Projected 30 Sep 04		13	99	234	346	855	13	99	234	346	850	13	99	234	346	850	13	99	234	346	850
(421c2) Plus 3 PAA KC135R Ops and Mx from March (ANG)												12	6	25	43	69	12	6	25	43	69
(421c2) Plus 3 PAA KC135R from March, BOS from ANG Base X (ANG)												0	2	3	5	0	0	2	3	5	0
Adjusted Baseline		13	99	234	346	855	13	99	234	346	850	25	107	262	394	919	25	107	262	394	919
COBRA Delta		0	0	0	0	0	0	0	0	0	0	12	8	28	48	69	0	0	0	0	0

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Candidate #USAF 0083V2 / 421c2 McConnell Manpower

		FY 09					FY 10					FY 11				
		Off	Enl	Civ	Tot	Drill	Off	Enl	Civ	Tot	Drill	Off	Enl	Civ	Tot	Drill
Source 30 Sept 03 UMD		334	2219	865	3418	1530	334	2219	865	3418	1530	334	2219	865	3418	1530
Source MAJCOM-Current/Projected 30 Sep 04		330	2313	877	3520	1527	330	2313	877	3520	1534	330	2313	877	3520	1534
(S420c2) Realign 8 PAA KC-135R from Grand Forks (AD)		43	261	5	309		43	261	5	309		43	261	5	309	
(S420c2) Realign BOS from Grand Forks (AD)		1	13	11	25		1	13	11	25		1	13	11	25	
(420c2) Minus 9 PAA ANG KC-135R Ops and Maint to Forbes (ANG)		-9	-7	-165	-181	-360	-9	-7	-165	-181	-360	-9	-7	-165	-181	-360
(420c2) Minus 9 PAA ANG KC-135R BOS to Forbes (ANG)		-1	-10	-10	-21	0	-1	-10	-10	-21	0	-1	-10	-10	-21	0
(420c2) Minus 9 PAA ANG KC-135R Forbes, remaining Ops and Maint to ANG Base X (ANG)		0	-16	-9	-25	-176	0	-16	-9	-25	-176	0	-16	-9	-25	-176
(420c2) Minus 9 PAA ANG KC-135R Forbes, remaining BOS to ANG Base X (ANG)		0	-2	-3	-5	0	0	-2	-3	-5	0	0	-2	-3	-5	0
(S433c2) Realign 12 PAA KC-135R from Robins (AD)		82	432	15	529		82	432	15	529		82	432	15	529	
(S433c2) Realign BOS from Robins (AD)		3	21	18	42		3	21	18	42		3	21	18	42	
(S421c2) Realign 1 PAA KC-135R from March (Manpower from AD BRAC Base X)		5	27	0	32		5	27	0	32		5	27	0	32	
(S421c2) Realign BOS from AD BRAC Base X (S901c1) Plus Standard Air Munitions Package (STAMP) Standard tank, Rack, Adaptor and Pylon Packages (STRAAP) from Medina Annex; mission manpower transitions from AD to ANG at gaining location, so manpower comes from ANG Base X (S901c1) AD BOS required with new mission from Medina (Manpower from AD BRAC Base X)		0	2	1	3		0	2	1	3		0	2	1	3	
		0	65	0	65	190	0	65	0	65	190	0	65	0	65	190
		0	5	4	9	0	0	5	4	9	0	0	5	4	9	0
Adjusted Baseline		454	3104	744	4302	1181	454	3104	744	4302	1188	454	3104	744	4302	1188
COBRA Delta		119	692	-138	673	-536	0	0	0	0	0	0	0	0	0	0

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Candidate #USAF 0083V2 / 421c2 McGhee Manpower

SCENARIO #		S107Jc2, S421c2, S428.2, S436c2, S437c2				Version 2 - 14 Apr 05															
BRAC ID: 159		BASE NAME:		McGhee Tyson																	
		FY 05				FY 06				FY 07				FY 08							
		Off	Enl	Gv	Tot	Drill	Off	Enl	Gv	Tot	Drill	Off	Enl	Gv	Tot	Drill	Off	Enl	Gv	Tot	Drill
Source 30 Sept 03 UMD		32	142	254	428	982	32	142	254	428	977	32	142	254	428	977	32	142	254	428	977
Source MAJCOM-Current/Projected 30 Sep 04		30	142	254	428	986	30	142	254	428	981	30	142	254	428	981	30	142	254	428	981
(421c2) Plus 1 KC-135R Ops and Maint from March (ANG)												0	0	19	19	28	0	0	19	19	28
(421c2) Plus 1 KC-135R from March, BOS from ANG Base X (ANG)												0	1	1	2	0	0	1	1	2	0
(436c2) Non-BRAC Programmatic - Retire 8 KC-135E Ops and Mx (ANG)												-3	-22	-144	-169	-342	-3	-22	-144	-169	-342
(436c2) Non-BRAC Programmatic - Retire 8 KC-135E BOS (ANG)												-1	-10	-10	-21	0	-1	-10	-10	-21	0
(436c2) Plus 4 PAA KC-135R Ops and Maint from Birmingham (ANG)												10	31	52	93	177	10	31	52	93	177
(436c2) Plus 4 PAA KC-135R BOS from Birmingham (ANG)												1	4	6	11	0	1	4	6	11	0
(437c2) Plus 3 KC-135R Ops and Maint from Key Field (ANG)																	5	0	53	58	76
(437c2) Plus 3 KC-135R BOS from Key Field (ANG)																	0	3	3	6	0
(107Jc2) Non BRAC Programmatic - Fire Fighters Realigned from Hector (ANG)												0	0	0	0	12	0	0	0	0	12
Adjusted Baseline		30	142	254	428	986	30	142	254	428	981	37	146	178	361	856	42	149	234	425	932
COBRA Delta		0	0	0	0	0	0	0	0	0	0	11	36	78	125	205	5	3	56	64	76



Candidate #USAF 0083V2 / 421c2 One-Time Cost

(All values in 2005 Constant Dollars)

Category	Cost	Sub-Total
-----	-----	-----
Construction		
Military Construction	4,148,000	
Total - Construction		4,148,000
Personnel		
Civilian RIF	186,402	
Civilian Early Retirement	51,913	
Eliminated Military PCS	211,921	
Unemployment	13,353	
Total - Personnel		463,589
Overhead		
Program Management Cost	601,604	
Total - Overhead		601,604
Moving		
Civilian Moving	1,478,470	
Military Moving	67,198	
Freight	80,200	
Information Technologies	295,200	
One-Time Moving Costs	196,000	
Total - Moving		2,117,068
Other		
Environmental Mitigation Costs	387,000	
One-Time Unique Costs	3,054,000	
Total - Other		3,441,000
-----	-----	-----
Total One-Time Costs		10,771,261



Candidate #USAF 0083V2 / 421c2 MILCON Summary

All values in 2005 Constant Dollars

Base Name	Total MilCon*	Milcon Cost Avoidance	Total Net Costs
March ARB	0	0	0
McGee Tyson APT AGS	395,000	0	395,000
Pease International	3,729,000	0	3,729,000
McConnell AFB	24,000	0	24,000
BASE X (AIR FORCE)	0	0	0
Totals:	4,148,000	0	4,148,000

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



Candidate #USAF 0083V2 / 421c2 MILCON

MilCon for Base: **McGee Tyson APT AGS, TN** (PSXE)

All values in 2005 Constant Dollars (\$K)

FAC Title	UM	New MilCon	New Cost*	Using Rehab Rehab Type	Rehab Cost*	Total Cost*
1131 Aircraft Apron, Surfaced	SY	2,388	n/a**	0 Default	n/a**	292
1251 POL Pipeline	MI	0	n/a**	0 Default	n/a**	66
1262 POL Pump Station	SF	47	n/a**	0 Default	n/a**	35
4111 Bulk Liquid Fuel Storage	BL	34	n/a**	0 Default	n/a**	2
Total Construction Cost:						395
- Construction Cost Avoid:						0
Total Net Milcon Cost:						395



Candidate #USAF 0083V2 / 421c2 MILCON

MilCon for Base: **Pease International, NH** (SZDT)

All values in 2005 Constant Dollars (\$K)

FAC Title	UM	New MilCon	New Cost*	Using Rehab Rehab Type	Rehab Cost*	Total Cost*
1131 Aircraft Apron, Surfaced	SY	7,506	n/a**	15,400 Default	n/a**	2,572
1251 POL Pipeline	MI	1	n/a**	0 Default	n/a**	479
1262 POL Pump Station	SF	549	n/a**	0 Default	n/a**	489
4111 Bulk Liquid Fuel Storage	BL	400	n/a**	0 Default	n/a**	33
8721 Fence and Wall	LF	1,250	n/a**	0 Default	n/a**	66
1211 Aircraft Fueling Facility	GM	0	n/a**	600 Default	n/a**	90
Total Construction Cost:						3,729
- Construction Cost Avoid:						0
Total Net Milcon Cost:						3,729



Candidate #USAF 0083V2 / 421c2 MILCON

MilCon for Base: **McConnell AFB, KS** (PRQE)

All values in 2005 Constant Dollars (\$K)

FAC Title	UM	New MilCon	New Cost*	Using Rehab Rehab Type	Rehab Cost*	Total Cost*
7110 Family Housing Dwelling	SF	151	n/a**	0 Default	n/a**	24
Total Construction Cost:						24
- Construction Cost Avoid:						0
Total Net Milcon Cost:						24

Title	Max	March	McConnell	Pease	McGee-Tyson
Fuel Hydrant system support mission growth	4.15	4.15	4.15	2.91	1.94
Ramp area and serviceability	7.89	7.89	5.91	1.97	0.00
Runway dimension and serviceability	9.55	9.55	9.55	8.90	6.69
Hangar Capability - Large Aircraft	3.32	1.07	1.13	0.93	0.88
Attainment/Emission Budget Growth allowance	1.35	0.16	1.35	0.81	0.81
buildable acres for industrial ops growth	1.58	0.12	0.67	0.41	0.15
Buildable acres for air ops growth	1.58	0.00	1.03	0.18	0.18
Level of mission encroachment	2.08	2.08	2.08	2.00	2.08
Fuel dispensing rate to support mobility and surge	3.85	1.00	0.87	0.89	2.03
Installations pavement quality	14.53	10.89	10.89	9.08	7.26
Ability to support large scale mobility deployments	1.65	1.65	0.00	1.24	0.00
ATC restrictions to operations	6.90	6.90	6.90	6.90	6.90
Proximity to airspace supporting mission (ASM)	39.10	30.79	31.25	13.56	24.26
area cost factor	1.25	0.70	0.86	0.72	1.07
utilities cost rating (U3C)	0.13	0.07	0.10	0.03	0.08
BAH rate	0.88	0.35	0.69	0.00	0.74
GS locality pay rate	0.25	0.01	0.25	0.09	0.25
Total	100.04	77.38	77.68	50.62	55.32
Military Utility Ranking		16	15	105	74

Tanker MCIs

Base	Overall MCI Score	Crt1 Current and Future Mission	Crt 2 Condition of Infrastructure
Hill AFB	88.93	99.52	80.45
Mountain Home AFB	86.64	92.21	84.00
Barksdale AFB	84.14	72.18	94.69
Tinker AFB	84.08	80.89	88.58
Ellsworth AFB	83.73	79.40	91.15
Altus AFB	83.40	80.54	85.88
Whiteman AFB	81.45	78.08	86.09
Edwards AFB	81.12	84.75	82.92
Little Rock AFB	79.98	76.28	85.52
Beale AFB	79.37	84.02	80.76
Davis-Monthan AFB	79.05	80.31	84.66
Dyess AFB	78.56	74.37	86.16
Holloman AFB	78.13	81.36	80.08
Nellis AFB	77.70	94.53	66.40
McConnell AFB	77.69	82.94	81.22
March ARB	77.38	81.93	85.82
Fairchild AFB	77.09	72.66	82.72
Robins AFB	75.60	63.00	89.98
Eglin AFB	75.28	60.95	84.29
Peterson AFB	75.05	93.46	64.75
Travis AFB	74.99	81.40	79.81
Kirtland AFB	74.73	89.43	62.56
Wright-Patterson AFB	71.83	67.62	76.85
Salt Lake City IAP AGS	71.78	99.99	51.62
Seymour Johnson AFB	71.70	59.11	84.52
Charleston AFB	70.87	59.14	81.06
Boise Air Terminal AGS	70.84	90.42	56.46
Luke AFB	69.18	86.37	57.31
McChord AFB	69.09	68.00	77.48
Columbus AFB	68.31	70.51	67.62
Grissom ARB	68.23	69.06	70.93
Andrews AFB	68.00	58.11	81.68
Sheppard AFB	67.40	78.60	61.59
Offutt AFB	66.72	77.57	59.64
Forbes Field AGS	66.07	79.78	57.88
MacDill AFB	65.67	51.49	77.47
Phoenix Sky Harbor IAP AGS	65.27	86.26	50.26
Scott AFB	65.12	74.93	61.26
Randolph AFB	64.12	64.12	66.76
Grand Forks AFB	63.52	56.57	71.92
Langley AFB	63.03	57.36	65.58
Pope AFB	62.76	60.63	68.47
Minot AFB	62.74	58.49	66.86
Dover AFB	62.73	55.42	75.22
Buckley AFB	62.71	93.34	32.62
Reno-Taho IAP AGS	61.85	89.09	40.95
Lincoln MAP AGS	61.82	78.42	51.82
Rickenbacker IAP AGS	61.40	65.89	65.91

Tanker MCIs

Tucson IAP AGS	60.48	80.11	45.15
Hurlburt Field APT AGS	60.43	61.59	61.23
Will Rogers World APT AGS	60.37	80.92	42.56
Memphis IAP AGS	59.92	74.51	49.58
Westover ARB	59.47	48.01	70.56
Tulsa IAP AGS	58.73	80.13	42.97
Indian Springs AGS	58.33	94.54	25.27
Lackland AFB	58.30	63.64	51.42
Selfridge ANGB	58.24	61.13	59.15
Vance AFB	58.04	82.76	37.28
Eielson AFB	57.97	32.56	85.07
Carswell ARS, NAS Fort Worth Joint Reserve	57.81	74.31	46.62
McGuire AFB	57.57	48.27	68.82
Homestead ARS	57.34	44.92	75.28
Birmingham IAP AGS	57.30	68.27	48.57
Elmendorf AFB	56.87	28.53	85.70
Channel Islands AGS	56.85	78.66	41.23
Cheyenne APT AGS	56.81	91.56	22.36
Sioux Gateway APT AGS	56.36	75.00	39.74
Cannon AFB	56.18	78.23	33.60
Rosecrans Memorial APT AGS	55.88	78.12	34.56
Great Falls IAP AGS	55.65	74.92	39.74
Portland IAP AGS	55.44	72.49	40.93
Tyndall AFB	55.38	59.52	47.49
Joe Foss Field AGS	55.36	72.32	40.66
McGee Tyson APT AGS	55.32	67.74	45.40
Laughlin AFB	55.16	63.93	43.69
Fort Smith Regional APT AGS	55.12	78.51	33.69
Shaw AFB	55.08	61.15	43.70
Andersen AFB	54.84	29.24	83.17
Louisville IAP AGS	54.72	70.69	43.00
Pittsburgh IAP AGS	54.44	61.23	51.76
Vandenberg AFB	54.38	77.04	30.06
Pittsburgh IAP ARS	54.31	61.23	51.25
Nashville IAP AGS	54.26	71.02	39.82
Dobbins ARB	54.14	66.47	47.28
Moody AFB	54.03	59.01	41.86
Gen Mitchell IAP AGS	54.00	65.19	47.02
Hickam AFB	53.88	27.64	82.88
Greater Peoria Regional APT AGS	53.49	72.03	38.78
Moffett Federal Field AGS	53.24	79.61	36.78
Jackson IAP AGS	53.23	69.01	39.25
Des Moines IAP AGS	53.07	74.03	36.32
Key Field AGS	52.83	67.84	38.01
Fort Wayne IAP AGS	52.43	67.45	43.01
Klamath Falls IAP AGS	52.43	82.68	25.73
Maxwell AFB	52.43	66.01	43.23
Capital APT AGS	51.84	73.35	33.93
Toledo Express APT AGS	51.84	64.39	39.90
Lambert - St. Louis IAP AGS	51.61	65.57	44.73
Hulman Regional APT AGS	51.48	71.51	36.24
Fresno Air Terminal AGS	51.39	85.52	23.31

Tanker MCIs

Minn/St Paul IAP ARS	51.23	74.51	49.58
W.K. Kellogg APT AGS	50.93	64.59	38.12
Ellington Field AGS	50.71	63.39	36.23
Stewart IAP AGS	50.69	51.20	56.08
Pease International Trade Port AGS	50.62	44.47	62.12
Dane County Regional - Truax Field AGS	50.41	65.86	40.65
Harrisburg IAP AGS	50.31	56.64	51.56
Gen Mitchell IAP ARS	49.94	65.19	37.98
McEntire AGS	48.51	61.71	36.33
Charlotte/Douglas IAP AGS	48.25	63.42	38.04
Jacksonville IAP AGS	48.21	56.00	42.90
Mansfield Lahm MAP AGS	48.06	64.19	35.32
Youngstown-Warren Regional APT ARS	47.72	60.63	36.35
NAS New Orleans ARS	47.42	61.63	38.25
Savannah IAP AGS	47.07	59.00	36.99
Hector IAP AGS	46.78	59.60	37.43
Richmond IAP AGS	45.32	59.11	36.18
Springfield-Beckley MPT AGS	44.70	67.12	23.06
Niagra Falls IAP ARS	44.63	54.98	33.64
Dannelly Field AGS	44.06	65.89	23.12
Otis AGB	43.12	45.26	39.11
Keesler AFB	43.02	63.09	22.60
Bangor IAP AGS	42.68	40.25	42.64
Ewvra Sheppard AGS	42.59	59.27	27.36
Arnold AFS	42.15	70.13	7.00
Patrick AFB	41.56	50.29	28.31
New Castle County Airport AGS	41.41	55.29	32.16
Burlington IAP AGS	41.20	46.06	39.08
Yeager APT AGS	41.01	64.84	15.79
Willow Grove ARS, NAS Willow Grove Joint Reserve	40.94	54.02	33.48
Bradley IAP AGS	40.49	48.55	37.40
Duluth IAP AGS	40.43	56.14	24.58
Hancock Field AGS	39.44	51.58	23.11
Quonset State APT AGS	39.40	46.74	34.19
Barnes MPT AGS	39.35	48.39	31.90
Kulis AGS	36.28	33.64	46.74
F. S. Gabreski APT AGS	34.63	49.60	23.18
Schenectady County APT AGS	34.42	49.21	18.36
Martin State APT AGS	32.26	57.08	7.10
Hanscom AFB	32.23	45.77	23.36
Luis Munoz Marin IAP AGS	30.75	25.25	43.01
Atlantic City IAP AGS	30.34	23.51	36.93
Goodfellow AFB	7.08	0.00	5.00
Brooks City-Base	6.95	0.00	5.00
Malmstrom AFB	6.58	0.00	5.00
Francis E. Warren AFB	6.04	0.00	5.00
Schriever AFB	5.66	0.00	5.00
Rome Laboratory	5.01	0.00	5.00
Air Reserve Personnel Center (ARPC)	4.78	0.00	5.00
United States Air Force Academy	4.74	0.00	5.00
Cheyenne Mountain AFS	4.43	0.00	5.00
Bolling AFB	3.83	0.00	5.00

Tanker MCIs

Onizuka AFS	3.31	0.00	5.00
Los Angeles AFB	2.84	0.00	5.00

Tanker MCIs

Crt 3 Contingency, Mobilization, Future Forces	Crt4 Cost of Ops/Manpower
78.08	77.82
76.49	68.58
96.22	80.79
79.63	85.80
73.51	81.32
86.92	80.99
79.37	74.42
67.02	40.87
72.03	88.12
61.31	42.78
51.76	71.89
66.52	77.64
55.87	75.23
55.55	43.94
39.27	75.83
29.27	45.41
74.88	73.99
70.89	87.45
100.00	90.39
36.44	61.91
38.16	24.22
58.87	69.56
69.80	74.09
25.67	71.72
72.95	85.03
81.35	75.49
38.64	78.40
39.54	68.92
42.30	57.08
54.48	94.97
51.91	73.25
63.29	41.74
36.82	80.04
44.57	73.20
34.24	77.32
79.24	76.56
30.23	68.42
38.75	53.95
49.53	78.51
56.70	79.09
74.88	77.20
42.95	86.08
62.42	73.42
44.02	64.93
48.89	53.78
26.94	47.47
24.57	71.20
19.60	71.11

Tanker MCIs

30.67	72.70
45.12	87.18
33.68	84.80
31.81	75.57
68.84	49.23
20.12	81.03
32.54	43.94
57.33	78.33
45.09	42.51
23.09	87.75
72.75	16.54
24.62	72.70
58.82	37.26
40.97	53.65
37.93	77.96
79.56	8.86
29.84	23.21
36.87	68.70
33.71	79.98
44.10	73.61
35.55	81.65
31.40	62.23
35.96	60.13
60.22	90.98
32.71	77.92
31.72	86.02
55.16	84.09
28.06	88.84
66.66	85.64
68.66	0.00
24.00	78.10
30.56	69.30
56.57	32.48
31.29	69.59
30.93	78.64
22.46	67.58
72.35	91.37
30.15	59.38
67.43	1.12
29.13	54.24
9.71	15.79
30.78	84.66
20.30	76.75
39.62	75.40
15.69	79.19
19.92	69.01
19.87	85.68
25.93	57.09
38.40	72.76
14.02	59.70
14.88	82.24
12.05	46.99

Tanker MCIs

31.81	75.57
38.40	62.57
49.75	61.20
37.76	3.65
35.33	33.80
16.90	61.55
11.19	69.50
26.93	59.94
29.05	85.19
12.47	81.48
27.04	77.87
20.17	74.01
28.94	73.97
13.82	72.63
24.63	84.65
20.05	72.60
12.44	75.18
24.55	71.74
39.93	55.66
20.17	85.51
50.17	42.04
24.86	85.30
48.67	63.61
21.46	73.39
47.37	89.61
50.05	66.83
14.43	47.53
23.55	57.07
25.96	81.12
12.05	39.74
15.61	43.06
27.40	66.75
44.63	66.32
27.04	40.59
26.65	47.17
12.09	8.01
14.50	29.52
26.56	60.05
15.79	58.71
8.47	25.42
9.27	14.06
31.71	41.33
29.25	82.66
29.25	77.48
29.25	62.67
22.03	70.53
21.94	55.46
13.51	63.10
13.51	53.84
11.19	61.68
9.56	55.61
7.29	40.62

Tanker MCIs

8.11	16.85
1.56	23.81