



BRAC Commission

JUL 14 2005

Received

**State of New Jersey**  
DEPARTMENT OF MILITARY AND VETERANS AFFAIRS  
POST OFFICE BOX 340  
TRENTON, NEW JERSEY 08625-0340

RICHARD J. CODEY  
*Acting Governor*  
*Commander-in-Chief*

12 July 2005

☆☆  
GLENN K. RIETH  
*Major General*  
*The Adjutant General*

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

Dear Mr. Principi:

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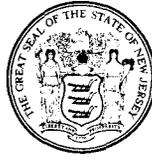
Please accept my gratitude for your service in the cause of strengthening our nation's defense. If I may be of any further service, please do not hesitate to contact me at (609) 530-6914.

Sincerely,

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WAYNE E. GIRARDET, PH.D.  
Director, Government Relations

Enclosure



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The Honorable Jim Hansen  
Defense Base Closure and Realignment Commission  
2521 South Clark Street, Suite 600  
Arlington, VA 22202

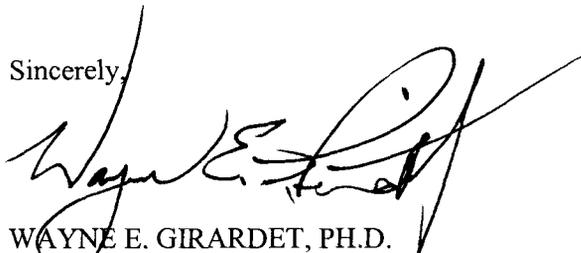
Dear Mr. Hansen:

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Brigadier General Sue Ellen Turner, USAF (Ret)  
Defense Base Closure and Realignment Commission  
2521 South Clark Street, Suite 600  
Arlington, VA 22202

Dear General Turner:

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Admiral Harold W. Gehman Jr., USN (Ret)  
Defense Base Closure and Realignment Commission  
2521 South Clark Street, Suite 600  
Arlington, VA 22202

Dear Admiral Gehman:

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The Honorable James H. Bilbray  
Defense Base Closure and Realignment Commission  
2521 South Clark Street, Suite 600  
Arlington, VA 22202

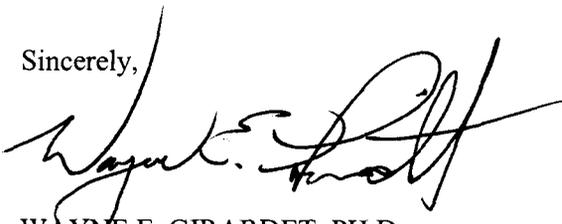
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The Honorable Samuel K. Skinner  
Defense Base Closure and Realignment Commission  
2521 South Clark Street, Suite 600  
Arlington, VA 22202

Dear Mr. Skinner:

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General James T. Hill, USA (Ret)  
Defense Base Closure and Realignment Commission  
2521 South Clark Street, Suite 600  
Arlington, VA 22202

Dear General Hill:

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Charles Battaglia, Executive Director  
Defense Base Closure and Realignment Commission  
2521 South Clark Street, Suite 600  
Arlington, VA 22202

Dear Mr. Battaglia:

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General Lloyd Newton, USAF (Ret)  
Defense Base Closure and Realignment Commission  
2521 South Clark Street, Suite 600  
Arlington, VA 22202

Dear General Newton:

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The Honorable Philip E. Coyle III  
Defense Base Closure and Realignment Commission  
2521 South Clark Street, Suite 600  
Arlington, VA 22202

Dear Mr. Coyle:

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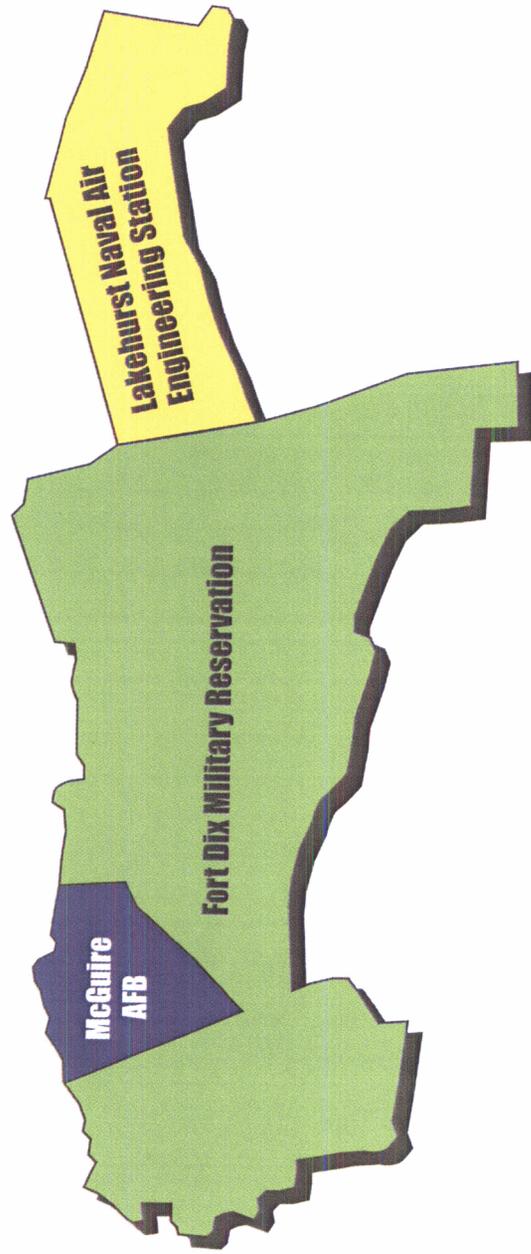
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# The Future of Fort Dix, McGuire AFB, and NAEES Lakehurst



By:

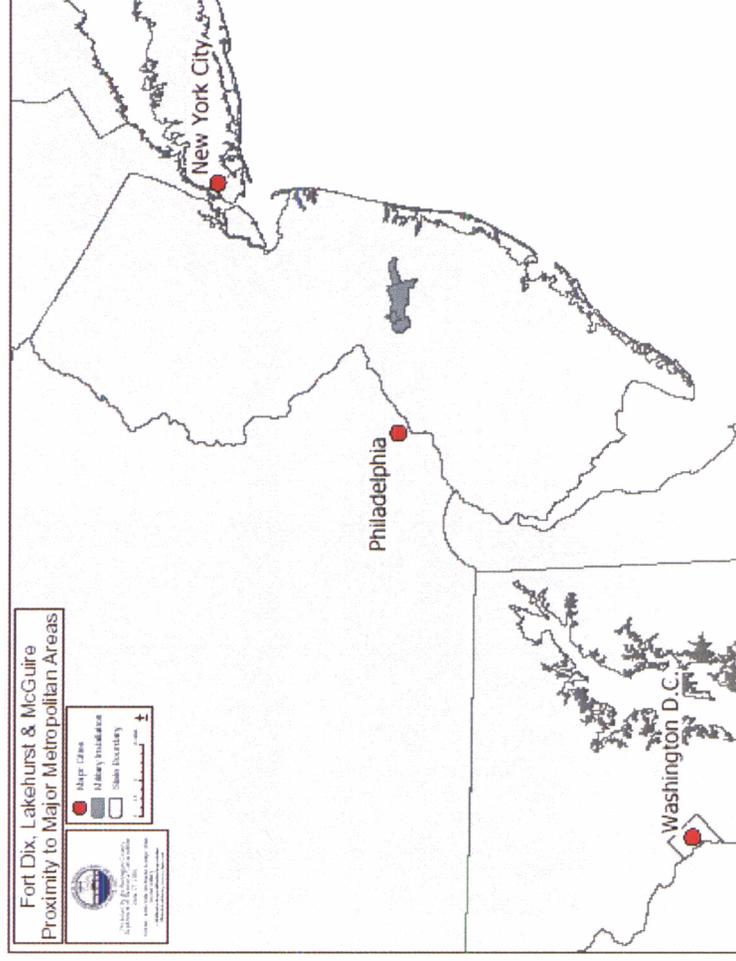
Congressman Jim Saxton (NJ-03)

# Agenda

- Introduction
- Situational Awareness
- Modern Infrastructure
- Air and Land Considerations
- 108<sup>th</sup> Air Refueling Wing and Navy Plans
- Conclusion

# Premier Location

- Located 70 miles from New York
- Located 37 miles from Philadelphia
- Located 150 miles from Washington DC



# America's Only Three-Service Joint Installation

- 42,000 Acres of Contiguous DoD land
- Supports Active, Guard, and Reserve Units
- Close working relationship



# Modern Installations

Close to \$750M of investment enhanced the military value of the installations

- New Facilities
- Fiber Optic Network
- Postured for current and future training

# No Significant Air Traffic Congestion

- Mr. Ed Spring, former FAA executive, who worked as Chief Controller (Air Traffic Manager) of Philadelphia Int'l Airport and Manager of the FAA Eastern Region's air traffic division studied the air traffic issues relating to McGuire.
  - The high volume of air traffic does not adversely impact the mission
  - The current air traffic could be tripled without additional staffing or resources
  - Adding the Willow Grove aircrafts has no significant impact

# No encroachment issues

- Surrounded by 1,217,800 acres of protected land
  - State owned land
  - Pinelands Designation
  - County Farmland Preservation

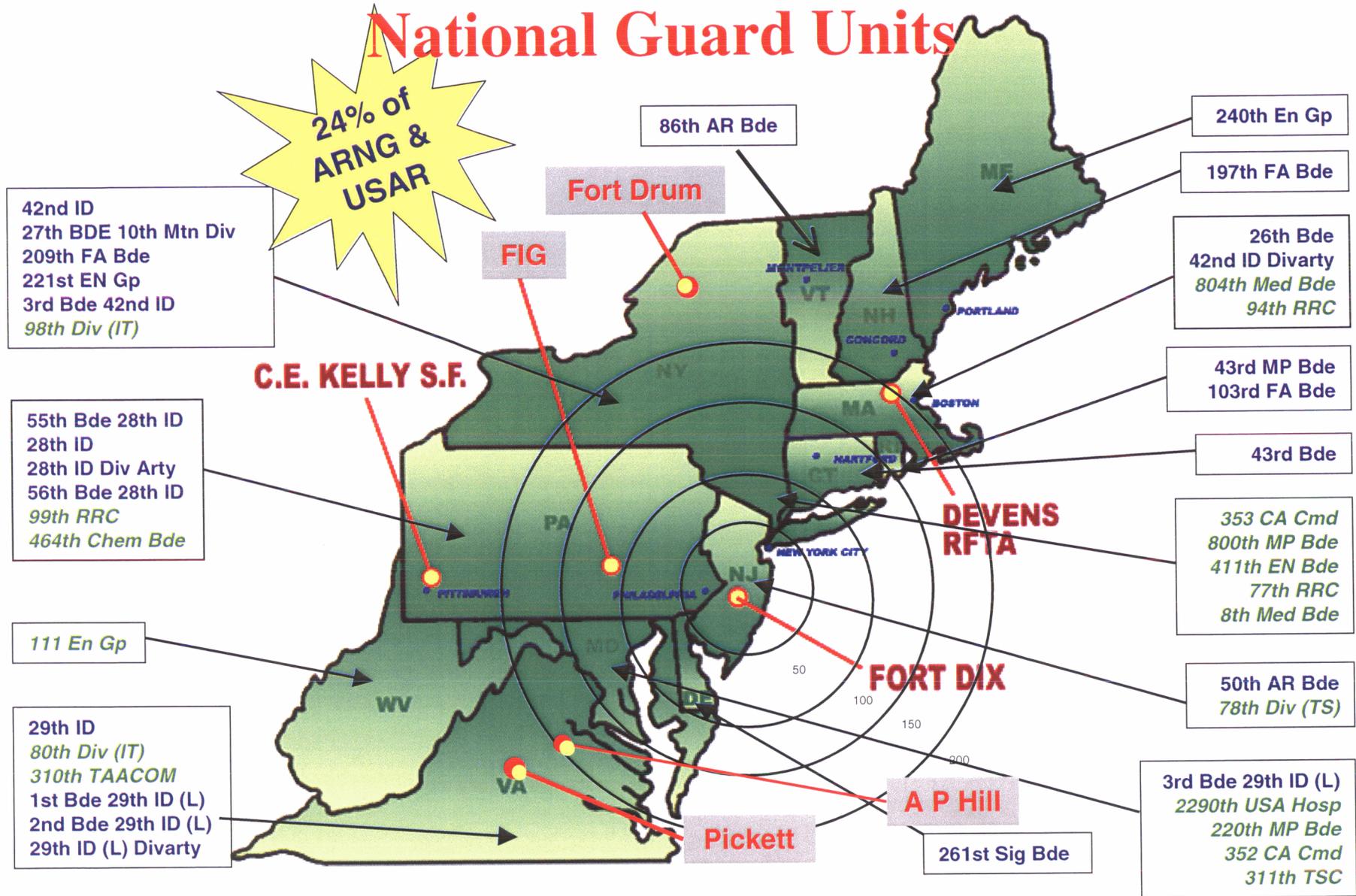
# 108<sup>th</sup> ARW Should be Kept

- Justification
  - Recruitment & Retention
  - 108<sup>th</sup> Tanker Campus
  - Ideal Location
  
- Assign 12 KC-135R models to the 108<sup>th</sup> and accept the Willow Grove units and aircraft
  - Retires aging force structure
  - Facilitates Willow Grove move

# Recruitment and Retention

- Ability is tied to location
  - Easier for units located near Active Bases
  - NJ Regional population provides a manpower pool
- With 12 KC-135R models, the 108<sup>th</sup> manpower rating would be 100%

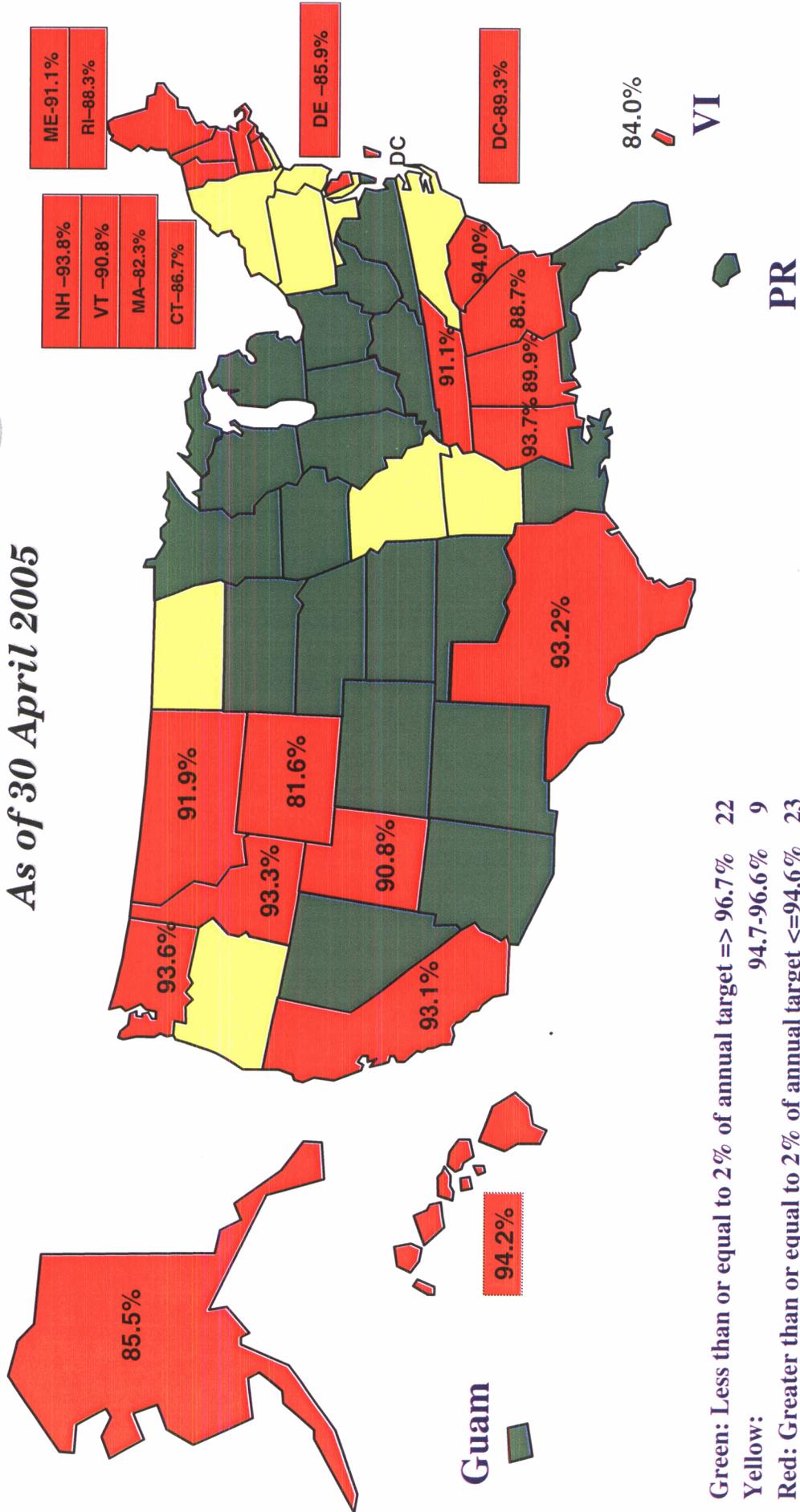
# Regional Army Reserve & National Guard Units



**TOTAL ARNG authorized strength 85,117 / 372 units**  
**TOTAL USAR authorized strength 46,259 / 438 units**

# ANG End Strength

As of 30 April 2005



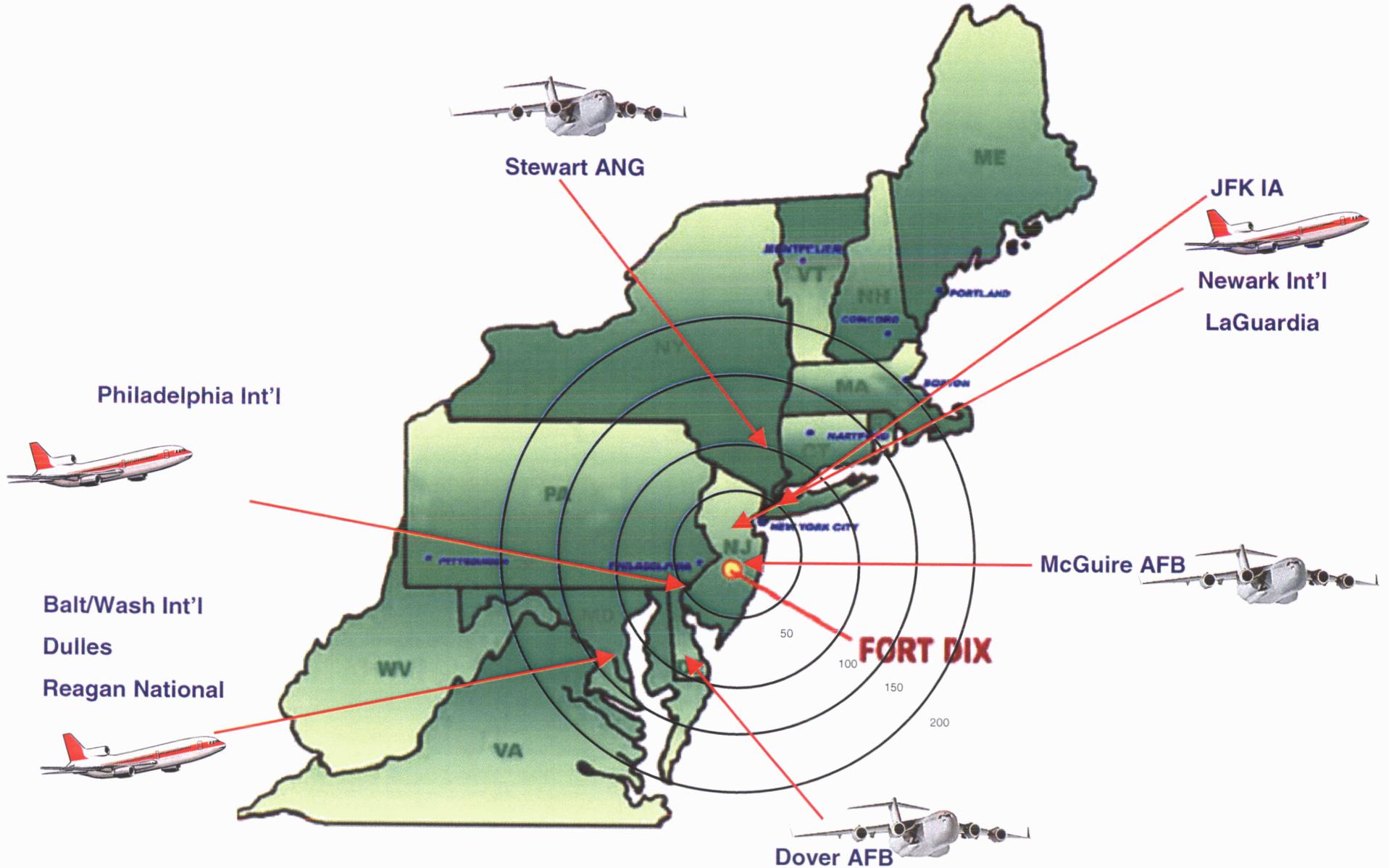
Green: Less than or equal to 2% of annual target => 96.7% 22  
Yellow: 94.7-96.6% 9  
Red: Greater than or equal to 2% of annual target <=94.6% 23

# Recruitment and Retention

Quality of personnel is tied to location

- Units located near Active bases have a trained pool of personnel to recruit
- 108<sup>th</sup> is located near multiple Air Terminals

# Regional Air Terminals



# \$75M invested at McGuire to create the only tanker base of its kind in Northeast

## Military Tanker Base Projects – Air National Guard McGuire AFB

1988	Tanker Engine Repair Shop	\$ .2M
	Alter Building	\$ .18
1990	Alter Training Facility	\$1.05
1991	<i>Decision Made to Convert to Tanker Base</i>	
	Parking (KC-135 Aircraft) Apron	\$ .91
1992	KC-135 Fuel Syst Maintenance Dock	\$ .66
	KC-135 Tanker Hangar/Design	\$1.2
	Jet Fuel Storage & Dist System	\$ .87
1994	Jet Fuel Operating Ramp	\$11.4
	KC-135 Tanker Hangar/Construct	\$13.3
1996	Consolidated Operations Facility	\$ .97
	Consolidated KC-135 Pkg Apron	\$ .98
	Corrosion Control	\$ .71
	Jt Medical Training Facility/Design	\$1.16
1997	KC-135 Parking Apron, Phase II	\$23.9
2002	Jt Medical Training Facility/Construct	\$4.4
2003	Jt Medical Training Facility/Design	\$ .21
1991- 2005	Sustain/Repair/Maintenance Projects	\$14.7
	<b>Total:</b>	<b>\$76.8M</b>
	<b>In 2005 dollars:</b>	<b>\$90.9M</b>

## \$75M invested to create a truly unique tanker base in the Northeast

- Secure pipeline to fuel farm and not trucks
  - Efficient, Safe, Accommodates Surge Operations
- Hydrant System fuels planes directly
- Modern Aircrew Alert Facility
- Only Northeast Tanker Unit on a military installation
- Modern Hangars and Ramp

# Examples of Military Tanker Base Projects at McGuire

Fuel Farm



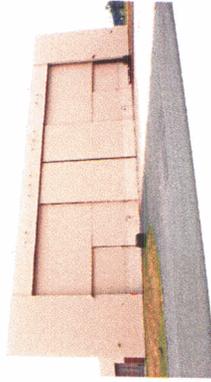
Fuel Tank



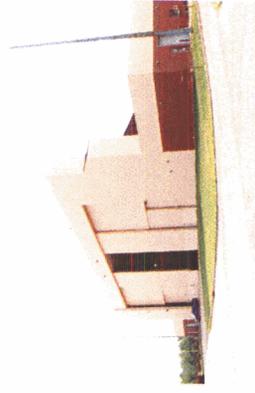
KC-135 Hangar



KC-135 Hangar



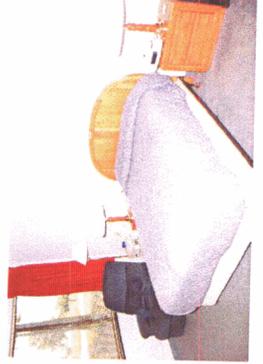
KC-135 Hangar



Alert Facility



Alert Facility Bedroom



Alert Facility Kitchen



# Ideal Location

- Necessary for Northeast Tanker Task Force, which is already tanker-lean and will be greatly weakened.
- Best situated for all Northeastern air refueling missions
  - provides refueling support for overseas cargo and tactical homeland defense missions
  - Less than 30 minutes to all Northeastern Seaboard cities
  - Easily coordinates with Tactical assets for training and actual operations

# Support assigning 12 KC-135Rs to McGuire together *with* assets from Willow Grove

- Enough space with minimal cost
  - 3 possible beddown plans and cost of ramp expansion is approximately \$6M
- Promotes jointness on a DoD level
  - All branches Active, Guard, Reserve
- Consolidation increases maintenance and training efficiencies and saves money

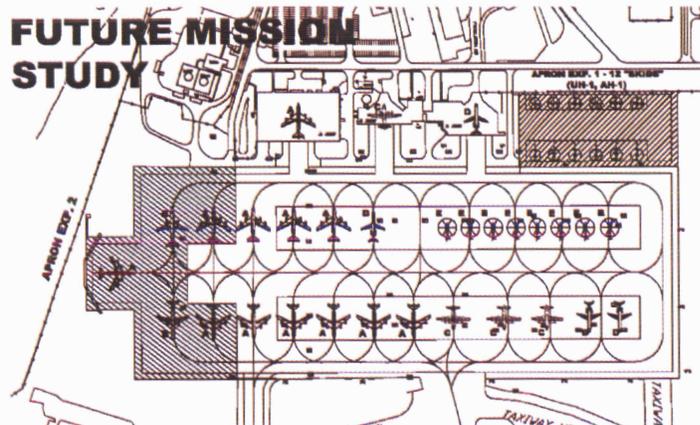
# Existing Ramp for 108th



# Aerial View of McGuire AFB



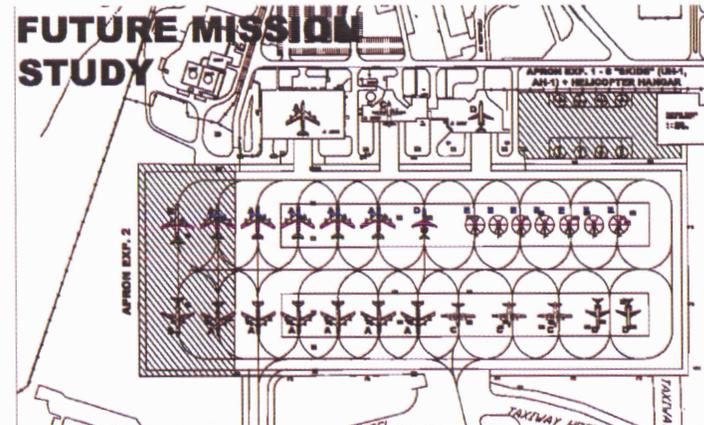
# Three Possible Beddown Plans for 12 KC-135s and Incoming Assets from Willow Grove



**FUTURE MISSION - SCHEME 3 - LEGEND:**

APRON REQUIREMENTS:	AIRCRAFT IDENTIFIER:
APRON EXPANSION 1 - 182,500 SF	A - KC-135 R     E - CH 53 E
APRON EXPANSION 2 - 335,000 SF	B - C 32 B
TOTAL APRON EXPANSION - 517,500 SF	C - C 130
	D - C-8

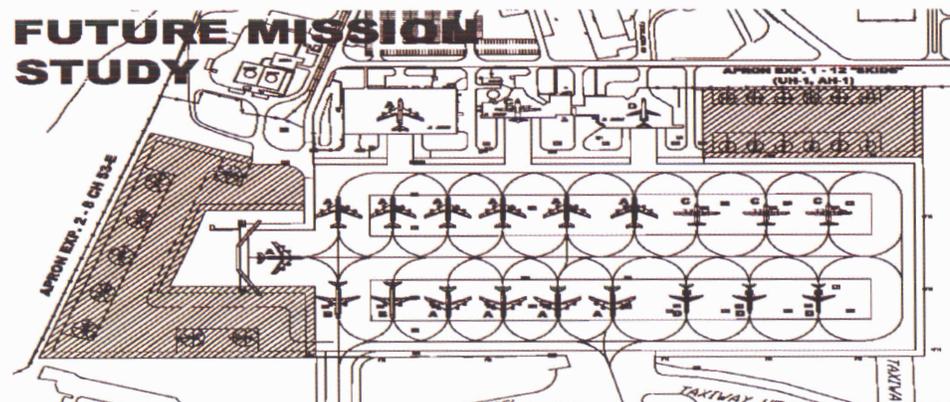
NOTE: SKIDS ARE IDENTIFIED ON SITE PLAN



**FUTURE MISSION - SCHEME 4 - LEGEND:**

APRON REQUIREMENTS:	AIRCRAFT IDENTIFIER:
APRON EXPANSION 1 - 182,500 SF	A - KC-135 R     E - CH 53 E
APRON EXPANSION 2 - 306,700 SF	B - C 32 B
TOTAL APRON EXPANSION - 489,200 SF	C - C 130
	D - C-8

NOTE: SKIDS ARE IDENTIFIED ON SITE PLAN



**FUTURE MISSION - SCHEME 2 - LEGEND:**

APRON REQUIREMENTS:	AIRCRAFT IDENTIFIER:
APRON EXPANSION 1 - 182,500 SF	A - KC-135 R
APRON EXPANSION 2 - 430,200 SF	B - C 32 B
TOTAL APRON EXPANSION - 612,700 SF	C - C 130
	D - C-8

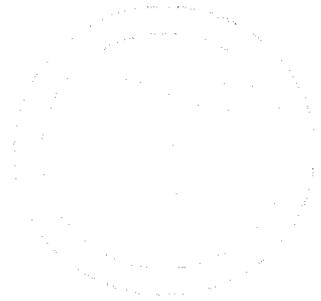
NOTE: HELICOPTERS ARE IDENTIFIED ON SITE PLAN

# Fits with the Army Plan

- Creates a Regional Joint Mobilization Site and Regional Reserve Headquarters
- Includes Aviation consolidation that compliments McGuire Actions

# Conclusion

- Dix-McGuire-Lakehurst is a one of a kind Joint base in a prime location
- The Army and Navy plans to move assets to Dix and McGuire makes perfect sense both fiscally and militarily
- McGuire is large enough to accept the Willow Grove units and keep the 108th



New Jersey  
Department of Military  
and Veterans Affairs

# **108<sup>th</sup> Air Refueling Wing** **New Jersey Air National Guard**

## **Military Value and Future Missions**

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## *Executive Summary*

- The 108<sup>th</sup> ARW is programmed to retire its KC135E model aircraft without a follow-on flying mission as announced in the AF Future Total Force Plan as part of BRAC. The 108<sup>th</sup> will lose *two* flying squadrons. This will result in a loss of 954 personnel from the 108<sup>th</sup> ARW. Despite the movement of 533 Marine Corps and Navy Reserve personnel to McGuire AFB, there will be a net loss to McGuire of 421 personnel due to the elimination of the flying mission at the 108<sup>th</sup>.
- Until the USAF Tanker Study is completed in the fall of 2005 the USAF doctrine for aerial refueling organizational structure remains unclear. The study is intended to identify the Air Force's future tanker needs and appropriate tanker force structure. Any movement of assets prior to the completion of the study would be premature and counterintuitive.
- There are 31 air refueling wings and 3 air refueling groups in all components of the US Air Force: 4 wings and 1 group in the active AF, 8 wings in the in the Air Force Reserve Command (AFRC), and 19 wings and 2 groups in the ANG. The 2004 White Paper titled "Air Force Organizational Principles" indicates that the USAF considered 16 Primary Aircraft Authorized (PAA) as the doctrinally correct size for KC-135 equipped tanker units as recently as July 2004. That is exactly the size of the 108<sup>th</sup>.
- Decisions regarding the appropriate number of PAA reflected in the 2055 BRAC Report are inconsistent with current Air Force doctrine. Four units remain at 8 PAA, one will have 10 PAA, eight will increase from 8 to 12 PAA, and the other two "super tanker" ANG wings at Rickenbacker and Pittsburgh remain unchanged at 18 and 16 PAA respectively.
- The primary purpose of the Defense Base Closure and Realignment Act of 1990 as amended in 2004 is for "the closure or realignment of military installations..." (emphasis added). The emphasis is on infrastructure and cost savings realized rather than force restructuring.
- Decisions related to force structure as implemented by the BRAC Report appear to be arbitrary and capricious in that no scoring process was used; the 2005 Base Realignment and Closure recommendations for KC-135R distribution does not mirror the National Guard Bureau (NGB) conversion list in use for over 10 years. Both the Scott (Illinois) and Sioux City (Iowa) wings, lower on the NGB prioritized plan, are now proposed to receive R models while the 108<sup>th</sup> Air Refueling Wing faces retirement of its airplanes without replacement. Neither of these units participates in tanker alert.

- Northeast Tanker Task Force (NETTF) Impact:
  - The 108<sup>th</sup> provides 15% of the fuel offloads for the NETTF. With the elimination of assets at the 108<sup>th</sup> and the 107<sup>th</sup> (Niagara), the remaining NETTF units would have to increase sorties by 78% and offload quantities as much as 53% to meet current demands.
  - The northern NETTF units average 3-9 times as many days per year of freezing precipitation more than the 108<sup>th</sup>. This plan puts 50% of the NETTF aircraft on two municipal airports in the northern edge of the NETTF area of operations.
- The 108<sup>th</sup> is within 30 minutes of Boston, New York City, and Washington, D.C., as well as all east coast major population, industrial and political centers. The wing frequently supports POTUS Combat Air Patrol (CAP) missions in the northeast.
- The 108<sup>th</sup> is co-located with the active duty 305<sup>th</sup> Air Mobility Wing (AMW) on the McGuire/Fort Dix/Lakehurst “mega-base” yielding tremendous operational and training synergies. This already fulfills the DOD’s “Total Force” vision of ANG and USAFR units being co-located on active duty joint-service bases
- DOD has invested \$70 million to create the premier tanker base with the most modern fueling system of all ANG tanker units. It is the only unit with bulk fuel deliveries to the fuel farm via secure pipeline. Fuel is delivered to the other airports via thousands of 5,000-gallon tractor-trailer tanks to their fuel farm bulk storage facilities. Fuel tank trucks can be significantly impacted by weather, truck availability, trafficability, and can be overwhelmed during surge operations. The other ANG tanker units do not have the hangar and apron space to accommodate more airframes without significant MILCON expenditures.
- The 108<sup>th</sup> is manned at 93.7% for 16 PAA. Other units currently at 8 PAA and proposed for 50% increases are at even lower strength rates and would likely find it difficult to increase manning. TAG of New Hampshire already identified this as a significant issue and would rather not receive additional tankers.
- The 108<sup>th</sup> maintains a modern and dedicated aircrew alert facility that most other tanker units do not. The 108<sup>th</sup>’s alert crew facility is on base and Force Protection is provided by the host active-duty base security forces.
- Specific and unique deficiencies at other bases:
  - Pittsburgh – weather; strength; fuel delivery by truck; and training difficulties due to co-location with an international airport. The unit is actually unable to perform local traffic pattern training and does all scheduling around airport operations. Least efficient for alert.

- Bangor – weather, strength, MILCON required, fuel delivery, proposed cessation of 24-hour air traffic control.
- Pease – weather, strength, MILCON required, fuel delivery.
- Rickenbacker – fuel delivery, no participation in alert missions, close proximity to Pittsburgh (3-hr drive).
- Selfridge – pending conversion to tankers, which requires training, fuel delivery. Would not participate in alert missions due to location.

## *Introduction*

The 108<sup>th</sup> Air Refueling Wing (ARW), New Jersey Air National Guard (ANG) stationed at McGuire Air Force Base is programmed to retire its KC-135E airframes without replacement, as announced in the 2005 Base Realignment and Closure Report (BRAC). Since this recommendation for the 108<sup>th</sup> is technically not a closure, there was no BRAC scoring utilizing the published BRAC criteria. However the recommendation has the full effect of a closure and affects two flying squadrons, not one.

The purpose of this paper is to discuss the military value of the 108<sup>th</sup> ARW and the impacts of unit disbandment on the Northeast Tanker Task Force, and to review the capabilities of other tanker bases in the area.

The US Air Force initiated a "Tanker Study" to determine the characteristics of the air refueling capabilities required to support the future Air Force. The Tanker Study is scheduled for completion in the Fall of 2005, after finalization of the 2005 BRAC process. Implementation of BRAC's tanker restructuring prior to completion of the "study" would negate the outcome of the study and indicate that, in this matter, certain BRAC recommendations do not reflect capabilities based decision-making.

The Air Force Base Closure Executive Group (AF/BCEG) stated in Candidate Recommendation #USAF-0118 / S434 that their justification for closure of the 108<sup>th</sup> ARW was "to enable Future Total Force transformation". Their assigned Military Value of inactivating the 108<sup>th</sup> ARW was that it "retires aging force structure" and "enables scenario DON-0084". In DON-0084 the Navy recommended closure of NAS Willow Grove and created a need for airport space to house Navy and Marine Corps aircraft. An acceptable alternate use of potentially vacant airport space seems an ill-considered subjective reason to select a military organization to be disbanded with the subsequent loss of 954 personnel in the 108th ARW and the incurred costs associated with placing additional KC-135's at other retained ANG bases.

There was no consideration of the comparative military value of the current or proposed refueling wings to identify those units with the greatest or least value. The decision to disband the 108<sup>th</sup> ARW appears to be arbitrary in that no objective scoring process was used to compare unit experience, strength, strategic location, existing infrastructure, or "jointness" opportunities and efficiencies. Further, the recommendations for KC-135R aircraft distribution within the 2005 BRAC Report do not mirror the National Guard Bureau (NGB) unit conversion and aircraft distribution list in use for over 10 years. Both the Scott and Sioux City wings were given lower priority on the NGB prioritized plan yet are proposed in the 2005 BRAC Report for conversion to KC-135R's.

There are 31 air refueling wings and 3 air refueling groups in all components of the US Air Force: 4 wings and 1 group in the active AF, 8 wings in the in the Air Force Reserve Command (AFRC), and 19 wings and 2 groups in the ANG. Until the USAF Tanker Study is completed in the fall of 2005 the USAF doctrine for aerial refueling organizational structure remains unclear. The 2004 White Paper titled "Air Force

Organizational Principles” indicates that the USAF considered 16 Primary Aircraft Authorized (PAA) as the doctrinally correct size for KC-135 equipped tanker units as recently as July 2004. That is exactly the size of the 108<sup>th</sup>.

In the 2005 BRAC Report the USAF recommends modifying the structure of nearly all of its reserve component wings to levels other than what it stated as the optimally correct figure. Wings at Andrews, Sioux Gateway, Lincoln, and Salt Lake will remain at 8 PAA. The wing at Phoenix will increase from 8 to 10 PAA. Wings at Bangor, Selfridge, Pease, McGhee-Tyson, Forbes, Mitchell, March, and Scott will increase from 8 to 12 PAA.

“Super wings”, including the three ANG wings based at Rickenbacker, Pittsburgh, and McGuire, were created to maximize the operational efficiencies gained through greater aircraft densities. There are four active duty Super Tanker Wings and three in the ANG. The ANG Super Tanker Wings at Rickenbacker and Pittsburgh are proposed to remain at 18 and 16 respectively while the “super” wing at McGuire will lose all 16 aircraft. There is no apparent logic to this shuffling of PAA and certainly no military doctrinal support for such widely dissimilar wing structures.

Personnel structure proposed for transfer from NAS Willow Grove to McGuire AFB is 533 Navy and Marine positions, estimated to be 160 full-time and 373 part-time positions. The net result would be a McGuire community net loss of 421 positions: 105 full-time and 316 part-time. But there would be a much greater impact considering the proximity of McGuire AFB to NAS Willow Grove. It seems likely that most of the full-time civilian employees will transfer with their positions to McGuire AFB, only a 35-minute drive from Willow Grove. Their transfer will magnify the loss of positions from the 108<sup>th</sup> ARW. The force reduction for the 108<sup>th</sup> ARW after retirement of the KC-135R aircraft, its aircrews, and maintenance personnel, will result in a loss of 954 positions: 52 active duty, 208 full-time civilian, and 694 traditional drilling Guardmember positions. It is unlikely that many of the incoming positions from Willow Grove would be compatible with the skill sets of displaced ANG civilian employees. Nearly all of the Navy and Marine active duty positions would be filled by incumbents stationed at NAS Willow Grove or with transfers from other USNR/USMCR activities. None of the active duty ANG incumbents should anticipate potential employment with the Navy Reserve or Marine Corps Reserve. One does not easily transfer from the Air Force to the Navy or Marine Corps and as a result nearly all of the 108<sup>th</sup> ARW members would be displaced.

Finally, it should be noted that the primary purpose of the Defense Base Closure and Realignment Act of 1990 as amended in 2004 (Part A of Title XXIX of Public Law 101-510; 10 U.S.C. 2687 note) is for “the closure or realignment of military installations...” (emphasis added). The emphasis in the statute is on infrastructure and cost savings realized, which must be certified by the Secretary of Defense and Comptroller General. The Air National Guard (ANG) has historically consumed less than 10% of the total Air Force budget. The cost savings achieved through airframe changes appears negligible compared to potential savings if additional airframes had been reallocated from the active duty Air Force to the Air National Guard instead of leaving highly experienced ANG units without airframes.

## ***Unit Background and History***

The 108th Air Refueling Wing traces its heritage back to September 1917 when the 119th Aero Squadron was formed. The 119th Aero Squadron was an active duty training squadron during World War I., was called to active duty in 1940 in preparation for World War II and served nearly three years scattered throughout the Army Air Forces. In 1946, the unit was allocated to New Jersey and returned home, the New Jersey National Guard.

The first post-war New Jersey Air National Guard unit was organized in 1946 and federally recognized as Headquarters, 108th Fighter Group. On May 26, 1949, the 141st Fighter Squadron and Detachment "A" of the 208th Air Service were activated at Mercer Airport in Trenton. Four years later the 108th Fighter Wing, based at Newark Airport, N.J., received Federal recognition on November 1, 1950. Historically, New Jersey has both fighter units and "Aces" - - 34 of the latter to date - - two of whom subsequently commanded the 108th Fighter Wing.

The 108th Fighter Wing was activated in March 1951 for the Korean Conflict and assigned to the Strategic Air Command. Nearly two years later it was transferred to the Tactical Air Command and released from active duty in November 1952. During this time, The unit was redesignated the 108th Tactical Fighter Wing in 1958 and reactivated on October 1, 1961 for the Berlin Crisis and immediately transferred overseas. Of all the Guard and Reserve fighter units activated, the 108th was the first of only two units declared combat-ready upon arrival by U.S. Air Forces, Europe inspectors.

In April 1964, the 108th was the first Air Guard unit to fly "twice the speed-of-sound" after it traded its F-84E "Thunderstreak" for the F-105B "Thunderchief." In April 1981 the unit converted to the F-4D "Phantom" and later, in the fall of 1985, to the F-4E "Phantom II." In 1989, ***the 108th was declared the best Air National Guard flying unit and awarded the coveted Spaatz Trophy.***

In 1993 the 108th converted from F-4Es to the KC-135E "Stratotanker," when it consolidated with the 170th Air Refueling Group and was redesignated the 108th Air Refueling Wing, a super-tanker wing.

In 1991 the 170th was the first air-refueling unit in the nation to launch tankers to establish the now-famous U.S.-Saudi Arabia "air-bridge" during Operation Desert Shield/Desert Storm. The group also provided urgently needed medical support and security police personnel to U.S. air bases to assist active duty personnel there or serve as "fill-in" for those already rushed to the combat theater.

By 1993 the 108<sup>th</sup> ARW participated in Operations Provide Hope, Support Hope, Provide Promise and Deny Flight in 1994.

The 108th has also provided support in the Middle East. In March of 1997 and January of 2000, the 108th Air Refueling Wing deployed to Incirlik Air Base, Turkey, in support of

Operation Northern Watch. Unit personnel were also deployed to bases in Saudi Arabia in support of Operation Southern Watch during this period. Both missions supported the no-fly zone imposed over Northern and Southern Iraq by the United Nations after Operation Desert Storm.

On May 29, 1999, the 108 ARW received a Presidential Selective Reserve Call-up, which entailed partial mobilization of the unit to active duty. An Air Mobility Tasking Order also ordered the unit to send aircraft and personnel overseas as part of Operation Allied Force in Kosovo.

Just prior to September 11, 2001, the 108th had deployed over 250 personnel in support of Operation Northern Watch at Incirlik Air Base Turkey. Shortly after the terrorist attacks the unit deployed over 580 personnel to Oman in support of Operation Enduring Freedom in Southwest Asia and over 50 personnel for Operation Noble Eagle within the United States. For its efforts in 2001, ***the 108 ARW was selected as the best Air National Guard unit within the 21st Air Force for 2001 and was awarded the General Malcolm B. Armstrong Trophy.***

During the fall of 2001, the 108th has continued to provide support for the state and nation without hesitation. On February 21, 2003, the 108th received a partial mobilization order authorizing the unit to activate more than 500 Guard members to Afghanistan, Qatar, Kuwait, and Iraq, in support of Operation Iraqi Freedom and the continuing of missions for Operations Enduring Freedom and Noble Eagle.

The 108th's mission continued with more that 140 personnel deploying to Lajes, Air Base, Portugal from February to June of 2003 and 30 members deploying in June and July to Kuwait and Iraq. From December 2003 until February 2004, over 380 Guard members were deployed to Incirlik Air Base, Turkey for Operation Silver, which supported Operation Iraqi Freedom.

The 108<sup>th</sup> Air Refueling Wing has been mobilized four times in the last five years. They have amassed 3237 flight hours and 721 sorties in support of Operation Noble Eagle. They have amassed over 6350 hours and 1215 sorties in support of Operations Iraqi Freedom and Enduring Freedom. The wing has pulled over 1977 "Alert" days resulting in 421 launches.

Fifty-three percent of the maintainers have achieved the 7-level or higher.

The Wing has an impressive roster of aircrews, with total flying experience of 314,373 hours (as of 1 FEB 05). Their 113 aircrew members average 2782 flight hours and include 27 Instructor Pilots, 50 Aircraft Commanders, and 13 Instructor Boom Operators. The Aircraft Commanders average 3800 hours and the Instructor Pilots average 1800 hours of IP time. Twenty-eight of the pilots are type rated in the 767/757 with an average of 1600 flight hours.

### ***Alert Missions in the Tanker Community***

Some aerial refueling units of the U.S. Air Force Reserve and Air National Guard routinely support operational missions. Those units, located on the eastern and western seaboard of the continental United States (CONUS) provide aerial refueling support for trans-oceanic military flights. Similarly, wings located near major metropolitan areas commonly support Operation Noble Eagle Homeland Security Combat Air Patrol (CAP) tracks. Refueling wings located in the central states are too far from the trans-oceanic airbridge routes and away from the major CONUS metropolitan concentrations to make their support effective or efficient.

Units that must travel a greater distance and time to reach the airbridge refueling tracks cost more to operate before they ever begin performing the refueling mission. Aerial tankers, the KC-135 and the KC-10, consume fuel to operate the tanker from the same fuel available to deliver to their "customer" aircraft. The farther an aircraft travels to and from the refueling "customer" the more it costs to perform that mission.

Greater tanker travel distance and time reduces the fuel available to offload to the "customer". Fewer customer aircraft can be refueled per sortie, further reducing efficiency and increasing costs. Missions supported by central CONUS wings would require more sorties to provide fuel offload levels similar to those possible for missions performed by wings located on the seaboard. These tanker units located in the central United States are not employed for any tanker alert missions.

USAF tanker wing basing in the central United States seems to be a throwback to the SAC days of basing aircraft as far inland as possible to guard against surprise ICBM or bomber attacks and to support the "over the top" SAC bomber Arctic routes toward the Warsaw Pact nations. Aircraft operating over the central United States have little need for in-flight refueling when they can land at an airport.

Absent the threat of over the horizon attacks there seems no reason to continue basing tanker wings so far from where their capabilities are required: refueling military aircraft as they transit the Atlantic and Pacific Oceans bound for distant theaters of operation.

### ***Northeast Tanker Task Force***

The Northeast Tanker Task Force (NETTF) is a voluntary cooperative association of KC-135 units in the northeast to support the large volume of trans-Atlantic military traffic supporting our military personnel overseas. The bulk of the task force's missions support traffic directly related to Operation Iraqi Freedom and Enduring Freedom missions.

The Northeast Tanker Task Force is formed by contributions from five KC-135 Air National Guard tanker wings and one Air Force Reserve KC-10 wing, based at McGuire AFB (NJ), Pease ANGB (NH), Bangor International Airport (IAP) (ME), Niagara Falls Air Reserve Stations (NY), and Pittsburgh IAP (PA). NETTF missions are coordinated

by the 101<sup>st</sup> ARW in Bangor Maine and tasked to the participating wings. The US Air Force Air Mobility Command provides funding for aircrew salaries on alert status to support these missions.

The 108<sup>th</sup> Air Refueling Wing is the center of gravity of the Northeast Tanker Task Force (NETTF). It currently provides 15% of the NETTF fuel offloaded. If the report were executed without modification, then the 108<sup>th</sup> ARW and the 107<sup>th</sup> ARW (Niagara) would no longer contribute to these mission taskings and the remaining NETTF units would have to increase their sorties by as much as 78% and their offload quantities as much as 53% to meet current demands.

The 108<sup>th</sup> is ideally located to support airbridge operations to refuel fighter, cargo and transport missions across the Atlantic to Europe, North Africa, the Middle East and Southwest Asia as well as strategic missions under the revised OPLAN 8044. The 108<sup>th</sup> is 20% closer to NETTF and Operation Noble Eagle (ONE) Combat Air Patrols (CAP) tracks than the 171<sup>st</sup> ARW at Pittsburgh and 10% closer than all other NETTF units. This proximity resulted in 25% savings from budgeted flight time for the 108<sup>th</sup> ARW. While extreme northern aerial refueling units have efficiency advantages in mission accomplishment for the northern track, and similarly extreme southern units enjoy efficiencies supporting the southern track, the 108<sup>th</sup> is best suited for northeast ONE CAP refueling missions and also best suited for overall refueling support of all three missions (NETTF, ONE, and strategic OPLANS). If equipped with KC-135R's, the 108<sup>th</sup> would be able to increase its fuel off-loads to more than 120,000 pounds per NETTF sortie while significantly reducing its flight times and mission costs. Of the KC-135 ANG units, only the 108<sup>th</sup> is located between the NETTF refueling tracks and the predominate ONE CAP locations.

The 108<sup>th</sup> ARW is strategically located within 30 minutes flying time to Boston, New York City, and Washington DC and is close to all east coast major population, industrial and political centers. Considering its centralized location, the 108<sup>th</sup> is heavily tasked for Northeast ONE missions along the Atlantic seaboard and is frequently called to support POTUS CAP over the mid-Atlantic region. The 108<sup>th</sup> has become TACC's "go to team" to cover short-notice ONE CAP due to their ability to respond quickly when other tanker units cannot.

The 108<sup>th</sup> ARW has attained an exceptional mission reliability rate in the past 12 months of 96% in the historically less capable E model of the KC-135. The wing enjoys the best NETTF mission efficiency rate per sortie (3.2 hours / sortie) for KC-135E aircraft, resulting in 25% greater than planned fuel offloads. This record of excellence has resulted in the 108<sup>th</sup> being tasked 30% more per alert line than the Air Force Reserve KC-10's for NETTF missions.

The Mid-Atlantic location of the 108<sup>th</sup> ARW relieves it from most of the region's severe winter weather, permitting the NJANG to complete missions when other tankers cannot. Nearly all of the other tanker units in the NETTF average two to nine times as many days per year of freezing precipitation than McGuire AFB. The other NETTF units therefore

have to either spend far greater amounts per year to de-ice their aircraft or cancel missions at a much greater rate due to freezing precipitation. Concentration of 50% of the NETTF aircraft in the northern edge of NETTF area would magnify the impacts of regional severe weather. In contrast, maintaining the current dispersion would minimize weather cancellation rates due to such severe winter weather.

The 108<sup>th</sup> ARW is co-located with the active duty 305<sup>th</sup> AMW on the McGuire / Dix / Lakehurst mega-base, yielding tremendous operational and training synergies. Stationing on the mega-base promotes unique opportunities for joint training and mission execution. The current proposal concentrates 50% of the NETTF aircraft on two municipal airports in the northern edge of the NETTF area of operations. The 108<sup>th</sup> ARW's mid-Atlantic location, in close proximity to superior training airspace and ranges, permits excellent support to concentrations of initial or upgrade aviator training in KC-10s, C-17s and C-5s with simultaneous training value to the 108<sup>th</sup> aircrews. This also fulfills the DOD's "Total Force" vision of ANG and USAFR units being co-located on active duty joint-service bases.

### *Existing Infrastructure*

The 2005 BRAC report did not include the cost of abandoning the \$70 million tanker wing infrastructure on McGuire AFB and the costs associated with placing additional KC-135's at other retained ANG bases rather than at McGuire. McGuire AFB was specifically and uniquely built to be a tanker base.

The air refueling wing specific facilities developed for the 108th at McGuire AFB to house an oversized tanker wing were designed to support as many as 20 tanker aircraft with the most modern fueling system of all ANG tanker units. The 108<sup>th</sup> is the only ANG unit to receive its bulk fuel deliveries to the airport "fuel farm" via secure underground pipeline. Fuel is delivered to other bases by 5000-gallon tank tractor-trailers; each NETTF sortie requires approximately four tractor-trailer deliveries.

An average pipeline receipt of 110,000 gallons takes about six hours; a similar delivery to the air base by tractor-trailer would take 16 trailer loads. Offload time for the small fleet of tractor-trailer tankers would take eight to ten hours to complete.

Each of those tractor-trailer tanks driven over the road represents both an environmental risk as well as an anti-terrorist/force protection risk to every community it passes through en route to the base fuel farm as well as to the airbase itself. Bulk fuel delivery via secure underground pipeline is the model in efficiency, safety, and security and most easily accommodates surge operations.

The other ANG tanker units do not have the hangar and apron space to accommodate more airframes than they already possess without considerable MILCON expenditures. All other ANG refueling infrastructure is a generation behind that at McGuire AFB. Fuel is delivered to the other airports via trucks to the "fuel farm" bulk storage facility. Fuel

tank trucks receive fuel from the "fuel farm" can be significantly impacted by weather, truck availability and traffic (on civilian highways and onto the airport). Furthermore, this method of fuel delivery can be quickly overwhelmed during surge operations.

### *Strength and Recruiting*

Strength and Recruiting are challenges felt by all ANG and USAFR units. The 108<sup>th</sup> ARW is in the epicenter of the highest concentration of population in the US. There were other ANG tanker units listed in the 2005 BRAC Report to receive additional PAA because of their close proximity to a population center however none of them compare to the population center bound by Northern Delaware, eastern Pennsylvania, all of New Jersey, and New York City. If there is any ANG tanker unit can take on additional PAA it would be the 108<sup>th</sup>. Nearly every major airline has a pilot base within a one-hour drive of McGuire AFB. This is important because the traditional pilot or maintainer working part-time for the ANG or USAFR also flies or maintains for an airline. The 108<sup>th</sup> ARW at McGuire AFB is one unit that can support additional ANG pilots and maintainers and would have the easiest time recruiting additional pilots.

The 108<sup>th</sup> is currently manned at approximately 93.7% for a 16 PAA unit structure. Other units are proposed for 50% increases in manning, some of which are at even lower strength rates and unlikely meet higher requirements. Conversion of the 108<sup>th</sup> ARW from its existing 16 PAA structure to an 8 or 12 PAA organization structure would result in immediate 100% manning with experienced qualified maintainers and aircrews. Other units would have to find members to fill positions and then train those new members. While currently a **RED** state when compared to a 16 PAA manning document, the 108<sup>th</sup> ARW would be a **GREEN** state when compared to a 12 or 8 PAA document.

The Air National Guard uses color codes to easily identify assigned strength levels. GREEN reflects assigned strength greater than or equal to 96.7% of authorized strength. YELLOW reflects assigned strength greater than or equal to 94.7% but less than 96.7%. RED represents assigned strength less than 94.7% of authorized strength.

Most units in the NETTF will face increased manning requirements under the plan presented in the 2005 BRAC Report. The 101st ARW, Maine ANG, at Bangor International Airport is programmed to increase its primary aircraft authorization (PAA) from 8 to 12; they are also currently as **RED** state with assigned strength of only 91.1% for the smaller 8 PAA authorized strength. The 157<sup>th</sup> ARW, New Hampshire ANG is likewise proposed to increase from 8 to 12 PAA; they, too, are currently graded as **RED** with only 93.8% assigned strength. These NETTF wings are ill-prepared to assume greater strength requirements and corresponding greater taskings under the proposed restructuring of the overall northeast CONUS tanker force. In Pennsylvania, the 171<sup>st</sup> ARW at Pittsburgh IAP, is proposed to maintain 16 PAA; it is currently graded as **YELLOW** at 95.3% manning.

Other Air National Guard and Air Force Reserve ARW's outside the NETTF face similar challenges with achieving current assigned strength requirements. The tanker wing in Phoenix, Arizona is programmed to increase to 12 PAA and is only graded as **YELLOW** at 96.3% assigned manning for 8 PAA. In Hawaii, their tanker wing is proposed to increase from 8 to 12 PAA; they are currently graded as **RED** with only 94.2% manning for the smaller structure. Other wings face similar challenges with manning 8 PAA units and would face even greater challenges meeting increased recruiting requirements for 12 PAA units.

The 108<sup>th</sup> ARW is poised to downsize to a 12 or 8 PAA unit and would be in excellent shape to continue recruiting to that mission. With new recruiting tactics and emphasis in place, the 108<sup>th</sup> will continue to recruit the finest personnel available for any future mission.

### ***Air Base Discussion***

#### **108<sup>th</sup> Air Refueling Wing, McGuire Air Force Base, NJ**

The 108<sup>th</sup> Air Refueling Wing's New Jersey location makes it strategically ideal to support operations along the eastern seaboard and across the Atlantic Ocean. Boston, New York City, Philadelphia, Baltimore, Washington DC, Pittsburgh, and Norfolk are all within 30 minutes flying time from the 108<sup>th</sup> ARW's home station at McGuire AFB.

The 108<sup>th</sup> ARW is the only ANG tanker wing in the northeast US and only one of three located on a CONUS military installation thereby reducing overhead compared to stand alone units at civilian airports or Air National Guard airbases. McGuire AFB is the first mega-base, adjoining Fort Dix and Lakehurst NAES; there is no danger of encroachment issues in the foreseeable future. The mega-base is home to an AMC wing and is the leading reserve component force projection platform for overseas deployments since 2001. The 108<sup>th</sup> ARW is excellently sited to support aircraft based at locations that concentrate heavily on initial or upgrade training for aviators: the KC-10's and C-17s at McGuire AFB, the C-5s at Westover and Dover, and C-17s from Charleston.

The 108<sup>th</sup> ARW is ideally located for Tactical Employment Training, one of Air Mobility Command's highest priorities. Proximity to the coastline provides access to Warning Areas 105 and 107 in less than 25 minutes. Entire sorties, including air refueling and tactical employment maneuvers, can be flown under Visual Flight Rules (VFR) with minimal assistance of Air Traffic Control. The 108<sup>th</sup> Tactical Arrival and Departure letter of agreement with McGuire AFB ATC was the first such document approved by the Air National Guard for KC-135 aircraft; this program was declared an Outstanding Program by AMC's Aircrew Standardization and Evaluation (ASE) team.

The co-location of the 108<sup>th</sup> ARW with the Air Mobility Warfare Center permits frequent interaction. The 108<sup>th</sup> serves as Air National Guard liaison to the Center for KC-135 issues. This relationship permits the 108<sup>th</sup> to participate in Mobility Air Forces Tactics

Review Boards and Tactics Analysis Conferences. The 108<sup>th</sup> ARW seeks greater involvement with the AMWC through integration of the wing with the USAF Mobility Weapons School. Greater details of this opportunity are attached as a Background Paper.

The 108<sup>th</sup> ARW has over 20 years of experience providing air refueling support for America's strategic nuclear deterrence under OPLAN 8044. On September 11, 2001 the wing stood up three aircraft supporting the United States Strategic Command (USSTRATCOM) at the direction of the President. The wing passed AMC Inspector General Operational Readiness Inspections in 1996 and 2002. The wing's aircrews achieved perfect Emergency Action Procedures scores in 1996, 2002, and 2003. During USSTRATCOM Exercise Global Lightning '05 the 108<sup>th</sup> attained the highest participation and execution rate of any Air National Guard unit. The wing and its members are acknowledged mentors to all other NETTF units in their preparation for inspections, deployments, and exercises.

With the exception of Andrews-based KC-135s, the 108<sup>th</sup> ARW is the closest location for supporting Homeland Defense missions for the nation's capitol. Such missions range from operational flying to manning a 24/7 alert force capable of launching within 30 minutes to provide aerial refueling support for combat air patrol (CAP) aircraft. The 108<sup>th</sup> maintains a modern dedicated aircrew "Alert" facility; most other tanker locations have no such facilities. The 108<sup>th</sup> currently supports homeland defense missions for the other major cities on the eastern seaboard. The centralized location of the wing combined with the improved capabilities of the KC-135R would cement the 108<sup>th</sup> as the premiere Homeland Defense refueling asset on the East coast.

### **171<sup>st</sup> Air Refueling Wing, PA ANG, Pittsburgh International Airport**

**DESCRIPTION:** The 171<sup>st</sup> Air Refueling Wing is assigned 16 KC-135R's; there is no change proposed to that authorization based on the BRAC Report. This wing is located on a major airline hub airport. The FAA reports no flight restrictions on the wing but it is reasonable to assume that the unit voluntarily schedules training missions to avoid the peak airline hours. Training for this wing is difficult due to their location on a busy international airport and therefore the unit is unable to perform local traffic pattern training.

**STRENGTH:** Assigned strength for this wing of the Pennsylvania ANG is 95.3% of authorized strength (YELLOW). With no change in PAA programmed so there is no anticipated relief to their recruiting shortfall.

**INFRASTRUCTURE:** There is no additional construction required to accommodate the BRAC proposed aircraft.

**FUEL:** Fuel is delivered to the airport fuel farm via a multitude of 5000-gallon tractor-trailer tanks.

**WEATHER:** Pittsburgh IAP experiences some of the worst winter weather of the NETTF bases. Reduced ceilings and visibility result in delayed takeoffs and arrivals for the large number of civilian aircraft that fly at Pittsburgh daily. The frequent freezing precipitation with its resultant de-icing delays and costs makes operations during winter months inefficient.

**FLIGHT ISSUES:** Pittsburgh is located farther from the air refueling tracks of the NETTF than any other participating wing. Their flight time to and from the North and South tracks reduces their offload quantities and consequently their overall efficiency in contributing to the NETTF and Homeland Defense missions.

**TACTICS:** The 171<sup>st</sup> ARW has historically claimed their location prohibits the conduct of tactical takeoffs, departures, approaches and landings due to the high volume of civilian aircraft. They are now almost halfway complete in their tactics training program but can only complete tactical arrival and departure procedures in the flight simulator or when at USAF controlled airports.

**ALERT:** The 171<sup>st</sup> ARW provides three NETTF alert lines and provides approximately 13% of the sorties and 15% of the NETTF fuel offloaded (slightly less than that provided by the one NETTF line from the 108<sup>th</sup> ARW). This wing unit is the farthest of all NETTF bases from the northern and southern air refueling tracks as well as the ONE CAP tracks, making it the least efficient in terms of sorties per flight hour and fuel available for offload per sortie.

### **101<sup>st</sup> Air Refueling Wing, ME ANG, Bangor International Airport**

**DESCRIPTION:** The 101<sup>st</sup> Air Refueling Wing is assigned 8 KC-135E's; it is programmed to retire the 8 E's and receive 12 R's as proposed in the 2005 BRAC Report. This wing is located on a civilian operated international airport.

**STRENGTH:** Assigned strength for the Maine Air National Guard is 91.1% of authorized strength (RED). They appear ill-suited to achieve the additional strength required to support a 50 % increase in PAA. Their Adjutant General has acknowledged this problem.

**INFRASTRUCTURE:** The increase in PAA, from 8 to 12, would require construction of an additional hangar for Phase maintenance (\$9.3 million) as well as additions to the apron to park four additional aircraft (\$1.1 million each), for an approximate total of nearly \$13.7 million. There is already over \$13 million programmed for airfield pavement and parking aprons simply to continue current 8 PAA operations.

**FUEL:** Fuel is delivered to the airport by thousands of 5000-gallon tractor-trailer tanks each year.

**WEATHER:** Bangor experiences some of the most extreme winter weather of the NETTF bases. The greatest weather impact here is the high average number of days of freezing precipitation each year, requiring frequent de-icing of aircraft and high operating costs. Further, Bangor suffers the greatest annual number of days with temperatures below 10 degrees F and the greatest annual number of days when missions must be canceled due to fog.

**FLIGHT ISSUES:** The FAA plans to reduce air traffic control tower operations to cease at 11:00 PM daily. Lack of an operating airfield tower would require the wing to conduct operations and training with waivers accepting increased risk. It is unclear how a tanker unit with Alert aircraft taskings can operate from an airport without an operational tower.

**TACTICS:** The wing is well along in developing their tactics program. They have a letter of agreement with their home airport permitting tactical takeoffs, departures, approaches, and landings.

**ALERT:** The wing has three NETTF alert lines and provides approximately 15% of the sorties and 15% of the fuel offloaded for the NETTF mission. Its location as the northernmost of the NETTF bases makes it most efficient for northern aerial refueling track missions, but far less efficient supporting southern refueling track or ONE CAP missions.

### **157<sup>th</sup> Air Refueling Wing, NH ANG, Pease Air National Guard Base**

**DESCRIPTION:** The 157<sup>th</sup> Air Refueling Wing currently has 9 KC-135Rs authorized; the 2005 BRAC Report proposes increasing their PAA to 12. This unit is located on a "stand-alone" Air National Guard base.

**STRENGTH:** The 157<sup>th</sup> has a current assigned strength of 93.8% (RED) for a 9 PAA wing structure. They appear ill-suited to achieve a 33% increase in assigned strength.

**INFRASTRUCTURE:** There is already \$17 million programmed for airfield pavement and parking aprons simply to continue 9 PAA operations.

**FUEL:** Fuel is delivered to the airport bulk fuel storage site by thousands of 5000-gallon tractor-trailer tanks.

**WEATHER:** Severe winter weather at Pease is primarily the average number of days with temperatures below 10 degrees F. Such cold weather, below 10° F, results in outdoor tasks taking much longer to accomplish. In addition, Pease ranks near the top for NETTF bases for snow accumulation, requiring snow removal to permit continued operations.

**FLIGHT ISSUES:** Not available.

**TACTICS:** This wing has a well-developed tactics training program. They have a letter of agreement with their local airport as well as with Brunswick Naval Air Station to perform tactical arrivals and departures. They have a KC-135R simulator on their home station, permitting maximum use to accomplish required maneuvers.

**ALERT:** The 157<sup>th</sup> ARW stands two alert lines for NETTF as well as support to the ONE CAP mission. They contribute 17% of the sorties delivering 19% of the fuel offloaded. Their northern location makes them more efficient than most in supporting the northern aerial refueling track but less efficient for southern track and ONE CAP missions.

### **121<sup>st</sup> Air Refueling Wing, OH ANG, Rickenbacker Int'l Airport**

**DESCRIPTION:** The 121<sup>st</sup> ARW is an 18 PAA wing equipped with KC-135R's stationed on a civilian international airport. There was no change to the existing wing structure proposed in the 2005 BRAC Report.

**STRENGTH:** With assigned strength at more than 100% (**GREEN**), the 121<sup>st</sup> is capable of maintaining its current force structure.

**INFRASTRUCTURE:** There is no proposed increase in PAA so there is no additional construction projected to accommodate more aircraft. Current construction projects, to continue 16 PAA operations, are estimated at \$9 million.

**FUEL:** Fuel is delivered to the airport bulk fuel storage site by thousands of 5000-gallon tractor-trailer tanks. It receives approximately 8 trucks per day six days per week to meet demand. Nearly 2500 individual tractor-trailers hauling 5000-gallon tankers filled with jet fuel pass through its surrounding communities each year.

**WEATHER:** Not available.

**FLIGHT ISSUES:** Location on a civilian airport requires coordination with civilian air traffic control and fewer opportunities to conduct tactical departures and approaches.

**TACTICS:** Not available.

**ALERT:** This wing does not participate in the NETTF "ALERT" taskings due to its distance from the operational area. It similarly does not contribute to the eastern seaboard ONE CAP missions.

### **127<sup>th</sup> Air Refueling Wing, Selfridge ANG Base, MI ANG**

**DESCRIPTION:** The 127<sup>th</sup> Air Refueling Wing is based on a stand-alone Air National Guard base. The 127<sup>th</sup> is programmed to turn in C-130's and receive 12 KC-135R's. It is reasonable to assume they will occupy the buildings vacated by the co-located AFRC ARW disbanded under the 2005 BRAC Report.

**STRENGTH:** The 127<sup>th</sup> is currently manned at or above 100% for a C-130 equipped wing. With the transfer of Selfridge-based AFRC aircraft to the Selfridge-based ANG wing there should be an abundance of potential unit members but a lack of qualified incumbents. Considerable transition training will be required for ANG aircrew members and maintenance workers to convert their skills to KC-135R and aerial refueling specialties.

**INFRASTRUCTURE:** Programmed construction required to continue operations at the current level requires \$13 million. The addition of 4 tanker aircraft to the base and departure of the C-130's should leave adequate parking space for the resulting fleet.

**FUEL:** Fuel is delivered to the airport bulk fuel storage site by thousands of 5000-gallon tractor-trailer tanks. There is no in-ground hydrant system to parking pads for individual tanker fueling; fuel is transferred from the bulk storage facility to the aircraft via tank trucks. This method is the least desirable, more subject to weather and vehicle interference, and is quickly overwhelmed during surge operations. It would cost nearly \$16 million to install the current technology underground system to deliver fuel to the tanker parking apron.

**WEATHER:** The weather at Selfridge is only slightly worse in all categories than that experienced at McGuire AFB and not significant enough to require comment.

**FLIGHT ISSUES:** The runway length at Selfridge, 9000 feet, limits the maximum takeoff weight of tanker aircraft. This weight limitation restricts the fueling offloading capacities of the wings aircraft.

**TACTICS:** Not available. This unit is currently flying C-130s and would have to develop a Tactics program upon commencing KC-135R flight training.

**ALERT:** This wing would not participate in the NETTF "ALERT" taskings due to its distance from the operational area. It similarly would not contribute to the eastern seaboard ONE CAP missions

## *Flying Safety*

Based on a ten-year recap of flying safety data comparing the records of the Air National Guard and the active Air Force, the number of active duty AF Fighter aircraft Class A flying mishaps per 100,000 flying hours is eight times greater than that of the ANG. In the airlift category the rate of active duty AF Class A mishaps is 16 times greater than in the ANG.

The 108<sup>th</sup> ARW has never had a Class A accident since converting to the KC-135 in 1992. Zero Class A accidents in nearly 71,000 flying hours. The aircrews of the 108th ARW have over 261,000 total flying hours of experience in KC-135 aircraft and over 19,000 hours flying combat and combat support missions. The aircraft are maintained by a highly experienced technical force with an average of more than 15 years on the flight line and 170 years of combined experience in the "back shops".

The Air National Guard and Air Force Reserve enjoy much better safety rates than the active Air Force for a variety of reasons. Principal among these reasons is high aircrew experience, high maintainer experience, and low unit personnel turnover.

Decreasing the proportionate contribution of the reserve components to the overall Air Force mission performance should be expected to result in an increase in Air Force accidents and mishaps.

## *Conclusions*

A super tanker wing stationed on an Air Force commanded mega-base is programmed to cease flying operations. The wing is scheduled to turn-in all 16 KC-135Es without replacement. The eminently qualified and experienced aircrews, and support personnel of the 108<sup>th</sup> Air Refueling Wing are programmed for disbandment with the retirement of their aircraft. The \$70 million premiere tanker base in the Air National Guard is programmed for less than optimal use. The underground jetfuel hydrants to each tanker parking apron would sit unused or underemployed as parking spaces for helicopters. The 108<sup>th</sup> has existing apron and hangar capacity to accept four additional aircraft, up to a total of twenty-three.

Other units, unable to fill current positions at lesser authorizations and unable to accommodate more aircraft on their aprons and in their hangars will increase their aircraft population. These upgraded wings will have to build new hangars for maintenance and aprons for parking at considerable MILCON cost.. They will fly farther to reach refueling tracks, when the weather permits. They will continue to transport bulk fuel to their airports via insecure environmentally risky tractor-trailer tankers. This is an unsecured and potentially vulnerable mode of transporting jet fuel.

In contrast to BRAC's pronounced goals of efficiency, "joint-ness", and military value, tanker assets are being realigned to move aircraft from the right place, the centrally

located east coast mega-base, onto stand-alone bases and international airports that do not have the necessary strength, infrastructure, wartime capabilities, or the strategic location of the 108th ARW.

Surely the military value of the 108<sup>th</sup> ARW, one of only three Air National Guard super tanker wing and a key contributor to eastern US aerial refueling support for air bridge operations and Homeland Defense CAP support missions, is greater than the proposed alternate use of the real estate the 108<sup>th</sup> occupies now.

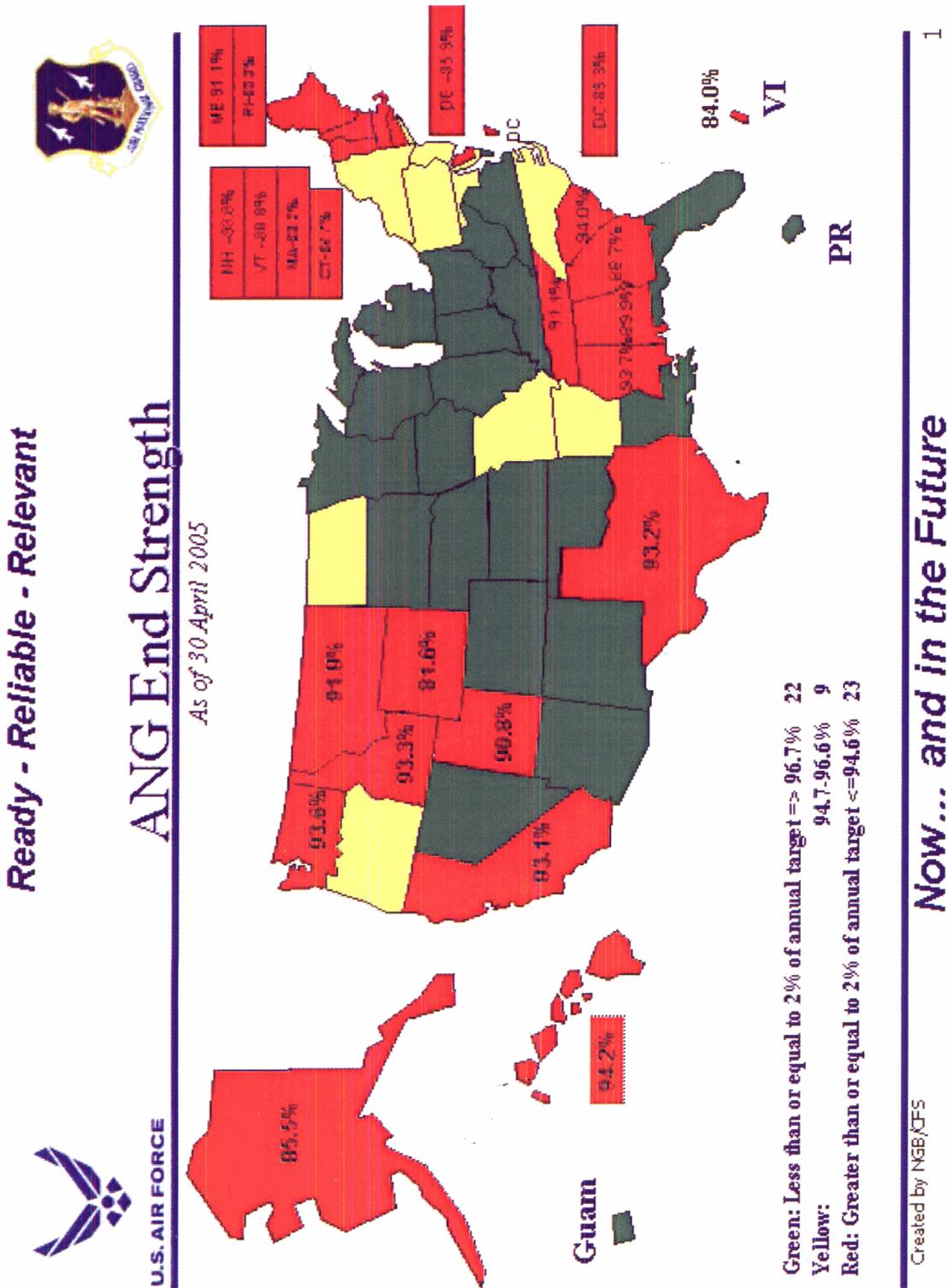
The 108<sup>th</sup> is the right organization with the right people in the right place. Tankers at McGuire are more versatile to support modern real-world aerial refueling taskings.

### ***Recommendation***

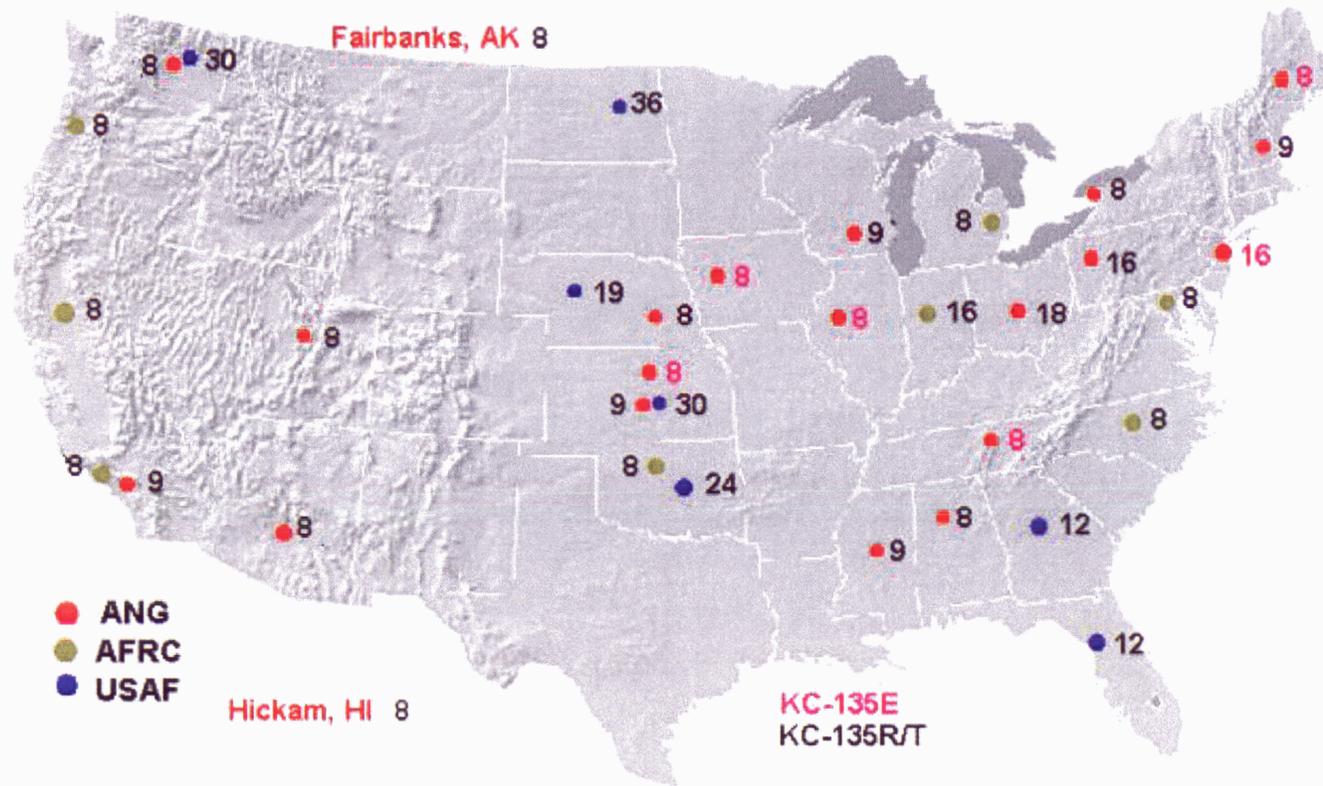
The most efficient resolution to the proposed restructuring of the tanker force is to replace the 108<sup>th</sup> ARW's 16 retired KC-135E's with 8 to 12 KC-135R's.



Appendix 2: Air National Guard End Strength

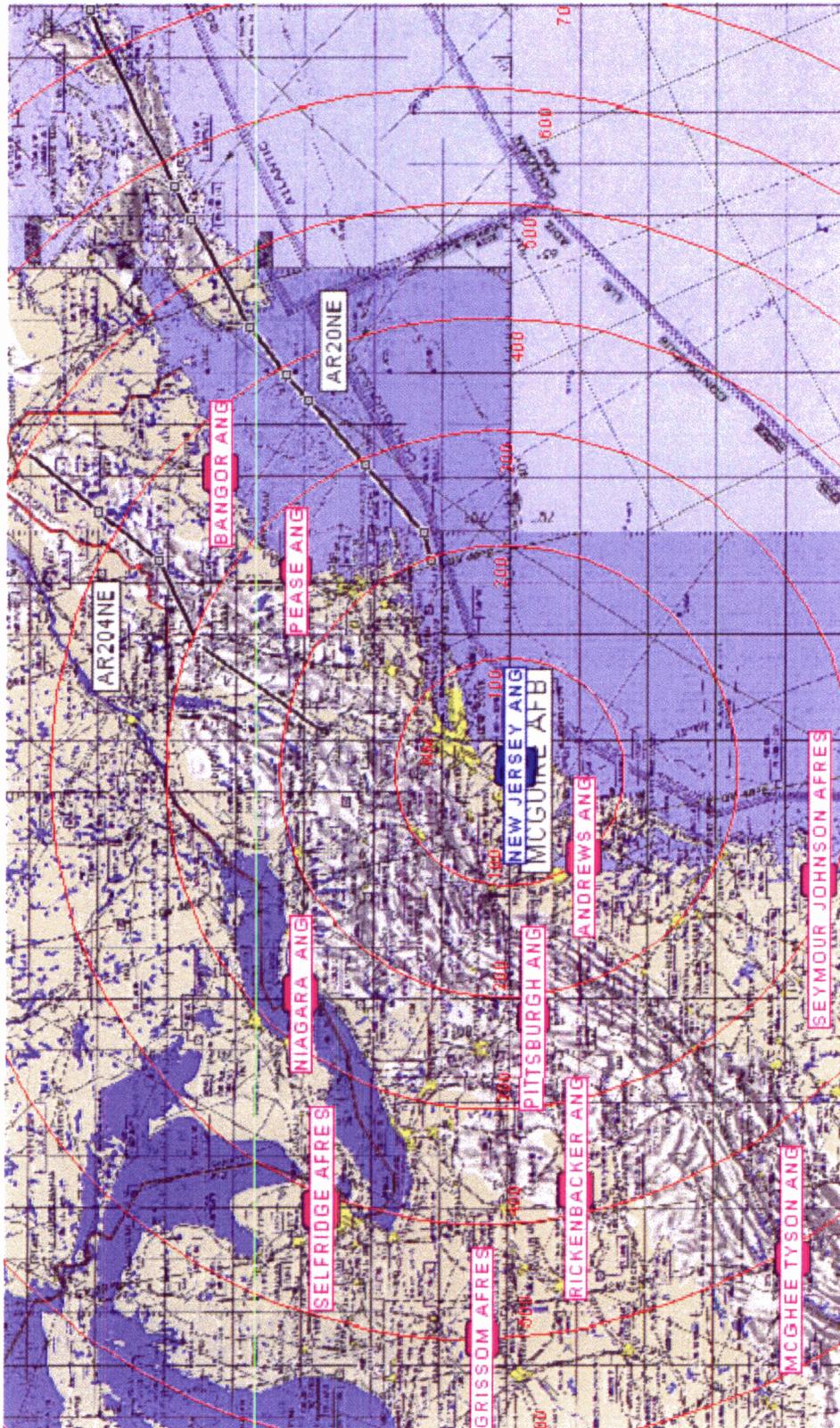


# Pre-BRAC KC-135R Distribution





Appendix 5: Northeast US Tanker Locations





Appendix 7: NETTF Project Workload Increases

\* assumption that TTF fuel delivery demand remains constant

Unit(# TTF lines)	Taskings	Sortes	Fuel Offload	% of current offload	% of proposed offload*	% change in offload*
108 <sup>th</sup> ARW (1)			3,800,000	15%	0	n/a
Pittsburgh (3)			3,726,000	15%	5,567,320	49%
Bangor (3)			3,800,000	15%	5,567,320	47%
Niagara (2)			4,650,000	18%	0	n/a
Pease (2)			4,860,000	19%	7,085,680	46%
AFRC KC-10 (4)			4,470,000	18%	6,832,620	53%
<b>Total</b>			<b>25,306,000</b>			

Projected increase in workload

Unit(# TTF lines)	Taskings	Sortes	% of current taskings	% of current sorties*	% of proposed sorties*	% increase in sorties*
108 <sup>th</sup> ARW (1)	135	68	19%	18%	0	n/a
Pittsburgh (3)	94	51	13%	13%	91	78%
Bangor (3)	101	56	14%	15%	91	62%
Niagara (2)	159	77	23%	20%	0	n/a
Pease (2)	121	68	17%	18%	110	62%
AFRC KC-10 (4)	92	59	13%	16%	95	61%
<b>Total</b>	<b>702</b>	<b>379</b>				

Unit(# TTF lines)	Sortes	fuel offload	current Avg offload /sortie	proposed sorties*	proposed fuel resultant increased offload*	add'l fuel truck deliveries for NETTF mission*
108 <sup>th</sup> ARW (1)	68	3,800,000	55,882	0	-3,800,000	
Pittsburgh (3)	51	3,726,000	73,059	91	5,567,320	57
Bangor (3)	56	3,800,000	67,857	91	5,567,320	54
Niagara (2)	77	4,650,000	60,390	0	-4,650,000	
Pease (2)	68	4,860,000	71,471	110	7,085,680	68
AFRC KC-10 (4)	59	4,470,000	75,763	95	6,832,620	73
<b>Total</b>						

Appendix 8: NETTF Weather Data

Average Inches of Snowfall

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
McGuire	6	6	4	0.5	0	0	0	0	0	0	0.5	3	22
Pittsburgh	12.5	10.1	7.7	1.7	0.2	0	0	0	0	0.2	3.2	8.1	43
Pease	18	16	12	3	0	0	0	0	0	0	3.0	15	67
Bangor	19.7	19.2	14.1	4.2	0.3	0	0	0	0	0.6	4.5	15.9	78
Niagara	24	18	11	3	0	0	0	0	0	0	11	22	89

Average # of Days Airport Below VFR

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
McGuire	5	4	5	4	5	4	4	5	5	4	4	5	54
Pittsburgh	8	6	6	4	4	4	4	4	4	4	5	8	61
Pease	5	4	6	6	6	6	5	4	5	5	5	5	62
Niagara	10	9	5	7	3	3	3	4	3	3	5	7	62
Bangor	6	5	7	6	5	5	6	6	6	6	5	7	70

Average # of Days Airport Below 200' ½

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
McGuire	0.5	0.5	0.5	0	0	0	0.5	0.5	0.5	0.5	0.5	0.5	4.5
Pittsburgh	1	0.5	0.5	0	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1	6.5
Niagara	0.5	1	1	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1	0.5	7.5
Bangor	1	1	1	1	0.5	1	1	1	1	1	1	1	11.5
Pease	1	1	1	1	1	1	1	1	1	1	1	1	12

Appendix 9: Background Paper: Integration of the 108<sup>th</sup> ARW and USAF Mobility Weapons School (Maj Francine Main/108OGV/4-6314/fm/2 Jun 05)

The New Jersey Air National Guard, McGuire AFB, offers a unique partnership opportunity to the Center of Excellence for Air Mobility operated by the Air Mobility Warfare Center located on neighboring Fort Dix. Currently, the USAF Mobility Weapons School is headquartered at Fort Dix; however, the flying organizations are situated at Little Rock AFB, Arkansas (C-130), Fairchild AFB, Washington (KC-135), and McGuire AFB, New Jersey (C-17). With conversion of the 108th Air Refueling Wing to a composite wing consisting of KC-135R and C-130J aircraft in partnership with the Mobility Weapons School, all three Weapons Squadrons can be united on one airfield with existing adjacent airspace amenities.

- *Home Stationing at Fort Dix/McGuire AFB offers a full complement of support services with ample expansion capability.*
  - Base can support a high volume of air traffic without encroachment issues
  - Conveniently located near Special Use Airspace (W107/105), Drop Zone (Coyle DZ) and assault runway facilities (Lakehurst Naval Air Engineering Station)
  - Successful joint ventures with McGuire AFB (57th Weapons Squadron) and Lakehurst Naval Air Engineering Station (Expeditionary Operations School) in operation
  
- *Affiliation with 108th Air Refueling Wing provides highly skilled work force with proven reliability*
  - Ten-Year Mission Capability Rating 73.9% with Mission Effectiveness Rate of 98.2%
    - Highly skilled maintenance force – 53% 7-level or higher
    - Aircrew Qualification: 27 Instructor Pilots (43%), 50 Aircraft Commanders (79%), 13 Instructor Boom Operators (35%)
    - Average Crewmember experience: 2782 hours
  - Highly Accomplished Unit
    - USAF Outstanding Unit Award and Lt Gen Malcolm B. Armstrong Trophy for the best Air National Guard unit in 21st Air Force
    - Tactics Shop cited as “best seen to date” by ASEV team
    - First ever ANG tanker unit deployed under an Air Combat Command Air Expeditionary Wing
  
- *Unification of Mobility Weapons Schools consolidates existing resources and reduces relocation costs*
  - Headquarters of the Mobility Weapons School and Ronald R. Fogelman Library located at Fort Dix Campus
    - Single building can house two relocating (or all three squadrons) with shared classrooms, administrative staffs and facilities for approximately \$12 million
    - Increase in Student travel costs is only 13%; however, travel access to major airports is greatly improved

- Infrastructure for a seamless transition currently in place
  - Ramp facilities designed for a 20 PMAI KC-135 operation
  - New, modern Squadron Operations building
- *Composite Wing of KC-135R and C-130J aircraft provides vital aerial refueling and tactical airlift support to the State of New Jersey and the Northeast region*
  - Missions are well suited to the Air National Guard
    - The ANG provides 42% of the Tanker force and 40% of the Tactical Airlift force
  - Strategic location of McGuire AFB vital for expeditionary airlift and aerial refueling
    - 108th ARW currently maintains two active Bravo Alert lines for the Tanker Task Force
    - Combat proven: Mission effectiveness rate of 99.5 percent in Operation ENDURING FREEDOM while flying 693 combat/combat support missions
  - Quick response capability to the New York and Washington metropolitan areas makes the 108th ARW essential to homeland defense
    - Unit averaged 3 alert sorties and 2 Combat Air Patrol (CAP) refuelings per day for a year under Operation NOBLE EAGLE
    - Aircrews flew over 2300 hours on 540 sorties offloading over 11 millions pounds of fuel to fighter and AWACs aircraft
    - Over 690 days of alert performed with over 140 mission launches to support CAP refuelings
  - Total NOBLE EAGLE and ENDURING FREEDOM numbers outpace any single ANG unit:
    - Wing flew 20% of ANG tanker missions and 4% of all ANG flying hours and sorties for the 2001-2002 timeframe