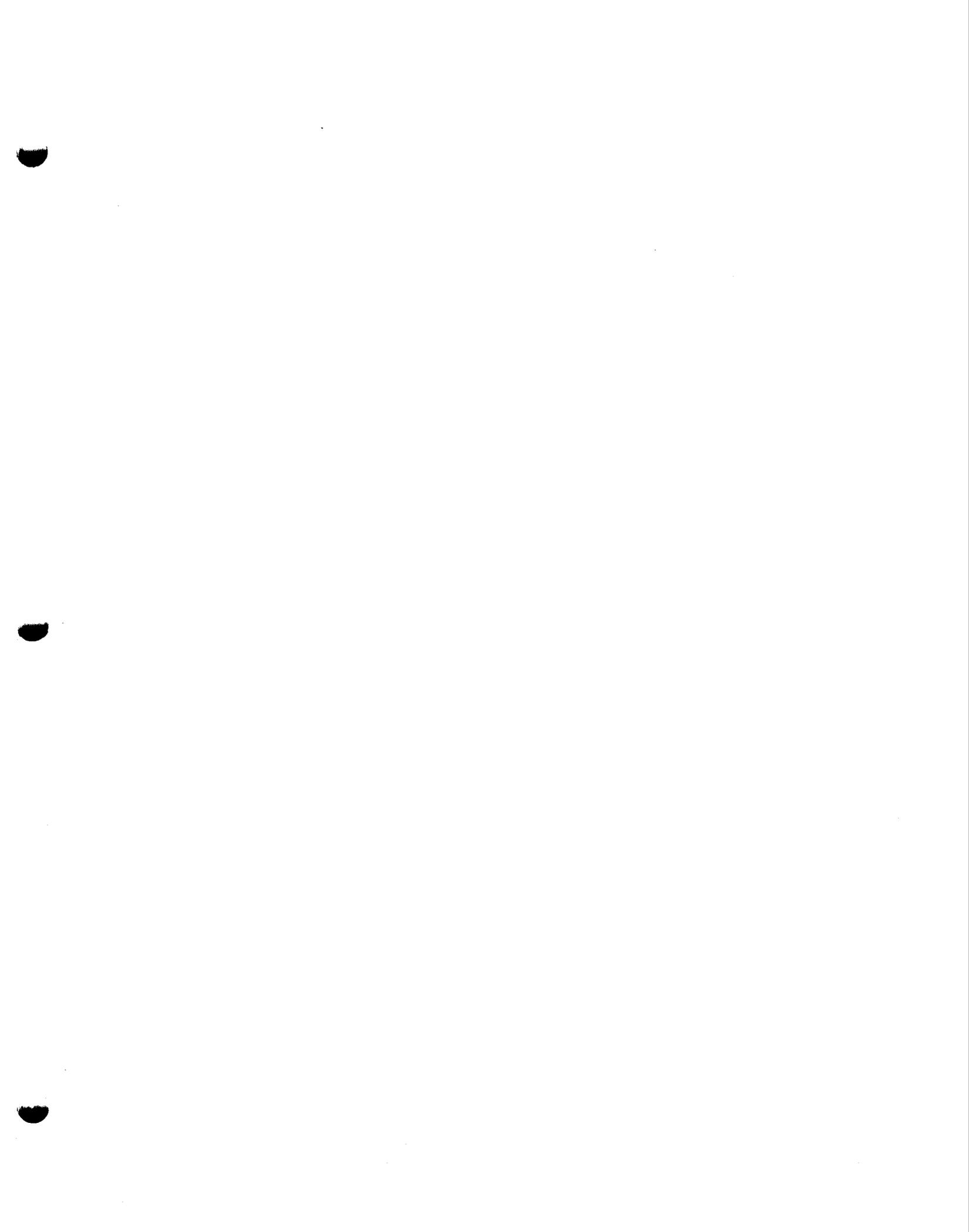


# **MINOT AFB, ND**

**BRAC95  
AIR FORCE TEAM**

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# DEFENSE BASE CLOSURE AND REALIGNMENT COMMISSION

## SUMMARY SHEET

### MINOT AIR FORCE BASE, NORTH DAKOTA

#### INSTALLATION MISSION

Air Combat Command base. Home of the 5th Bombardment Wing (26 B-52H). Major tenant is the 91st Missile Group (150 Minuteman III).

#### DOD RECOMMENDATION

- Realignment of Grand Forks AFB.
- The 321st Missile Group will inactivate and a portion of the Minuteman III missiles from the Group will be relocated to Malmstrom AFB, Montana, to support ongoing conversion from Minuteman II to Minuteman III.
- All activities and facilities at Grand Forks AFB associated with the 319th Air Refueling Wing, including family housing, hospital, commissary, and base exchange, will remain open.

#### COMMISSION ALTERNATIVE

- Add Minot AFB for Realignment.
- The 91st Missile Group will inactivate and a portion of the Minuteman III missiles from the group will be relocated to Malmstrom AFB, Montana, to support ongoing conversion from Minuteman II to Minuteman III.
- All activities and facilities at Minot AFB associated with the 5th Bomb Wing, including family housing, hospital, commissary, and base exchange, will remain open.

#### JUSTIFICATION

- The Nuclear Posture Review recommended an ICBM force structure consisting of “three wings of Minuteman III missiles carrying single warheads (500-450).” This requires inactivation of one missile group within the Air Force.
- The Air Force analysis of missile field operational effectiveness ranked Minot higher than Grand Forks based on target coverage, availability for launch, survivability, operations and maintenance accessibility, and logistics supportability.

#### STAFF COMMENTS

None.

## **MILITARY ISSUES**

- The missile field at Minot has had the highest alert rate in the Air Force for the last seven years.

## **COMMUNITY CONCERNS/ISSUES**

- A single Weapons Storage Area can be used to support both the bomb wing and missile group.
- The evaluation criteria for "Facilities Condition: Housing" is based on the number of units needing upgrade to whole house standards. This is a poor measure of overall quality of housing at Minot AFB where houses have been upgraded inside and out, but have been deferred from undergoing the whole house upgrade, which would have increased their square footage, because they were in better condition than housing at many other bases.
- Overall rating for "Facilities" was green in 1993. Rating has now changed to yellow with no change in facilities.
- Utilities are low cost (1 cent/kilowatt hour for electricity versus 9 cent national average) and there is plenty of additional capacity for electricity, water, and sewer.

## **ITEMS OF SPECIAL EMPHASIS**

None.

Olson/AF Team/June 16, 1995

**COST CONSIDERATIONS DEVELOPED BY DOD**

- One-Time Costs: \$17.3 million
- Net Costs (Savings) During Implementation \$109.5 million
- Annual Recurring Savings \$36.1 million
- Return on Investment Year Immediate
- Net Present Value Over 20 Years \$453.7 million

**MANPOWER IMPLICATIONS OF THIS RECOMMENDATION (EXCLUDES CONTRACTORS)**

	<u>Military</u>	<u>Civilian</u>	<u>Students</u>
<b>Baseline</b>	4,595	525	0
Reductions	809	46	0
Realignments	0	0	0
<b>Total</b>	<b>809</b>	<b>46</b>	<b>0</b>

**MANPOWER IMPLICATIONS OF ALL RECOMMENDATIONS AFFECTING THIS INSTALLATION (INCLUDES ON-BASE CONTRACTORS AND STUDENTS)**

Out		In		Net Gain (Loss)	
<u>Military</u>	<u>Civilian</u>	<u>Military</u>	<u>Civilian</u>	<u>Military</u>	<u>Civilian</u>
1506	160	0	0	(1506)	(160)

**ENVIRONMENTAL CONSIDERATIONS**

- Environmental impact is minimal and ongoing restoration will continue.

**REPRESENTATION**

Senators: Kent Conrad  
 Byron Dorgan  
 Representative: Earl Pomeroy  
 Governor: Edward Schafer

**ECONOMIC IMPACT**

- Potential Employment Loss: 2,172 Jobs (1,666 Direct, 506 Indirect)
- Ward County Economic Area: 35,475 Jobs
- Percentage: 3.1 percent decrease
- Cumulative Economic Impact (1996-2001): 3.1 percent decrease

# 1995 DoD Recommendations and Justifications

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## Grand Forks Air Force Base, North Dakota

**Recommendation:** Realign Grand Forks AFB. The 321st Missile Group will inactivate, unless prior to December 1996, the Secretary of Defense determines that the need to retain ballistic missile defense (BMD) options effectively precludes this action. If the Secretary of Defense makes such a determination, Minot AFB, North Dakota, will be realigned and the 91st Missile Group will inactivate.

If Grand Forks AFB is realigned, the 321st Missile Group will inactivate. Minuteman III missiles will relocate to Malmstrom AFB, Montana, be maintained at depot facilities, or be retired. A small number of silo launchers at Grand Forks may be retained if required. The 319th Air Refueling Wing will remain in place. All activities and facilities at the base associated with the 319th Air Refueling Wing, including family housing, the hospital, commissary, and base exchange will remain open.

If Minot AFB is realigned, the 91st Missile Group will inactivate. Minuteman III missiles will relocate to Malmstrom AFB, Montana, be maintained at depot facilities, or be retired. The 5th Bomb Wing will remain in place. All activities and facilities at the base associated with the 5th Bomb Wing, including family housing, the hospital, commissary, and base exchange will remain open.

**Justification:** A reduction in ICBM force structure requires the inactivation of one missile group within the Air Force. The missile field at Grand Forks AFB ranked lowest due to operational concerns resulting from local geographic, geologic, and facility characteristics. Grand Forks AFB also ranked low when all eight criteria are applied to bases in the large aircraft subcategory. The airfield will be retained to satisfy operational requirements and maintain consolidated tanker resources.

If the Secretary of Defense determines that the need to retain BMD options effectively precludes realigning Grand Forks, then Minot AFB will be realigned. The missile field at Minot AFB ranked next lowest due to operational concerns resulting from spacing, ranging and geological characteristics. Minot AFB ranked in the middle tier when all eight criteria are applied to bases in the large aircraft subcategory. The airfield will be retained to satisfy operational requirements.

**Return on Investment:** For Grand Forks, the total estimated one-time cost to implement this recommendation is \$11.9 million. The net of all costs and savings during the implementation period is a savings of \$111.8 million. Annual recurring savings after implementation are \$35.2 million with an immediate return on investment. The net present value of the costs and savings over 20 years is a savings of \$447.0 million. Savings associated with the inactivation of a missile field were previously programmed in the Air Force budget.

**Return on Investment:** If Minot AFB is selected, the total estimated one-time cost to implement this recommendation is \$12.0 million. The net of all costs and savings during the implementation period is a savings of \$114.8 million. Annual recurring savings after implementation are \$36.1 million with an immediate return on investment. The net present value of the costs and savings over 20 years is a savings of \$458.6 million. Savings associated with the closure of a missile field were previously programmed in the Air Force budget.

**Impacts:** For Grand Forks AFB, assuming no economic recovery, this recommendation could result in a maximum potential reduction of 2,113 jobs (1,625 direct jobs and 488 indirect jobs) over the 1996-to-2001 period in the Grand Forks County, North Dakota economic area, which is 4.7 percent of the economic area's employment. Environmental impact from this action is minimal and ongoing restoration at Grand Forks AFB will continue.

**Impacts:** If Minot is selected, assuming no economic recovery, this recommendation could result in a maximum potential reduction of 2,172 jobs (1,666 direct jobs and 506 indirect jobs) over the 1996-to-2001 period in the Minot County, North Dakota economic area, which is 6.1 percent of the economic area's employment. Environmental impact from this action is minimal and ongoing restoration at Minot AFB will continue.

## BACKGROUND PAPER

ON

### NORTHERN TIER MISSILE BASES

	MINUTEMAN	PEACEKEEPER	KC-135R	B-52H
GRAND FORKS	150	0	48	0
MINOT	150	0	0	26
MALMSTROM	200	0	12	0
FE WARREN	150	50	0	0

DoD proposal closes the missile group at Grand Forks AFB or Minot AFB and moves 120 of the missiles to Malmstrom AFB to complete the Minuteman II to Minuteman III conversion program. In addition, the proposal terminates fixed-wing flying operations at Malmstrom AFB and relocates 12 KC-135R aircraft to MacDill AFB.

- Substitutes Minot AFB for Grand Forks AFB missile field only if the need to retain ABM Treaty options precludes closure of the Grand Forks missile field.
- Responds to Nuclear Posture Review requirement to eliminate one missile group/wing and addresses tanker shortfall in Southeastern US.
- Excludes the missile field at FE Warren AFB from consideration because it is the only Peacekeeper missile base, and early inactivation of Peacekeeper missiles could adversely affect START.
- Avoids moving KC-135s from Grand Forks AFB because it is one of three core tanker bases (Others are Fairchild AFB and McConnell AFB).

DoD ranked Grand Forks AFB Tier III and Minot AFB and Malmstrom AFB Tier II based on analysis of the military effectiveness of their respective missile fields and their ability to support large aircraft flying operations. FE Warren was excluded from tiering.

- JCS annual analysis shows no difference in survivability or alert rates for any of the four missile groups/wings, and no shortfall in target coverage.
- The Nuclear Posture Review recommends an ICBM force structure consisting of "three wings of Minuteman III missiles carrying single warheads (500/450)."

-- DoD analysis does not use the number of missiles (500 or 450) as a measure of missile military effectiveness. USSTRATCOM believes 500 ICBMs provide more military value.

- Ground water intrusion requires some additional maintenance at Grand Forks AFB, but is managed effectively at no discernible additional cost. Surface water problems at all missile units have been eliminated by topside grading. Other missile bases have their own unique maintenance challenges.

COBRA Level Play analysis (below) shows that complete closure of Grand Forks AFB, Minot AFB, or Malmstrom AFB would produce substantially greater savings than the DoD proposed realignments. Data on FE Warren AFB was not included in the DoD proposal but has been requested.

1	COST TO CLOSE	ANNUAL RECURRING SAVINGS	NET PRESENT VALUE (2015)	ECONOMIC IMPACT
DOD GRAND FORKS-MALM PROPOSAL	29.3M	40.3M	501.3M	4.7% Grand Forks 2.3% Great Falls
DOD MINOT-MALM PROPOSAL	29.4M	41.1M	512.9M	6.1% Minot 2.3% Great Falls
MINOT CLOSE	59.3M	71.1M	783.5M	18.4% Minot
GRAND FORKS CLOSE	130.0M	58.4M	704.6M	15.4% Grand Forks
MALMSTROM CLOSE	32.7M	56.8M	762.9M	15.2% Great Falls
FE WARREN REALIGN	REQUESTED	REQUESTED	REQUESTED	REQUESTED

Potential options include:

- Close Minot AFB. Inactivate 150 Minuteman III missiles; Relocate 26 B-52H aircraft to Beale AFB , Fairchild AFB, or Barksdale AFB.

-- Satisfies the requirement to eliminate a missile group/wing.

-- Does not respond to the Southeastern US tanker shortfall, but this could be addressed by the separate realignment of tankers from Malmstrom AFB.

-- Counters Air Force decision to leave B-52s at Minot.

- Close Grand Forks AFB. Inactivate 150 Minuteman III missiles; Relocate 48 KC-135R tankers to Malmstrom AFB (24) and MacDill AFB (24).

-- Inactivation of missile field is uncertain due to ABM issue.

-- Breaks up one of three core tanker bases.

- Close Malmstrom AFB. Inactivate 200 Minuteman II/III missiles: Relocate 12 KC-135R tankers to Mac Dill AFB.

-- Avoids Minuteman II to Minuteman III conversion.

-- Reduces ICBM force to 450 missiles.

--Satisfies missile reduction and tanker relocation objectives.

- Realign FE Warren AFB. Inactivate 150 Minuteman III missiles to facilitate a non-BRAC closure when Peacekeeper missiles are deactivated in 2003.

-- Uncosted but likely to produce significant annual savings.

-- Does not respond to the Southeastern US tanker shortfall, but this could be addressed separately by the realignment of tankers from Malmstrom AFB.

-- Overturns Air Force decision to exclude FE Warren AFB, but avoids early inactivation of Peacekeeper missiles.

Olson/AF Team/10 April 1995/1100

**BACKGROUND PAPER  
ON  
GRAND FORKS AFB - ABM ISSUE**

**BACKGROUND**

- The DoD recommendation to realign Grand Forks AFB says that “the 321st Missile Group will inactivate unless prior to December 1996 the Secretary of Defense determines that the need to retain ballistic missile defense options effectively precludes this action.”
- During the March 1, 1995 hearing, Secretary Perry indicated that he could not promise a recommendation by late June, because the ABM determination requires an interagency process.
- On March 7, 1995 the Commission voted to add Minot AFB for realignment and inactivation of the 91st Missile Group if ABM considerations preclude the proposed realignment of Grand Forks AFB.

**ABM AGREEMENT**

- ABM Treaty--Signed May 23, 1972, ratified October 3, 1972
  - Restricts the number of ABM deployment areas by permitting each nation to have one limited ABM system to protect its capital and another to protect an ICBM launch area. (Treaty, Article III (a), (b))
- Agreed Statements, Common Understandings, Unilateral Statements--Signed May 26, 1972
  - Stipulates that the US ABM deployment area for defense of ICBM silos “will be centered in the Grand Forks ICBM silo launcher deployment area.” (Agreed Statement, Paragraph A)
  - Permits second site to be located in Washington DC area.
- Protocol to the ABM Treaty--Signed July 3, 1974, ratified March 19, 1976
  - Further restricts ABM deployments by requiring that “each Party shall be limited at any one time to a single area out of the two provided in Article III of the Treaty for the deployment of ABM systems.” (Protocol, Article I)
  - Permits each side to reverse its original choice of an ABM site, and states that the right to change from the original deployment site to the alternate site may be exercised only once. (Protocol, Article II) Thus, the US could dismantle its ABM site near Grand Forks AFB and deploy an ABM system in the Washington DC area, but not elsewhere.
  - Requires advance notice be given prior to changing from the original deployment site to the alternate site, and stipulates that this can only be done during a year in which the ABM Treaty is scheduled for review by the Standing Consultative Committee. (Protocol, Article II) Accordingly, this could be done during the next five year review in 1997.

## AIR FORCE POSITION - 1993

- During June 17, 1993 hearing, the Deputy Assistant Secretary of the Air Force for Installations (Mr. Boatwright) was asked if the ABM site would “preclude closure of Grand Forks AFB or its attached ICBM missile field now or during the 1995 round of the base closure process. He provided the following insert for the record:

“The ABM Treaty would not preclude closure of Grand Forks AFB. A major provision of the treaty limits deployment of ABM systems to one site located either around the nation’s capital or centered within a group of ICBM silo launchers. If the base is closed and all silo launchers are eliminated, the US would have the right to relocate the US ABM system to the nation’s capital, not to another ICBM base or some other location. If we eliminate all the ICBM silo launchers in the deployment area and choose not to relocate the ABM system, the Treaty is unclear whether the US may leave the ABM system in place without dismantling it or reactivate it someday. The existence of the ICBM launchers was a *sine qua non* for the initial deployment of the ABM system there pursuant to Article III. But a review of the negotiating record would be required to determine whether the US would still have a right to an ABM system there. In any case, the US could seek explicit agreement of the Treaty Parties to have an ABM system there.” (Emphasis added.)

## DOD POSITION - 1995

- During March 1, 1995 hearing, The Deputy Secretary of Defense (Mr. Deutch) was asked about ABM implications and responded as follows:

“In order to come to a proper judgment on it, it’s not just a Department of Defense matter. We have to get interagency views from others about the treaty implications. That’s going to take some period of time. I believe the material transmitted to the Commission contains a view from our General Counsel and our Undersecretary for Policy that we think it’s clean from the point of view of the Treaty. But we do need to have interagency confirmation of that ...” (No separate views have been received from the General Consul or Undersecretary for Policy, but their views may be implicit in the DoD recommendation.) (Emphasis added.)

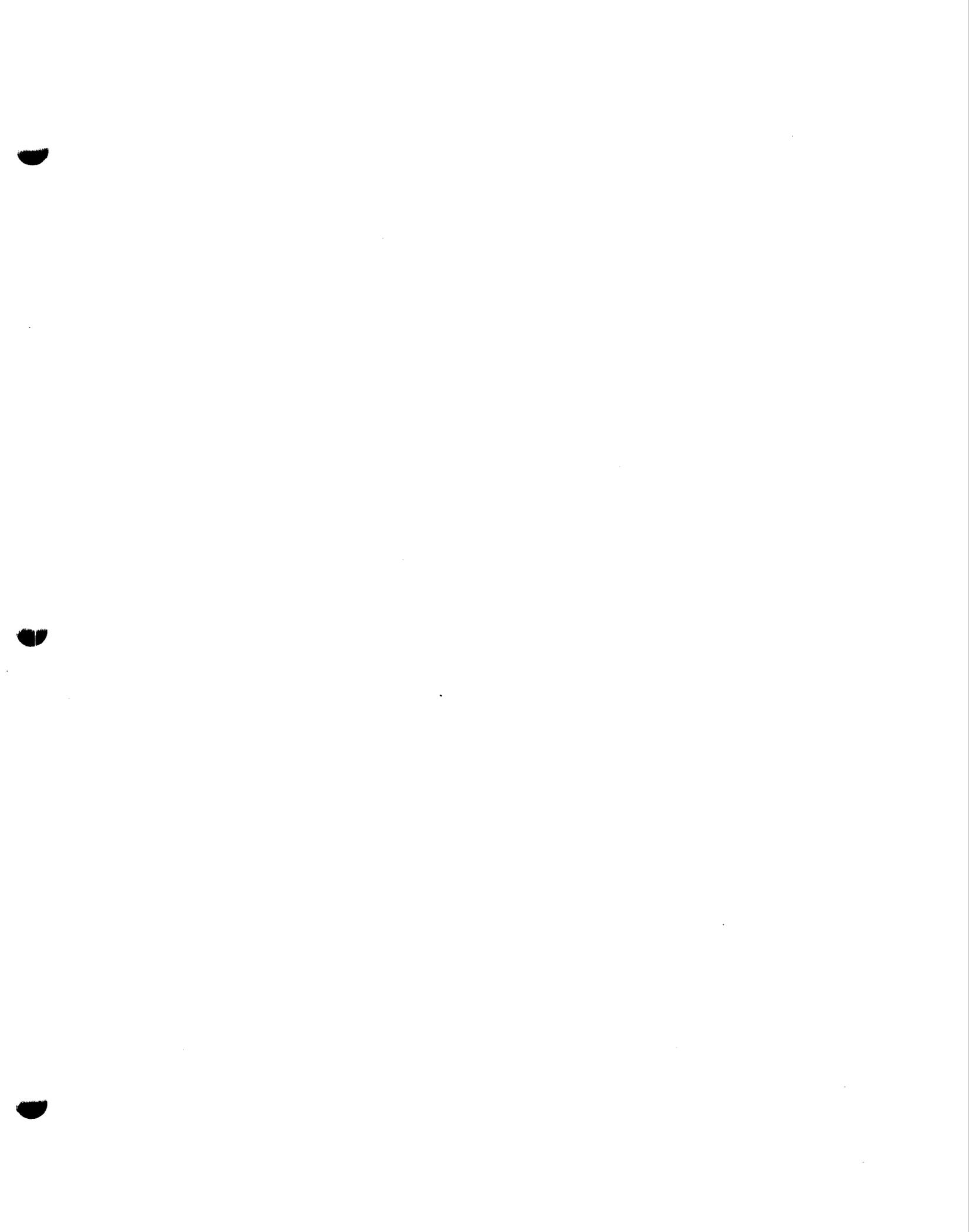
## GRAND FORKS COMMUNITY POSITION

- In a December 9, 1994 letter, Ambassador Edward L. Rowny argued that closing Grand Forks AFB “would be prejudicial to the national security interest of the United States.”

-- Closing the missile field at Grand Forks AFB without working out the details with the former Soviet Union could signal that the US is working unilaterally to change the ABM Treaty.

-- Moving the ABM site from Grand Forks will require negotiations that could complicate plans for eventually establishing a multiple site strategic defense of the US.

David Olson/AF Team/Mar 20, 1995/12:00



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**USAF BASE FACT SHEET**  
**MINOT AIR FORCE BASE, NORTH DAKOTA**



**MAJCOM/LOCATION/SIZE:** ACC base thirteen miles north of Minot with 5,383 acres

**MAJOR UNITS/FORCE STRUCTURE:**

- 5th Bomb Wing
  - 26 B-52H and 5 T-38A
- 91st Missile Group (AFSPC)
  - 150 Minuteman III and 4 HH-1H

**USAF MANPOWER AUTHORIZATIONS:** (As of FY 95/2)

MILITARY--ACTIVE	4,629
CIVILIAN	<u>532</u>
TOTAL	5,161

**ANNOUNCED ACTIONS:**

- As a result of the DOD Bottom-Up Review, the Air Force deleted funding for 150 Minuteman launch facilities. Additional actions concerning missile launch facilities will be determined by the 1995 Defense Base Closure and Realignment Commission.
- The Air Force will reduce approximately 11,700 civilian authorizations in fiscal year 1995. These reductions are a result of the Federal Workforce Restructuring Act of 1994, the National Performance Review, and depot workload reductions. This action helps bring Department of Defense civilian employment levels in line with overall force reductions and results in a decrease of 42 civilian manpower authorizations at Minot AFB.

**MILITARY CONSTRUCTION PROGRAM (\$000):**

**FISCAL YEAR 94**

Underground Fuel Storage Tanks	2,000
Repair Runway/Taxiway (Congress Insert)	8,500
Alter ECM/Bomb Navigation/AMU Facilities (Base Closure)*	1,240
Alter Base Supply Warehouse (Base Closure)*	<u>140</u>
TOTAL	11,880

Basing Manager: Major Ridley/XOOB/42123

Editor: Ms Wright/XOOBD/46675/16 Feb 95

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**MINOT AIR FORCE BASE, NORTH DAKOTA (Cont'd)**

**FISCAL YEAR 95:**

Upgrade Storm Drainage Facilities	1,500
Underground Fuel Storage Tanks	1,400
Underground Fuel Storage Tanks (Missile Facilities)	2,950
Repair Parking Apron (Congress Insert)**	4,500
B-52 Pylon/Launcher Storage Facility (Base Closure)*	2,670
Corrosion Control Facility (Base Closure)*	<u>600</u>
<b>TOTAL</b>	<b>13,620</b>

\* Projects forecast for funding by the Base Closure Account. Associated with the 1993 Defense Base Closure and Realignment Commission recommendation to realign Griffiss AFB, NY.

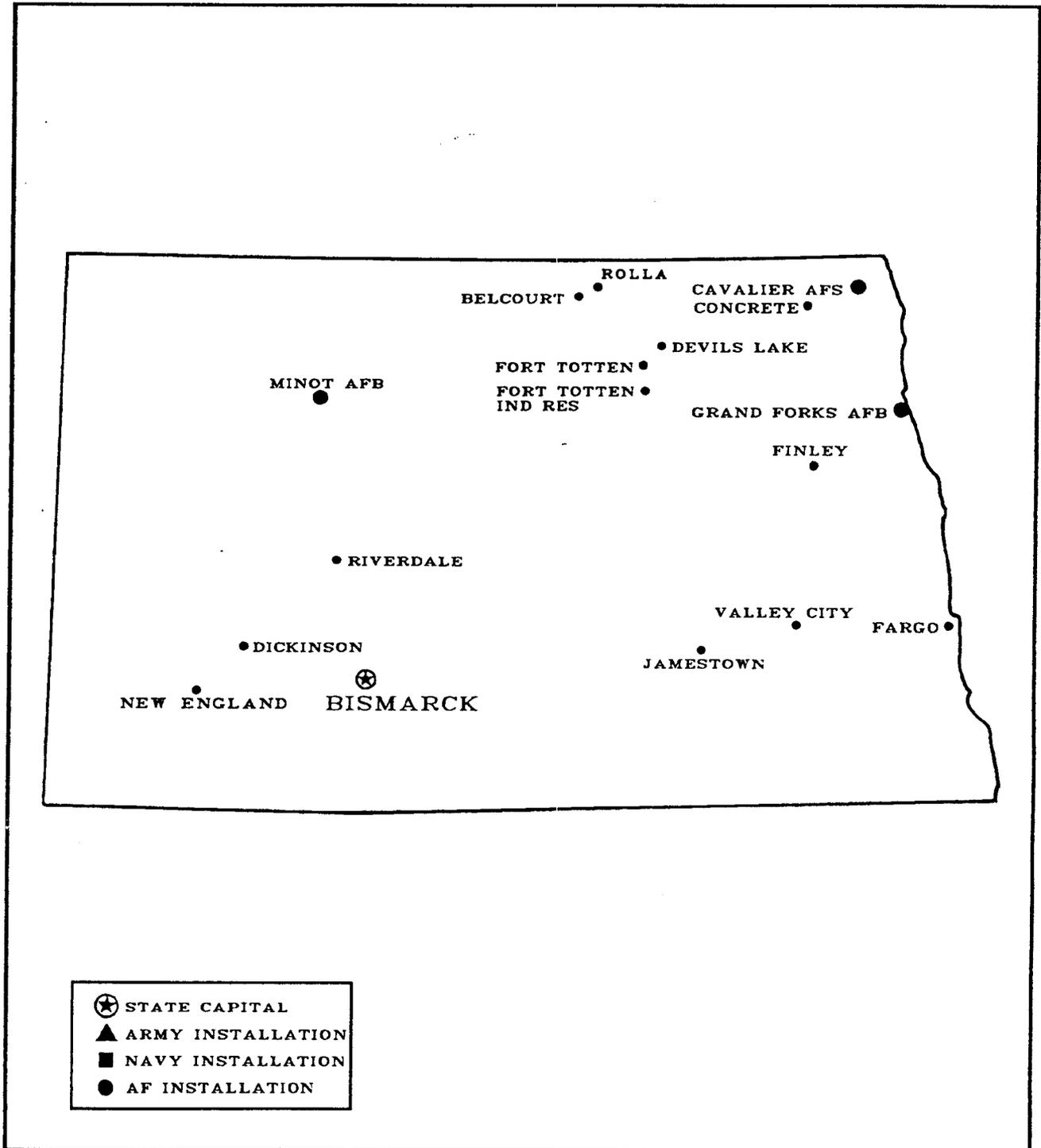
\*\* Congress directed Air Force to use O&M funds for this project.

**SIGNIFICANT INSTALLATION ISSUES/PROBLEMS: None**



# MAP NO. 35

## NORTH DAKOTA



Prepared By: Washington Headquarters Services  
Directorate for Information  
Operations and Reports

# NORTH DAKOTA

FISCAL YEAR 1994

(DOLLARS IN THOUSANDS)

Personnel/Expenditures	Total	Army	Navy & Marine Corps	Air Force	Other Defense Activities
<b>I. Personnel - Total</b>	19,295	5,795	683	12,662	155
Active Duty Military	9,786	26	10	9,750	0
Civilian	1,702	273	1	1,273	155
Reserve & National Guard	7,807	5,496	672	1,639	0
<b>II. Expenditures - Total</b>	\$460,379	\$95,410	\$9,495	\$347,122	\$8,352
<b>A. Payroll Outlays - Total</b>	340,399	45,036	6,108	285,254	3,999
Active Duty Military Pay	214,314	806	285	213,223	0
Civilian Pay	53,545	8,303	48	41,195	3,999
Reserve & National Guard Pay	34,148	26,689	801	6,658	0
Retired Military Pay	38,392	9,240	4,974	24,178	0
<b>B. Prime Contracts Over \$25,000     Total</b>	119,980	50,372	3,387	61,868	4,353
Supply and Equipment Contracts	7,851	626	3,387	1,422	2,416
RDT&E Contracts	841	841	0	0	0
Service Contracts	65,891	3,944	0	60,010	1,937
Construction Contracts	27,244	26,808	0	436	0
Civil Function Contracts	18,153	18,153	0	0	0

Major Locations of Expenditures	Expenditures			Major Locations of Personnel	Military and Civilian Personnel		
	Total	Payroll Outlays	Prime Contracts		Total	Active Duty Military	Civilian
Grand Forks AFB	\$153,542	\$106,952	\$46,590	Minot AFB	5,452	4,869	583
Minot AFB	145,158	123,122	22,036	Grand Forks AFB	5,295	4,753	542
Grand Forks	41,461	23,784	17,677	Fargo	397	106	291
Fargo	31,134	27,604	3,530	Bismarck	158	0	158
Minot	26,174	10,691	15,483	Devils Lake	58	0	58
Bismarck	18,618	18,534	84	New England	32	32	0
Cavalier	7,153	1,064	6,089	Cavalier	30	25	5
Devils Lake	6,255	6,144	111	Minot	24	1	23
Jamestown	4,927	1,635	3,292	Valley City	18	0	18
Valley City	2,134	2,102	32	Dickinson	6	0	6

Prime Contracts Over \$25,000 (Prior Three Years)	Total	Army	Navy & Marine Corps	Air Force	Other Defense Activities
Fiscal Year 1993	\$172,044	\$72,962	\$6,550	\$71,738	\$20,794
Fiscal Year 1992	146,270	69,567	6,475	56,472	13,756
Fiscal Year 1991	148,658	85,536	3,259	49,878	9,985

Top Five Contractors Receiving the Largest Dollar Volume of Prime Contract Awards in this State	Total Amount	Major Area of Work	
		FSC or Service Code Description	Amount
1. INDUSTRIAL BUILDERS, INC	\$14,968	All Other Non-Building Facilities	\$15,100
2. STRATA CORPORATION	8,340	Airport Runways	7,357
3. MEINECKE-JOHNSON COMPANY	6,975	Other Administrative & Service Buildings	6,975
4. DUBOIS & SONS MASONRY INC	6,838	Maint/Other Residential Buildings	3,770
5. CAPE, JAMES & SONS COMPANY	5,790	Airport Runways	5,790
Total of Above	\$42,911	( 35.8% of total awards over \$25,000)	

Prepared by: Washington Headquarters Services  
 Directorate for Information  
 Operations and Reports

# CLOSURE HISTORY - INSTALLATIONS IN NORTH DAKOTA

15-Aug-95

SVC	INSTALLATION NAME	ACTION YEAR	ACTION SOURCE	ACTION STATUS	ACTION SUMMARY	ACTION DETAIL
AF	CAVALIER AFS					
	GRAND FORKS AFB	93	DBCRC	ONGOING	REALIGNUP	1993 DBCRC: Closure recommendation of Griffiss AFB, NY directs movement of KC-135 aircraft into Grand Forks AFB, ND. Also, B-1Bs move to Ellsworth AFB, SD. Personnel movement in are: 320 Mil and 10 Civ.
	HECTOR FIELD IAP AGS					
	MINOT AFB	93	DBCRC	ONGOING	REALIGNUP	1993 DBCRC: Griffiss AFB, NY closure recommends relocation of B-52Hs to Minot AFB, ND. Movement of personnel into Minot: 315 Mil and 3 Civ



## **BASE VISIT REPORT**

### **MINOT AIR FORCE BASE, ND**

**30 MARCH 1993**

#### **LEAD COMMISSIONER:**

Commissioner James B. Davis

#### **ACCOMPANYING COMMISSIONER:**

Commissioner Rebecca G. Cox  
Commissioner S. Lee Kling

#### **COMMISSION STAFF:**

Mr. David Lyles, Staff Director  
Mr. Wade Nelson, Communications Director  
Mr. Ralph Kaiser, Counsel  
Mr. Frank Cirillo, Air Force Team Leader  
Mr. David Olson, Air Force Team Analyst  
Mr. Frank Cantwell, Air Force Team Analyst

#### **LIST OF ATTENDEES:**

Senator Kent Conrad  
Representative Earl Pomeroy  
Governor Edward Schafer  
Mayor Orlin Backes, Mayor of Minot  
Mr. John MacMartin, President, Minot Chamber of Commerce  
Mr. Bruce Christianson, Co-chairman, Task Force '96  
Mr. Buzz Syria, Co-chairman, Task Force '96  
Brig Gen (Sel) Ralph Pasini, Commander, 5th Bomb Wing  
Col Frank Klotz, Commander 91st Missile Group

#### **BASE'S PRESENT MISSION:**

Air Combat Command base. Home of the 5th Bombardment Wing (26 B-52H). Major tenant is the 91st Missile Group (150 Minuteman III).

#### **DOD RECOMMENDATION:**

- Conditional realignment based on the need to retain the ICBM field at Grand Forks AFB to protect ABM options.

- Commission added for further study on March 7, 1995.
- The 321st Missile Group at Grand Forks AFB will inactivate unless prior to December 1996, the Secretary of Defense determines that the need to retain ballistic missile defense (BMD) options effectively precludes this action. If the Secretary of Defense makes such a determination, Minot AFB, North Dakota, will realign and the 91st Missile Group will inactivate.
- A portion of the Minuteman III missiles from the group which is inactivated will be relocated to Malmstrom AFB, Montana, to support ongoing conversion from Minuteman II to Minuteman III.
- All activities and facilities at Minot AFB associated with the 5th Bomb Wing, including family housing, hospital, commissary, and base exchange, will remain open.

### **DOD JUSTIFICATION:**

- The Nuclear Posture Review recommended an ICBM force structure consisting of “three wings of Minuteman III missiles carrying single warheads (500-450).” This requires inactivation of one missile group within the Air Force.
- The missile field at Grand Forks ranked lower than either Minot or Malmstrom, but may be precluded from inactivation.
- The missile field at Minot ranked lower than Malmstrom due to operational concerns.
- The missile field at FE Warren AFB, Wyoming, was excluded from consideration because it is the only Peacekeeper missile base. The DoD force structure plan requires Peacekeeper missiles through the period during which BRAC actions must be taken, and inactivation of Peacekeeper missiles could have adverse START implications.

### **MAIN FACILITIES REVIEWED:**

Child Development Center, Education Center, Commissary, Base Housing, 91st Missile Group Headquarters, Missile Maintenance Shops and Staging Facility, Missile Roll Transfer Facility, Nose Dock 7 (Munitions Staging), B-52 Ramp, Upgraded Runway (Code 1), Regional Hospital, Missile Alert Facility N-01, Launch Facility N-06.

### **KEY ISSUES IDENTIFIED:**

- The Air Force analysis of missile field operational effectiveness ranked Minot AFB higher than Grand forks AFB but lower than Malmstrom AFB based on target coverage, availability for launch, survivability, operations and maintenance accessibility, and logistics supportability.
- The 1974 Protocol to the 1972 ABM Treaty restricts each side to deployment of one ABM site located at either an ICBM field or the nation’s capital. The United States agreed that its ABM system “will be centered in the Grand Forks ICBM silo launcher deployment area.”
- Minot AFB is one of two B-52 bomber bases.
- Construction during 1994 upgraded the Minot AFB runway condition to Code 1.
- A single Weapons Storage Area can be used to support both the bomb wing and missile group.

### **COMMUNITY CONCERNS RAISED:**

- Retaining Minot AFB as a multi-mission base (bombers and missiles) is more efficient than the current DoD proposal that creates single mission bases at Minot AFB (bombers) and Malmstrom AFB (missiles).
- Air Force rationale for excluding the FE Warren AFB, WY missile field should be reviewed since Peacekeeper missiles are already scheduled for retirement in 2003.
- Grading scale for "Mission (Missile) Requirements" awards green, yellow, and red to reflect order of finish for the three bases under consideration. The yellow received by Minot may be misconstrued as a negative.
- Air Force rationale for excluding the FE Warren AFB, WY missile field should be reviewed since Peacekeeper missiles are already scheduled for retirement in 2003.
- The evaluation criteria for "Facilities Condition: Housing" is based on the number of units needing upgrade to whole house standards. The community believes this is a poor measure of overall quality of housing at Minot AFB where houses have been upgraded inside and out, but have been deferred from undergoing the whole house upgrade, which would have increased their square footage, because they were in better condition than housing at many other bases.
- Overall rating for "Facilities" was green in 1993. Rating has now changed to yellow with no change in facilities.
- The missile field at Minot has had the highest alert rate in the Air Force for the last seven years. It has always been considered fully capable of performing its assigned mission, and remains so today according to the BCEG.
- The runway condition has been recently upgraded to Code 1.
- State and local zoning guarantee no future runway encroachment problems.
- Utilities are low cost (1 cent/kilowatt hour for electricity versus 9 cent national average) and there is plenty of additional capacity for electricity, water, and sewer.

### **REQUESTS FOR STAFF AS A RESULT OF VISIT:**

- Request focused COBRAs for closure and realignment of FE Warren AFB.
- Review Air Force rationale for excluding FE Warren AFB.
- Request Maintenance Information Management System data on alert rates, unscheduled maintenance, and non-dispatch days for Minot, Grand Forks, Malmstrom, and FE Warren AFBs.
- Develop comparative cost analysis for complete closure of Minot, Grand Forks, Malmstrom or FE Warren AFB versus proposed realignments.

Olson/AF Team/3 April 1995/1200



## 1995 AIR FORCE BASE QUESTIONNAIRE

## Minot AFB - ACC

Ward County Board	Same as above.	
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II.6.F.7 AICUZ recommended development limits between the 80 Ldn and above Ldn Noise Contours.

<b>Government name:</b>	<b>Types of controls in place</b>	<b>Types of encroachment limited:</b>
Ward County Board	Same as above	

II.6.G Assessment of significant development (i.e., residential subdivision, shopping mall, or center, industrial park, etc.) existing or anticipated within any of the 7 AICUZ zones.

No significant development currently exists in any AICUZ zone.

No significant development is projected for any AICUZ zone.

No long range (20 year) development trends in the 7 AICUZ zones are evident.

II.6.H Population figures and projections:

II.6.H.1 Communities in the vicinity of the installation.

Community Name	1960 Pop	1970 Pop	1980 Pop	1990 Pop	2000 Pop
MINOT	9000	12007	12357	11512	11456

II.6.H.3 County (ies) encompassing the installation.

Community Name	1960 Pop	1970 Pop	1980 Pop	1990 Pop	2000 Pop
Ward County	47072	56560	58392	60880	57555

II.6.I All clear zone acquisition has been completed.

II.6.J All existing on base facilities are sited in accordance with AICUZ recommendations.

Planned on base facilities not sited in accordance with AICUZ recommendations:

### Air Space Encroachment

II.6.K Noise complaints are received from off base residents.

II.6.K.1 0.0 noise complaints per month (average) are received from off base residents.

II.6.L The base has implemented noise abatement procedures as follows:

II.6.L.1 Blast fences and sound suppressors are in use. Maintenance engine run-ups are restricted to the hours of 0600 to 2300 except in rare instances.

1995 AIR FORCE BASE QUESTIONNAIRE

Minot AFB - ACC

8. Biological - Habitat

- VIII.8.A There are No ecological or wildlife management areas ON the base. There are No ecological or wildlife management areas ADJACENT TO the base.
- VIII.8.A.1 Natural areas on or adjacent to the base are not recognized as important ecological sites.
- VIII.8.B No critical/sensitive habitats have been identified on base .
- VIII.8.C The base does not have a cooperative agreement for conducting a hunting and fishing program. Cooperative agreements are between the base with the U.S. Fish and Wildlife Service and the State Fish and Game Department.

9. Biological - Threatened and Endangered Species

- VIII.9.A There are No Threatened or endangered species identified on the base.
- VIII.9.B There are No Special Concern species identified on the base.

10. Biological - Wetlands

- VIII.10.A Wetlands, estuaries, or other special aquatic features present on the base:
  - VIII.10.A.1 Identification and type of wetland: Approximate acreage:  

ON BASE	15
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  - VIII.10.A.2 The base is Not involved in jointly-managed programs for protection of these resources.
  - VIII.10.B The base has Not been surveyed for wetlands in accordance with established federally approved guidelines.

VIII.10.C No part of the base is located in a 100-year floodplain.

CLASSIFIED

**1995 AIR FORCE BASE QUESTIONNAIRE**  
**Minot AFB - ACC**

**Section IX**

**16-Feb-95**

**UNCLASSIFIED**

**IX.50**

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**VIII.10.D** The presence of these resources does Not constrain current or future construction activities or operations.

**11. Biological - Floodplains**

**VIII.11.A** There are No floodplains on the base.

**12. Cultural**

**VIII.12.A** No historic, prehistoric, archaeological sites or other cultural resources are located on the base.

**VIII.12.B** None of the buildings on-base are over 50 years old.

**VIII.12.C** No Historic Landmark/Districts, or NRHP properties are located on base.

**VIII.12.C.1** No properties have been determined to be or may be eligible for the NRHP.

**VIII.12.C.2** Buildings and structures have not been surveyed for Cold War or other historical significance.

**VIII.12.D** The base has Not been archeologically surveyed.

**VIII.12.D.1** Not Applicable.

**VIII.12.D.2** No archeological sites have been found.

**VIII.12.D.3** No archeological collections are housed on base.

**VIII.12.D.4** No Native Americans or others use/identified sacred areas or burial sites on or near base.

**VIII.12.E** The base has no agreements with historic preservation agencies.

**Agreements include Programmatic Agreements and Memorandum of Agreements.**

**Historical preservation agencies include State Historical Preservation Officer or the Advisory Council on Historic Preservation.**

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**1995 AIR FORCE BASE QUESTIONNAIRE**  
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**5. Wastewater**

- VIII.5.A** Base wastewater is treated by On-Base facilities.
- VIII.5.B** The following 1 wastewater treatment facilities (industrial/domestic) are located on-base:  
One treatment facility consisting of 5 sewage lagoons
- VIII.5.C** There are No discharge violations or outstanding open enforcement actions pending.

**6. Discharge Points / Impoundments**

- VIII.6.A** Describe the National Pollutant Elimination System permits in effect:  
NPDES permit for discharge from sewage lagoon system.
- VIII.6.B** The base currently discharges treated wastewater ON-Base. Description of treated wastewater discharge location:  
Discharge is done on base from lagoon then flows off-base.
- VIII.6.C** The base has discharge impoundments.
- VIII.6.C.1** There are 5 water/wastewater treatment impoundments.
- VIII.6.C.2** There are No industrial wastewater treatment impoundments.
- VIII.6.D** There are no discharge violations or outstanding discharge open enforcement actions pending.

**7. HAZARDOUS MATERIALS - Asbestos**

- VIII.7.A** 80.0 percent of facilities have been surveyed for asbestos.
- VIII.7.A.1** 1.0 percent of the facilities surveyed are identified as having asbestos.
- VIII.7.A.2** 0 facilities are considered regulated areas or have restricted use due to friable asbestos.

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**1995 AIR FORCE BASE QUESTIONNAIRE**  
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Ground Water

**VIII.2.B** There are no constraints to the base water supply.

**VIII.2.C** The base potable water supply does not constrain operations

(Contaminants or lack of water supply may restrict construction activities or operations through: facility siting options, well usage, construction, etc.)

**3. Water - Ground Water**

**VIII.3.A** Base or local community groundwater is contaminated.

**VIII.3.A.1** Nature of contamination. Small amount of POL product on groundwater in POL area.

**VIII.3.A.2** The contaminated groundwater is Not a potable water source.

**VIII.3.B** The base is Not actively involved in groundwater remediation activities.

**VIII.3.C** No water wells exist on the base.

**VIII.3.D** No wells have been abandoned.

**4. Water - Surface Water**

**VIII.4.A** There No perennial bodies of water located on base.

**VIII.4.A.2** These bodies do Not receive water runoff or treated wastewater discharge from the base.

**VIII.4.A.3** The base is Not located within a specified drainage basin.

**VIII.4.B** Special permits are Not required

(Special permits may required to conduct training/operations, or for construction projects on or near bodies of water)

**VIII.4.C** There is No known contamination to the base or local community surface water

**1995 AIR FORCE BASE QUESTIONNAIRE****Minot AFB - ACC****VIII.E.3 Open Burn/Open Detonation**

- E.3.a No state or local air quality regulatory agency Prohibits open burn / open detonation (OB/OD) or training
- E.3.b The state or local air quality regulatory agency Regulates or conditionally exempts OB/OD operations or training.
- E.3.c No state or local air quality regulatory agency Limits the number of detonations to keep an exemption.
- E.3.d No state or local air quality regulatory agency Requires periodic emission testing.

**VIII.E.4 Fire Training**

- E.4.a No state or local air quality regulatory agency Specifies requirements which exceed the fire training and/or controlled burn requirements for local public fire agencies where fire training activities that produce smoke are regulated or conditionally exempted.
- E.4.b No state or local air quality regulatory agency Prohibits fire training activities that produce smoke.

**VIII.E.5 Signal Flares**

- E.5 No state or local air quality regulatory agency Prohibits the use of signal flares for search and rescue training or operations.

**VIII.E.6 Emergency Generators**

- E.6.a The state or local air quality regulatory agency Regulates or conditionally exempts emergency operation of generators or engines.
- E.6.b No state or local air quality regulatory agency Limits the hours of emergency operation of generators.
- E.6.c No state or local air quality regulatory agency Requires periodic fuel analysis or emission testing of emergency generators.
- E.6.d The state or local air quality regulatory agency Requires an air quality operating permit if the emergency operation of the generators exceeds an exemption threshold.
- E.6.d No state or local air quality regulatory agency Requires emission offsets.

**VIII.E.7 Short-term Activities**

- E.7.a No state or local air quality regulatory agency Regulates or conditionally exempts short-term (12 months or less) activities (i.e., air shows, exercises, construction, or emergency actions).
- E.7.b No state or local air quality regulatory agency Limits the operation for short-term activities.
- E.7.c No state or local air quality regulatory agency Requires periodic fuel analysis, emission testing, or emission offsets.
- E.7.d No state or local air quality regulatory agency Prohibits any short-term activities.

**VIII.E.8 Monitoring**

- E.8 No state or local air quality regulatory agency Has continuous emissions monitoring requirements for sources at the base which exceed the Federal New Source Performance Standards requirements.

**VIII.E.9 BACT/LAER**

- E.9 No state or local air quality regulatory agency Has BACT/LAER emissions thresholds (excluding lead) that exceed the Federal Clean Air Act requirements.

**2. Water - Potable**

**VIII.2.A** The base potable water supply is Local Community and the source is:

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**1995 AIR FORCE BASE QUESTIONNAIRE**  
**Minot AFB - ACC**

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**Section VIII**

**1. Air Quality - Clean Air Act**

- VIII.1.A** Air Quality Management District for the base: Air Quality Control Region 172
- VIII.1.B** The base is NOT located within a maintenance or non-attainment area for pollutants.
- VIII.1.C** There are NO critical air quality regions within 100 kilometers of the base  
(Critical air quality regions are non-attainment areas, national parks, etc.)
- VIII.1.D** On- or off-base activities have NOT been restricted or delayed due to air quality considerations.  
(Restrictions or delays may be imposed by a Metropolitan Planning Organization or similar organization and include restrictions to construction permits, restrictions to industrial facilities operating hours, High Occupancy Vehicle (HOV) rush hour procedures, etc.)
- VIII.1.D.1** The base has NOT been required to impliment emissions reduction through special actions  
(i.e. carpooling or emissions credit transfer)
- VIII.1.E** Restrictions placed on operations by state or local air quality regulatory agencies:
- VIII.E.1** Aerospace Ground Equipment (AGE):
- E.1.a** No state or local air quality regulatory agency Regulates or conditionally exempts the operation of portable internal combustion engine equipment, to include AGE.
- E.1.b** No state or local air quality regulatory agency Requires permits for such units.
- E.1.c** No state or local air quality regulatory agency Requires the base to modify the hours of operation of the AGE.
- E.1.d** No state or local air quality regulatory agency Requires retrofit controls for AGE.
- VIII.E.2** Infrastructure Maintenance / Public Works
- E.2.a** No state or local air quality regulatory agency Regulates or conditionnaly exempts small activities or engines used for infrastructure maintenance (i.e., sewer cleaning, wood chipping, road repair, etc.).
- E.2.b** No state or local air quality regulatory agency Limits the hours of these activities.
- E.2.c** No state or local air quality regulatory agency Requires periodic fuel analysis or emission testing of equipment used to support these activities.
- E.2.d** No state or local air quality regulatory agency Requires emission offsets for these activities.

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**1995 AIR FORCE BASE QUESTIONNAIRE****Minot AFB - ACC**

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- VII.3.A** 83.3 percent of spouses are able to find employment (within 3 months) in the local community.
- VII.3.B** 69.4 percent of spouses find employment commensurate with job skills, work experience, and education.
- VII.3.C** 4.9 percent unemployment in the local area (Department of Labor Statistics)
- VII.3.D** 2.2 percentage rate of job growth in the local area (Department of Labor Stastics)

**4. Local Medical Care**

- VII.4.A** Current ratio of active, non-federal physicians in the community: 2.0 physicians/1000 people
- VII.4.B** Current ratio of hospital beds in the community: 10.0 beds/1000 people

# 1995 AIR FORCE BASE QUESTIONNAIRE

## Minot AFB - ACC

VII.1.C.12	Camping facilities	KOA Campgrounds, Minot, ND	13	Hrs.	17	Min.
VII.1.C.13	Beaches (lake or ocean)	Rice Lake, ND	22	Hrs.	25	Min.
VII.1.C.14	Outdoor winter sports	Minigoshy Ski Resort	10	Hrs.	15	Min.

VII.1.D Nearest Shopping facility (two major anchor stores plus smaller retail outlets):

Dakota Square Shopping Mall, Minot, ND

15 min (12 Miles)

VII.1.E Nearest Metropolitan center (population in excess of 100,000):

Minneapolis, MN

8 hrs 30 min (437 Miles)

Local area crime rate:

VII.1.F.1 Violent crime rate (per 100,000) in the local area: (Note: The most current annual FBI Statistics Report used as the source document. Violent crime is defined as the sum of homicide, rape, robbery, felony assault, and simple assault.) 102

VII.1.F.2 Property crime rate (per 100,000) in the local area: (Note: The most current annual FBI Statistics Report used as the source document. Property crime is defined as the sum of auto theft, burglary, theft, and arson.) 5402

## 2. Education

VII.2.A The highest maximum allowed pupil to teacher classroom ratio, based on grades K - 12 and using local area ratios: 30 to 1

VII.2.B Local high schools offer a four-year English program.

VII.2.B Local high schools offer a four-year Math program.

VII.2.B Local high schools offer four-year Foreign Language programs.

VII.2.C Local high schools DO NOT offer an Honors program.

VII.2.D 70.0 percent of high school students go on to either a two- or four-year college

VII.2.E There are opportunities for off-base education within 25 miles of the base.

VII.2.E.1 Opportunities for off-base VOCATIONAL/TECHNICAL TRAINING provided by the following institutions:  
Meyer Vocational Technical School, Minot, ND

VII.2.E.2 Opportunities for off-base UNDERGRADUATE COLLEGE provided by the following institutions:  
Minot State University, Minot, ND

VII.2.E.3 Opportunities for off-base GRADUATE COLLEGE provided by the following institutions:  
Minot State University, Minot, ND

## 3. Spousal Employment

## 1995 AIR FORCE BASE QUESTIONNAIRE

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## Section VII

## 1. Community Infrastructure

Describe the off-base housing situation.

- VII.1.A.1 Off-base housing is affordable
- VII.1.A.2 Units are available for families
- VII.1.A.2 Units are available for single members.
- VII.1.A.3 5.0 Percent of off-base housing was rated as unsuitable in the latest VHA survey
- VII.1.A.4 Median monthly cost of off-base housing based on latest VHA survey: \$562

Describe the transportation systems.

- VII.1.B.1 The base is served by **REGULARLY SCHEDULED**, public transportation. The following services are available:  
Souris Basin Transportation provides a small bus 3 days a week.
- VII.1.B.2 Distance to the nearest municipal airport with scheduled, commercial air traffic: 9 miles
- VII.1.B.2 Airport name: Minot International Airport, Minot, ND.
- VII.1.B.3 Number of commercial air carriers available at the airport: 3
- VII.1.B.4 Average round trip commuting time to work: 45 minutes

Off-base public recreation facilities:

List ONLY THE NEAREST facility for each subcategory.

Facility Subcategory Type	Name of Nearest Facility	Distance to:	Drive Time		
VII.1.C.1 Swimming pool	Roosevelt Park OD Pool, Minot, ND	11	Hrs.	15	Min.
VII.1.C.2 Movie theater	Cinema 12 Theater, Minot, ND	12	Hrs.	15	Min.
VII.1.C.3 Public golf course	Apple Grove Golf Course, Minot, ND	13	Hrs.	17	Min.
VII.1.C.4 Bowling lane	North Hill Bowling Lanes, Minot, ND	9	Hrs.	12	Min.
VII.1.C.5 Boating	Rice Lake, ND	22	Hrs.	25	Min.
VII.1.C.6 Fishing	Lake Darling, ND	10	Hrs.	13	Min.
VII.1.C.7 Zoo	Minot City Zoo, Minot, ND	11	Hrs.	14	Min.
VII.1.C.8 Aquarium	Minneapolis City Zoo, Minneapolis, MN	437	8 Hrs.	30	Min.
VII.1.C.9 Family theme park	Valley Fair, Shakopee, MN	437	9 Hrs.	00	Min.
VII.1.C.10 Professional sports	Winnipeg Arena	278	6 Hrs.		Min.
VII.1.C.11 Collegiate sports	Minot State University, Minot, ND	10	Hrs.	13	Min.

**1995 AIR FORCE BASE QUESTIONNAIRE**

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**Section VI Economic Impact**

**Economic Area Statistics:**

**Ward County, ND**

**Total population: 57,000 (FY 92)**

**Total employment: 35,475 (FY 93)**

**Unemployment Rates (FY93/3 Year Average/10 Year Average)**

**4.9% / 4.7% / 5.3%**

**Average annual job growth: 112**

**Average annual per capita income: \$16,611**

**Average annual increase in per capita income: \$5.1%**

**Projected economic impact:**

<b>Direct Job Loss:</b>	<b>4,985</b>	
<b>Indirect Job Loss:</b>	<b>1,556</b>	
<b>Closure Impact:</b>	<b>6,541</b>	<b>( 18.4% of employment total)</b>
<b>Other BRAC Losses:</b>	<b>0</b>	
<b>Cumulative Impact:</b>	<b>6,541</b>	<b>( 18.4% of employment total)</b>

# 1995 AIR FORCE BASE QUESTIONNAIRE

## Minot AFB - ACC

83	10,261.00 \$sK	0.00 \$sK				10,261.00 \$sK
MFH TOTALS:						
	8,177.90 \$sK	9,931.80 \$sK	15,308.00 \$sK			10,261.00 \$sK

## 1995 AIR FORCE BASE QUESTIONNAIRE

### Minot AFB - ACC

		30	54.90 \$sK	0.00 \$sK	54.90 \$sK			
	<b>FY-92</b>	<b>Appropriation</b>	<b>Direct</b>	<b>Reimbursable</b>				
		30	71.60 \$sK	0.00 \$sK		71.60 \$sK		
	<b>FY-93</b>	<b>Appropriation</b>	<b>Direct</b>	<b>Reimbursable</b>				
		30	103.70 \$sK	0.30 \$sK			104.00 \$sK	
	<b>FY-94</b>	<b>Appropriation</b>	<b>Direct</b>	<b>Reimbursable</b>				
		30	39.00 \$sK	0.00 \$sK				39.00 \$sK
		<b>xxx90 TOTALS:</b>			54.90 \$sK	71.60 \$sK	104.00 \$sK	39.00 \$sK
<b>IV.1.E</b>	<b>xxx95</b>	<b>Communications</b>			<b>FY 91 Total</b>	<b>FY 92 Total</b>	<b>FY 93 Total</b>	<b>FY 94 Total</b>
	<b>FY-91</b>	<b>Appropriation</b>	<b>Direct</b>	<b>Reimbursable</b>				
		30	612.80 \$sK	0.00 \$sK	612.80 \$sK			
	<b>FY-92</b>	<b>Appropriation</b>	<b>Direct</b>	<b>Reimbursable</b>				
		30	548.90 \$sK	1.60 \$sK		550.50 \$sK		
	<b>FY-93</b>	<b>Appropriation</b>	<b>Direct</b>	<b>Reimbursable</b>				
		30	666.50 \$sK	6.70 \$sK			673.20 \$sK	
	<b>FY-94</b>	<b>Appropriation</b>	<b>Direct</b>	<b>Reimbursable</b>				
		30	761.00 \$sK	0.00 \$sK				761.00 \$sK
		<b>xxx95 TOTALS:</b>			612.80 \$sK	550.50 \$sK	673.20 \$sK	761.00 \$sK
<b>IV.1.F</b>	<b>xxx96</b>	<b>Base Operating Support</b>			<b>FY 91 Total</b>	<b>FY 92 Total</b>	<b>FY 93 Total</b>	<b>FY 94 Total</b>
	<b>FY-91</b>	<b>Appropriation</b>	<b>Direct</b>	<b>Reimbursable</b>				
		30	6,660.90 \$sK	2.60 \$sK	6,663.50 \$sK			
	<b>FY-92</b>	<b>Appropriation</b>	<b>Direct</b>	<b>Reimbursable</b>				
		30	4,612.40 \$sK	12.80 \$sK		4,625.20 \$sK		
	<b>FY-93</b>	<b>Appropriation</b>	<b>Direct</b>	<b>Reimbursable</b>				
		30	12,006.60 \$sK	331.00 \$sK			12,337.60 \$sK	
	<b>FY-94</b>	<b>Appropriation</b>	<b>Direct</b>	<b>Reimbursable</b>				
		30	10,084.20 \$sK	0.00 \$sK				10,084.20 \$sK
		<b>xxx96 TOTALS:</b>			6,663.50 \$sK	4,625.20 \$sK	12,337.60 \$sK	10,084.20 \$sK
<b>IV.1.G</b>	<b>MFH</b>	<b>Military Family Housing</b>			<b>FY 91 Total</b>	<b>FY 92 Total</b>	<b>FY 93 Total</b>	<b>FY 94 Total</b>
	<b>FY-91</b>	<b>Appropriation</b>	<b>Direct</b>	<b>Reimbursable</b>				
		83	8,160.30 \$sK	17.60 \$sK	8,177.90 \$sK			
	<b>FY-92</b>	<b>Appropriation</b>	<b>Direct</b>	<b>Reimbursable</b>				
		83	9,901.00 \$sK	30.80 \$sK		9,931.80 \$sK		
	<b>FY-93</b>	<b>Appropriation</b>	<b>Direct</b>	<b>Reimbursable</b>				
		83	15,220.00 \$sK	88.00 \$sK			15,308.00 \$sK	
	<b>FY-94</b>	<b>Appropriation</b>	<b>Direct</b>	<b>Reimbursable</b>				

**1995 AIR FORCE BASE QUESTIONNAIRE**  
**Minot AFB - ACC**

**Section IV****1. Base Budget****IV.1 Non-payroll portion of the base budget for prior years:**

IV.1.A xxx56		Environmental Compliance			FY 91 Total	FY 92 Total	FY 93 Total	FY 94 Total
FY-91		<b>Appropriation</b>	<b>Direct</b>	<b>Reimbursable</b>				
	30		575.10 \$sK	0.00 \$sK	575.10 \$sK			
FY-92		<b>Appropriation</b>	<b>Direct</b>	<b>Reimbursable</b>				
	30		2,898.00 \$sK	0.00 \$sK		2,898.00 \$sK		
FY-93		<b>Appropriation</b>	<b>Direct</b>	<b>Reimbursable</b>				
	30		558.90 \$sK	0.00 \$sK			558.90 \$sK	
FY-94		<b>Appropriation</b>	<b>Direct</b>	<b>Reimbursable</b>				
	30		925.00 \$sK	0.00 \$sK				925.00 \$sK
<b>xxx56 TOTALS:</b>					575.10 \$sK	2,898.00 \$sK	558.90 \$sK	925.00 \$sK
IV.1.B xxx76		Real Property Maintenance A			FY 91 Total	FY 92 Total	FY 93 Total	FY 94 Total
FY-91		<b>Appropriation</b>	<b>Direct</b>	<b>Reimbursable</b>				
	30		14,393.00 \$sK	644.70 \$sK	15,037.70 \$sK			
FY-92		<b>Appropriation</b>	<b>Direct</b>	<b>Reimbursable</b>				
	30		10,395.90 \$sK	567.10 \$sK		10,963.00 \$sK		
FY-93		<b>Appropriation</b>	<b>Direct</b>	<b>Reimbursable</b>				
	30		651.00 \$sK	8.10 \$sK			659.10 \$sK	
FY-94		<b>Appropriation</b>	<b>Direct</b>	<b>Reimbursable</b>				
	30		150.00 \$sK	0.00 \$sK				150.00 \$sK
<b>xxx76 TOTALS:</b>					15,037.70 \$sK	10,963.00 \$sK	659.10 \$sK	150.00 \$sK
IV.1.C xxx78		Real Property Maintenance S			FY 91 Total	FY 92 Total	FY 93 Total	FY 94 Total
FY-91		<b>Appropriation</b>	<b>Direct</b>	<b>Reimbursable</b>				
	30		0.00 \$sK	0.00 \$sK	0.00 \$sK			
FY-92		<b>Appropriation</b>	<b>Direct</b>	<b>Reimbursable</b>				
	30		0.00 \$sK	0.00 \$sK		0.00 \$sK		
FY-93		<b>Appropriation</b>	<b>Direct</b>	<b>Reimbursable</b>				
	30		2,615.60 \$sK	658.40 \$sK			3,274.00 \$sK	
FY-94		<b>Appropriation</b>	<b>Direct</b>	<b>Reimbursable</b>				
	30		2,028.00 \$sK	0.00 \$sK				2,028.00 \$sK
<b>xxx78 TOTALS:</b>					0.00 \$sK	0.00 \$sK	3,274.00 \$sK	2,028.00 \$sK
IV.1.D xxx90		Audio Visual			FY 91 Total	FY 92 Total	FY 93 Total	FY 94 Total
FY-91		<b>Appropriation</b>	<b>Direct</b>	<b>Reimbursable</b>				

## 1995 AIR FORCE BASE QUESTIONNAIRE

## Minot AFB - ACC

III.1.F.2 The size of the hot cargo pad is 144,575 sq feet.

III.1.F.3 The sited explosive capacity of the hot cargo pad is 10,000

III.1.F.4 The hot pad access is taxi-on/taxi-off.

III.1.F.5 The taxiway servicing the hot pad is 125 ft wide and has a pavement classification number (PCN) of 106.

III.1.F.6 Aircraft using pad over the last 5 years:

C-130, C-141, C-9, KC-135, 727, B-1, B-52, KC-10 Minot has 3 hot cargo pad, 1 turnaround and 2 taxi on/off--data for largest included

III.1.G Proximity (within 150 NM) to mobilization elements.

III.1.G.1 The base is over 150 NM from a ground force installation.

III.1.G.2 The base is proximate to a railhead.

Railheads within 150 NM:

Tatman	12 NM
--------	-------

III.1.G.3 The base is over 150 NM from a port.

III.1.H The base does Not have a dedicated passenger terminal.

III.1.I The base has a dedicated deployment facility capable of handling DoD standardized cargo pallets.

III.1.J The base medical treatment facility routinely receives referral patients.

III.1.J.1

Facilities Receiving Referrals:	Types of Patients Referred:
391st Medical Group, Grand Forks AFB, ND	Orthopedics, Podiatry, Surgery, Internal Medicine, OB/GYN, Pediatrics, & general Family Practice
341st Medical Group, Malmstrom AFB, MT,	Same as above
Regional DOD and USPHS patients	Same as above
Veterans Hospital, Fargo, ND	Same as above

III.1.K No military medical facility in the catchment area (40 mile radius) have been designated for closure or realignment.

## 1995 AIR FORCE BASE QUESTIONNAIRE

## Minot AFB - ACC

III.1.C.4 The hydrant system is 2.0 miles from the bulk storage area.

III.1.C.5 No pits are certified for hot pit operations.

III.1.D The base bulk storage facility is Not serviced by a pipeline.

III.1.D.3 Current excess storage capacity is 4,705 Barrels.

Based on normal requirements in the Fuel Logistics Area Summary (FLAS) or Inventory Management Plan (IMP).  
Storage for others is excluded.

III.1.D.4 Other receipt modes available: 10 small tank cars, 5 trucks, 5 jumbo tank cars.

Number of offload headers: 10

10 tank trucks can be simultaneously offloaded

7 tank cars can be simultaneously offloaded

III.1.D.5 3 refueling unit fillstands are available.

III.1.D.5.a 3 refuelers can be filled simultaneously.

III.1.D.6 Current dispensing capabilities as defined in AFR 144-1

sustained:	1260000
maximum:	1418400

III.1.D.7 The base is directly supported by an intermediate Defense Fuels Supply Point (DFSP).

III.1.D.7.a Supporting DFSP: Grand Forks, North Dakota

III.1.E Cat 1.1 and 1.2 munitions storage requirements and capacity.

III.1.E.1 Maximum NET EXPLOSIVE WEIGHT (NEW) storage capacity:

Square footage available (including physical capacity limit):

III.1.E.2 Normal installation mission storage requirement:

	Cat 1.1	Cat 1.2
Maximum NET EXPLOSIVE WEIGHT (NEW) storage capacity:	897455	3852400
Square footage available (including physical capacity limit):	97128	87480
Normal installation mission storage requirement:	737137	31208

III.1.F The base has a dedicated hot cargo pad.

III.1.F.1 Access to the hot cargo pad is not limited.

## 1995 AIR FORCE BASE QUESTIONNAIRE

### Minot AFB - ACC

#### Section III

##### 1. Contingency and Deployment Requirements

Full mobilization, 24 hour capability assumed.

III.1.A.1 1 C-141 equivalent aircraft can be loaded or unloaded at one time.

Based on existing load crews, marshalling yards, build up areas, concurrent servicing, and material handling equipment (MHE). Assumes a 13-pallet load, a 2 hr, 15 min ground time.

III.1.A.1.a The limiting factor is MHE

III.1.A.1.b Current MHE: 39 "E" vehicles

III.1.A.2 22 C-141 equivalent aircraft can be refueled at one time.

Based on a 100,000 lb (15,625 gal) fuel load for each aircraft, use of existing personnel, equipment, and facilities. Assumes 2 hr, 15 min ground time.

III.1.B The base can land, taxi, park, and refuel widebody aircraft as follows:

Aircraft	Widebody Capabilities:				Remarks:
747	Can land	Can taxi	Can park	Can refuel	
C-5	Can land	Can taxi	Can park	Can refuel	
KC-10	Can land	Can taxi	Can park	Can refuel	

III.1.C The base has an operational fuel hydrant system:

III.1.C.1 The fuel hydrant system is available to transient aircraft.

III.1.C.2 30 hydrant pits are operational.

Description of base fuel hydrant system:

System Type:	Total Pumping Rate (GPM):	Number of Laterals:	Number of Usable Refueling Positions:	Number of SIMULTANEOUS aircraft refuelings of	
				Narrow	Widebody
Type II Hydrant Refueling System	4800	9	30	9	9

III.1.C.3 16 fuel storage tanks support the operational fuel hydrant system:

Storage tank Capacity:	Tanks with this capacity
50000	16

**1995 AIR FORCE BASE QUESTIONNAIRE**

**Minot AFB - ACC**

**Section IV/V Level Playingfield COBRA Data**

One time closure costs: 59\$sM

Twenty year Net Present Value (801)\$sM

Steady state savings 61\$sM per year

Manpower savings associated with closure 1,221

Return on Investment (years): 1

## 1995 AIR FORCE BASE QUESTIONNAIRE

### Minot AFB - ACC

**III.1.L Unique missions performed by the base medical facility:**

Facility has a bed expansion mission, blood donor center tasking, Air Transportable Hospital mission, ATH personnel and equipment packa

Unique medical missions include aeromedical staging facilities, environmental health laboratories, area dental laboratories, physiological training units, wartime taskings,

**III.1.M Base medical facilities have No facilities projects planned to begin before to 1999.**

Facilities projects include military consruction program (MCP) or Operations and Maintenance (O&M) alterations.

**III.1.N Base facilities have a total excess storage capacity of 179,289 sq ft.**

**III.1.N.1 Base facilities have a total covered storage capacity of 146,147 sq ft.**

**III.1.N.2 Breakout of the total covered storage capacity:**

Supply (warehousing, Individual Equipment Unit, Tool Issue, Base Service Store):	110,074 sq ft
Mobility storage:	19,754 sq ft
War Readiness Support Kits (WRSK) storage:	16,319 sq ft

**III.1.O 315 light military vehicles are on base.**

**III.1.P 564 heavy military and special vehicles are on base.**

## 1995 AIR FORCE BASE QUESTIONNAIRE

### Minot AFB - ACC

#### Local/Regional Land Encroachment

##### II.6.A Percent current off base incompatible land use:

Runway Number	Area	Est Pop	Acres	Percent Incompatible Land Use	Percent Incompatible Land Use	PERCENT OF CURRENT LAND USE W/I FOLLOWING CATEGORIES						
						RES	COM	IND	PUB/SEMI	REC	OPEN/AG/LOW DEN	
II.6.A.1	11	CZ	0	207	0.0	Gen Compat	0.0	0.0	0.0	100.0	0.0	0.0
	29	CZ	0	207	0.0	Gen Compat	0.0	0.0	0.0	100.0	0.0	0.0
II.6.A.2	11	APZ 1	0	344	0.0	Gen Compat	0.0	0.0	0.0	0.0	0.0	100.0
	29	APZ 1	0	344	0.0	Gen Compat	0.0	0.0	0.0	0.0	0.0	100.0
II.6.A.3	11	APZ 2	0	482	0.0	Gen Compat	0.0	0.0	0.0	0.0	0.0	100.0
	29	APZ 2	0	482	0.0	Gen Compat	0.0	0.0	0.0	0.0	0.0	100.0

DNL Noise Contour	Est Pop	Acres	Percent Incompatible Land Use	Percent Incompatible Land Use	PERCENT OF CURRENT LAND USE W/I FOLLOWING CATEGORIES						
					RES	COM	IND	PUB/SEMI	REC	OPEN/AG/LOW DEN	
II.6.A.4	65-70	435	34,383	0	Gen Compat	1.0	0.0	0.0	0.0	0.0	99.0
II.6.A.5	70-75	291	19,275	0	Gen Compat	1.0	0.0	0.0	0.0	0.0	99.0
II.6.A.6	75-80	74	4,452	1	Gen Compat	1.0	0.0	0.0	0.0	0.0	99.0
II.6.A.7	80+	56	2,588	1	Gen Compat	1.0	0.0	0.0	0.0	0.0	99.0

##### II.6.B Percent future off base incompatible land use:

Runway Number	Area	Est Pop	Acres	Percent Incompatible Land Use	Percent Incompatible Land Use	PERCENT OF CURRENT LAND USE W/I FOLLOWING CATEGORIES						
						RES	COM	IND	PUB/SEMI	REC	OPEN/AG/LOW DEN	
II.6.B.1	11	CZ	0	207	0	Gen Compat	0.0	0.0	0.0	100.0	0.0	0.0
	29	CZ	0	206	0	Gen Compat	0.0	0.0	0.0	100.0	0.0	0.0
II.6.B.2	11	APZ 1	0	344	0	Gen Compat	0.0	0.0	0.0	0.0	0.0	100.0
	29	APZ 1	0	344	0	Gen Compat	0.0	0.0	0.0	0.0	0.0	100.0
II.6.B.3	11	APZ 2	0	482	0	Gen Compat	0.0	0.0	0.0	0.0	0.0	100.0
	29	APZ 2	0	482	0	Gen Compat	0.0	0.0	0.0	0.0	0.0	100.0

DNL Noise Contour	Est Pop	Acres	Percent Incompatible Land Use	Percent Incompatible Land Use	PERCENT OF CURRENT LAND USE W/I FOLLOWING CATEGORIES						
					RES	COM	IND	PUB/SEMI	REC	OPEN/AG/LOW DEN	
II.6.B.4	65-70	435	34,383	0	Gen Compat	1.0	0.0	0.0	0.0	0.0	99.0
II.6.B.5	70-75	291	19,275	0	Gen Compat	1.0	0.0	0.0	0.0	0.0	99.0
II.6.B.6	75-80	74	4,452	1	Gen Compat	1.0	0.0	0.0	0.0	0.0	99.0
II.6.B.7	80+	56	2,588	1	Gen Compat	1.0	0.0	0.0	0.0	0.0	99.0

# 1995 AIR FORCE BASE QUESTIONNAIRE

## Minot AFB - ACC

II.4.A.1 Facility number: 863 Nose Dock

Current Use: L/A Maint Dock

II.4.A.2 Size (SF): 26,544 SF

II.4.A.3-4

Largest aircraft the hanger/nose dock can COMPLETELY enclose: F-15

DIMENSIONS:

Door Opening:	Width	Height	Length
Largest unobstructed space inside the facility:	198 ft	29 ft	
Facility number: 867	198 ft	32 ft	86 ft

Current Use: L/A Maint Dock

II.4.A.2 Size (SF): 26,084 SF

II.4.A.3-4

Largest aircraft the hanger/nose dock can COMPLETELY enclose: F-15

DIMENSIONS:

Door Opening:	Width	Height	Length
Largest unobstructed space inside the facility:	198 ft	29 ft	
Facility number: 868	198 ft	32 ft	86 ft

Current Use: L/A Maint Dock

II.4.A.2 Size (SF): 28,332 SF

II.4.A.3-4

Largest aircraft the hanger/nose dock can COMPLETELY enclose: F-15

DIMENSIONS:

Door Opening:	Width	Height	Length
Largest unobstructed space inside the facility:	198 ft	29 ft	
Facility number: 970	198 ft	32 ft	86 ft

Current Use: L/A Maint Dock

II.4.A.2 Size (SF): 39,434 SF

II.4.A.3-4

Largest aircraft the hanger/nose dock can COMPLETELY enclose: B-52

DIMENSIONS:

Door Opening:	Width	Height	Length
Largest unobstructed space inside the facility:	205 ft	30 ft	
	200 ft	60 ft	107 ft

### 5. Unique Facilities

II.5.A There are No unique (one-of-a-kind) Air Force facilities which must be replaced if the base is closed.

### 6. Air Installation Compatible Use Zone (AICUZ) and Terminal Area Procedures

**1995 AIR FORCE BASE QUESTIONNAIRE**  
**Minot AFB - ACC**

**Section I****1. Force Structure****I.1.A List of all on base NAF and non-Air Force activities:**

Unit or Activity:	Personnel Authorizations for FY93/4			
	Officer	Enlisted	Civilian	Total
I.1.A.1 AAFES	-	-	190	190
I.1.A.2 Bank	-	-	7	7
I.1.A.3 Credit Union	-	-	19	19
I.1.A.4 DECA	1	4	43	48
I.1.A.5 DFAS	-	16	11	27
I.1.A.6 DIS	-	-	3	3
I.1.A.7 DRMO	-	-	9	9
I.1.A.8 NAF Employees	-	-	262	262
I.1.A.9 Post Office	-	-	8	8
I.1.A.10 Red Cross	-	-	1	1
I.1.A.11 SATO	-	-	4	4
I.1.A.12 US Army Corps of Engineers	-	-	1	1
I.1.A.13 USA Veterinarian	1	-	-	1
<b>TOTAL:</b>				<b>580</b>

**I.1.B No Remote/Geographically Separated Units receive more than 50% of Base Operational Support from the base.**

## 1995 AIR FORCE BASE QUESTIONNAIRE

## Minot AFB - ACC

## 2. Operational Effectiveness

## A. Air Traffic Control

ATCALs - Air Traffic Control and Landing Systems

NAS - National Airspace System

I.2.A.1 Some of the base ATCALs are officially part of the NAS.

I.2.A.2 Details for specific ATC facilities:

	(A.2) ATC Summary:		(A.3) Detailed traffic counts:				
	Type of Facility	Total Traffic Count	Civil Traffic Count	Military Traffic Count	ILS Traffic Count	PAR Traffic Count	Non-PAR Traffic Count
RAPCON	1	37136	15421	21715	4413	2548	3324
Tower	1	36722	643	36079	N/A	N/A	N/A

I.2.A.4 The primary instrument runway is designated 29

25889 operations were conducted this runway during calander year 1993

I.2.A.5 Known or potential airspace problems that may prevent mission accomplishment:

No known problems.

I.2.A.6 The base does Not experience ATC delays.

## B. Geographic Location

I.2.B.1 Nearest major primary airlift customer: FORT McCOY distance 513 NM

Nearest major primary airdrop customer: FORT RILEY distance 588 NM

I.2.B.2 Distance to foward deployment Air Bases:

Lajes AB: 3268 NM

## 1995 AIR FORCE BASE QUESTIONNAIRE

## Minot AFB - ACC

Rota AB: 4238 NM  
 Hickam AFB: 3158 NM  
 RAF Mildenhall: 3882 NM

	Class of Airfield:	Name	Distance from Base
I.2.B.3	Military airfield, runway $\geq$ 3,000ft	GRAND FORKS AFB	161
I.2.B.4	Military airfield, runway $\geq$ 8,000ft	GRAND FORKS AFB	161
I.2.B.5	Military airfield, runway $\geq$ 10,000ft	GRAND FORKS AFB	161
I.2.B.6	Military or civilian airfield, runway $\geq$ 3,000ft	Minot IAP	8
I.2.B.7	Military or civilian airfield, runway $\geq$ 8,000ft	Bismark Muni	105
I.2.B.8	Military or civilian airfield, runway $\geq$ 10,000ft	Grand Forks AFB	160
I.2.B.9	Civilian airfield, runway $\geq$ 8,000ft for capable of conducting short term operations	Hector IAP	220
I.2.B.10	Civilian airfield, runway $\geq$ 10,000ft for capable of conducting short term operations	Valley Industrial Park	235

I.2.B.11 Name and distance to an emergency landing airfield compatible with aircraft flown at the base.

Grand Forks AFB 161 NM

**C. Training Areas (Special Use Airspace (SUA), Ranges, Military Training Routes (MTRs), Drop Zones (DZs), Military Operating Areas (MOAs))**

I.2.C.1 There are No supersonic Air Combat Training (ACBT) MOAs or warning/restricted areas (minimum size of 4,200 sq NM) within 300 NM.

I.2.C.2 There are No MOAs or warning/restricted areas (minimum size of 2,100 sq NM and an altitude block of at least 20,000 ft) within 200 NM.

I.2.C.3 Low altitude MOAs and warning/restricted areas, with a minimum size of 2,100 sq NM and a floor no greater than 2,000 ft, within 600 NM:

Area Name	Distance	Area Name	Distance	Area Name	Distance
TIGER NORTH	89 NM	WILLISTON	136 NM	POWDER RIVER A	222 NM
HAYS	296 NM	O'NEILL	408 NM		

I.2.C.4 Scorable range complexes / target arrays (capable of or having tactical targets, conventional targets, and strafe), within 800 NM:

## 1995 AIR FORCE BASE QUESTIONNAIRE

## Minot AFB - ACC

	Facility Category Code	Category Description	Units of Measure	Current Capacity	Percentage (%) Cond Code 1	Percentage (%) Cond Code 2	Percentage (%) Cond Code 3
II.1.B.1.a	111	Aircraft Pavement-Runway(s)	SY	440,000	100.0	0.0	0.0
II.1.B.1.b	112	Airfield Pavements-Taxiways	SY	424,174	42.0	55.0	3.0
II.1.B.1.c	113	Airfield Pavement-Apron(s)	SY	442,141	70.0	29.0	1.0
II.1.B.1.d	116-662	Dangerous Cargo Pad	SY	13,600	100.0	0.0	0.0
II.1.B.1.e	812	Elec Power-Trans & Distr Lines	LF	1,268,050	100.0	0.0	0.0
II.1.B.1.f	822	Heat-Trans & Distr Lines	LF	53,273	99.0	1.0	0.0
II.1.B.1.g	832	Sewage and Indust Waste Collection (Mains)	LF	320,655	95.0	5.0	0.0
II.1.B.1.h	842	Water-Distr Sys-Potable	LF	415,727	99.0	1.0	0.0
II.1.B.1.i	843	Water-Fire Protection (Mains)	LF	3,085	100.0	0.0	0.0
II.1.B.1.j	851	Roads	SY	1,164,613	99.0	1.0	0.0
II.1.B.1.k	852	Veh/Equip Parking	SY	634,072	99.0	1.0	0.0

## C. Family Housing (Facility Category Code 711)

## II.1.C.1 Capacity (housing Inventory)

II.1.C.1.a Number of adequate units from current DD Form 1410, line 18d:

2449

II.1.C.1.b Number of substandard units from current DD Form 1410, line 18e:

0

II.1.C.1.c Current deficit (-) or surplus units in validated Market Analysis:

191

(includes E-1 - E3 requirements)

II.1.C.1.c.i A Market Analysis was used to answer the questions in Section II.1.C.

II.1.C.1.d FY95/4 projected net housing deficit (-) or surplus of units:

-100

(includes officers and enlisted extrapolated to FY95 if necessary, uses validated market analysis corrected to include realignment actions)

## II.1.C.2 Condition

II.1.C.2.a Number of adequate units meeting current whole-house standards of accommodation and state of repair:

110

(includes projects programmed through FY95/4. Units meeting whole-house standards are those that were programmed after FY88)

II.1.C.2.a Number of adequate units requiring whole-house renovation or replacement:

2239

(Units meeting whole-house standards are those that were programmed/ renovated after FY88).

## 1995 AIR FORCE BASE QUESTIONNAIRE

### Minot AFB - ACC

II.1.C.2.a Number of new housing units projected to meet current deficit. 0

II.1.C.3 Percentage of military families living on base as compared to the total number of families (officer and enlisted) assigned to the base

II.1.C.3.a 94.0 percent of officer families live on base.

II.1.C.3.b 89.0 percent of enlisted families live on base.

II.1.C.3.a 87.0 percent of all military families live on base.

### 2. Airfield Characteristics

#### II.2 Runway Table:

Primary Designation		Dimensions:		Cross Runway	Aircraft Arresting Systems (II.2.I)	
		Length	Width		Number	Types
29	Primary	13200 ft	300 ft	No	2	E-5

II.2.A There are 1 active runways.

II.2.A.1 There are NO cross runways

II.2.B There are NO parallel runways.

II.2.C Dimensions of the primary runway (29).

II.2.C.1 Length: 13,200 ft

II.2.C.2 Width: 300 ft

II.2.D Dimensions of all secondary runways are in the runway table.

II.2.E The primary taxiway is 75 ft wide.

II.2.F Determination if PRIMARY PAVEMENTS can support aircraft operations based on latest Air Force Civil Engineering Support Agency(AFCESA) Pavement Evaluation Report or the procedures in AFM 88-24 (Airfield Flexible Pavement Evaluation).

An AFCESA Pavement Evaluation Report was used to complete this section.

				Primary Pavements		
Aircraft Group		Criteria		Runways	Taxiways	Aprons
II.2.F.1	Fighter	F-15	61 Kips 300,000 Passes	Supports Now	Supports Now	Supports Now
II.2.F.2	Fighter	F-16C/D	37 Kips 300,000 Passes	Supports Now	Supports Now	Supports Now
II.2.F.3	Bomber	B-52	450 Kips 15,000 Passes	Supports Now	Supports Now	Supports Now
II.2.F.4	Bomber	B-1B	450 Kips 50,000 Passes	Supports Now	Supports Now	Supports Now
II.2.F.5	Tanker	KC-135R	320 Kips 50,000 Passes	Supports Now	Supports Now	Supports Now
II.2.F.6	Tanker	KC-10	550 Kips 15,000 Passes	Supports Now	Supports Now	Supports Now
II.2.F.7	Airlift	C-5B	800 Kips 50,000 Passes	Supports Now	Supports Now	Supports Now

# 1995 AIR FORCE BASE QUESTIONNAIRE

## Minot AFB - ACC

Area Name	Distance	Area Name	Distance	Area Name	Distance
HARDWOOD	530 NM	SMOKEY HILL	602 NM	AIRBURST	618 NM
EAGLE/UTTR	666 NM	SAYLOR CREEK	687 NM	KITTYCAT/UTTR	697 NM
HAG/UTTR	702 NM	GRAYLING	723 NM	CANNON	760 NM

I.2.C.5 Nearest electronic combat (EC) range and distance from base:

HARDWOOD 530 NM

I.2.C.6 Nearest Air Combat Maneuvering Instrumentation (ACMI) range and distance from base:

VOLK FIELD MDS 533 NM

I.2.C.7 Nearest full-scale, heavyweight (live drop or inert) range and distance from base:

HARDWOOD 530 NM

I.2.C.8 Total number of slow routes (SR) / visual routes (VR) / instrument routes (IR) with entry points within:

Type of Route:	100 NM	150 NM	200 NM	400 NM	600 NM	800 NM
IR	2	6	12	29	40	83
SR	0	0	0	2	14	31
VR	0	0	0	1	23	64
<b>Total Routes:</b>	<b>2</b>	<b>6</b>	<b>12</b>	<b>32</b>	<b>77</b>	<b>178</b>

**Identify Routes:**

IR-925 43 NM	IR-678 87 NM	IR-644 135 NM	IR-649 135 NM	IR-485 197 NM
IR-480 127 NM	IR-481 127 NM	IR-430 192 NM	IR-492 192 NM	IR-479A 253 NM
IR-431 165 NM	IR-482 165 NM	IR-479 253 NM	IR-478A 253 NM	IR-476 303 NM
IR-484 229 NM	IR-478 253 NM	IR-499 303 NM	IR-473 303 NM	IR-508 383 NM
IR-605 287 NM	IR-429 303 NM	SR-730 378 NM	SR-731 378 NM	VR-604 432 NM
IR-500 375 NM	IR-501 375 NM	SR-727 410 NM	IR-514 421 NM	SR-542 460 NM
IR-509 383 NM	IR-606 384 NM	VR-510 448 NM	VR-540 457 NM	IR-416 488 NM
SR-728 403 NM	SR-729 403 NM	IR-517 482 NM	VR-1520 482 NM	VR-545 525 NM
IR-518 441 NM	VR-607 442 NM	IR-498 516 NM	VR-541 534 NM	VR-512 535 NM
SR-541 460 NM	VR-1629 479 NM	SR-785 534 NM	VR-1522 542 NM	VR-412 579 NM
VR-1650 490 NM	IR-507 506 NM	IR-506 542 NM	VR-1574 582 NM	SR-616 595 NM
IR-505 527 NM	IR-524 533 NM	SR-619 581 NM	SR-773 617 NM	VR-531 626 NM
IR-415 542 NM	VR-1648 542 NM	VR-552 596 NM	IR-414 618 NM	
VR-413 579 NM	SR-618 581 NM	IR-409 616 NM		
SR-617 595 NM	IR-609 596 NM			
VR-544 604 NM	SR-771 605 NM			

1995 AIR FORCE BASE QUESTIONNAIRE

Minot AFB - ACC

311	II.1.B.1.n	Aircraft RD1&E Facilities	SF	N/A	0	0	0.0	0.0	N/A
312	II.1.B.1.o	Missile and Space RD1&E Facs	SF	N/A	0	0	0.0	0.0	N/A
315	II.1.B.1.p	Weapons and Weapon Syst RD1&E Facilities	SF	N/A	0	0	0.0	0.0	N/A
317	II.1.B.1.q	Elect Comm & Elect Equip RD1&E Facilities	SF	N/A	0	0	0.0	0.0	N/A
318	II.1.B.1.r	Propulsion RD1&E Facilities	SF	N/A	0	0	0.0	0.0	N/A
411-135	II.1.B.1.s.i	Jet Fuel Storage	BL	55,413	79,040	100.0	0.0	0.0	23,627
422	II.1.B.1.t	Ammunition Storage Installation & Ready Use	SF	N/A	139,367	100.0	0.0	0.0	91,961
422-253	II.1.B.1.t.i	Multi-Cubicle Magazine Storage	SF	11,314	21,891	100.0	0.0	0.0	10,577
422-258	II.1.B.1.t.ii	Above Ground Magazine	SF	0	0	0.0	0.0	0.0	0
422-264	II.1.B.1.t.iii	Igloo Magazine	SF	21,770	90,203	100.0	0.0	0.0	68,433
422-265	II.1.B.1.t.iv	Spare Inert Storage (Alternate Mission Equipmen	SF	12,000	24,943	100.0	0.0	0.0	12,943
422-275	II.1.B.1.t.v	Ancillary Explosives Facility (Holding Pad)	SF	2	2	100.0	0.0	0.0	0
441	II.1.B.1.u	Storage-Covered Depot & Arsenal	SF	N/A	0	0.0	0.0	0.0	N/A
442	II.1.B.1.v	Storage-Covered-Installation & Organ	SF	N/A	180,759	0.0	0.0	100.0	57,892
442-257a	II.1.B.1.v.i	Hydrazine Storage	SF	10,499	10,499	0.0	0.0	100.0	0
442-258	II.1.B.1.v.ii	LOX Storage	GA	48	64	100.0	0.0	0.0	16
442-758	II.1.B.1.v.iii	Base Warehousing Supplies and Equipment	SF	54,050	74,857	100.0	0.0	0.0	20,807
442-758a	II.1.B.1.v.iv	Base Warehousing Supplies and Equipment (W	SF	6,000	20,954	100.0	0.0	0.0	14,954
442-758b	II.1.B.1.v.v	Warehousing Supplies and Equipment (AGS Par	SF	40,500	50,336	100.0	0.0	0.0	9,836
510	III.1.B.1.w	Medical Center and/or Hospital	SF	N/A	139,876	100.0	0.0	0.0	N/A
530	II.1.B.1.x	Medical Laboratories	SF	N/A	7,523	100.0	0.0	0.0	N/A
540	II.1.B.1.y	Dental Clinics	SF	N/A	13,900	100.0	0.0	0.0	N/A
550	II.1.B.1.z	Dispensaries and/or Clinics	SF	N/A	0	0.0	0.0	0.0	N/A
610	II.1.B.1.aa	Administrative Buildings	SF	N/A	430,646	100.0	0.0	0.0	123,731
610-144	II.1.B.1.aa.i	Munitions Maintenance Administration	SF	4,500	5,578	100.0	0.0	0.0	1,078
610-144a	II.1.B.1.aa.ii	Munitions Line Delivery/Storage Section	SF	0	0	0.0	0.0	0.0	0
721	II.1.B.1.bb	Unaccompanied Enlisted (UEPH & VAQ)	PN	N/A	1,428	100.0	0.0	0.0	0
721-312	II.1.B.1.bb.i	Unaccompanied Enlisted Dorm	PN	1,388	1,393	100.0	0.0	0.0	5
722	II.1.B.1.cc	Dining Hall	SF	N/A	16,110	100.0	0.0	0.0	0
722-351	II.1.B.1.cc.i	Airman Dining Hall	SF	17,200	16,110	100.0	0.0	0.0	0
724	II.1.B.1.dd	Unaccompanied Officer Housing (OO & VOQ)	PN	N/A	124	100.0	0.0	0.0	60
730	II.1.B.1.ee	Personnel Support and Services Facilities	SF	N/A	107,476	100.0	0.0	0.0	36,012
740	II.1.B.1.ff	Morale, Welfare, and Rec (MWR)-Interior	SF	N/A	464,244	100.0	0.0	0.0	16,400
852-273	II.1.B.1.gg	Actl Support Equipment Storage	SY	29,057	29,530	100.0	0.0	0.0	473

II.1.B.2 From in-house survey:

UNCLASSIFIED

II.19

16-Feb-95

## 1995 AIR FORCE BASE QUESTIONNAIRE

## Minot AFB - ACC

II.1.B.1.d.iii	171-212	Flight Simulator Training (High Bay)	SF	18,123	18,123	100.0	0.0	0.0	0
II.1.B.1.d.iv	171-212a	Companion Trng Program	SF	0	0		0.0	0.0	0
II.1.B.1.d.v	171-618	Field Training Facility	SF	8,417	7,050	100.0	0.0	0.0	0
II.1.B.1.e	211	Maintenance Aircraft	SF	N/A	432,610	100.0	0.0	0.0	158,658
II.1.B.1.e.i	211-111	Maintenance Hanger	SF	0	0		0.0	0.0	0
II.1.B.1.e.ii	211-152	General Purpose Aircraft Maintenance	SF	48,000	49,405	100.0	0.0	0.0	1,405
II.1.B.1.e.iii	211-152a	DASH 21	SF	0	0		0.0	0.0	0
II.1.B.1.e.iv	211-153	Non-Destructive Inspection (NDI) Lab	SF	4,000	4,095	100.0	0.0	0.0	95
II.1.B.1.e.v	211-154	Aircraft Maintenance Unit	SF	10,000	43,786	100.0	0.0	0.0	33,786
II.1.B.1.e.vi	211-157	Jet Engine Insection and Maintenance	SF	18,000	29,739	100.0	0.0	0.0	11,739
II.1.B.1.e.vii	211-157a	Contractor Operated Main Base Supply	SF	0	0		0.0	0.0	0
II.1.B.1.e.viii	211-159	Aircraft Corrosion Control Hanger	SF	38,100	37,226	100.0	0.0	0.0	0
II.1.B.1.e.ix	211-173	Large Aircraft Maintenance Dock	SF	138,000	146,478	100.0	0.0	0.0	8,478
II.1.B.1.e.x	211-175	Medium Aircraft Maintenance Dock	SF	0	59,982	100.0	0.0	0.0	59,982
II.1.B.1.e.xi	211-177	Small Aircraft Maintenance Dock	SF	23,838	62,088	100.0	0.0	0.0	38,250
II.1.B.1.e.xii	211-179	Fuel System Maintenance Dock	SF	27,000	29,310	100.0	0.0	0.0	2,310
II.1.B.1.e.xiii	211-183	Test Cell	SF	1,852	2,158	100.0	0.0	0.0	306
II.1.B.1.f	212	Maint-Guided Missiles	SF	N/A	138,699	100.0	0.0	0.0	37,182
II.1.B.1.f.i	212-212	Missile Assembly (Build-Up) Shop	SF	0	0		0.0	0.0	0
II.1.B.1.f.ii	212-212a	Integrated Maintenance Facility (cruise Missiles)	SF	8,178	22,957	100.0	0.0	0.0	14,779
II.1.B.1.f.iii	212-213	Tactical Missile Maintenance Shop	SF	0	0		0.0	0.0	0
II.1.B.1.f.iv	212-220	Integrated Maintenance Facility	SF	32,300	32,300	100.0	0.0	0.0	0
II.1.B.1.g	214	Maintenance-Automotive	SF	N/A	230,084	100.0	0.0	0.0	0
II.1.B.1.g.i	214-425	Trailer/Equipment Maintenance Facility	SF	70,935	74,284	100.0	0.0	0.0	3,349
II.1.B.1.g.ii	214-467	Refueling Vehicle Shop	SF	3,600	2,756	100.0	0.0	0.0	0
II.1.B.1.h	215-552	Weapons and Release Systems (Armament Sho	SF	17,500	9,932	100.0	0.0	0.0	0
II.1.B.1.i	216-642	Conventional Munitions Shop	SF	3,500	9,827	100.0	0.0	0.0	6,327
II.1.B.1.j	217	Maint-Electronics and Communications Equip	SF	N/A	53,108	100.0	0.0	0.0	4,244
II.1.B.1.j.i	217-712	Avionics Shop	SF	23,000	15,328	100.0	0.0	0.0	0
II.1.B.1.j.ii	217-712a	LANTIRN	SF	0	0		0.0	0.0	0
II.1.B.1.j.iii	217-713	ECM Pod Shop and Storage	SF	0	0		0.0	0.0	0
II.1.B.1.k.i	218-712	Aircraft Support Equipment Shop/Storage Facility	SF	44,000	65,672	100.0	0.0	0.0	21,672
II.1.B.1.k.ii	218-852	Survival Equipment Shop (Parachute)	SF	6,065	7,617	100.0	0.0	0.0	1,552
II.1.B.1.k.iii	218-868	Precision Measurement Equipment Lab	SF	7,200	14,516	100.0	0.0	0.0	7,316
II.1.B.1.l	219	Maintenance-Installation, Repair, and Ops	SF	N/A	135,342	100.0	0.0	0.0	24,409
II.1.B.1.m	310	Science Labs	SF	N/A	0		0.0	0.0	N/A

## 1995 AIR FORCE BASE QUESTIONNAIRE

## Minot AFB - ACC

II.1.A.153	Minot SM N04	Launch Facility	2	2	
II.1.A.154	Minot SM N05	Launch Facility	1	1	
II.1.A.155	Minot SM N06	Launch Facility	2	2	
II.1.A.156	Minot SM N07	Launch Facility	2	2	
II.1.A.157	Minot SM N08	Launch Facility	2	2	
II.1.A.158	Minot SM N09	Launch Facility	2	2	
II.1.A.159	Minot SM N10	Launch Facility	2	2	
II.1.A.160	Minot SM N11	Launch Facility	2	2	
II.1.A.161	Minot SM O01	Launch Control Fac	5	5	
II.1.A.162	Minot SM O02	Launch Facility	2	2	
II.1.A.163	Minot SM O03	Launch Facility	2	2	
II.1.A.164	Minot SM O04	Launch Facility	1	1	
II.1.A.165	Minot SM O05	Launch Facility	2	2	
II.1.A.166	Minot SM O06	Launch Facility	2	2	
II.1.A.167	Minot SM O07	Launch Facility	2	2	
II.1.A.168	Minot SM O08	Launch Facility	1	1	
II.1.A.169	Minot SM O09	Launch Facility	2	2	
II.1.A.170	Minot SM O10	Launch Facility	2	2	
II.1.A.171	Minot SM O11	Launch Facility	2	2	
<b>TOTALS:</b>			5,305	3,605	1,700

## B. Facilities

## II.1.B.1 From real property records:

Facility Category Code	Category Description	Units of Measure	(A) Required Capacity	(B) Current Capacity	Percentage (%) Cond Code 1	Percentage (%) Cond Code 2	Percentage (%) Cond Code 3	(C) Excess Capacity
II.1.B.1.a.i	121-122 Hydrant Fueling System Pits	EA	18	30	100.0	0.0	0.0	12
II.1.B.1.a.ii	121-122a Consolidated Aircraft Support System	EA	0	0		0.0	0.0	0
II.1.B.1.b	131 Communications-Buildings	SF	N/A	9,484	100.0	0.0	0.0	0
II.1.B.1.c	141 Operations-Buildings	SF	N/A	221,377	100.0	0.0	0.0	20,200
II.1.B.1.c.i	141-232 Aerial Delivery Facility	SF	0	0		0.0	0.0	0
II.1.B.1.c.ii	141-753 Squadron Operations	SF	13,000	38,909	100.0	0.0	0.0	25,909
II.1.B.1.c.iii	141-782 Air Freight Terminal	SF	0	0		0.0	0.0	0
II.1.B.1.c.iv	141-784 Air Passenger Terminal	SF	0	0		0.0	0.0	0
II.1.B.1.c.v	141-785 Fleet Service Terminal	SF	0	0		0.0	0.0	0
II.1.B.1.d	171 Training Buildings	SF	N/A	54,687	100.0	0.0	0.0	0
II.1.B.1.d.i	171-211 Flight Training	SF	0	0		0.0	0.0	0
II.1.B.1.d.ii	171-211a Combat Crew Trng Squadron Facility	SF	0	0		0.0	0.0	0

## 1995 AIR FORCE BASE QUESTIONNAIRE

## Minot AFB - ACC

II.1.A.113	Minot SM J08	Launch Facility	2	2
II.1.A.114	Minot SM J09	Launch Facility	2	2
II.1.A.115	Minot SM J10	Launch Facility	2	2
II.1.A.116	Minot SM J11	Launch Facility	2	2
II.1.A.117	Minot SM K01	Launch Conrtol Fac	6	6
II.1.A.118	Minot SM K02	Launch Facility	1	1
II.1.A.119	Minot SM K03	Launch Facility	2	2
II.1.A.120	Minot SM K04	Launch Facility	2	2
II.1.A.121	Minot SM K05	Launch Facility	2	2
II.1.A.122	Minot Sm K06	Launch Facility	2	2
II.1.A.123	Minot SM K07	Launch Facility	2	2
II.1.A.124	Minot SM K08	Launch Facility	2	2
II.1.A.125	Minot SM K09	Launch Fac (permit)	80	80
II.1.A.126	Minot SM K10	Launch Facility	2	2
II.1.A.127	Minot SM K11	Launch Facility	2	2
II.1.A.128	Minot SM L01	Launch Control Fac	6	6
II.1.A.129	Minot SM L02	Launch Facility	2	2
II.1.A.130	Minot SM L03	Launch Facility	2	2
II.1.A.131	Minot SM L04	Launch Facility	2	2
II.1.A.132	Minot SM L05	Launch Facility	2	2
II.1.A.133	Minot SM L06	Launch Facility	2	2
II.1.A.134	Minot SM L07	Launch Facility	2	2
II.1.A.135	Minot SM L08	Launch Facility	2	2
II.1.A.136	Minot SM L09	Launch Facility	2	2
II.1.A.137	Minot SM L10	Launch Facility	1	1
II.1.A.138	Minot SM L11	Launch Facility	2	2
II.1.A.139	Minot SM M01	Launch Control Fac	6	6
II.1.A.140	Minot SM M02	Launch Facility	2	2
II.1.A.141	Minot SM M03	Launch Facility	2	2
II.1.A.142	Minot SM M04	Launch Facility	2	2
II.1.A.143	Minot SM M05	Launch Facility	2	2
II.1.A.144	Minot SM M06	Launch Facility	2	2
II.1.A.145	Minot SM M07	Launch Facility	2	2
II.1.A.146	Minot SM M08	Launch Facility	2	2
II.1.A.147	Minot SM M09	Launch Facility	1	1
II.1.A.148	Minot SM M10	Launch Facility	2	2
II.1.A.149	Minot SM M11	Launch Facility	2	2
II.1.A.150	Minot SM N01	Launch Control Fac	6	6
II.1.A.151	Minot SM N02	Launch Facility	2	2
II.1.A.152	Minot SM N03	Launch Facility	2	2

1995 AIR FORCE BASE QUESTIONNAIRE

Minot AFB - ACC

II.1.A.73	Minot SM G01	Launch Control Fac	6	6
II.1.A.74	Minot SM G02	Launch Facility	2	2
II.1.A.75	Minot SM G03	Launch Facility	2	2
II.1.A.76	Minot SM G04	Launch Facility	2	2
II.1.A.77	Minot SM G05	Launch Facility	2	2
II.1.A.78	Minot SM G06	Launch Facility	2	2
II.1.A.79	Minot SM G07	Launch Facility	2	2
II.1.A.80	Minot SM G08	Launch Facility	2	2
II.1.A.81	Minot SM G09	Launch Facility	2	2
II.1.A.82	Minot SM G10	Launch Facility	2	2
II.1.A.83	Minot SM G11	Launch Facility	2	2
II.1.A.84	Minot SM H01	Launch Control Fac	6	6
II.1.A.85	Minot SM H02	Launch Facility	2	2
II.1.A.86	Minot SM H03	Launch Facility	2	2
II.1.A.87	Minot SM H04	Launch Facility	2	2
II.1.A.88	Minot SM H05	Launch Facility	2	2
II.1.A.89	Minot SM H06	Launch Facility	2	2
II.1.A.90	Minot SM H07	Launch Facility	2	2
II.1.A.91	Minot SM H08	Launch Facility	2	2
II.1.A.92	Minot SM H09	Launch Facility	2	2
II.1.A.93	Minot SM H10	Launch Facility	2	2
II.1.A.94	Minot SM H11	Launch Facility	2	2
II.1.A.95	Minot SM I01	Launch Control Fac	6	6
II.1.A.96	Minot SM I02	Launch Facility	1	1
II.1.A.97	Minot SM I03	Launch Facility	2	2
II.1.A.98	Minot SM I04	Launch Facility	2	2
II.1.A.99	Minot SM I05	Launch Facility	2	2
II.1.A.100	Minot SM I06	Launch Facility	2	2
II.1.A.101	Minot SM I07	Launch Facility	2	2
II.1.A.102	Minot SM I08	Launch Facility	2	2
II.1.A.103	Minot SM I09	Launch Facility	2	2
II.1.A.104	Minot SM I10	Launch Facility	2	2
II.1.A.105	Minot SM I11	Launch Facility	2	2
II.1.A.106	Minot SM J01	Launch Facility	4	4
II.1.A.107	Minot SM J02	Launch Facility	2	2
II.1.A.108	Minot SM J03	Launch Facility	2	2
II.1.A.109	Minot SM J04	Launch Facility	2	2
II.1.A.110	Minot SM J05	Launch Facility	2	2
II.1.A.111	Minot SM J06	Launch Facility	2	2
II.1.A.112	Minot SM J07	Launch Facility	2	2

## 1995 AIR FORCE BASE QUESTIONNAIRE

## Minot AFB - ACC

II.1.A.33	Minot SM C05	Launch Facility	2	2
II.1.A.34	Minot SM C06	Launch Facility	1	1
II.1.A.35	Minot SM C07	Launch Facility	2	2
II.1.A.36	Minot SM C08	Launch Facility	2	2
II.1.A.37	Minot SM C09	Launch Facility	1	1
II.1.A.38	Minot SM C10	Launch Facility	2	2
II.1.A.39	Minot SM C11	Launch Facility	2	2
II.1.A.40	Minot SM D01	Launch Control Fac	7	7
II.1.A.41	Minot SM D02	Launch Facility	2	2
II.1.A.42	Minot SM D03	Launch Facility	2	2
II.1.A.43	Minot SM D04	Launch Facility	2	2
II.1.A.44	Minot SM D05	Launch Facility	2	2
II.1.A.45	Minot SM D06	Launch Facility	2	2
II.1.A.46	Minot SM D07	Launch Facility	2	2
II.1.A.47	Minot SM D08	Launch Facility	2	2
II.1.A.48	Minot SM D09	Launch Facility	2	2
II.1.A.49	Minot SM D10	Launch Facility	2	2
II.1.A.50	Minot SM D11	Launch Facility	2	2
II.1.A.51	Minot SM E01	Launch Control Fac	4	4
II.1.A.52	Minot SM E02	Launch Facility	2	2
II.1.A.53	Minot SM E03	Launch Facility	1	1
II.1.A.54	Minot SM E04	Launch Facility	2	2
II.1.A.55	Minot SM E05	Launch Facility	2	2
II.1.A.56	Minot SM E06	Launch Facility	2	2
II.1.A.57	Minot SM E07	Launch Facility	2	2
II.1.A.58	Minot SM E08	Launch Facility	2	2
II.1.A.59	Minot SM E09	Launch Facility	1	1
II.1.A.60	Minot SM E10	Launch Facility	2	2
II.1.A.61	Minot SM E11	Launch Facility	1	1
II.1.A.62	Minot SM F01	Launch Control Fac	6	6
II.1.A.63	Minot SM F02	Launch Facility	1	1
II.1.A.64	Minot SM F03	Launch Facility	2	2
II.1.A.65	Minot SM F04	Launch Facility	2	2
II.1.A.66	Minot SM F05	Launch Facility	2	2
II.1.A.67	Minot SM F06	Launch Facility	2	2
II.1.A.68	Minot SM F07	Launch Facility	1	1
II.1.A.69	Minot SM F08	Launch Facility	1	1
II.1.A.70	Minot SM F09	Launch Facility	2	2
II.1.A.71	Minot SM F10	Launch Facility	1	1
II.1.A.72	Minot SM F11	Launch Facility	2	2

## 1995 AIR FORCE BASE QUESTIONNAIRE

### Minot AFB - ACC

#### Section II

#### 1. Installation Capacity & Condition

##### A. Land

	Site	Description	Total Acreage	Acreage Presently Developed	Acreage Suitable for New Development
II.1.A.1	Belfield Comm Site	GWEN Site, permit	12	12	
II.1.A.2	Fortuna AFS	Inactive Site	124	124	
II.1.A.3	Fortuna CMF	Inactive Site	6	6	
II.1.A.4	Minot AFB	Main Base	4,714	3,014	1,700
II.1.A.5	Minot AFS	Communications Site	2	2	
II.1.A.6	Minot Middle Marker	ILS Marker Beacon	1	1	
II.1.A.7	Minot SM A01	Launch Control Fac	6	6	
II.1.A.8	Minot SM A02	Launch Facility	2	2	
II.1.A.9	Minot SM A03	Launch Facility	2	2	
II.1.A.10	Minot SM A04	Launch Facility	2	2	
II.1.A.11	Minot SM A05	Launch Facility	2	2	
II.1.A.12	Minot SM A06	Launch Facility	2	2	
II.1.A.13	Minot SM A07	Launch Facility	2	2	
II.1.A.14	Minot SM A08	Launch Facility	2	2	
II.1.A.15	Minot SM A09	Launch Facility	2	2	
II.1.A.16	Minot SM A10	Launch Facility	2	2	
II.1.A.17	Minot SM A11	Launch Facility	2	2	
II.1.A.18	Minot SM B01	Launch Control Fac	4	4	
II.1.A.19	Minot SM B02	Launch Facility	2	2	
II.1.A.20	Minot SM B03	Launch Facility	2	2	
II.1.A.21	Minot SM B04	Launch Facility	2	2	
II.1.A.22	Minot SM B05	Launch Facility	2	2	
II.1.A.23	Minot SM B06	Launch Facility	2	2	
II.1.A.24	Minot SM B07	Launch Facility	2	2	
II.1.A.25	Minot SM B08	Launch Facility	2	2	
II.1.A.26	Minot SM B09	Launch Facility	2	2	
II.1.A.27	Minot SM B10	Launch Facility	2	2	
II.1.A.28	Minot SM B11	Launch Facility	2	2	
II.1.A.29	Minot SM C01	Launch Control Fac	6	6	
II.1.A.30	Minot SM C02	Launch Facility	2	2	
II.1.A.31	Minot SM C03	Launch Facility	2	2	
II.1.A.32	Minot SM C04	Launch Facility	2	2	

**1995 AIR FORCE BASE QUESTIONNAIRE**

**Minot AFB - ACC**

**I.2.1 No technical training mission.**

**J. Weather Data (AF Environmental Technical Applications Center)**

**I.2.J.1 Percentage of time the weather is at or above (ceiling / visibility)**

<b>a. 200 ft / 1/2 mi:</b>	<b>b. 300 ft / 1 mi:</b>	<b>c. 1500 ft / 3 mi:</b>	<b>d. 3000 ft / 3 mi:</b>	<b>e. 3000 ft / 5 mi:</b>
99.0	97.9	89.0	83.2	82.1

**I.2.J.2 Crosswind component to the primary runway:**

**I.2.J.2.a Is at or below 15 knots 94.8 percent of the time**

**I.2.J.2.b Is at or below 25 knots 99.3 percent of the time**

**I.2.J.3 92 Days have freezing participation (mean per year).**

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## 1995 AIR FORCE BASE QUESTIONNAIRE

### Minot AFB - ACC

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#### F. Potential for Growth in Training Airspace (Area)

- I.2.F.1** Expansion of training airspace is possible.
- I.2.F.1.a** Estimated expansion potential is 90.0 percent. Rationale for estimate:  
Further expansion past 90% will infringe on airspace controlled by other units.
- I.2.F.2** Current access will remain the same.
- I.2.F.3** No reductions in training airspace are expected.
- I.2.F.4** Current special use airspace and training areas meet all training requirements.
- I.2.F.4.a** Deployed, off-station training is not required to meet training requirements.

#### G. Composite / Integrated Force Training

- I.2.G.1** Nearest Active Duty or Reserve ground combat unit where joint training can be accomplished and that has impact areas capable of tactical employment:  
CAMP RIPLEY  
320 NM from the base.
- I.2.G.2** DELETED
- I.2.G.3** Nearest Naval unit where joint training can be accomplished:  
Fallon NAS  
1270 mi from the base.
- I.2.G.4** Nearest Active Duty Air Force or ARC unit where dissimilar training can be accomplished:  
Grand Forks AFB  
160 mi from the base.
- I.2.G.5** DELETED

#### H. Missile Bases (AF Space Command)

Applies to missile bases only. Responses are classified.

#### I. Technical Training (Air Education and Training Command)

## 1995 AIR FORCE BASE QUESTIONNAIRE

### Minot AFB - ACC

hours in advance of CERT use.

**I.2.E.7 Published availability of the airspace:**

During daylight, good weather, when RAPCON is in operation.

**Range scheduling statistics (yearly average from 1990 to 93.**

**I.2.E.7.a Hours scheduled:** 160 hrs

**I.2.E.7.b Hours used:** 125 hrs

**I.2.E.7.c Reasons for non-use:**

Maintenance and weather.

**I.2.E.8 Utilization of the airspace can be increased.**

**I.2.E.9 It is possible to expand hours and volume to increase the airspace utilization.**

**I.2.E.10 Description of the volume or area of the Airspace:**

Approx. 350 Sq Miles, altitude 500'-3300' (except over Minot AFB Surface-3300' for bomb drop).

**I.2.E.11 100.00 percent of the airspace is usable.**

**Commercial Aviation Impact**

**I.2.E.12 The base is Not joint-use (military/civilian).**

**I.2.E.13 List of all airfields within a 50 mile radius of the base:**

<b>Airfield:</b>	<b>Airfield:</b>
Flying "S" Airstrip/12 miles	Civilian
Bottineau Municipal Airfield/43 miles	Civilian
Glenburn Airstrip/7 miles	Civilian
Kenmare Municipal Airfield/29 miles	Civilian
Minot International Airport/9 miles	Civilian
Mohall Municipal Airfield/20 miles	Civilian
Towner Airfield/38 miles	Civilian
Westhope Municipal Airfield/31 miles	Civilian

**I.2.E.14 Civilian/commercial operators or other airspace users do Not pose scheduling, operational, or environmental constrains or limits.**

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**1995 AIR FORCE BASE QUESTIONNAIRE**  
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Range scheduling statistics (yearly average from 1990 to 93).

**I.2.E.7.a** Hours scheduled: 20 hrs

**I.2.E.7.b** Hours used: 17 hrs

**I.2.E.7.c** Reasons for non-use:  
Maintenance and weather.

**I.2.E.8** Utilization of the airspace can be increased.

**I.2.E.9** It is possible to expand hours and volume to increase the airspace utilization.

**I.2.E.10** Description of the volume or area of the Airspace:  
Approx. 8,000 Sq Miles, altitude 15,000' to FL 210

**I.2.E.11** 60.00 percent of the airspace is usable.

**Airspace: CERT**

**I.2.E.2** An environmental analysis has been conducted for this airspace.

**I.2.E.3** There are No Noise Sensitive Areas associated with the airspace.

**I.2.E.4** Commercial / civilian encroachment problems associated with the airspace:

**I.2.E.4.a** airfields

**I.2.E.4.a** Low level aircraft from local

**I.2.E.5** There are No planned expansions (including new airspace) to the base's special use airspace.

**I.2.E.6** Restrictions currently acting on this airspace:

A NOTAM must be published 24

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**1995 AIR FORCE BASE QUESTIONNAIRE**  
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**E. Airspace Used by Base****I.2.E.1 Airspaces scheduled or managed by the base:**

AR-629  
CERT

Air Refueling Track / Anc  
Other

**Details for airspace scheduled or managed by the base:**

**Airspace: AR-629**

**I.2.E.2 An environmental analysis has Not been conducted for this airspace.**

**I.2.E.3 There are No Noise Sensitive Areas associated with the airspace.**

**I.2.E.4 Commercial / civilian encroachment problems associated with the airspace:**

**I.2.E.5 There are No planned expansions (including new airspace) to the base's special use airspace.**

**I.2.E.6 Restrictions currently acting on this airspace:**

RAPCON must be manned and oper  
in AR track.  
operating to control traffic

**I.2.E.7 Published availability of the airspace:**

Unlimited when RAPCON is in operation, 0600L Monday - 2200L Friday, 0900L-1700L weekends/holiday

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**1995 AIR FORCE BASE QUESTIONNAIRE****Minot AFB - ACC**

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**D. Ranges****Ranges (Controlled/managed by the base)**

**I.2.D.1** The base Does not control or manage any ranges, questions I.2.D.2 to I.2.D.17 skipped.

**Ranges (Used by the base)**

**I.2.D.18** The base uses ranges on a regular basis

**I.2.D.19** The mission and training is Not adversely impacted by training area airspace encroachment or other conflicts.

**I.2.D.20** MOAs/bombing ranges/other training areas have scheduling restrictions/limitations as follows:

**I.2.D.20.a** UTTR UTTR can be pre-empted by higher priority test missions with little notice

**I.2.D.21** MOAs/bombing ranges/other training areas have No projected scheduling restrictions/limitations.

**I.2.D.22** Significant changes/restrictions/limitations effecting the scheduling of low level routes used by the base:

## 1995 AIR FORCE BASE QUESTIONNAIRE

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**I.2.C.10b** The total number of refueling events within:

500 NM	700 NM
2811	4114

Track	Distance	Events	Track	Distance	Events	Track	Distance	Events	Track	Distance	Events
AR-106	154 NM	483	AR-012H	191 NM	141	AR-012L	191 NM	107	AR-024	350 NM	149
AR-017	360 NM	186	AR-011	378 NM	87	AR-014	378 NM	635	AR-105	420 NM	285
AR-109	444 NM	213	AR-010	462 NM	525	AR-002	500 NM	9			0
AR-004B	613 NM	86	AR-309	615 NM	138	AR-116	625 NM	541	AR-016	633 NM	157

**I.2.C.10c** The nearest concentrated receiver area (AR track with at least 500 events) is 154NM from the base."

**I.2.C.10d** Percentage of tanker demand in region: 5.0  
 Percentage of tankers based in region: 15.0

Tanker saturation within the region has been classified as tanker Rich

**I.2.C.11** Drop zones (DZs) listed in AMC Pamphlet 55-57 (9 Jun 94) within 150 NM with a minimum size of 700 by 1000 yards:

Name	Distance	Night?	Personnel?	Equipment?	Route Count	
					IR	SR
BLAIR	207 NM		✓		0	0
HUGE	279 NM		✓		0	0
NICOLE (CIR)	313 NM	✓	✓	✓	0	0
NIGHTHAWK	266 NM		✓		0	0

**I.2.C.11.a**

**I.2.C.12** Closest primary landing zone (LZ) listed in AMC Pamphlet 55-57 (9 Jun 94) with a minimum size of 3000 by 60 ft:

KALAHAR 317 NM

**I.2.C.13** Nearest full scale drop zone(s) (minimum size 1000 by 1500 yds) which can be used for personnel drops or night equipment drops:

Name	Distance	Night?	Personnel?	Equipment?	Route Count	
					IR	SR
BLAIR	207 NM		✓		0	0
IRON MOUNTAIN EAST	457 NM	✓	✓	✓	0	0

**I.2.C.14** Name and distance to ground force installation (US Army, USMC) with a restricted airspace capable of supporting tactical aircraft employment (floor no higher than 100 ft AGL, ceiling no lower than 3,00 ft AGL, minimum area 25000 sq NM>

FORT CARSON 602 NM

## 1995 AIR FORCE BASE QUESTIONNAIRE

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VR-1422 637 NM	VR-1423 637 NM	IR-527 640 NM	IR-301 641 NM	IR-302 643 NM	VR-1304 643 NM
IR-418 644 NM	IR-420 644 NM	SR-774 653 NM	IR-340 655 NM	VR-1525 658 NM	VR-1636 658 NM
VR-1300 666 NM	IR-503 669 NM	VR-532 669 NM	VR-533 672 NM	VR-1301 675 NM	IR-307 678 NM
VR-1446 679 NM	VR-1639 683 NM	VR-534 687 NM	VR-535 687 NM	VR-634 687 NM	IR-320 688 NM
VR-1445 688 NM	IR-502 693 NM	IR-504 693 NM	IR-185 705 NM	SR-473 708 NM	SR-477 708 NM
SR-478 708 NM	VR-1302 709 NM	VR-138 709 NM	SR-474 712 NM	SR-472 713 NM	SR-470 715 NM
SR-471 715 NM	VR-119 715 NM	IR-177 717 NM	IR-304 719 NM	VR-319 720 NM	IR-175 721 NM
SR-476 722 NM	VR-1644 723 NM	VR-1647 723 NM	IR-614 724 NM	VR-1635 724 NM	VR-1645 724 NM
SR-475 725 NM	IR-181 726 NM	IR-183 726 NM	VR-108 729 NM	VR-316 733 NM	VR-1174 740 NM
IR-290 742 NM	IR-293 742 NM	IR-290A 742 NM	VR-1626 745 NM	IR-281 746 NM	IR-145 747 NM
IR-182 747 NM	IR-146 747 NM	IR-171 747 NM	IR-126 751 NM	IR-425 751 NM	SR-781 751 NM
IR-235 751 NM	VR-664 753 NM	VR-615 755 NM	VR-1354 763 NM	IR-110 767 NM	VR-1546 769 NM
SR-782 772 NM	IR-280 778 NM	IR-282 778 NM	VR-1130 779 NM	VR-1355 779 NM	IR-341 782 NM
IR-343 782 NM	IR-109 783 NM	VR-152 783 NM	VR-1352 784 NM	IR-172 785 NM	IR-173 785 NM
VR-1627 786 NM	VR-1628 786 NM	IR-107 787 NM	IR-150 788 NM	VR-1141 788 NM	IR-342 790 NM
SR-294 792 NM	SR-295 792 NM	IR-310 793 NM	SR-206 794 NM	VR-1640 800 NM	

I.2.C.9 IR-480 is the closest 400 series Military Training Route (MTR) which leads into the Tactics Training Range Complex (TTRC). Point A is 127 NM from the base.

I.2.C.10 Total number of Air Refueling (AR) routes with anchor points for refueling anchors or air refueling control points (ARCPs) for refueling tracks within:

200 NM	300 NM	500 NM
11	14	34

I.2.C.10.a Routes and distance to route's control point:

Refueling Route	Distance	Refueling Route	Distance	Refueling Route	Distance	Refueling Route	Distance
AR-629	28 NM	AR-606	64 NM	AR-619	112 NM	AR-453	148 NM
AR-106H EAST	154 NM	AR-106L EAST	154 NM	AR-106H WEST	156 NM	AR-106L WEST	156 NM
AR-605	167 NM	AR-012H WEST	191 NM	AR-012L WEST	191 NM		
AR-012H EAST	245 NM	AR-012L EAST	245 NM	AR-604	259 NM		
AR-019 SOUTH	350 NM	AR-024 SOUTH	350 NM	AR-017 SOUTH	360 NM	AR-009 WEST	365 NM
AR-011 WEST	378 NM	AR-014 WEST	378 NM	AR-105 EAST	420 NM	AR-105 WEST	420 NM
AR-011 EAST	437 NM	AR-014 EAST	437 NM	AR-019 NORTH	442 NM	AR-024 NORTH	442 NM
AR-109H EAST	444 NM	AR-109L EAST	444 NM	AR-017 NORTH	452 NM	AR-622	457 NM
AR-010 NORTHWEST	462 NM	AR-9A WEST	483 NM	AR-610	497 NM	AR-002 WEST	500 NM

## 1995 AIR FORCE BASE QUESTIONNAIRE

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II.2.F.8	Airlift	C-141	325 Kips	50,000 Passes	Supports Now	Supports Now	Supports Now
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II.2.G Excess aircraft parking capacity for operational use.

II.2.G.1 The total usable apron space for aircraft parking is 405,135 Sq Yds.

II.2.G.1.a Specifications for individual parking areas (irregularly shaped areas are approximated by rectangle).

Parking area name:	Dimensions (Equivalent Rectangle)		CURRENT USE DATA. (Type of Aircraft and which of the permanently assigned aircraft use the area.)	
Area 1	3,050 ft	700 ft	Primary Aircraft	ACFT PKNG
Area 10-Old TAC Apron	200 ft	300 ft	Primary Aircraft	ACFT PKNG
Area 2.a(Old BAA)	1,000 ft	150 ft	Primary Aircraft	ACFT PKNG
Area 2.b(Old BAA)	1,000 ft	125 ft	Primary Aircraft	ACFT PKNG
Area 2.c(Old BAA)	275 ft	100 ft	Primary Aircraft	ACFT PKNG
Area 3.a(Old TAA)	1,275 ft	250 ft	Neither	Vacant
Area 3.b(Old TAA)	1,275 ft	250 ft	Neither	Vacant
Area 4-Old TAC Apron	1,200 ft	242 ft	Primary Aircraft	ACFT PKNG
Area 5-Old TAC Apron	275 ft	200 ft	Primary Aircraft	ACFT PKNG
Area 6-Old TAC Apron	400 ft	200 ft	Primary Aircraft	ACFT PKNG
Area 7-Old TAC Apron	125 ft	200 ft	Primary Aircraft	ACFT PKNG
Area 8-Old TAC Apron	100 ft	300 ft	Primary Aircraft	ACFT PKNG
Area 9-Old TAC Apron	100 ft	300 ft	Primary Aircraft	ACFT PKNG

II.2.G.2 Permanently assigned aircraft currently require 185,600 Sq Yds of parking space.

II.2.G.3 219,444 Sq Yds of parking space is available for parking additional non-transient aircraft.

II.2.G.4 The following factors limit aircraft parking capability:

None.

II.2.H The dimensions of the (largest) transient parking area:

II.2.I Details of operational aircraft arresting systems on each runway are in the Runway Table (II.2)

II.2.J There are No critical features relative to the airfield pavement system that limit its capacity:

## 1995 AIR FORCE BASE QUESTIONNAIRE

## Minot AFB - ACC

## 3. Utility Systems

II.3.A The overall system capacity and percent current usage for utility system categories:

Utility System	Capacity	Unit of Measure	Percent Usage
II.3.A.1 Water:	2.6 MG/D	MG/D - million gallons per day	57 %
II.3.A.2 Sewage:	3.3 MG/D		31 %
II.3.A.3 Electrical distribution:	21.75 MW	MW - million watts	39 %
II.3.A.4 Natural Gas:	5,000.00 MCF/D	MCF/D - million cubic feet per day	78 %
II.3.A.5 High temperature water/steam generation/distribution:	167.0 MBTUH	MBTUH - million British thermal units per hour	46 %

II.3.B Characteristics regarding the utility system that should be considered:

No.

## 4. Aircraft Maintenance Hangar Facilities

Specifications for general maintenance hangars and nose docks, excluding Depot and Test &amp; Evaluation facilities.

II.4.A.1 Facility number: 715 Hanger  
 Current Use: \*\*Facility currently used for misc storage.

II.4.A.2 Size (SF): 6,054 SF

II.4.A.3-4 Largest aircraft the hanger/ nose dock can COMPLETELY enclose: F-15

DIMENSIONS:	Width	Height	Length
II.4.A.5 Door Opening:	79 ft	21 ft	
II.4.A.6 Largest unobstructed space inside the facility:	72 ft	21 ft	79 ft

II.4.A.1 Facility number: 718 Hanger  
 Current Use: T-38 Maint Hanger, can hold 4 F-15s

II.4.A.2 Size (SF): 23,838 SF

II.4.A.3-4 Largest aircraft the hanger/ nose dock can COMPLETELY enclose: F-15

DIMENSIONS:	Width	Height	Length
II.4.A.5 Door Opening:	68 ft	24 ft	
II.4.A.6 Largest unobstructed space inside the facility:	68 ft	24 ft	68 ft

## 1995 AIR FORCE BASE QUESTIONNAIRE

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II.4.A.1 Facility number: 727 Hanger  
Current Use: Temp Hospital Equipment Storage

II.4.A.2 Size (SF): 19,125 SF

II.4.A.3-4 Largest aircraft the hanger/ nose dock can COMPLETELY enclose: F-15

DIMENSIONS:	Width	Height	Length
II.4.A.5 Door Opening:	98 ft	31 ft	
II.4.A.6 Largest unobstructed space inside the facility:	98 ft	31 ft	80 ft

II.4.A.1 Facility number: 733 Hanger  
Current Use: Misc MWRS & CES Storage facility

II.4.A.2 Size (SF): 19,125 SF

II.4.A.3-4 Largest aircraft the hanger/ nose dock can COMPLETELY enclose: F-15

DIMENSIONS:	Width	Height	Length
II.4.A.5 Door Opening:	98 ft	31 ft	
II.4.A.6 Largest unobstructed space inside the facility:	98 ft	31 ft	80 ft

II.4.A.1 Facility number: 758 Nose Dock  
Current Use: M/A Maint Dock

II.4.A.2 Size (SF): 27,164 SF

II.4.A.3-4 Largest aircraft the hanger/ nose dock can COMPLETELY enclose: KC-135

DIMENSIONS:	Width	Height	Length
II.4.A.5 Door Opening:	160 ft	31 ft	
II.4.A.6 Largest unobstructed space inside the facility:	160 ft	31 ft	140 ft

II.4.A.1 Facility number: 761 Hanger  
Current Use: FI System Maint Dock

II.4.A.2 Size (SF): 11,268 SF

II.4.A.3-4 Largest aircraft the hanger/ nose dock can COMPLETELY enclose: F-15

DIMENSIONS:	Width	Height	Length
II.4.A.5 Door Opening:	60 ft	24 ft	
II.4.A.6 Largest unobstructed space inside the facility:	55 ft	27 ft	102 ft

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II.4.A.1 Facility number: 763 Nose Dock

Current Use: M/A Maint Dock

II.4.A.2 Size (SF): 32,818 SF

II.4.A.3-4 Largest aircraft the hanger/ nose dock can COMPLETELY enclose: KC-135

DIMENSIONS:	Width	Height	Length
II.4.A.5 Door Opening:	160 ft	30 ft	
II.4.A.6 Largest unobstructed space inside the facility:	160 ft	45 ft	140 ft

II.4.A.1 Facility number: 836 Nose Dock

Current Use: F1 System Maint Dock

II.4.A.2 Size (SF): 18,042 SF

II.4.A.3-4 Largest aircraft the hanger/ nose dock can COMPLETELY enclose: F-15

DIMENSIONS:	Width	Height	Length
II.4.A.5 Door Opening:	198 ft	28 ft	
II.4.A.6 Largest unobstructed space inside the facility:	198 ft	32 ft	86 ft

II.4.A.1 Facility number: 837 Hanger

Current Use: ACFT Corrosion Control Facility

II.4.A.2 Size (SF): 37,226 SF

II.4.A.3-4 Largest aircraft the hanger/ nose dock can COMPLETELY enclose: B-52

DIMENSIONS:	Width	Height	Length
II.4.A.5 Door Opening:	198 ft	26 ft	
II.4.A.6 Largest unobstructed space inside the facility:	198 ft	32 ft	140 ft

II.4.A.1 Facility number: 862 Nose Dock

Current Use: L/A Maint Dock

II.4.A.2 Size (SF): 26,084 SF

II.4.A.3-4 Largest aircraft the hanger/ nose dock can COMPLETELY enclose: F-15

DIMENSIONS:	Width	Height	Length
II.4.A.5 Door Opening:	198 ft	29 ft	
II.4.A.6 Largest unobstructed space inside the facility:	198 ft	32 ft	86 ft

## 1995 AIR FORCE BASE QUESTIONNAIRE

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II.6.C The most recent, publicly released AICUZ study is dated Aug 92

II.6.D Current AICUZ study's flying activities subsection reflects all currently assigned aircraft  
Subsection reflects the number of daily flying operations conducted by all assigned aircraft  
Current AICUZ study's flight track figure/map reflects current flight tracks.

II.6.E The AICUZ study was last updated on Aug 93  
The study is still valid.

II.6.F Local governments have incorporated AICUZ recommendations into land use controls

II.6.F.2 AICUZ recommended development limits for Accident Potential Zone 1.

Government name:	Types of controls in place	Types of encroachment limited:
Ward County Board	Ward County Zoning Ordinance No. 1 and 2	Restricted to agricultural use of land within 3 miles of base and then only limited development within 5 miles of base.

II.6.F.3 AICUZ recommended development limits for Accident Potential Zone 2.

Government name:	Types of controls in place	Types of encroachment limited:
Ward County Board	Same as above.	

II.6.F.4 AICUZ recommended development limits between the 65 Ldn and 70 Ldn Noise Contours.

Government name:	Types of controls in place	Types of encroachment limited:
Ward County Board	Same as above.	

II.6.F.5 AICUZ recommended development limits between the 70 Ldn and 75 Ldn Noise Contours.

Government name:	Types of controls in place	Types of encroachment limited:
Ward County Board	Same as above	

II.6.F.6 AICUZ recommended development limits between the 75 Ldn and 80 Ldn Noise Contours.

Government name:	Types of controls in place	Types of encroachment limited:

## 1995 AIR FORCE BASE QUESTIONNAIRE

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#### 13. Environmental Cleanup - Installation Restoration Program (IRP) and Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA)

VIII.13.A A preliminary assessment of the installation has been performed.

VIII.13.A.1 11 IRP sites have been identified

VIII.13.A.2 No IRP sites extend off base.

VIII.13.A.3 3All on-site remediation is estimated to be in place in 5065

VIII.13.B The installation is Not a National Priority List (NPL) site nor proposed as an NPL site.

VIII.13.C There are no existing Federal Agency Agreements to clean up the base.

Federal Facility Agreements include Interagency Agreements, Administrative Orders of Consent, and other agreements.

VIII.13.D There are no known uncontrolled or unregulated occurrences of specific contaminate types or sources.

Contaminate types and sources include landfills, medical wastes, radioactive wastes, etc.

VIII.13.E There are sites or SWMUs currently being investigated and remediated pursuant to RCRA corrective action.

SWMU - Solid Waste Management Units

RCRA - Resource Conservation and Recovery Act

VIII.13.E.1 3 sites are being investigated and remediated.

VIII.13.F The IRP does Not currently restrict construction (siting) activities/operations on-base.

#### 14. Compliance / IRP Costs (\$000)

VIII.14.A Expenditure Category	Current FY	FY + 1	FY + 2	FY + 3	FY + 4
Hazardous Waste Disposal/Remediation	\$200.000 K	\$200.000 K	\$220.000 K	\$220.000 K	\$240.000 K
IRP	\$1,604.000 K	\$198.000 K	\$728.000 K	\$960.000 K	\$148.000 K
Natural Resources	\$2.000 K	\$2.000 K	\$2.000 K	\$2.000 K	\$2.000 K
Permits	\$20.000 K	\$20.000 K	\$20.000 K	\$20.000 K	\$20.000 K
POLL PREV	\$195.000 K	\$209.000 K	\$904.000 K	\$278.000 K	\$205.000 K

#### 15. Other Issues

VIII.15.A There are no additional activities which may constrain or enhance base operations.

**1995 AIR FORCE BASE QUESTIONNAIRE**  
**Minot AFB - ACC**

**16. Air Quality - Clean Air Act**

**VIII.16.A Air Quality Control Area (AQCA) geographic region in which the base is located:**  
AQCA 172

**VIII.16.B Air quality regulatory agency responsible for the AQCA:.** North Dakota State Health Dept., Bismarck, ND

**VIII.16.B Name and phone number of the AQCA program manager for issues pertaining to the base:**

Mr. Gary Kline

701-224-2348

**The EPA has designated the AQCA (or the specific portion of the AQCA containing the base) to be:**

**VIII.16.C.1 In Attainment for Ozone**

**VIII.16.C.2 In Attainment for Carbon Monoxide**

**VIII.16.C.3 In Attainment for Particulate matter (PM-10)**

**VIII.16.C.4 In Attainment for Sulfur Dioxide**

**VIII.16.C.5 In Attainment for Nitrogen Dioxide (Not NOx)**

**VIII.16.C.6 In Attainment for Lead**

**VIII.16.C.7 The EPA has Not proposed that any AQCA pollutant in ATTAINMENT be listed as NONATTAINMENT**

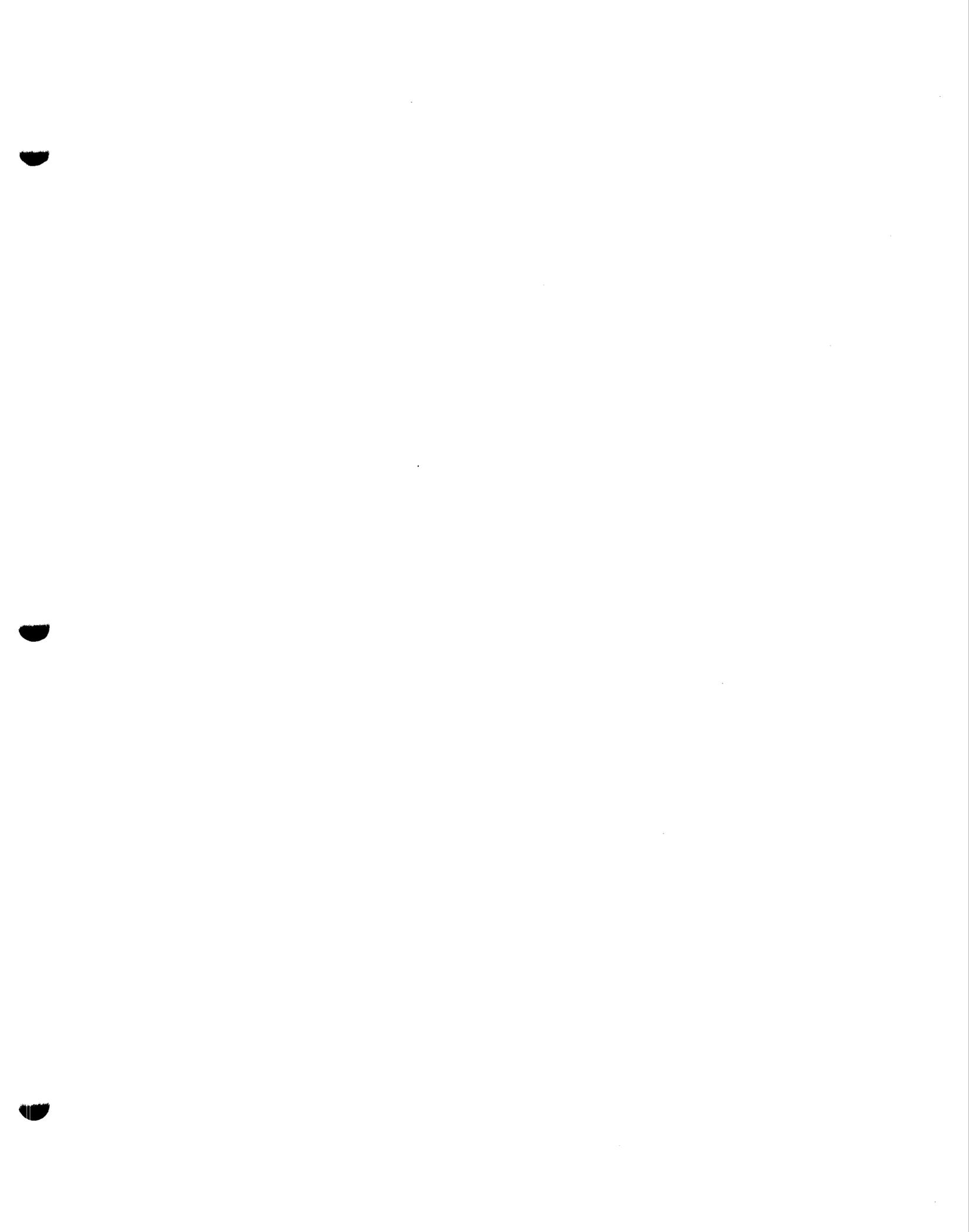
**VIII.16.D.1 Ozone daily maximum hourly design value for the portion of the AQCA in which the base is located:**

**VIII.16.D.2 Carbon monoxide 8 hour design value for the portion of the AQCA in which the base is located:**

**VIII.16.D.3 Ozone % of NAAQS can not be computed**

**VIII.16.D.4 Carbon monoxide % of NAAQS can not be computed**

**Air Quality Survey complete, No additional data required.**



*Realign Minot*

Department : Air Force  
 Option Package : Minot Focused Alt 1  
 Scenario File : C:\COBRA95\AF\DBCRC\MINOT001.CBR  
 Std Fctrs File : C:\COBRA95\AF\DOO\STSURVEY\FINAL.SFF

*Remove Envoiro*

Starting Year : 1996  
 Final Year : 1998  
 ROI Year : Immediate

*R4A Position  
 A/o 20/um 1995*

NPV in 2015(\$K): -453,702  
 1-Time Cost(\$K): 17,254

Net Costs (\$K) Constant Dollars

	1996	1997	1998	1999	2000	2001	Total	Beyond
MilCon	0	0	0	0	0	0	0	0
Person	0	0	-12,429	-34,961	-34,961	-34,961	-117,312	-34,961
Overhd	179	134	-994	-1,094	-1,094	-1,094	-3,964	-1,094
Moving	0	0	773	867	0	0	1,640	0
Missio	0	0	0	0	0	0	0	0
Other	5,000	633	761	3,755	0	0	10,149	0
<b>TOTAL</b>	<b>5,179</b>	<b>767</b>	<b>-11,888</b>	<b>-31,433</b>	<b>-36,055</b>	<b>-36,055</b>	<b>-109,486</b>	<b>-36,055</b>

	1996	1997	1998	1999	2000	2001	Total
<b>POSITIONS ELIMINATED</b>							
Off	0	0	84	0	0	0	84
Enl	0	0	725	0	0	0	725
Civ	0	0	46	0	0	0	46
TOT	0	0	855	0	0	0	855

	1996	1997	1998	1999	2000	2001	Total
<b>POSITIONS REALIGNED</b>							
Off	0	0	0	0	0	0	0
Enl	0	0	0	0	0	0	0
Stu	0	0	0	0	0	0	0
Civ	0	0	0	0	0	0	0
TOT	0	0	0	0	0	0	0

Summary:

Take BOS savings from drawdown of Minot missile field. Silo destruction no a BRAC cost; however, missile movement is included

COMMISSION MODIFIED COBRA. REMOVED \$17,400K IN ENVIRONMENTAL MITIGATION COSTS WHICH WAS TO DIG UP THE FUEL TANKS.

Department : Air Force  
 Option Package : Minot Focused Alt 1  
 Scenario File : C:\COBRA95\AF\DBCRC\MINOT001.CBR  
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	Costs (\$K) Constant Dollars						Total	Beyond
	1996	1997	1998	1999	2000	2001		
MilCon	0	0	0	0	0	0	0	0
Person	0	0	5,051	0	0	0	5,051	0
Overhd	179	134	101	0	0	0	414	0
Moving	0	0	773	867	0	0	1,640	0
Missio	0	0	0	0	0	0	0	0
Other	5,000	633	761	3,755	0	0	10,149	0
<b>TOTAL</b>	<b>5,179</b>	<b>767</b>	<b>6,686</b>	<b>4,622</b>	<b>0</b>	<b>0</b>	<b>17,254</b>	<b>0</b>

	Savings (\$K) Constant Dollars						Total	Beyond
	1996	1997	1998	1999	2000	2001		
MilCon	0	0	0	0	0	0	0	0
Person	0	0	17,480	34,961	34,961	34,961	122,363	34,961
Overhd	0	0	1,094	1,094	1,094	1,094	4,377	1,094
Moving	0	0	0	0	0	0	0	0
Missio	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0
<b>TOTAL</b>	<b>0</b>	<b>0</b>	<b>18,575</b>	<b>36,055</b>	<b>36,055</b>	<b>36,055</b>	<b>126,741</b>	<b>36,055</b>

NET PRESENT VALUES REPORT (COBRA v5.08)  
 Data As Of 10:02 06/20/1995, Report Created 10:05 06/20/1995

Department : Air Force  
 Option Package : Minot Focused Alt 1  
 Scenario File : C:\COBRA95\AF\DBCRC\MINOT001.CBR  
 Std Fctrs File : C:\COBRA95\AF\DOO\STSURVEY\FINAL.SFF

Year	Cost(\$)	Adjusted Cost(\$)	NPV(\$)
1996	5,178,882	5,109,108	5,109,108
1997	767,161	736,570	5,845,678
1998	-11,888,566	-11,108,999	-5,263,320
1999	-31,433,278	-28,585,992	-33,849,312
2000	-36,055,278	-31,911,749	-65,761,062
2001	-36,055,278	-31,057,664	-96,818,725
2002	-36,055,278	-30,226,437	-127,045,162
2003	-36,055,278	-29,417,457	-156,462,619
2004	-36,055,278	-28,630,128	-185,092,747
2005	-36,055,278	-27,863,872	-212,956,618
2006	-36,055,278	-27,118,123	-240,074,742
2007	-36,055,278	-26,392,334	-266,467,076
2008	-36,055,278	-25,685,970	-292,153,046
2009	-36,055,278	-24,998,511	-317,151,556
2010	-36,055,278	-24,329,451	-341,481,007
2011	-36,055,278	-23,678,298	-365,159,305
2012	-36,055,278	-23,044,572	-388,203,877
2013	-36,055,278	-22,427,807	-410,631,684
2014	-36,055,278	-21,827,550	-432,459,234
2015	-36,055,278	-21,243,357	-453,702,591

TOTAL ONE-TIME COST REPORT (COBRA v5.08) - Page 1/2  
 Data As Of 10:02 06/20/1995, Report Created 10:05 06/20/1995

Department : Air Force  
 Option Package : Minot Focused Alt 1  
 Scenario File : C:\COBRA95\AF\DBCRC\MINOT001.CBR  
 Std Fctrs File : C:\COBRA95\AF\DOD\STSURVEY\FINAL.SFF

(All values in Dollars)

Category	Cost	Sub-Total
-----	----	-----
Construction		
Military Construction	0	
Family Housing Construction	0	
Information Management Account	0	
Land Purchases	0	
Total - Construction		0
Personnel		
Civilian RIF	72,761	
Civilian Early Retirement	20,989	
Civilian New Hires	0	
Eliminated Military PCS	4,944,653	
Unemployment	12,528	
Total - Personnel		5,050,931
Overhead		
Program Planning Support	413,665	
Mothball / Shutdown	0	
Total - Overhead		413,665
Moving		
Civilian Moving	0	
Civilian PPS	403,200	
Military Moving	0	
Freight	0	
One-Time Moving Costs	1,237,000	
Total - Moving		1,640,200
Other		
HAP / RSE	108,487	
Environmental Mitigation Costs	0	
One-Time Unique Costs	10,041,000	
Total - Other		10,149,487
-----	-----	-----
Total One-Time Costs		17,254,283
One-Time Savings		
Military Construction Cost Avoidances	0	
Family Housing Cost Avoidances	0	
Military Moving	0	
Land Sales	0	
One-Time Moving Savings	0	
Environmental Mitigation Savings	0	
One-Time Unique Savings	0	
-----	-----	-----
Total One-Time Savings		0
-----	-----	-----
Total Net One-Time Costs		17,254,283

Department : Air Force  
 Option Package : Minot Focused Alt 1  
 Scenario File : C:\COBRA95\AF\DBCRC\MINOT001.CBR  
 Std Fctrs File : C:\COBRA95\AF\DOD\STSURVEY\FINAL.SFF

Base: MINOT, ND  
 (All values in Dollars)

Category	Cost	Sub-Total
<b>Construction</b>		
Military Construction	0	
Family Housing Construction	0	
Information Management Account	0	
Land Purchases	0	
<b>Total - Construction</b>		<b>0</b>
<b>Personnel</b>		
Civilian RIF	72,761	
Civilian Early Retirement	20,989	
Civilian New Hires	0	
Eliminated Military PCS	4,944,653	
Unemployment	12,528	
<b>Total - Personnel</b>		<b>5,050,931</b>
<b>Overhead</b>		
Program Planning Support	413,665	
Mothball / Shutdown	0	
<b>Total - Overhead</b>		<b>413,665</b>
<b>Moving</b>		
Civilian Moving	0	
Civilian PPS	403,200	
Military Moving	0	
Freight	0	
One-Time Moving Costs	1,237,000	
<b>Total - Moving</b>		<b>1,640,200</b>
<b>Other</b>		
HAP / RSE	108,487	
Environmental Mitigation Costs	0	
One-Time Unique Costs	10,041,000	
<b>Total - Other</b>		<b>10,149,487</b>
<b>Total One-Time Costs</b>		<b>17,254,283</b>
<b>One-Time Savings</b>		
Military Construction Cost Avoidances	0	
Family Housing Cost Avoidances	0	
Military Moving	0	
Land Sales	0	
One-Time Moving Savings	0	
Environmental Mitigation Savings	0	
One-Time Unique Savings	0	
<b>Total One-Time Savings</b>		<b>0</b>
<b>Total Net One-Time Costs</b>		<b>17,254,283</b>

Department : Air Force  
Option Package : Minot Focused Alt 1  
Scenario File : C:\COBRA95\AF\DBCRC\MINOT001.CBR  
Std Fctrs File : C:\COBRA95\AF\DOD\STSURVEY\FINAL.SFF

All Costs in \$K

Base Name	Total MilCon	IMA Cost	Land Purch	Cost Avoid	Total Cost
----- MINOT	0	0	0	0	0
-----					
Totals:	0	0	0	0	0

PERSONNEL SUMMARY REPORT (COBRA v5.08)  
 Data As Of 10:02 06/20/1995, Report Created 10:05 06/20/1995

Department : Air Force  
 Option Package : Minot Focused Alt 1  
 Scenario File : C:\COBRA95\AF\DBCRC\MINOT001.CBR  
 Std Fctrs File : C:\COBRA95\AF\DDO\STSURVEY\FINAL.SFF

PERSONNEL SUMMARY FOR: MINOT, ND

BASE POPULATION (FY 1996):

Officers	Enlisted	Students	Civilians
----- 653	----- 3,942	----- 0	----- 525

FORCE STRUCTURE CHANGES:

	1996	1997	1998	1999	2000	2001	Total
Officers	-68	-91	-68	0	0	0	-227
Enlisted	-171	-274	-172	0	0	0	-617
Students	0	0	0	0	0	0	0
Civilians	-31	-124	-31	0	0	0	-186
TOTAL	-270	-489	-271	0	0	0	-1,030

BASE POPULATION (Prior to BRAC Action):

Officers	Enlisted	Students	Civilians
----- 426	----- 3,325	----- 0	----- 339

SCENARIO POSITION CHANGES:

	1996	1997	1998	1999	2000	2001	Total
Officers	0	0	-84	0	0	0	-84
Enlisted	0	0	-725	0	0	0	-725
Civilians	0	0	-46	0	0	0	-46
TOTAL	0	0	-855	0	0	0	-855

BASE POPULATION (After BRAC Action):

Officers	Enlisted	Students	Civilians
----- 342	----- 2,600	----- 0	----- 293

TOTAL PERSONNEL IMPACT REPORT (COBRA v5.08) - Page 1/2  
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Department : Air Force  
 Option Package : Minot Focused Alt 1  
 Scenario File : C:\COBRA95\AF\DBCRC\MINOT001.CBR  
 Std Fctrs File : C:\COBRA95\AF\DOO\STSURVEY\FINAL.SFF

	Rate	1996	1997	1998	1999	2000	2001	Total
CIVILIAN POSITIONS REALIGNING OUT		0	0	0	0	0	0	0
Early Retirement*	10.00%	0	0	0	0	0	0	0
Regular Retirement*	5.00%	0	0	0	0	0	0	0
Civilian Turnover*	15.00%	0	0	0	0	0	0	0
Civs Not Moving (RIFs)*+		0	0	0	0	0	0	0
Civilians Moving (the remainder)		0	0	0	0	0	0	0
Civilian Positions Available		0	0	0	0	0	0	0
CIVILIAN POSITIONS ELIMINATED		0	0	46	0	0	0	46
Early Retirement	10.00%	0	0	5	0	0	0	5
Regular Retirement	5.00%	0	0	2	0	0	0	2
Civilian Turnover	15.00%	0	0	7	0	0	0	7
Civs Not Moving (RIFs)*+		0	0	3	0	0	0	3
Priority Placement#	60.00%	0	0	28	0	0	0	28
Civilians Available to Move		0	0	1	0	0	0	1
Civilians Moving		0	0	0	0	0	0	0
Civilian RIFs (the remainder)		0	0	1	0	0	0	1
CIVILIAN POSITIONS REALIGNING IN		0	0	0	0	0	0	0
Civilians Moving		0	0	0	0	0	0	0
New Civilians Hired		0	0	0	0	0	0	0
Other Civilian Additions		0	0	0	0	0	0	0
TOTAL CIVILIAN EARLY RETIREMENTS		0	0	5	0	0	0	5
TOTAL CIVILIAN RIFs		0	0	4	0	0	0	4
TOTAL CIVILIAN PRIORITY PLACEMENTS#		0	0	28	0	0	0	28
TOTAL CIVILIAN NEW HIRES		0	0	0	0	0	0	0

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

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

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

Department : Air Force  
 Option Package : Minot Focused Alt 1  
 Scenario File : C:\COBRA95\AF\DBCRC\MINOT001.CBR  
 Std Fctrs File : C:\COBRA95\AF\DOD\STSURVEY\FINAL.SFF

Base: MINOT, ND	Rate	1996	1997	1998	1999	2000	2001	Total
CIVILIAN POSITIONS REALIGNING OUT		0	0	0	0	0	0	0
Early Retirement*	10.00%	0	0	0	0	0	0	0
Regular Retirement*	5.00%	0	0	0	0	0	0	0
Civilian Turnover*	15.00%	0	0	0	0	0	0	0
Civs Not Moving (RIFs)*	6.00%	0	0	0	0	0	0	0
Civilians Moving (the remainder)		0	0	0	0	0	0	0
Civilian Positions Available		0	0	0	0	0	0	0
CIVILIAN POSITIONS ELIMINATED		0	0	46	0	0	0	46
Early Retirement	10.00%	0	0	5	0	0	0	5
Regular Retirement	5.00%	0	0	2	0	0	0	2
Civilian Turnover	15.00%	0	0	7	0	0	0	7
Civs Not Moving (RIFs)*	6.00%	0	0	3	0	0	0	3
Priority Placement#	60.00%	0	0	28	0	0	0	28
Civilians Available to Move		0	0	1	0	0	0	1
Civilians Moving		0	0	0	0	0	0	0
Civilian RIFs (the remainder)		0	0	1	0	0	0	1
CIVILIAN POSITIONS REALIGNING IN		0	0	0	0	0	0	0
Civilians Moving		0	0	0	0	0	0	0
New Civilians Hired		0	0	0	0	0	0	0
Other Civilian Additions		0	0	0	0	0	0	0
TOTAL CIVILIAN EARLY RETIRMENTS		0	0	5	0	0	0	5
TOTAL CIVILIAN RIFs		0	0	4	0	0	0	4
TOTAL CIVILIAN PRIORITY PLACEMENTS#		0	0	28	0	0	0	28
TOTAL CIVILIAN NEW HIRES		0	0	0	0	0	0	0

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

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

TOTAL APPROPRIATIONS DETAIL REPORT (COBRA v5.08) - Page 1/6  
 Data As Of 10:02 06/20/1995, Report Created 10:05 06/20/1995

Department : Air Force  
 Option Package : Minot Focused Alt 1  
 Scenario File : C:\COBRA95\AF\DBCRC\MINOT001.CBR  
 Std Fctrs File : C:\COBRA95\AF\DOD\STSURVEY\FINAL.SFF

ONE-TIME COSTS -----(\$K)-----	1996 ----	1997 ----	1998 ----	1999 ----	2000 ----	2001 ----	Total -----
CONSTRUCTION							
MILCON	0	0	0	0	0	0	0
Fam Housing	0	0	0	0	0	0	0
Land Purch	0	0	0	0	0	0	0
O&M							
CIV SALARY							
Civ RIF	0	0	73	0	0	0	73
Civ Retire	0	0	21	0	0	0	21
CIV MOVING							
Per Diem	0	0	0	0	0	0	0
POV Miles	0	0	0	0	0	0	0
Home Purch	0	0	0	0	0	0	0
HHG	0	0	0	0	0	0	0
Misc	0	0	0	0	0	0	0
House Hunt	0	0	0	0	0	0	0
PPS	0	0	403	0	0	0	403
RITA	0	0	0	0	0	0	0
FREIGHT							
Packing	0	0	0	0	0	0	0
Freight	0	0	0	0	0	0	0
Vehicles	0	0	0	0	0	0	0
Driving	0	0	0	0	0	0	0
Unemployment	0	0	12	0	0	0	12
OTHER							
Program Plan	179	134	101	0	0	0	414
Shutdown	0	0	0	0	0	0	0
New Hire	0	0	0	0	0	0	0
1-Time Move	0	0	370	867	0	0	1,237
MIL PERSONNEL							
MIL MOVING							
Per Diem	0	0	0	0	0	0	0
POV Miles	0	0	0	0	0	0	0
HHG	0	0	0	0	0	0	0
Misc	0	0	0	0	0	0	0
OTHER							
Elim PCS	0	0	4,945	0	0	0	4,945
OTHER							
HAP / RSE	0	0	108	0	0	0	108
Environmental	0	0	0	0	0	0	0
Info Manage	0	0	0	0	0	0	0
1-Time Other	5,000	633	653	3,755	0	0	10,041
TOTAL ONE-TIME	5,179	767	6,686	4,622	0	0	17,254

TOTAL APPROPRIATIONS DETAIL REPORT (COBRA v5.08) - Page 2/6  
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Department : Air Force  
 Option Package : Minot Focused Alt 1  
 Scenario File : C:\COBRA95\AF\DBCRC\MINOT001.CBR  
 Std Fctrs File : C:\COBRA95\AF\DOC\STSURVEY\FINAL.SFF

RECURRINGCOSTS	1996	1997	1998	1999	2000	2001	Total	Beyond
----(\$K)----	----	----	----	----	----	----	----	----
FAM HOUSE OPS	0	0	0	0	0	0	0	0
O&M								
RPMA	0	0	0	0	0	0	0	0
BOS	0	0	0	0	0	0	0	0
Unique Operat	0	0	0	0	0	0	0	0
Civ Salary	0	0	0	0	0	0	0	0
CHAMPUS	0	0	0	0	0	0	0	0
Caretaker	0	0	0	0	0	0	0	0
MIL PERSONNEL								
Off Salary	0	0	0	0	0	0	0	0
Enl Salary	0	0	0	0	0	0	0	0
House Allow	0	0	0	0	0	0	0	0
OTHER								
Mission	0	0	0	0	0	0	0	0
Misc Recur	0	0	0	0	0	0	0	0
Unique Other	0	0	0	0	0	0	0	0
TOTAL RECUR	0	0	0	0	0	0	0	0
<b>TOTAL COST</b>	<b>5,179</b>	<b>767</b>	<b>6,686</b>	<b>4,622</b>	<b>0</b>	<b>0</b>	<b>17,254</b>	<b>0</b>
ONE-TIME SAVES	1996	1997	1998	1999	2000	2001	Total	
----(\$K)----	----	----	----	----	----	----	----	
CONSTRUCTION								
MILCON	0	0	0	0	0	0	0	
Fam Housing	0	0	0	0	0	0	0	
O&M								
1-Time Move	0	0	0	0	0	0	0	
MIL PERSONNEL								
Mil Moving	0	0	0	0	0	0	0	
OTHER								
Land Sales	0	0	0	0	0	0	0	
Environmental	0	0	0	0	0	0	0	
1-Time Other	0	0	0	0	0	0	0	
TOTAL ONE-TIME	0	0	0	0	0	0	0	
RECURRINGSAVES	1996	1997	1998	1999	2000	2001	Total	Beyond
----(\$K)----	----	----	----	----	----	----	----	----
FAM HOUSE OPS	0	0	0	0	0	0	0	0
O&M								
RPMA	0	0	0	0	0	0	0	0
BOS	0	0	1,094	1,094	1,094	1,094	4,377	1,094
Unique Operat	0	0	0	0	0	0	0	0
Civ Salary	0	0	1,073	2,145	2,145	2,145	7,509	2,145
CHAMPUS	0	0	0	0	0	0	0	0
MIL PERSONNEL								
Off Salary	0	0	3,304	6,608	6,608	6,608	23,128	6,608
Enl Salary	0	0	13,104	26,207	26,207	26,207	91,725	26,207
House Allow	0	0	0	0	0	0	0	0
OTHER								
Procurement	0	0	0	0	0	0	0	0
Mission	0	0	0	0	0	0	0	0
Misc Recur	0	0	0	0	0	0	0	0
Unique Other	0	0	0	0	0	0	0	0
TOTAL RECUR	0	0	18,575	36,055	36,055	36,055	126,741	36,055
<b>TOTAL SAVINGS</b>	<b>0</b>	<b>0</b>	<b>18,575</b>	<b>36,055</b>	<b>36,055</b>	<b>36,055</b>	<b>126,741</b>	<b>36,055</b>

TOTAL APPROPRIATIONS DETAIL REPORT (COBRA v5.08) - Page 3/6  
 Data As Of 10:02 06/20/1995, Report Created 10:05 06/20/1995

Department : Air Force  
 Option Package : Minot Focused Alt 1  
 Scenario File : C:\COBRA95\AF\DBCRC\MINOT001.CBR  
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ONE-TIME NET	1996	1997	1998	1999	2000	2001	Total	
----(\$K)----	----	----	----	----	----	----	----	
<b>CONSTRUCTION</b>								
MILCON	0	0	0	0	0	0	0	
Fam Housing	0	0	0	0	0	0	0	
<b>O&amp;M</b>								
Civ Retir/RIF	0	0	94	0	0	0	94	
Civ Moving	0	0	403	0	0	0	403	
Other	179	134	483	867	0	0	1,663	
<b>MIL PERSONNEL</b>								
Mil Moving	0	0	4,945	0	0	0	4,945	
<b>OTHER</b>								
HAP / RSE	0	0	108	0	0	0	108	
Environmental	0	0	0	0	0	0	0	
Info Manage	0	0	0	0	0	0	0	
1-Time Other	5,000	633	653	3,755	0	0	10,041	
Land	0	0	0	0	0	0	0	
<b>TOTAL ONE-TIME</b>	<b>5,179</b>	<b>767</b>	<b>6,686</b>	<b>4,622</b>	<b>0</b>	<b>0</b>	<b>17,254</b>	
<b>RECURRING NET</b>								
----(\$K)----	----	----	----	----	----	----	----	Beyond
FAM HOUSE OPS	0	0	0	0	0	0	0	0
<b>O&amp;M</b>								
RPMA	0	0	0	0	0	0	0	0
BOS	0	0	-1,094	-1,094	-1,094	-1,094	-4,377	-1,094
Unique Operat	0	0	0	0	0	0	0	0
Caretaker	0	0	0	0	0	0	0	0
Civ Salary	0	0	-1,073	-2,145	-2,145	-2,145	-7,509	-2,145
CHAMPUS	0	0	0	0	0	0	0	0
<b>MIL PERSONNEL</b>								
Mil Salary	0	0	-16,408	-32,815	-32,815	-32,815	-114,854	-32,815
House Allow	0	0	0	0	0	0	0	0
<b>OTHER</b>								
Procurement	0	0	0	0	0	0	0	0
Mission	0	0	0	0	0	0	0	0
Misc Recur	0	0	0	0	0	0	0	0
Unique Other	0	0	0	0	0	0	0	0
<b>TOTAL RECUR</b>	<b>0</b>	<b>0</b>	<b>-18,575</b>	<b>-36,055</b>	<b>-36,055</b>	<b>-36,055</b>	<b>-126,741</b>	<b>-36,055</b>
<b>TOTAL NET COST</b>	<b>5,179</b>	<b>767</b>	<b>-11,888</b>	<b>-31,433</b>	<b>-36,055</b>	<b>-36,055</b>	<b>-109,486</b>	<b>-36,055</b>

Department : Air Force  
 Option Package : Minot Focused Alt 1  
 Scenario File : C:\COBRA95\AF\DBCRC\MINOT001.CBR  
 Std Fctrs File : C:\COBRA95\AF\DOD\STSURVEY\FINAL.SFF

Base: MINOT, ND

ONE-TIME COSTS -----(\$K)-----	1996	1997	1998	1999	2000	2001	Total
CONSTRUCTION							
MILCON	0	0	0	0	0	0	0
Fam Housing	0	0	0	0	0	0	0
Land Purch	0	0	0	0	0	0	0
O&M							
CIV SALARY							
Civ RIFs	0	0	73	0	0	0	73
Civ Retire	0	0	21	0	0	0	21
CIV MOVING							
Per Diem	0	0	0	0	0	0	0
POV Miles	0	0	0	0	0	0	0
Home Purch	0	0	0	0	0	0	0
HHG	0	0	0	0	0	0	0
Misc	0	0	0	0	0	0	0
House Hunt	0	0	0	0	0	0	0
PPS	0	0	403	0	0	0	403
RITA	0	0	0	0	0	0	0
FREIGHT							
Packing	0	0	0	0	0	0	0
Freight	0	0	0	0	0	0	0
Vehicles	0	0	0	0	0	0	0
Driving	0	0	0	0	0	0	0
Unemployment	0	0	12	0	0	0	12
OTHER							
Program Plan	179	134	101	0	0	0	414
Shutdown	0	0	0	0	0	0	0
New Hires	0	0	0	0	0	0	0
1-Time Move	0	0	370	867	0	0	1,237
MIL PERSONNEL							
MIL MOVING							
Per Diem	0	0	0	0	0	0	0
POV Miles	0	0	0	0	0	0	0
HHG	0	0	0	0	0	0	0
Misc	0	0	0	0	0	0	0
OTHER							
Elim PCS	0	0	4,945	0	0	0	4,945
OTHER							
HAP / RSE	0	0	108	0	0	0	108
Environmental	0	0	0	0	0	0	0
Info Manage	0	0	0	0	0	0	0
1-Time Other	5,000	633	653	3,755	0	0	10,041
TOTAL ONE-TIME	5,179	767	6,686	4,622	0	0	17,254

APPROPRIATIONS DETAIL REPORT (COBRA v5.08) - Page 5/6  
 Data As Of 10:02 06/20/1995, Report Created 10:05 06/20/1995

Department : Air Force  
 Option Package : Minot Focused Alt 1  
 Scenario File : C:\COBRA95\AF\DBCRC\MINOT001.CBR  
 Std Fctrs File : C:\COBRA95\AF\DOD\STSURVEY\FINAL.SFF

Base: MINOT, ND	1996	1997	1998	1999	2000	2001	Total	Beyond
RECURRINGCOSTS								
----(\$K)-----	----	----	----	----	----	----	----	----
FAM HOUSE OPS	0	0	0	0	0	0	0	0
O&M								
RPMA	0	0	0	0	0	0	0	0
BOS	0	0	0	0	0	0	0	0
Unique Operat	0	0	0	0	0	0	0	0
Civ Salary	0	0	0	0	0	0	0	0
CHAMPUS	0	0	0	0	0	0	0	0
Caretaker	0	0	0	0	0	0	0	0
MIL PERSONNEL								
Off Salary	0	0	0	0	0	0	0	0
Enl Salary	0	0	0	0	0	0	0	0
House Allow	0	0	0	0	0	0	0	0
OTHER								
Mission	0	0	0	0	0	0	0	0
Misc Recur	0	0	0	0	0	0	0	0
Unique Other	0	0	0	0	0	0	0	0
TOTAL RECUR	0	0	0	0	0	0	0	0
TOTAL COSTS	5,179	767	6,686	4,622	0	0	17,254	0
ONE-TIME SAVES	1996	1997	1998	1999	2000	2001	Total	
----(\$K)-----	----	----	----	----	----	----	----	
CONSTRUCTION								
MILCON	0	0	0	0	0	0	0	
Fam Housing	0	0	0	0	0	0	0	
O&M								
1-Time Move	0	0	0	0	0	0	0	
MIL PERSONNEL								
Mil Moving	0	0	0	0	0	0	0	
OTHER								
Land Sales	0	0	0	0	0	0	0	
Environmental	0	0	0	0	0	0	0	
1-Time Other	0	0	0	0	0	0	0	
TOTAL ONE-TIME	0	0	0	0	0	0	0	
RECURRINGSAVES	1996	1997	1998	1999	2000	2001	Total	Beyond
----(\$K)-----	----	----	----	----	----	----	----	----
FAM HOUSE OPS	0	0	0	0	0	0	0	0
O&M								
RPMA	0	0	0	0	0	0	0	0
BOS	0	0	1,094	1,094	1,094	1,094	4,377	1,094
Unique Operat	0	0	0	0	0	0	0	0
Civ Salary	0	0	1,073	2,145	2,145	2,145	7,509	2,145
CHAMPUS	0	0	0	0	0	0	0	0
MIL PERSONNEL								
Off Salary	0	0	3,304	6,608	6,608	6,608	23,128	6,608
Enl Salary	0	0	13,104	26,207	26,207	26,207	91,725	26,207
House Allow	0	0	0	0	0	0	0	0
OTHER								
Procurement	0	0	0	0	0	0	0	0
Mission	0	0	0	0	0	0	0	0
Misc Recur	0	0	0	0	0	0	0	0
Unique Other	0	0	0	0	0	0	0	0
TOTAL RECUR	0	0	18,575	36,055	36,055	36,055	126,741	36,055
TOTAL SAVINGS	0	0	18,575	36,055	36,055	36,055	126,741	36,055

APPROPRIATIONS DETAIL REPORT (COBRA v5.08) - Page 6/6  
 Data As Of 10:02 06/20/1995, Report Created 10:05 06/20/1995

Department : Air Force  
 Option Package : Minot Focused Alt 1  
 Scenario File : C:\COBRA95\AF\DBCRC\MINOT001.CBR  
 Std Fctrs File : C:\COBRA95\AF\DDO\STSURVEY\FINAL.SFF

Base: MINOT, ND

ONE-TIME NET	1996	1997	1998	1999	2000	2001	Total	
-----(\$K)-----	----	----	----	----	----	----	----	
CONSTRUCTION								
MILCON	0	0	0	0	0	0	0	
Fam Housing	0	0	0	0	0	0	0	
O&M								
Civ Retir/RIF	0	0	94	0	0	0	94	
Civ Moving	0	0	403	0	0	0	403	
Other	179	134	483	867	0	0	1,663	
MIL PERSONNEL								
Mil Moving	0	0	4,945	0	0	0	4,945	
OTHER								
HAP / RSE	0	0	108	0	0	0	108	
Environmental	0	0	0	0	0	0	0	
Info Manage	0	0	0	0	0	0	0	
1-Time Other	5,000	633	653	3,755	0	0	10,041	
Land	0	0	0	0	0	0	0	
TOTAL ONE-TIME	5,179	767	6,686	4,622	0	0	17,254	
RECURRING NET	1996	1997	1998	1999	2000	2001	Total	Beyond
-----(\$K)-----	----	----	----	----	----	----	----	-----
FAM HOUSE OPS	0	0	0	0	0	0	0	0
O&M								
RPMA	0	0	0	0	0	0	0	0
BOS	0	0	-1,094	-1,094	-1,094	-1,094	-4,377	-1,094
Unique Operat	0	0	0	0	0	0	0	0
Caretaker	0	0	0	0	0	0	0	0
Civ Salary	0	0	-1,073	-2,145	-2,145	-2,145	-7,509	-2,145
CHAMPUS	0	0	0	0	0	0	0	0
MIL PERSONNEL								
Mil Salary	0	0	-16,408	-32,815	-32,815	-32,815	-114,854	-32,815
House Allow	0	0	0	0	0	0	0	0
OTHER								
Procurement	0	0	0	0	0	0	0	0
Mission	0	0	0	0	0	0	0	0
Misc Recur	0	0	0	0	0	0	0	0
Unique Other	0	0	0	0	0	0	0	0
TOTAL RECUR	0	0	-18,575	-36,055	-36,055	-36,055	-126,741	-36,055
TOTAL NET COST	5,179	767	-11,888	-31,433	-36,055	-36,055	-109,486	-36,055

PERSONNEL, SF, RPMA, AND BOS DELTAS (COBRA v5.08)  
 Data As Of 10:02 06/20/1995, Report Created 10:05 06/20/1995

Department : Air Force  
 Option Package : Minot Focused Alt 1  
 Scenario File : C:\COBRA95\AF\DBCRC\MINOT001.CBR  
 Std Fctrs File : C:\COBRA95\AF\DOD\STSURVEY\FINAL.SFF

Base	Personnel		SF		
	Change	%Change	Change	%Change	Chg/Per
-----	-----	-----	-----	-----	-----
MINOT	-855	-21%	0	0%	0

Base	RPMA(\$)			BOS(\$)		
	Change	%Change	Chg/Per	Change	%Change	Chg/Per
-----	-----	-----	-----	-----	-----	-----
MINOT	0	0%	0	-1,094,334	-12%	1,280

Base	RPMABOS(\$)		
	Change	%Change	Chg/Per
-----	-----	-----	-----
MINOT	-1,094,334	-10%	1,280

RPMA/BOS CHANGE REPORT (COBRA v5.08)  
Data As Of 10:02 06/20/1995, Report Created 10:05 06/20/1995

Department : Air Force  
Option Package : Minot Focused Alt 1  
Scenario File : C:\COBRA95\AF\DBCRC\MINOT001.CBR  
Std Fctrs File : C:\COBRA95\AF\DOO\STSURVEY\FINAL.SFF

Net Change(\$K)	1996	1997	1998	1999	2000	2001	Total	Beyond
RPMA Change	0	0	0	0	0	0	0	0
BOS Change	0	0	-1,094	-1,094	-1,094	-1,094	-4,377	-1,094
Housing Change	0	0	0	0	0	0	0	0
TOTAL CHANGES	0	0	-1,094	-1,094	-1,094	-1,094	-4,377	-1,094

INPUT DATA REPORT (COBRA v5.08)  
 Data As Of 10:02 06/20/1995, Report Created 10:05 06/20/1995

Department : Air Force  
 Option Package : Minot Focused Alt 1  
 Scenario File : C:\COBRA95\AF\DBCRC\MINOT001.CBR  
 Std Fctrs File : C:\COBRA95\AF\DOO\STSURVEY\FINAL.SFF

INPUT SCREEN ONE - GENERAL SCENARIO INFORMATION

Model Year One : FY 1996

Model does Time-Phasing of Construction/Shutdown: No

Base Name Strategy:  
 -----  
 MINOT, ND Realignment

Summary:

-----  
 Take BOS savings from drawdown of Minot missile field. Silo  
 destruction no a BRAC cost; however, missile movement is included

COMMISSION MODIFIED COBRA. REMOVED \$17,400K IN ENVIRONMENTAL MITIGATION COSTS  
 WHICH WAS TO DIG UP THE FUEL TANKS.

INPUT SCREEN FOUR - STATIC BASE INFORMATION

Name: MINOT, ND

Total Officer Employees:	653	RPMA Non-Payroll (\$K/Year):	2,305
Total Enlisted Employees:	3,942	Communications (\$K/Year):	805
Total Student Employees:	0	BOS Non-Payroll (\$K/Year):	10,712
Total Civilian Employees:	525	BOS Payroll (\$K/Year):	0
Mil Families Living On Base:	87.0%	Family Housing (\$K/Year):	12,840
Civilians Not Willing To Move:	6.0%	Area Cost Factor:	1.10
Officer Housing Units Avail:	0	CHAMPUS In-Pat (\$/Visit):	0
Enlisted Housing Units Avail:	0	CHAMPUS Out-Pat (\$/Visit):	0
Total Base Facilities(KSF):	7,715	CHAMPUS Shift to Medicare:	20.9%
Officer VHA (\$/Month):	0	Activity Code:	AF061
Enlisted VHA (\$/Month):	0	Homeowner Assistance Program:	Yes
Per Diem Rate (\$/Day):	71	Unique Activity Information:	No
Freight Cost (\$/Ton/Mile):	0.07		

INPUT SCREEN FIVE - DYNAMIC BASE INFORMATION

Name: MINOT, ND

	1996	1997	1998	1999	2000	2001
	----	----	----	----	----	----
1-Time Unique Cost (\$K):	5,000	633	653	3,755	0	0
1-Time Unique Save (\$K):	0	0	0	0	0	0
1-Time Moving Cost (\$K):	0	0	370	867	0	0
1-Time Moving Save (\$K):	0	0	0	0	0	0
Env Non-MilCon Reqcd(\$K):	0	0	0	0	0	0
Activ Mission Cost (\$K):	0	0	0	0	0	0
Activ Mission Save (\$K):	0	0	0	0	0	0
Misc Recurring Cost(\$K):	0	0	0	0	0	0
Misc Recurring Save(\$K):	0	0	0	0	0	0
Land (+Buy/-Sales) (\$K):	0	0	0	0	0	0
Construction Schedule(%):	100%	0%	0%	0%	0%	0%
Shutdown Schedule (%):	33%	33%	34%	0%	0%	0%
MilCon Cost Avoidnc(\$K):	0	0	0	0	0	0
Fam Housing Avoidnc(\$K):	0	0	0	0	0	0
Procurement Avoidnc(\$K):	0	0	0	0	0	0
CHAMPUS In-Patients/Yr:	0	0	0	0	0	0
CHAMPUS Out-Patients/Yr:	0	0	0	0	0	0
Facil ShutDown(KSF):	0		Perc Family Housing ShutDown:			0.0%

Department : Air Force  
 Option Package : Minot Focused Alt 1  
 Scenario File : C:\COBRA95\AF\DBCRC\MINOT001.CBR  
 Std Fctrs File : C:\COBRA95\AF\DOD\STSURVEY\FINAL.SFF

INPUT SCREEN SIX - BASE PERSONNEL INFORMATION

Name: MINOT, ND

	1996	1997	1998	1999	2000	2001
Off Force Struc Change:	-68	-91	-68	0	0	0
Enl Force Struc Change:	-171	-274	-172	0	0	0
Civ Force Struc Change:	-31	-124	-31	0	0	0
Stu Force Struc Change:	0	0	0	0	0	0
Off Scenario Change:	0	0	-84	0	0	0
Enl Scenario Change:	0	0	-725	0	0	0
Civ Scenario Change:	0	0	-46	0	0	0
Off Change(No Sal Save):	0	0	0	0	0	0
Enl Change(No Sal Save):	0	0	0	0	0	0
Civ Change(No Sal Save):	0	0	0	0	0	0
Caretakers - Military:	0	0	0	0	0	0
Caretakers - Civilian:	0	0	0	0	0	0

STANDARD FACTORS SCREEN ONE - PERSONNEL

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

STANDARD FACTORS SCREEN TWO - FACILITIES

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

STANDARD FACTORS SCREEN THREE - TRANSPORTATION

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

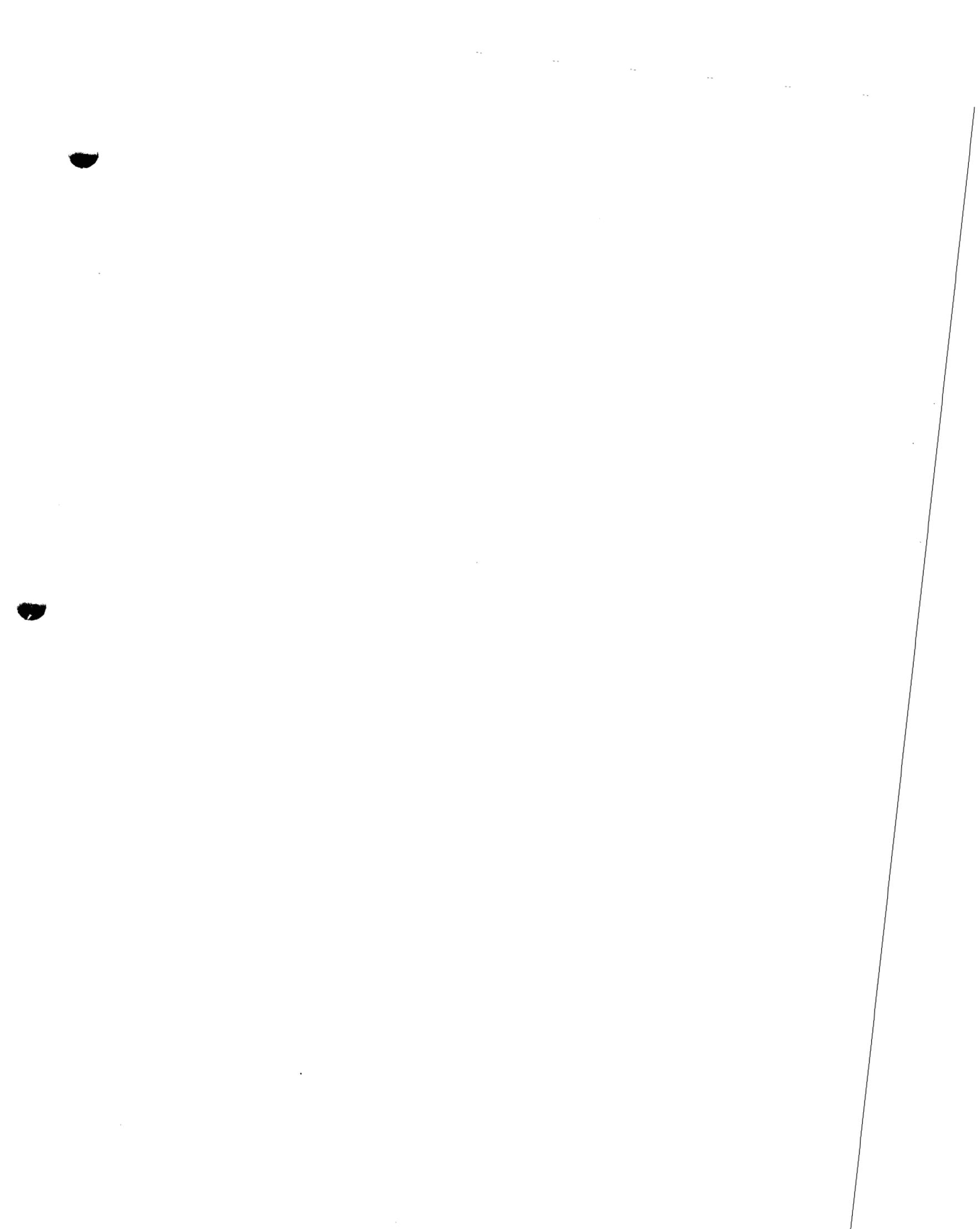
Department : Air Force  
 Option Package : Minot Focused Alt 1  
 Scenario File : C:\COBRA95\AF\DBCRC\MINOT001.CBR  
 Std Fctrs File : C:\COBRA95\AF\DOD\STSURVEY\FINAL.SFF

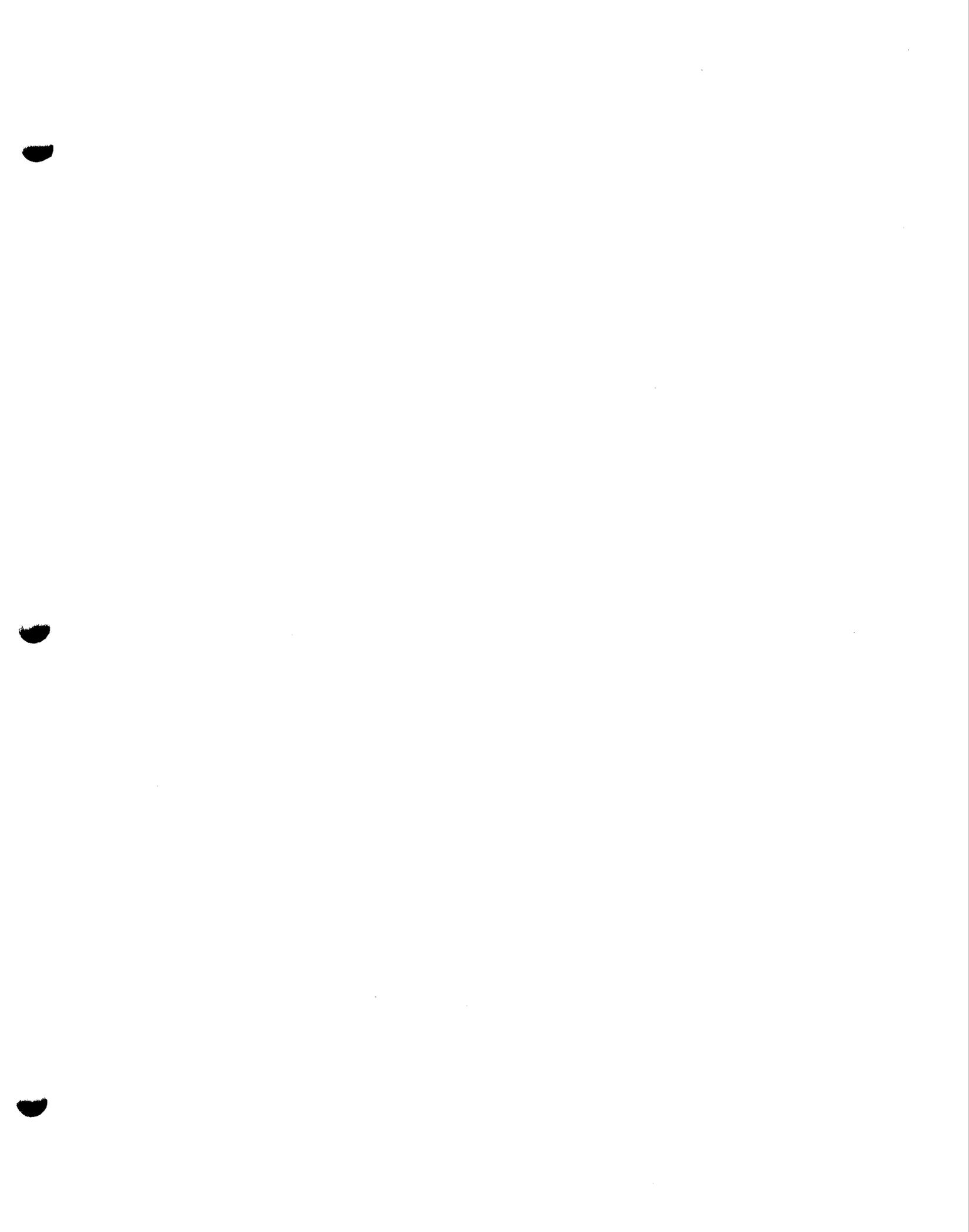
STANDARD FACTORS SCREEN FOUR - MILITARY CONSTRUCTION

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

EXPLANATORY NOTES (INPUT SCREEN NINE)

1. Removed \$17,400K in environmental mitigation costs to dig up the fuel tanks





Defense Base Closure and Realignment Commission  
Executive Correspondence Tracking System (ECTS)

930001 (I, O)  
Originated: 09/21/94 Received: 09/28/94 Referred to: LIAISON Due: / / Closed: 12/29/94 COMPLETE.  
From: BACKES, ORLIN (MAYOR at MINOT, ND), and LARSON, MARK V. (CHAIRMAN at MINOT CHAM. OF COMM. (ND)).  
To: HOJSTON, TOM (STAFF DIRECTOR at DBCRC).  
Installation(s): MINOT AFB, ND (F-QJVF).  
Contents: REQUEST DBCRC BRIEFING IN MINOT, ND, FOR COMMUNITY LEADERS ON 4 NOVEMBER 1994.

941213-1 (I, O)  
Originated: 12/13/94 Received: 12/13/94 Referred to: PRESS Due: / / Closed: 12/13/94 NONE REQ.  
From: EMERSON, GLORIA (CHAIR (OUTGOING) at MINOT AREA CHMBR OF CMRC).  
To: LYLES, DAVID (STAFF DIRECTOR at DBCRC).  
Installation(s): MINOT AFB, ND (F-QJVF).  
Contents: ALL-AMERICAN REPORT, VOL 4, NO 5, DEC 1994; IN SUPPORT OF MINOT AFB, ND.

950324-16R1 (I, R)  
Originated: 05/09/95 Received: 05/09/95 Referred to: Due: / / Closed: 05/09/95 COMPLETE.  
From: DEUTCH, JOHN (UNDER SECRETARY DEFENSE at DEPARTMENT OF DEFENSE DOD).  
To: DIXON, ALAN (CHAIRMAN at DBCRC).  
Installation(s): MINOT AFB, ND (F-QJVF), and GRAND FORKS AFB, ND (F-JFSD).  
Contents: INFORMING THAT THERE WILL NOT BE A DETERMINATION BY SECDEF THAT WOULD REQUIRE RETENTION OF THE MISSILE GROUP AT GRAND FORKS BECAUSE OF TREATY OBLIGATIONS.

950407-10 (I, O)  
Originated: 04/04/95 Received: 04/07/95 Referred to: Due: / / Closed: 04/07/95 NONE REQ.  
From: CONRAD, KENT (SEN. (ND) at U.S. SENATE).  
To: REBECCA (COMMISSIONER at DBCRC) and KLING, S. LEE (COMMISSIONER at DBCRC).  
Installation(s): GRAND FORKS AFB, ND (F-JFSD), and MINOT AFB, ND (F-QJVF).  
Contents: THANK YOU FOR VISITING BASES, LETTER OF SUPPORT.

950411-8 (O, O)  
Originated: 04/06/95 Received: / / Referred to: Due: / / Closed: 04/11/95 NONE REQ.  
From: DAVIS, GEN J.B. (COMMISSIONER at DBCRC).  
To: PASINI, RALPH (COMMANDER at 5TH BOMB WING).  
Installation(s): MINOT AFB, ND (F-QJVF).  
Contents: THANK YOU FOR ASSISTANCE DURING VISIT.  
LETTERS ALSO SENT TO: MAYOR ORLIN BACKES - JOHN MACMARTIN - BRUCE CHRISTIANSON.

950412-15 (O, O)  
Originated: 04/12/95 Received: / / Referred to: Due: / / Closed: 04/12/95 NONE REQ.  
From: CIRILLO, FRANK (AIR FORCE TEAM LEADER at 1993 DBCRC).  
To: BLUME, JAY (SPECIAL ASST TO SEC OF AF at HEADQUARTERS USA/RT).  
Installation(s): MINOT AFB, ND (F-QJVF).  
Contents: REQUESTING COBRA RUNS BE PERFORMED FOR MINOT AFB.

950412-9 (I, O)  
Originated: 04/04/95 Received: 04/12/95 Referred to: Due: / / Closed: 04/12/95 NONE REQ.  
From: CONRAD, KENT (SEN. (ND) at U.S. SENATE).  
To: DAVIS, GEN J.B. (COMMISSIONER at DBCRC).  
Installation(s): MINOT AFB, ND (F-QJVF), and GRAND FORKS AFB, ND (F-JFSD).  
Contents: THANK YOU FOR VISITING BASES. LETTER OF SUPPORT.

Defense Base Closure and Realignment Commission  
Executive Correspondence Tracking System (ECTS)

950503-12 (I, O)  
 Originated: 04/18/95 Received: 04/24/95 Referred to: Due: / / Closed: 04/24/95 NONE REQ.  
 From: COLLIN, RICK (COMMUNICATIONS DIRECTOR at GOVERNOR'S OFFICE N.D.).  
 To: GCODE, CHRIS (DIRECTOR OF ADMINISTRATIO at DBCRC).  
 Installation(s): MINOT AFB, ND (F-QJVF), and GRAND FORKS AFB,ND (F-JFSD).  
 Contents: FORWARDING TESTIMONY OF GOV EDWARD T. SCHAFER AT GRAND FORKS REGIONAL HEARING.

950503-12 (I, O)  
 Originated: 05/01/95 Received: 05/03/95 Referred to: Due: / / Closed: 05/11/95 COMPLETE.  
 From: BACKES, ORLIN (MAYOR at MINOT, ND).  
 To: DIXON, ALAN (CHAIRMAN at DBCRC).  
 Installation(s): MINOT AFB, ND (F-QJVF).  
 Contents: FORWARDING LEGAL OPINION FROM MICHAEL H. MOBBS REGARDING HOW 1972 ABM TREATY FACTORS IN COMMISSION'S DECISION.

950516-11 (I, O)  
 Originated: 05/12/95 Received: 05/16/95 Referred to: Due: / / Closed: 05/16/95 NONE REQ.  
 From: POMEROY, EARL (REP. (ND) at U.S. CONGRESS).  
 To: COX, REBECCA (COMMISSIONER at DBCRC).  
 Installation(s): GRAND FORKS AFB, ND (F-JFSD), and MINOT AFB,ND (F-QJVF).  
 Contents: THANK YOU FOR VISITING BASES.

950620-25 (I, O)  
 Originated: 06/20/95 Received: 06/20/95 Referred to: LIAISON Due: 06/22/95 Closed: 06/22/95 COMPLETE.  
 From: BACKES, ORLIN (MAYOR at MINOT, ND).  
 To: DIXON, ALAN (CHAIRMAN at DBCRC).  
 Installation(s): MINOT AFB, ND (F-QJVF).  
 Contents: INFORMING THAT MINOT HAS RECEIVED 3 AWARDS FOR BALLISTIC MISSILE BASES IN LAST FEW MONTHS

June 20, 1995

*Sent to  
Cinillo  
etc*

*all  
21*

# city of Minot

OFFICE OF THE MAYOR

Honorable Alan Dixon, Chairman  
Defense Base Closure and Realignment Commission  
1425 North Moore Street  
Suite 1426  
Arlington, Virginia 22209

Please refer to this number  
950620-25

Dear Mr. Chairman,

During the last several months, the 91st Missile Group at Minot Air Force Base has received three awards which clearly establish it as the preeminent ballistic missile group in the United States. Because the Commission is currently evaluating ballistic missile bases, we are writing to detail the 91st's outstanding recent achievements.

#### OMAHA TROPHY

On the 25th anniversary of the establishment of the Strategic Air Command (SAC), the citizens of Omaha, Nebraska presented the Omaha Trophy to the SAC Commander-in-Chief with a request that it be awarded annually to the outstanding wing in SAC. With the deactivation of SAC, the responsibility for awarding the Omaha Trophy falls to the Commander-in-Chief of the United States Strategic Command (STRATCOM).

Two such trophies are now presented annually - one to the outstanding aircraft operations wing supporting STRATCOM's mission. The second award, the ballistic missile unit Omaha Trophy, recognizes the best ICBM wing or fleet ballistic missile submarine.

The 1994 ballistic missile unit Omaha Trophy was awarded to Minot's 91st Missile Group, or "Roughriders", as they are also known. This group was rated superior to the other three Minuteman missile bases, and all operational ballistic missile submarines for this award.

The primary factor for nomination and selection for the trophy is a unit's overall performance while contributing to the STRATCOM mission. In nominating the 91st Missile Group at Minot, Colonel Frank G. Klotz, USAF Commander, cited the continued "absolute commitment to excellence" demonstrated by the group in the face of "reorganization, leadership changes and down sizing".

Specific criteria include formal evaluation/inspection results, competition results, meritorious achievements/service award recognition, safety, mission/deployment exercise taskings, magnitude of responsibilities, and equipment conversions. The Roughriders were shown to have achieved the highest possible ratings on a Nuclear Surety Inspection, a "flawless Combat Capability Assessment", and "unequaled performance" at the Space and Missile Competition.

Another important factor in the selection of the winner of the Omaha Trophy is the alert rate which is achieved by the unit for the year. For the seventh year in a row, Minot's 91st Missile Group had the highest alert rate of all four major missile bases. The 1994 rate was 99.5%.

#### COLONEL LEE R. WILLIAMS MEMORIAL TROPHY

Minot's 91st Missile Group was selected by the Commander-in-Chief of the 20th Air Force as the winner of the Colonel Lee R. Williams Trophy. The trophy is awarded to the outstanding missile wing in the Air Force Space Command (AFSPC). Space Command includes all four operational missile Minuteman III wings in its evaluation. The determining factor is the unit's overall performance in accomplishing its portion of the AFSPC mission. Factors in the selection include formal evaluation/inspection results, competition results, quality initiatives, meritorious achievements/service, safety, and other factors.

#### COLONEL GEORGE T. CHADWELL MEMORIAL TROPHY

This trophy is awarded annually to the ICBM maintenance organization which achieves the most superior maintenance record in support of its assigned mission during the previous year. Items included in the evaluation are:

- \* weapons system performance
- \* local or higher headquarters exercises/inspections
- \* special programs
- \* effective use of maintenance resources which maximize equipment repair capability and promote effective use of maintenance resources
- \* innovative management actions improving mission capability, work environment, and support to personnel and community.

The Air Force evaluation of its four missile bases amounted to a somewhat static analysis of factors such as geology, range, spacing, weather and maintainability. Another way to look at these missile fields is their proven record of operation. The award of these three trophies to Minot's 91st Missile Group clearly establishes this group as the finest Air Force ballistic missile unit.

Sincerely,

*Orlin W. Backes*

Orlin W. Backes  
Mayor  
City of Minot

*M. E. Syria*

M. E. Syria  
Co-Chair  
Task Force 96

*Bruce Christianson*

Bruce Christianson  
Co-Chair  
Task Force 96

FROM: BACKES, ORLIN W.	TO: DIXON
TITLE: MAYOR	TITLE: CHAIRMAN
ORGANIZATION: CITY OF MINOT, ND	ORGANIZATION: WBCRC
INSTALLATION (S) DISCUSSED: MINOT AFB	

OFFICE OF THE CHAIRMAN	FYI	ACTION	INT	COMMISSION MEMBERS	FYI	ACTION	INT
CHAIRMAN DIXON				COMMISSIONER CORNELLA			
STAFF DIRECTOR	✓			COMMISSIONER COX			
EXECUTIVE DIRECTOR	✓			COMMISSIONER DAVIS			
GENERAL COUNSEL		X		COMMISSIONER KLING			
MILITARY EXECUTIVE				COMMISSIONER MONTOYA			
DIR./CONGRESSIONAL LIAISON		Ⓚ		COMMISSIONER ROBLES			
DIR./COMMUNICATIONS				COMMISSIONER STEELE			
				REVIEW AND ANALYSIS			
				DIRECTOR OF R & A	✓		
EXECUTIVE SECRETARIAT				ARMY TEAM LEADER			
				NAVY TEAM LEADER			
DIRECTOR OF ADMINISTRATION				AIR FORCE TEAM LEADER			X
CHIEF FINANCIAL OFFICER				INTERAGENCY TEAM LEADER	✓		
DIRECTOR OF TRAVEL				CROSS SERVICE TEAM LEADER			
DIR./INFORMATION SERVICES							

TYPE OF ACTION REQUIRED

<input checked="" type="checkbox"/>	Prepare Reply for Chairman's Signature	<input type="checkbox"/>	Prepare Reply for Commissioner's Signature
<input type="checkbox"/>	Prepare Reply for Staff Director's Signature	<input type="checkbox"/>	Prepare Direct Response
<input checked="" type="checkbox"/>	ACTION: Offer Comments and/or Suggestions	<input checked="" type="checkbox"/>	FYI

Subject/Remarks:

FORWARDING LEGAL OPINION FROM MICHAEL H. MOBBS REGARDING HAY 972 ABM TREATY FACTORS IN COMMISSION'S DECISION.

Date: 950505	Routing Date: 950503	Date Originated: 950501	Mail Date:
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# city of Minot

May 1, 1995

<sup>128</sup>  
Please refer to this number  
when responding 950503-12

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

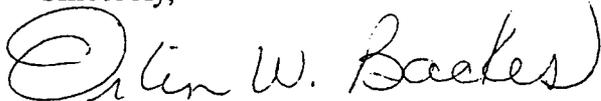
Dear Mr. Chairman:

The Department of Defense has recommended that the 321st Missile Group at Grand Forks Air Base be deactivated, unless "the Secretary of Defense determines that the need to retain ballistic missile defense (BMD) options effectively precludes this action." If such a determination is made, DoD has recommended that the 91st Missile Group at Minot AFB be deactivated.

Because of this recommendation, the interpretation of the 1972 ABM treaty and related documents will be an important factor in the Commission's decision this year. This issue was addressed by the Grand Forks community during the March 31 regional hearing. Because this issue is also of vital interest to Minot, we have asked Michael H. Mobbs, an expert on the treaty, to prepare a legal opinion on this matter.

A copy is enclosed for your consideration.

Sincerely,



Orlin W. Backes  
Mayor

OWB:jk:dixon.ltr  
enc.

*Squire, Sanders & Dempsey*

*Counsellors at Law*

*1201 Pennsylvania Avenue, N.W.*

*P. O. Box 407*

*Washington, D.C. 20044-0407*

April 28, 1995

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Donald F. Massey, Esquire  
Senior Vice President  
Fleishman-Hillard Inc.  
1301 Connecticut Avenue, N.W.  
Washington, D.C. 20036-1816

RE: Anti-Ballistic Missile Treaty of 1972

Dear Mr. Massey:

You have asked me to address the following question:

Would closure of the intercontinental ballistic missile ("ICBM") facilities at Grand Forks Air Force Base extinguish the right of the United States to deploy an anti-ballistic missile ("ABM") system as currently permitted by the Treaty Between the United States of America and the Union of Soviet Socialist Republics on the Limitation of Anti-Ballistic Missile Systems of 1972 (the "ABM Treaty"), the 1976 protocol to the Treaty, and the related material described below?

This letter sets out my analysis and conclusions.

Professional Background

The background that I bring to this question is as follows:

I have been a member of the bar since 1974, having received a J.D. degree from the University of Chicago Law School and, prior to that, a B.A. degree (summa cum laude) in 1971 from Yale University with exceptional distinction in Russian Studies. Except for the years 1982-1987, I have been a practicing lawyer since 1974, specializing in international commercial transactions involving Russia and other CIS countries. In the course of my

Donald F. Massey, Esquire

April 28, 1995

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practice, I have been required on numerous occasions to interpret and apply international treaties and agreements to the transnational business transactions of clients.

From 1982 to 1985, I served as the Representative of the U.S. Secretary of Defense to the Strategic Arms Reduction Talks ("START") and, in that capacity, was a member of the U.S. delegation to the START negotiations with the Soviet Union. As a member of the START delegation, I participated in the second five-year review of the ABM Treaty in 1982 pursuant to Article XIV(2). In 1985, I assumed additional duty as Special Counsel to the Head of the U.S. Delegation to the Negotiations on Nuclear and Space Arms with the Soviet Union, while continuing to represent the Secretary of Defense in START.

In late 1985, the President appointed me as Assistant Director of the U.S. Arms Control and Disarmament Agency for Strategic Programs, a position I held until mid-1987. In that capacity I had responsibility within the agency for U.S. policy on the control of strategic and intermediate-range nuclear arms, space arms and strategic defense systems -- in other words, all matters involving U.S.-Soviet arms control negotiations with respect to nuclear arms and strategic defense, including ABM systems. My responsibilities at ACDA also included chairing the Interagency Group on Defense and Space which, among other things, developed U.S. positions and policy recommendations to the President on such matters as the types of potential strategic defense activities that were or were not permitted by the ABM Treaty. In the course of my official responsibilities on the START delegation and especially at ACDA, I had many occasions to analyze the ABM Treaty text, refer to the negotiating history and ratification debates on the ABM Treaty, and apply the ABM Treaty to various actual or potential strategic defense activities by the United States and the USSR.

#### The Purpose of the ABM Treaty

The underlying purpose of the ABM Treaty, when it was concluded in 1972, was to prohibit the United States and the Soviet Union from deploying a nationwide ABM defense. The rationale for this prohibition, at least from the U.S. viewpoint, was that the absence in each country of an effective defense against ballistic missile attack by the other would reduce any incentive a country might have to launch a first strike. This was thought to be so because the attacker would be essentially defenseless against a retaliatory missile launch and therefore would be less likely to risk the consequences of a first strike. In turn, each country would have less incentive to increase its strategic offensive capabilities and would be more willing to negotiate effective limitations on strategic offensive arms, thereby reducing the risk of the

outbreak of war involving nuclear weapons.<sup>1</sup> Thus each country agreed to leave "unchallenged the penetration capability of the other's retaliatory missile forces."<sup>2</sup>

### The Text of the ABM Treaty

Consistent with its purpose, the ABM Treaty provides in Article I (2) that

Each Party undertakes not to deploy ABM systems for a defense of the territory of its country and not to provide a base for such a defense, and not to deploy ABM systems for defense of an individual region except as provided for in Article III....

Article III prohibits each country from deploying ABM systems or their components except for

(a) ...one ABM system deployment area having a radius of one hundred and fifty kilometers and centered on the Party's national capital...

and

(b) ...one ABM system deployment area having a radius of one hundred and fifty kilometers and containing ICBM silo launchers...<sup>3</sup>

The ABM Treaty does not, in Article III or elsewhere, require either country to specify the precise location of the ABM deployment area containing ICBM silo launchers. To the contrary, each country is to use its national technical means to verify compliance with the Treaty.<sup>4</sup>

Nor does the ABM Treaty, in Article III or elsewhere, specify any minimum number - - or any number whatever -- of ICBM launchers that an ABM deployment area must contain. The only such reference is the Article III requirement that one of the two permitted

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<sup>1</sup> ABM Treaty, Preamble.

<sup>2</sup> U.S. Arms Control and Disarmament Agency, Arms Control and Disarmament Agreements: Texts and Histories of the Negotiations (Washington, D.C., 1990) 155.

<sup>3</sup> Article III also limits the number of ABM launchers and missiles, as well as the number and capability of ABM radars, in each permitted deployment area.

<sup>4</sup> ABM Treaty, Article XII.

Donald F. Massey, Esquire

April 28, 1995

Page 4

ABM deployment areas must contain ICBM silo "launchers" -- that is, more than one such launcher.

The language of Article III is less precise regarding the actual location of the ABM deployment area containing ICBM silo launchers than the location of the ABM deployment area at the national capital. In the latter case, Article III(a) specifically requires that the ABM deployment area must be "centered on" the national capital. In the former case, however, there is no requirement that the ABM deployment area must be centered on an ICBM field. Rather, Article III(b) only requires that ICBM silo launchers must be contained somewhere within the 150-kilometer radius of the ABM deployment area. This language appears to permit flexibility in selecting a location for the center of an ABM deployment area at an ICBM field, provided only that ICBM silo launchers are within the permitted radius of the ABM deployment area. Nor does the language of Article III, or any other provision of the ABM Treaty, stipulate that the ICBM silo launchers within an ABM deployment area must all be located within a single ICBM field, or at a single military base, or within a single organizational unit.

On May 26, 1972, the date on which the ABM Treaty itself was signed, the heads of delegation of the two countries also initialed a number of agreed statements that are appended to the ABM Treaty. Agreed Statement C imposes an additional condition on the location of the two permitted ABM deployment areas by stipulating that "the center of the ABM system deployment area centered on the national capital and the center of the ABM system deployment area containing ICBM silo launchers for each Party shall be separated by no less than thirteen hundred kilometers" but otherwise adds no further constraints on location.

Also appended to the ABM Treaty are five common understandings that the two countries reached during the negotiations. In each of these common understandings, except for the first one, a statement by one delegation is followed by a responsive statement from the other delegation indicating agreement or acceptance in one form or another. The exception, Common Understanding A: Location of ICBM Defenses, consists of a statement by the U.S. delegation on May 26, 1972, in which the delegation repeats the language of Agreed Statement C (quoted above) and then adds the following comment:

In this connection the U.S. side notes that its ABM system deployment area for defense of ICBM silo launchers, located west of the Mississippi River, will be centered in the Grand Forks ICBM silo launcher deployment area.

Unlike the other common understandings, this statement is not accompanied by any responsive statement from the Soviet delegation. Nor is there any indication in the text of the ABM Treaty, or any of the various agreed statements, common understandings or unilateral statements accompanying it, that the Soviet Union made any response to this comment.

Donald F. Massey, Esquire  
April 28, 1995  
Page 5

Possibly one reason is that the comment required no Soviet response, inasmuch as it was delivered as a point of information (" . . . the U.S. side notes . . .") rather than as a matter requiring mutual assent. The language of the comment is also in contrast to the many other instances in the text of the ABM Treaty and its accompanying statements, where the two countries explicitly stated that "the Parties undertake," "the Parties understand," or "the Parties agree" when it was their intention to record binding commitments and promises.

### The Protocol to the ABM Treaty

In 1974 the United States and the Soviet Union negotiated a Protocol to the Treaty Between the United States Of America and the Union Of Soviet Socialist Republics on the Limitation Of Anti-Ballistic Missile Systems (the "Protocol"). The Protocol was formally ratified, in the same fashion as the ABM Treaty itself, and entered into force in 1976.

The purpose of the Protocol was to reinforce the ABM Treaty's prohibition on nationwide ABM defenses by reducing the number of permissible ABM deployment areas from two to one. As President Ford explained in his letter transmitting the Protocol to the Senate, "the Protocol would amend the Treaty to limit each Party to a single ABM deployment area at any one time, which level is consistent with the current level of deployment."<sup>5</sup>

Thus, Article I(1) of the Protocol provides that:

Each party shall be limited at any one time to a single area out of the two provided in Article III of the Treaty for deployment of anti-ballistic missile (ABM) systems or their components and accordingly shall not exercise its right to deploy an ABM system or its components in the second of the two ABM system deployment areas permitted by Article III of the Treaty, except as an exchange of one permitted area for the other in accordance with Article II of this Protocol.

Article II of the Protocol provides that, upon giving the required notice, each country is permitted to dismantle or destroy its ABM system where it was deployed as of 1976, and

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<sup>5</sup> Protocol to the Treaty With the Union Of Soviet Socialist Republics on the Limitation of Anti-Ballistic Missile Systems: Message From the President of the United States . . . Transmitting the Treaty Between the United States of America and the Union of Soviet Socialist Republics on the Limitation of Anti-Ballistic Missile Systems, Signed in Moscow on July 3, 1974, 93d Cong., 2d Sess., 1974.

to deploy an ABM system in the second area originally permitted by Article III of the Treaty.<sup>6</sup> This right may be exercised only once.<sup>7</sup>

Except to the extent modified by the Protocol, the rights and obligations established by the ABM Treaty remain in force.<sup>8</sup> Other than restricting each country to one instead of two ABM deployment areas at any one time, the Protocol does not add or remove any restrictions on the location of a permitted ABM deployment area that were not otherwise present in the ABM treaty as ratified in 1972. The Protocol's provisions for a one-time election to relocate an ABM system from its 1976 location only addresses a situation in which either country wishes to deploy an ABM system in the second location originally permitted to it under Article III of the ABM Treaty (in the case of the United States, its national capital). The Protocol is silent on the question whether the United States may relocate its one ABM system from the 1976 deployment area containing ICBM silo launchers to a different deployment area (not the national capital) containing ICBM silo launchers -- just as the Protocol is silent on whether the Soviet Union could move its ABM system from Moscow to another city if it decided to move its national capital to that city. To address these questions, one must resort to the text and appended statements and understandings of the ABM Treaty as originally negotiated in 1972.

#### Discussion

An international agreement is to be interpreted in good faith in accordance with the ordinary meaning to be given to its terms in their context and in the light of its object and purpose. Rest. 3d, Restatement Of The Foreign Relations Laws Of The United States, § 325(1) (1987).

The ordinary meaning of the terms in the ABM Treaty and Protocol, as well as the associated agreed statements and common understandings, do not support an interpretation that the United States would be forever barred from relocating its permitted ABM system from one location containing ICBM silo launchers to another location containing ICBM silo launchers. There is certainly nothing in the language of the Treaty, the Protocol, the agreed statements, the common understandings or the unilateral statements that impose such a ban. Both the Treaty and the Protocol address the matter of location in generic terms. Geographical coordinates and place names are nowhere mentioned or required to be specified anywhere in the Treaty or the Protocol.

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<sup>6</sup> Protocol, Article II(2).

<sup>7</sup> Protocol, Article II(1).

<sup>8</sup> Protocol, Article III.

Donald F. Massey, Esquire  
April 28, 1995  
Page 7

The mere fact that the U.S. delegation in 1972 voluntarily noted the U.S. intention to deploy an ABM system at Grand Forks Air Force Base hardly rises to the level of a binding treaty commitment by the United States never to change its intention and never to relocate that ABM system to another ICBM deployment area. This is particularly so where neither the Treaty nor the Protocol required the United States to designate in the Treaty documents the particular ICBM silo launchers or particular deployment area of ICBM silo launchers that it might choose to defend with an ABM system, and where the Soviet delegation recorded no response to the voluntary U.S. statement about Grand Forks or any understanding that the U.S. reference to Grand Forks was taken as an irrevocable election.<sup>9</sup>

The object and purpose of the ABM Treaty -- to prohibit nationwide ABM defenses and render each country's ICBM silo launchers vulnerable to the ICBMs of the other -- also do not support a conclusion that the United States may not defend any ICBM silo launchers other than those at Grand Forks Air Force Base. So long as the quantitative and qualitative limits imposed by the ABM Treaty on ABM systems and components are observed, the United States cannot deploy an effective nationwide ABM defense no matter where the defended ICBM silo launchers are located.

It has been suggested that maintaining a small number of silo launchers at Grand Forks in order to retain the option of an ABM deployment would somehow violate the intent of the ABM Treaty. The intent of the Treaty, however, supports precisely the opposite conclusion. Because the ABM Treaty aims to assure the mutual vulnerability of U.S. and Soviet ICBM silo launchers, the fewer ICBM silo launchers the United States elects to defend, the greater the vulnerability of its ICBM forces will be, hence the more consistent U.S. deployments will be with the intent of the ABM treaty.

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<sup>9</sup> While the time constraints imposed on the present letter did not permit a thorough review of the ratification hearings and debates on the ABM Treaty and Protocol, I have found no indication that the Senate understood the designation of Grand Forks to be an irrevocable choice that would forever preclude the United States from moving its ABM defense from Grand Forks to another location containing ICBM silo launchers. Both the executive branch representatives and individual Senators generally referred to the defense of an ICBM site rather than singling out Grand Forks by name. See, for example, Strategic Arms Limitation Agreements: Hearings Before The Committee On Foreign Relations Of United States Senate, 93d Cong., 2d Sess., 63 (Statement of Defense Secretary Laird: ". . . treaty . . . preserves the option to deploy a terminal defense of U.S. ICBM's . . ."), 247 (Statement of Senator Kennedy: ". . . exceptions are made . . . for the protection of a single ICBM site.") (1972).

Just as the ABM Treaty does not specify any maximum or minimum number of silo launchers that may be defended within the 150 kilometer radius of the permitted ABM deployment area, so too the Treaty imposes no conditions or limitations on the location of the center of the defensive radius, other than the requirement of a 1,300-kilometer separation distance from the national capital (assuming this condition still applies in light of the Protocol). Thus, the United States would appear to be within its rights under the Treaty if it elected to shift the center of the inactive ABM system at Grand Forks, without completely relocating that system, in order to include within the permitted 150-kilometer radius a number of silo launchers attached to organizational units other than the 321st Missile Group.<sup>10</sup>

### Conclusion

For the reasons discussed above:

1. Closure of the ICBM facilities at Grand Forks Air Force Base would not extinguish the right of the United States to deploy an ABM system as currently permitted by the ABM Treaty and the Protocol.
2. Should the United States elect to preserve the option of deploying an ABM system at Grand Forks rather than defending ICBM silo launchers in another location, maintaining a small number of silo launchers at Grand Forks but otherwise inactivating the ICBM facilities there would not violate the ABM Treaty.

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<sup>10</sup> Before actually undertaking any such relocation or adjustment, the United States might consider it prudent, and arguably may have a duty, to communicate its intentions through the Standing Consultative Commission established by Article XIII of the ABM Treaty.

*Squire, Sanders & Timpany*

Donald F. Massey, Esquire

April 28, 1995

Page 9

3. An ABM system deployment area located at or in the vicinity of Grand Forks Air Force Base, but centered in a manner to include within its defensive radius ICBM silo launchers attached to units other than the 321st Missile Group, would not violate the ABM Treaty.

Please let me know if I may be of further assistance.

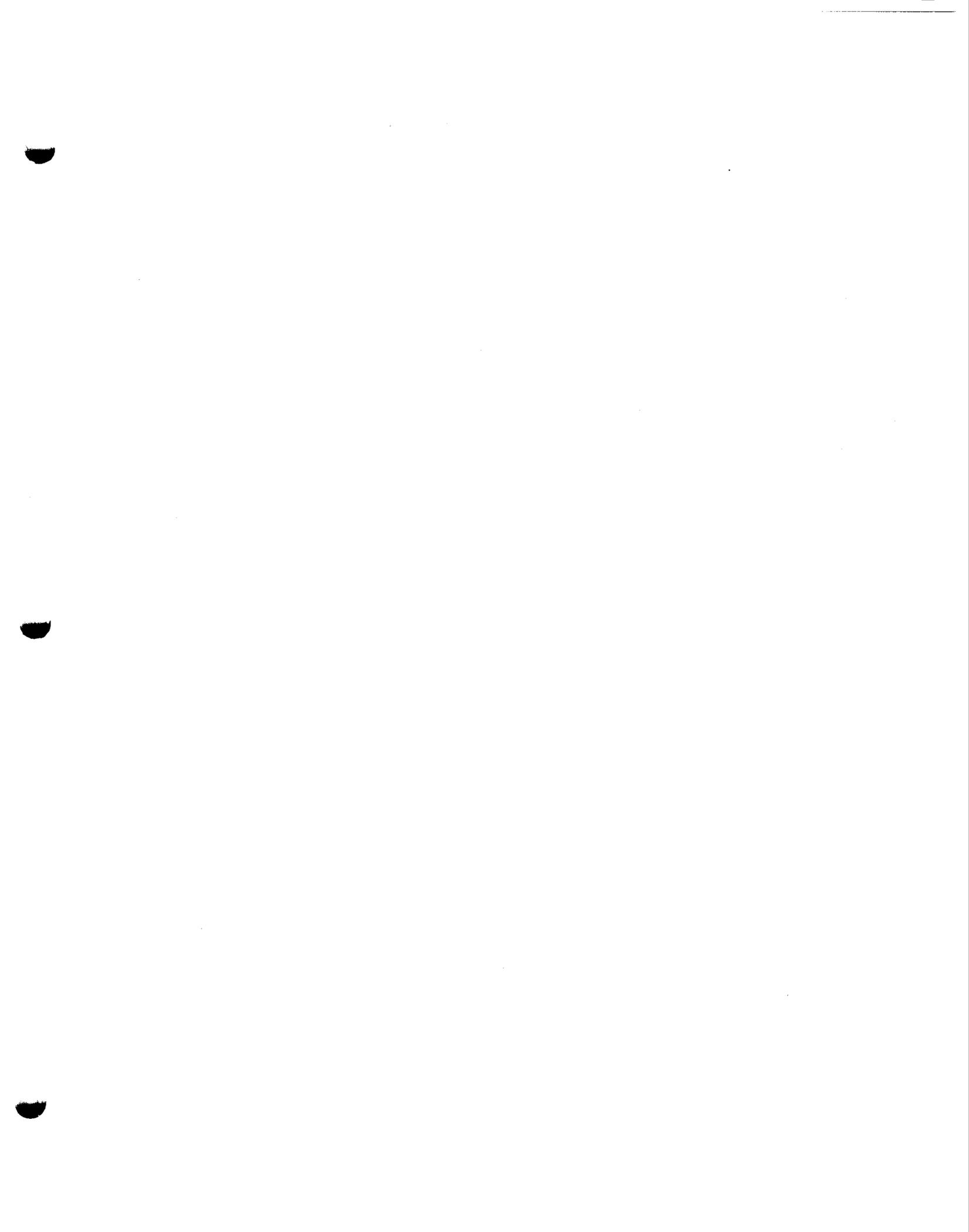
Sincerely yours,

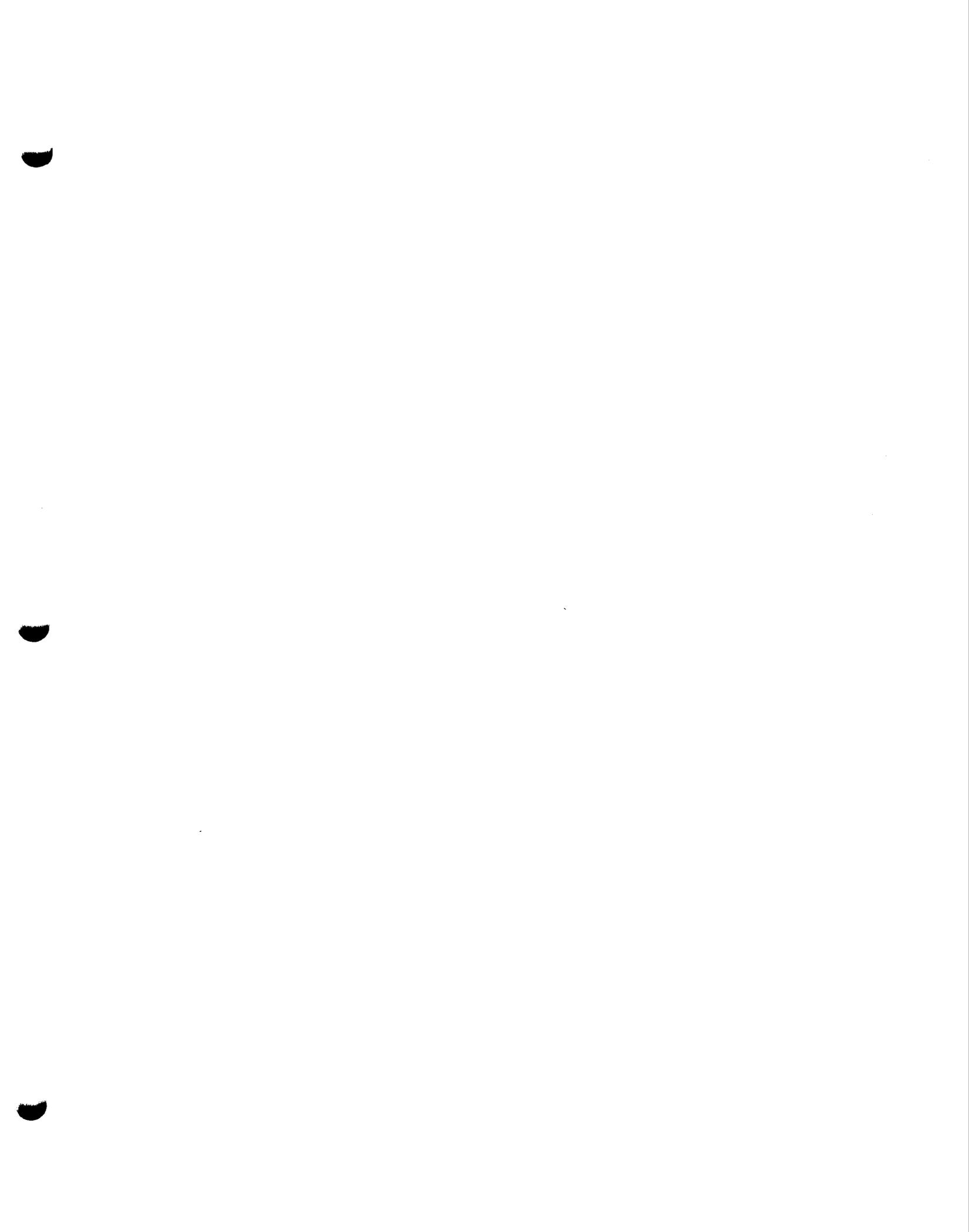


Michael H. Mobbs

MHM/rew

cc: Brigadier General (Retired) John R. Allen, Jr.





## MISSILE/LARGE AIRCRAFT CAPACITY ANALYSIS

### AIR FORCE

- **Determined an excess of 1 missile base**
- **Determined an excess of approximately 2-3 large aircraft bases**
  - **1-2 Bomber bases**
  - **1 Airlift base**
  - **Included Depot airfield capacity**
- **Recommended relocation of Malmstrom AFB KC-135 operations and closure of airfield except for helicopter support activity**

*Alto Hearing  
5/1/82*

## AIR FORCE MISSILE BASES

TIER	INSTALLATION
Excluded	<i>F.E. WARREN AFB, WY</i> (*)
III	<i>GRAND FORKS AFB, ND</i> (R)(*)
II	<i>MALMSTROM AFB, MT</i> (R)(*)
II	<i>MINOT AFB, ND</i> (**)(*)

(C) = DoD recommendation for closure

(R) = DoD recommendation for realignment

(\*) = *Candidate for further consideration*

(\*\*) = March 7, 1995 Commission Add for realignment (Missile Field)

## NORTHERN TIER MISSILE BASES DOD RECOMMENDATIONS VERSUS COMPLETE CLOSURES

	GRAND FORKS, ND	MINOT, ND	MALMSTROM, MT	FE WARREN, WY
<b>MISSILES</b>				
MINUTEMAN III MISSILES	150 <b>DOD RECOMMENDED FOR REALIGNMENT</b>  • Low ranked mil effectiveness and maintenance	150 Not Recommended but added by Commission  • Middle ranked mil effectiveness and maintenance	200 Not Recommended  • High ranked mil effectiveness and maintenance	150 Excluded  • Peacekeeper drawdown and START
PEACEKEEPER MISSILES	0	0	0	50
<b>AIRCRAFT</b>				
KC-135 AIRCRAFT	48 Not Recommended  • Core Tanker Base	0	12 <b>DOD RECOMMENDED FOR REALIGNMENT</b>  • Operating limitations	0
B-52 AIRCRAFT	0	12 Not Recommended  • USAF not seeking to relocate bombers	0	0

**Note: 80 launchers at Malmstrom AFB currently have Minuteman III missiles in place; 120 are awaiting conversion to Minuteman III when missiles become available.**

## BASE ANALYSIS

### CATEGORY: MISSILE/LARGE AIRCRAFT

**DOD RECOMMENDATION:** Realign Malmstrom AFB by relocating the 43rd Air Refueling Group to MacDill AFB.

CRITERIA	MALMSTROM, MT (R)(*) (Realign KC-135 Acft)
AIR FORCE TIERING	II
BCEG RANK	11/18
FORCE STRUCTURE	80 MINUTEMAN III 120 MINUTEMAN X 12 KC-135 Aircraft
ONE-TIME COSTS (\$ M)	17.4
ANNUAL SAVINGS (\$ M)	5.1
RETURN ON INVESTMENT	4 Years
BASE OPERATING BUDGET (\$ M)	21.8
PERSONNEL ELIMINATED (MIL/CIV)	0/0
PERSONNEL REALIGNED (MIL/CIV)	719/19
ECONOMIC IMPACT (BRAC95/CUM)	3.0%/3.0%
ENVIRONMENTAL	Asbestos/Siting

(C) = DoD recommendation for closure

(R) = DoD recommendation for realignment

(\*) = *Candidate for further consideration*

(\*\*) = March 7, 1995 Commission Add for realignment (Missile Field)

## BASE ANALYSIS

### CATEGORY: MISSILE/LARGE AIRCRAFT

**DOD RECOMMENDATION:** Realign Grand Forks AFB by inactivating the 321st Missile Group.

CRITERIA	GRAND FORKS, ND (R)(*) (Realign MM III)	MINOT, ND (**)(*) (Realign MM III)
AIR FORCE TIERING	III	II
BCEG RANK	17/18	15/18
FORCE STRUCTURE	150 MINUTEMAN III 48 KC-135 Aircraft	150 MINUTEMAN III 12 B-52 Aircraft
ONE-TIME COSTS (\$ M)	11.9	12.0
ANNUAL SAVINGS (\$ M)	35.2	36.0
RETURN ON INVESTMENT	Immediate	Immediate
BASE OPERATING BUDGET (\$ M)	26.7	26.7
PERSONNEL ELIMINATED (MIL/CIV)	802/35	809/46
PERSONNEL REALIGNED (MIL/CIV)	0/0	0/0
ECONOMIC IMPACT (BRAC95/CUM)	2.4%/2.4%	3.1%/3.1%
ENVIRONMENTAL	Asbestos/Siting	Siting

(C) = DoD recommendation for closure

(R) = DoD recommendation for realignment

(\*) = *Candidate for further consideration*

(\*\*) = March 7, 1995 Commission Add for realignment (Missile Field)

**BASE ANALYSIS**  
**CATEGORY: MISSILE/LARGE AIRCRAFT**

CRITERIA	GRAND FORKS, ND (R)(*) (Realign MM III)	MINOT, ND (**)(*) (Realign MM III)	F.E. WARREN, WY (*) (Realign MM III)	MALMSTROM, MT (R)(*) (Closure)
AIR FORCE TIERING	III	II	Excluded	II
BCEG RANK	17/18	15/18	Excluded	11/18
FORCE STRUCTURE	150 MINUTEMAN III 48 KC-135 Aircraft	150 MINUTEMAN III 12 B-52 Aircraft	150 MINUTEMAN III 50 PEACEKEEPER	80 MINUTEMAN III 120 MINUTEMAN X 12 KC-135 Aircraft
ONE-TIME COSTS (\$ M)	11.9	12.0	84.3	96.4
ANNUAL SAVINGS (\$ M)	35.2	36.0	16.1	113.9
RETURN ON INVESTMENT	Immediate	Immediate	3 Years	1 Year
BASE OPERATING BUDGET (\$ M)	26.7	26.7	16.9	21.8
PERSONNEL ELIMINATED (MIL/CIV)	802/35	809/46	376/27	2,132/277
PERSONNEL REALIGNED (MIL/CIV)	9/0	0/0	103/5	1,135/182
ECONOMIC IMPACT (BRAC95/CUM)	2.4%/2.4%	3.1%/3.1%	1.4%/1.4%	9.3%/9.3%
ENVIRONMENTAL	Asbestos/Siting	Siting	Siting	Asbestos/Siting

(C) = DoD recommendation for closure

(R) = DoD recommendation for realignment

(\*) = *Candidate for further consideration*

(\*\*) = March 7, 1995 Commission Add for realignment (Missile Field)

**BASE ANALYSIS**  
**CATEGORY: MISSILE/LARGE AIRCRAFT**

CRITERIA	MALMSTROM, MT (R)(*) (Closure)	GRAND FORKS, ND (R)(*) (Closure)	MINOT, ND (**)(*) (Closure)
AIR FORCE TIERING	II	III	II
BCEG RANK	11/18	17/18	15/18
FORCE STRUCTURE	80 MINUTEMAN III 120 MINUTEMAN X 12 KC-135 Aircraft	150 MINUTEMAN III 48 KC-135 Aircraft	150 MINUTEMAN III 12 B-52 Aircraft
ONE-TIME COSTS (\$ M)	96.4	81.4	230.4
ANNUAL SAVINGS (\$ M)	113.9	87.6	98.2
RETURN ON INVESTMENT	1 Year	1 Year	2 Years
BASE OPERATING BUDGET (\$M)	21.8	26.7	26.7
PERSONNEL ELIMINATED (MIL/CIV)	2,132/277	1,597/116	1,846/230
PERSONNEL REALIGNED (MIL/CIV)	1,135/182	2,354/309	1,947/261
ECONOMIC IMPACT (BRAC95/CUM)	9.3%/9.3%	12.7%/12.7%	15.8%/15.8%
ENVIRONMENTAL	Asbestos/Siting	Asbestos/Siting	Siting

(C) = DoD recommendation for closure

(R) = DoD recommendation for realignment

(\*) = *Candidate for further consideration*

(\*\*) = March 7, 1995 Commission Add for realignment (Missile Field)

# BASE ANALYSIS

## CATEGORY: MISSILE/LARGE AIRCRAFT

**FOR CONSIDERATION:** Study Grand Forks , Minot, and Malmstrom AFBs for **REALIGNMENT** or **CLOSURE** and F.E. Warren AFB for **REALIGNMENT**.

CRITERIA	GRAND FORKS, ND (R)(*) (Closure)	MINOT, ND (**)(*) (Closure)	MALMSTROM, MT (R)(*) (Closure)	F.E. WARREN, WY (*) (Realign MM III)
AIR FORCE TIERING	III	II	II	Excluded
BCEG RANK	17/18	15/18	11/18	Excluded
FORCE STRUCTURE	150 MINUTEMAN III 48 KC-135 Aircraft	150 MINUTEMAN III 12 B-52 Aircraft	80 MINUTEMAN III 120 MINUTEMAN X 12 KC-135 Aircraft	150 MINUTEMAN III 50 PEACEKEEPER
ONE-TIME COSTS (\$ M)	81.4	230.4	96.4	84.3
ANNUAL SAVINGS (\$ M)	87.6	98.2	113.9	16.1
RETURN ON INVESTMENT	1 Year	2 Years	1 Year	3 Years
BASE OPERATING BUDGET (\$M)	26.7	26.7	21.8	16.9
PERSONNEL ELIMINATED (MIL/CIV)	1,597/116	1,846/230	2,132/277	376/27
PERSONNEL REALIGNED (MIL/CIV)	2,354/309	1,947/261	1,135/182	103/5
ECONOMIC IMPACT (BRAC95/CUM)	12.7%/12.7%	15.8%/15.8%	9.3%/9.3%	1.4%/1.4%
ENVIRONMENTAL	Asbestos/Siting	Siting	Asbestos/Siting	Siting

- (C) = DoD recommendation for closure
- (R) = DoD recommendation for realignment
- (\*) = *Candidate for further consideration*
- (\*\*) = March 7, 1995 Commission Add for realignment (Missile Field)

## MISSILE/LARGE AIRCRAFT BASES MAJOR ISSUES

MAJOR ISSUES	GRAND FORKS, ND	MINOT, ND	MALMSTROM, MT	F.E. WARREN, WY
Anti Ballistic Missile Site	Yes	No	No	No
Force Structure	Consistent with Nuclear Posture Review 500 MM III 3,500 Total TRIAD	Consistent with Nuclear Posture Review 500 MM III 3,500 Total TRIAD	Consistent with Nuclear Posture Review 450 MM III 3,500 Total TRIAD	Consistent with Nuclear Posture Review 500 MM III 3,500 Total TRIAD
Survivability	Hardened Silos Compact Field	Hardened Silos Compact Field	Hardened Silos Expansive Field	Hardened Silos Compact Field
Maintainability	Single System Compact Field 99% Alert Rate	Single System Compact Field 99% Alert Rate	Two Systems Expansive Field 99% Alert Rate	Single System Compact Field 99% Alert Rate
Total on site depot support costs 1993-1995 (Water intrusion, wind anomalies, etc.) (\$ M)	8.1	7.0	11.4	10.4
Annual on site depot support costs per launch facility	\$18,101 per launch facility	\$15,670 per launch facility	\$19,162 per launch facility	\$23,028 per launch facility
Tanker saturation in Northwest	Yes	N/A	Yes	N/A
Airfield Elevation	911 Ft.	1,660 Ft.	3,526 Ft.	N/A

## SLIDE A3

In the Missile/Large Aircraft Bases category, we have studied DoD recommendations for Grand Forks and Malmstrom Air Force Bases as well as Commission adds for Grand Forks and Minot Air Force Bases.

This chart reflects the Air Force assessed overall value of the Grand Forks and Minot Air Force Bases as well as the costs and savings of the DoD recommendation and the Commission alternatives. DoD recommended the Grand Forks reralignment because of a reduction in intercontinental ballistic missile force structure, in accordance with the Nuclear Posture Review, which requires inactivation of one missile field within the Air Force. The Commission adds provide the Minot missile field for consideration as an alternative to Grand Forks as well as the potential for substantially more savings with the complete closure of Grand Forks Air Force Base.

## SLIDE A4

These are the issues associated with the DoD recommended inactivation of the missile field at Grand Forks and the Commission alternative to close Grand Forks.

The key issue with respect to the missile field is operational effectiveness. The Air Force rated Grand Forks its least capable missile field based on five criteria: ability to reach targets, size and orientation of the field, geological effects on survivability, weather impacts on operations and maintenance, and logistics supportability. The community argues all missile fields are equally capable and have performed their missions effectively for the past 30 years. Staff findings support the DoD position--all missile fields are fully capable, but the high water table at Grand Forks reduces survivability, the alert rate at Grand Forks has been consistently lower than at Minot, and on-site depot support costs have been higher.

At the time the DoD recommendation was received, there was uncertainty about whether implications for the Grand Forks ABM system and ballistic missile defense might preclude inactivation of the Grand Forks Minuteman field. Indeed, it was for this reason that the Minot missile field was added for consideration. On May 9, the Commission received a letter from the Deputy Secretary of Defense indicating that representatives of DoD, the Joint Chiefs of Staff, the State Department, the Arms Control and Disarmament Agency, and the National Security Council Staff had determined that ABM considerations would not preclude inactivation of the Grand Forks Minuteman field. Subsequent correspondence with DoD confirms inactivation of the Grand Forks Minuteman field will not affect the U.S. right to retain an ABM deployment area at Grand Forks, and it will not require demolition of the ABM facilities. It should be noted, however, it may be necessary to leave a small number of empty silos in place at Grand Forks. The staff finds that the interagency position resolves the potential ABM obstacles.

This finding also affects cost because the community believes that ABM demolition costs, if required, should be added to the cost to inactivate the missile field. However, since there are no ABM related costs, the Grand Forks missile field has a lower cost to inactivate than Minot. DoD included \$5.5M for housing demolition at Grand Forks, increasing annual recurring savings by \$3.7M. This appears to be a sound investment strategy that produces substantial long term

savings, but would not be necessitated by a decision to realign Grand Forks. As such, the cost and savings associated with this action were removed from the decision COBRA.

In studying Grand Forks for complete closure, the value of the core tanker concept is an issue. This is a component of military value which the commission must weigh against the savings from a complete closure. Both the Air Force and the community argue the organizational improvements, operational capabilities, and fiscal efficiencies of core tanker bases are essential to meeting current military challenges. Staff findings indicate that the core tanker unit at Grand Forks has been successful in sustaining a high deployment rate in support of global operational contingencies. On average over the past year, 66% of Grand Forks tankers were off station. Combining four squadrons of tankers at Grand Forks fully uses the airfield capacity, and achieves efficiencies in supply, maintenance, and facilities utilization.

Grand Forks is an important operational location for supporting both strategic nuclear and contingency deployment operations. CINCSTRATCOM, CINCTRANSCOM, the Vice Chairman of the Joint Chiefs of Staff, and the Air Force Chief of Staff strongly support retaining the core tanker mission at Grand Forks because of its operational location. In addition, the staff notes that the runway at Grand Forks was upgraded to Code 1 in 1994, the hydrant system--essential to effective tanker operations--has been upgraded, airfield facilities are modern, and state and local zoning assure there will be no airfield encroachment problems in the future.

The final two issues--tanker saturation in the Northwest and tanker shortfall in the Southeast--were raised by DoD as part of the rationale for relocating tankers from Malmstrom AFB to MacDill AFB. Grand Forks has a north central location and as such does not contribute to the tanker saturation in the Northwest--it is in fact the only north central location to support the Single Integrated Operations Plan. Although there is a tanker shortfall in the Southeast when the number of locally based tankers is measured against training requirements, this is not an important issue when considered against the operational requirements at Grand Forks.

## SLIDE A5

The Minot issues are closely related to the Grand Forks Issues.

Missile field operational effectiveness is better at Minot--the geology is more survivable, the alert rate is the highest in the Air Force, and the depot support costs are the lowest of all the missile fields. By these measures, Minot is not only better than Grand Forks, but better than FE Warren and Malmstrom as well.

The DoD position was that Minot could be substituted for Grand Forks if ABM implications became a show stopper for the Grand Forks recommendation. The interagency review concluded there are no ABM related obstacles, and the Minot alternative is no longer required for this reason.

Although the Air Force evaluated missile and large aircraft missions separately, the minot community argues that the missions should be considered together when calculating military value because they provide operational efficiencies. The staff finds there is shared overhead and the nuclear missions are able to share the weapons storage area.

## **SLIDES A6/A7**

These charts summarize the DoD recommendation and the Commission alternatives and provide pros and cons of each. Mr. Chairman, I would be pleased to answer any questions you may have at this time.

## BASE ANALYSIS

**DOD RECOMMENDATION:** Realign Grand Forks AFB by inactivating the 321st Missile Group.

**COMMISSION ADD FOR CONSIDERATION** Study Minot AFB **FOR REALIGNMENT** by inactivating the 91st Missile Group.  
Study Grand Forks AFB **FOR CLOSURE**.

CRITERIA	GRAND FORKS, ND (R) (Realign MM III)	MINOT, ND (* ) (Realign MM III)	GRAND FORKS, ND (R)(*) (Closure)
AIR FORCE TIERING	III	II	III
BCEG FLYING RATING	Yellow +	Yellow +	Yellow +
BCEG MISSILE RATING	Red	Yellow	Red
FORCE STRUCTURE	150 MINUTEMAN III 48 KC-135 Aircraft	150 MINUTEMAN III 12 B-52 Aircraft	150 MINUTEMAN III 48 KC-135 Aircraft
ONE-TIME COSTS (\$ M)	11.9	17.3	215.3
ANNUAL SAVINGS (\$ M)	35.2	36.1	87.7
RETURN ON INVESTMENT	1998 (Immediate)	1998 (Immediate)	2000 (2 Years)
NET PRESENT VALUE	447.1	453.7	960.2
BASE OPERATING BUDGET (\$M)	26.7	26.7	26.7
PERSONNEL ELIMINATED (MIL/CIV)	802/35	809/46	1,684/122
PERSONNEL REALIGNED (MIL/CIV)	0/0	0/0	2,267/333
ECONOMIC IMPACT (BRAC95/CUM)	-3.1%/-3.1%	-3.1%/-3.1%	-13.4%/-13.4%
ENVIRONMENTAL	Asbestos/Siting	Siting	Asbestos/Siting

*Further Relist  
Siting*

- (C) = DoD recommendation for closure
- (R) = DoD recommendation for realignment
- (\*) = *Candidate for further consideration*

## Grand Forks AFB, ND

ISSUE	DoD POSITION	COMMUNITY POSITION	R&A STAFF FINDINGS
<b>Missile field operational effectiveness</b>	Least capable  Fully capable of performing mission	All missile fields equally capable	Less survivable geology  Lower alert rate  Higher on-site depot support costs
<b>Antiballistic missile implications</b>	No effect on right to retain an ABM deployment area at Grand Forks  Not necessary to demolish or relocate ABM facilities.	Restricts ballistic missile defense options  Requires demolition of existing ABM facilities  Could send misleading signal to the former Soviet Union	Interagency position resolves potential ABM obstacles
<b>Cost</b>	No ABM-related costs  Include housing demolition costs	Costs are greatly underestimated	No ABM-related costs  No housing demolition costs
<b>Core tanker base</b>	Operational effectiveness and fiscal efficiency	Agree with DoD	Sustained high deployment rate  Overhead efficiencies
<b>Operational location</b>	Important for Single Integrated Operations Plan (SIOP) and global deployment support  Supported by CINCs and CSAF	DoD correctly assessed the military value of Grand Forks AFB when selecting it as core tanker base	Important for Single Integrated Operations Plan (SIOP)  Upgraded runway and hydrant system, modern facilities, zoning guarantees
<b>Tanker saturation in Northwest</b>	North central location	Agree with DoD	Northwest tanker saturation not an issue for Grand Forks AFB
<b>Southeast tanker shortfall</b>	Shortfall is for training only	Agree with DoD	Not a decisive issue