

Economic Impact Report

This report depicts the economic impact of the following Scenarios:

USA-0227: Close Natick Soldier Systems Center

The data in this report is rolled up by Region of Influence

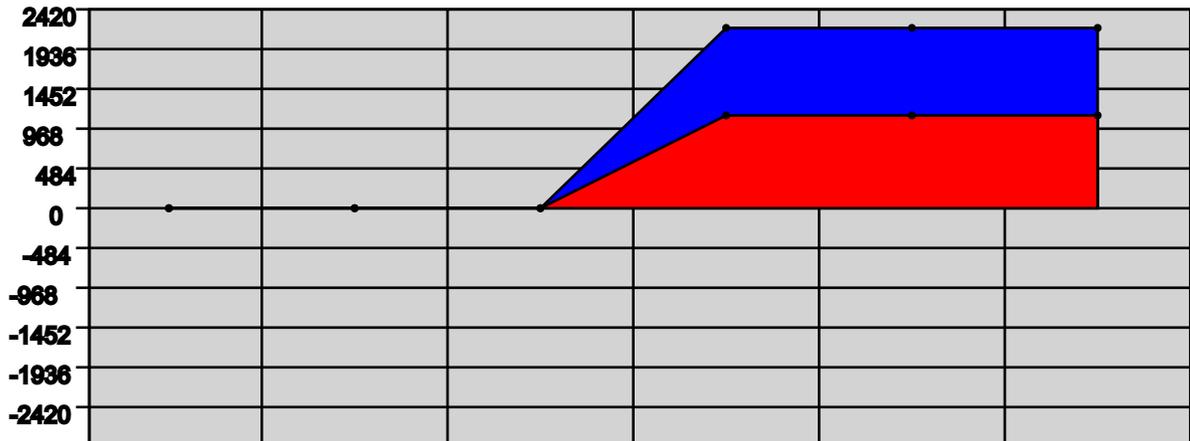
ECONOMIC IMPACT DATA

Scenario: All Selected (see title page)
Economic Region of Influence(ROI): Baltimore-Towson, MD Metropolitan Statistical Area
Base: All Bases
Action: All Actions

Overall Economic Impact of Proposed BRAC-05 Action:

ROI Population (2002): 2,598,976
 ROI Employment (2002): 1,568,140
 Authorized Manpower (2005): 11,689
 Authorized Manpower(2005) / ROI Employment(2002): 0.75%
 Total Estimated Job Change: 2,203
 Total Estimated Job Change / ROI Employment(2002): 0.14%

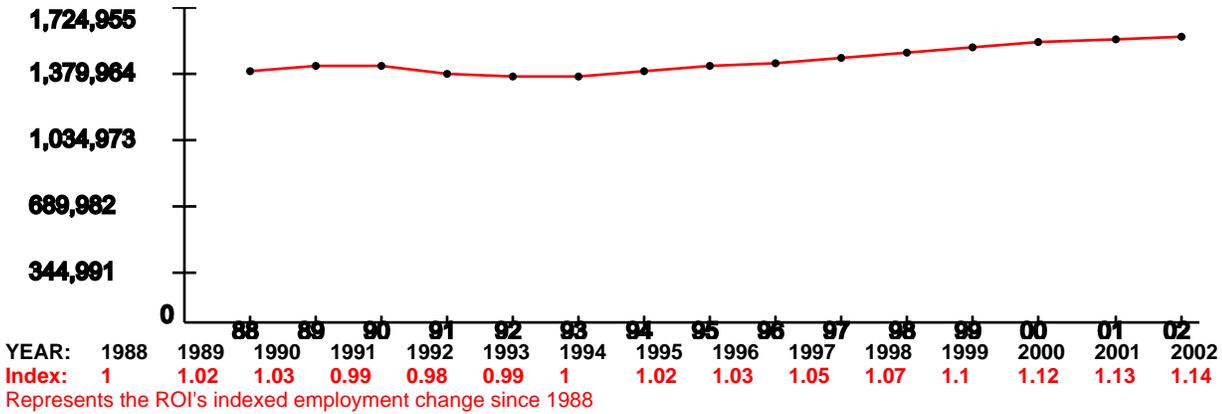
Cumulative Job Change (Gain/Loss) Over Time:



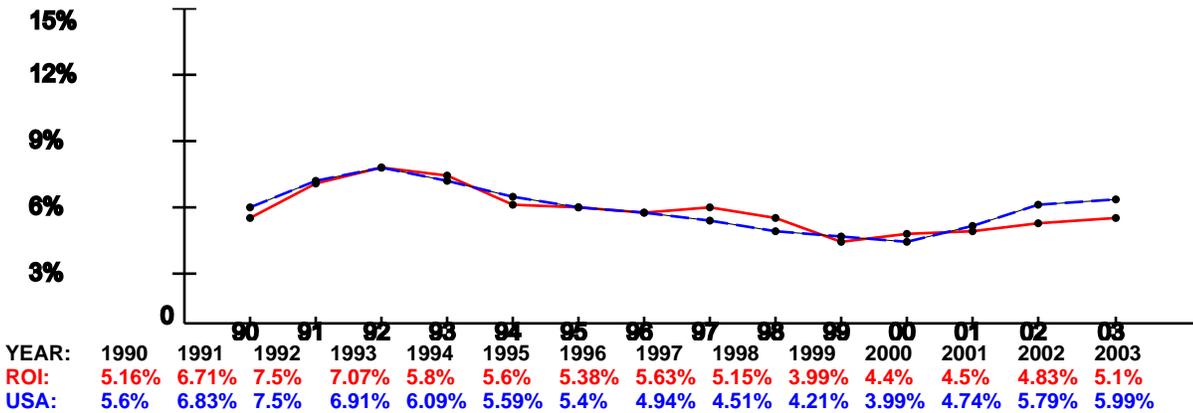
YEAR:	2006	2007	2008	2009	2010	2011
Direct Military:	0	0	0	103	0	0
Direct Civilian:	0	0	0	902	0	0
Direct Student:	0	0	0	0	0	0
Direct Contractor:	0	0	0	136	0	0
Cumulative Direct:	0	0	0	1141	1141	1141
Cum Indir/Induc:	0	0	0	1062	1062	1062
Cumulative Total:	0	0	0	2203	2203	2,203

Baltimore-Towson, MD Metropolitan Statistical Area Trend Data

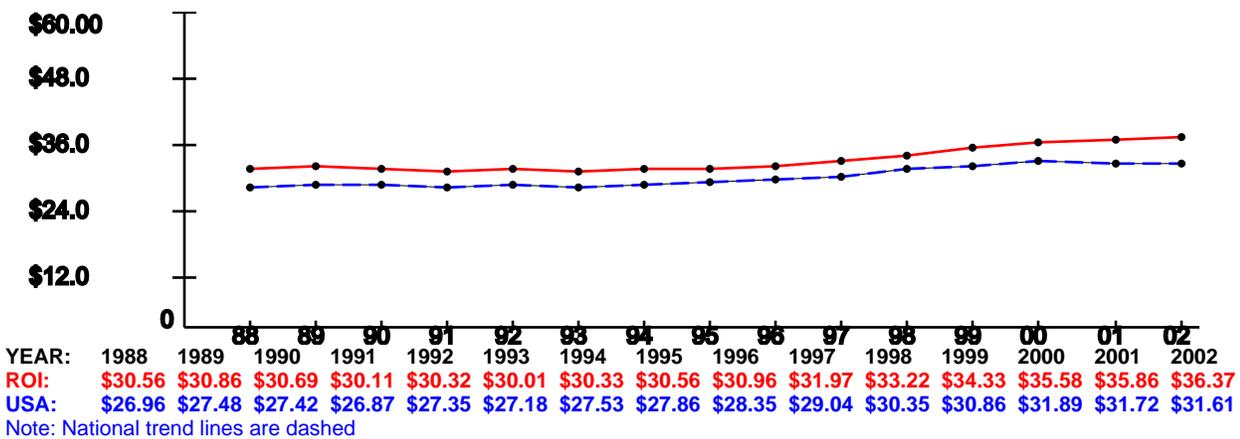
Employment Trend (1988-2002)



Unemployment Percentage Trend (1990-2003)



Per Capita Income x \$1,000 (1988-2002)



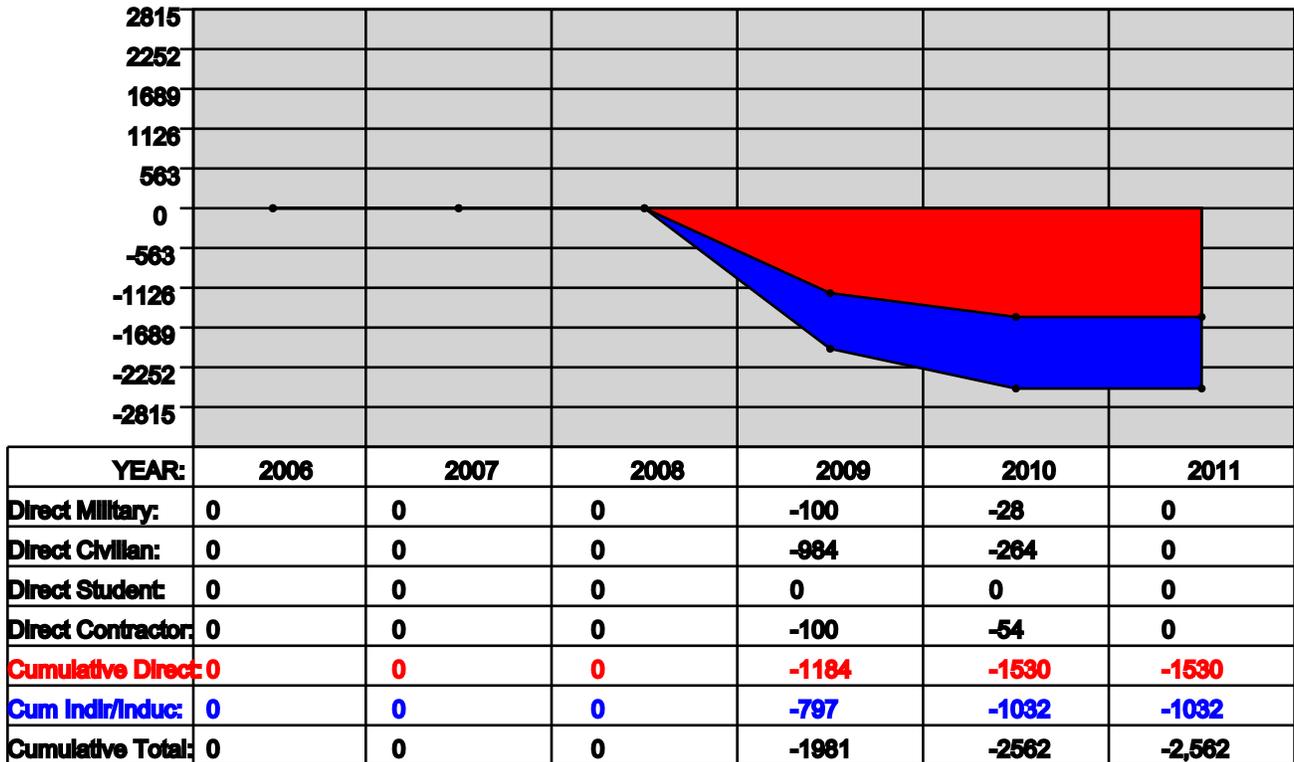
ECONOMIC IMPACT DATA

Scenario: All Selected (see title page)
Economic Region of Influence(ROI): Cambridge-Newton-Framingham, MA Metropolitan Division
Base: All Bases
Action: All Actions

Overall Economic Impact of Proposed BRAC-05 Action:

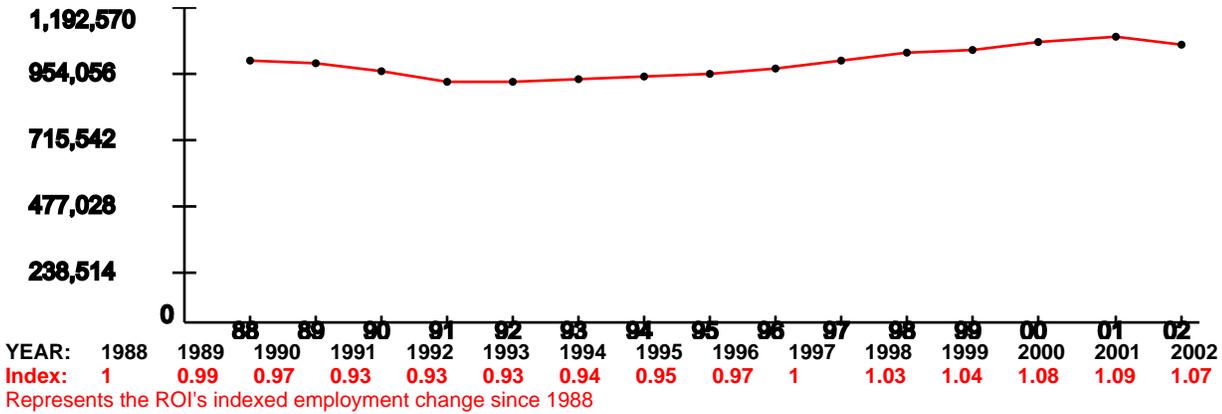
ROI Population (2002): 1,472,817
 ROI Employment (2002): 1,054,892
 Authorized Manpower (2005): 1,379
 Authorized Manpower(2005) / ROI Employment(2002): 0.13%
 Total Estimated Job Change: -2,562
 Total Estimated Job Change / ROI Employment(2002): -0.24%

Cumulative Job Change (Gain/Loss) Over Time:

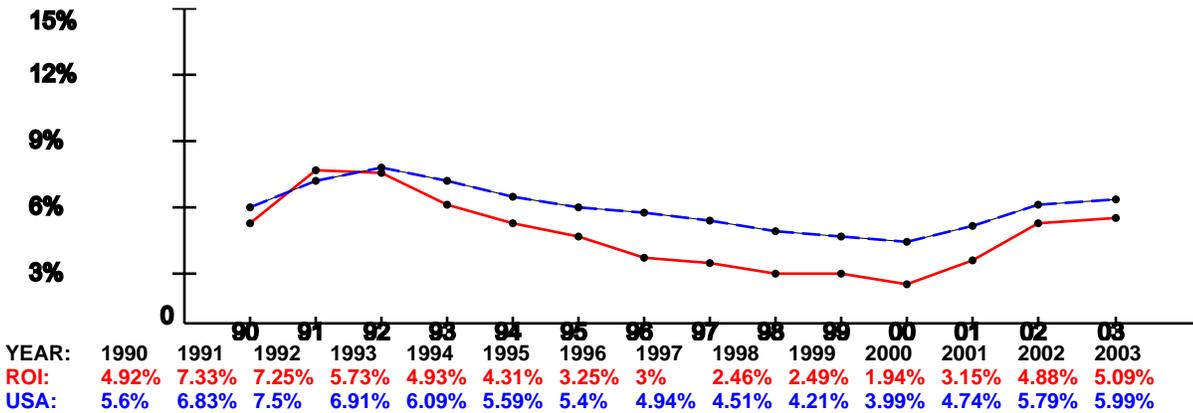


Cambridge-Newton-Framingham, MA Metropolitan Division Trend Data

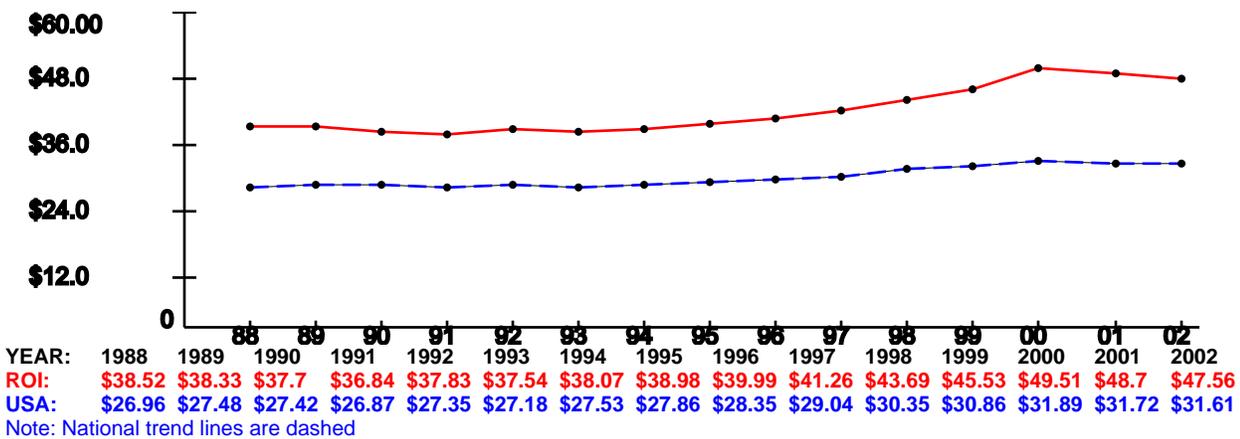
Employment Trend (1988-2002)



Unemployment Percentage Trend (1990-2003)



Per Capita Income x \$1,000 (1988-2002)



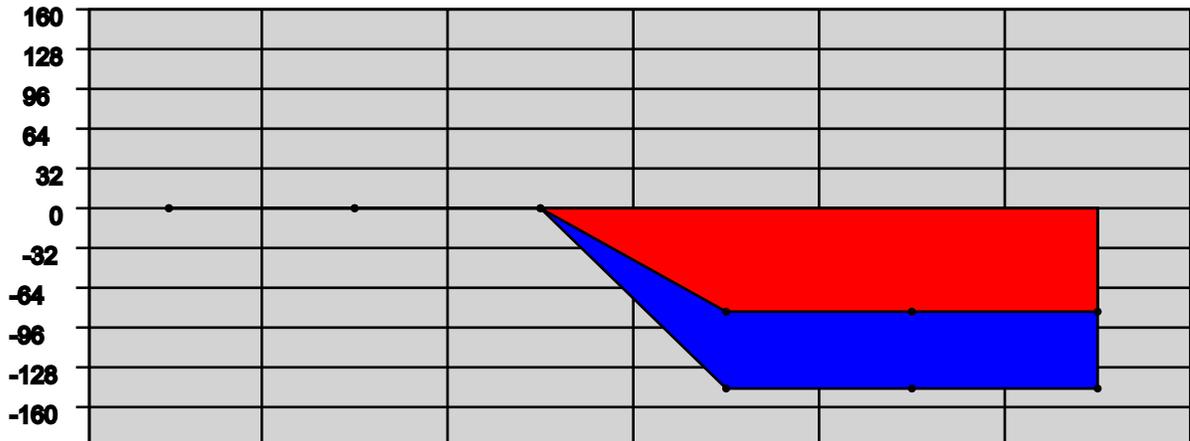
ECONOMIC IMPACT DATA

Scenario: All Selected (see title page)
Economic Region of Influence(ROI): Washington-Arlington-Alexandria, DC-VA-MD-WV Metropolitan Division
Base: All Bases
Action: All Actions

Overall Economic Impact of Proposed BRAC-05 Action:

ROI Population (2002): 3,895,337
 ROI Employment (2002): 2,771,791
 Authorized Manpower (2005): 14,203
 Authorized Manpower(2005) / ROI Employment(2002): 0.51%
 Total Estimated Job Change: -148
 Total Estimated Job Change / ROI Employment(2002): -0.01%

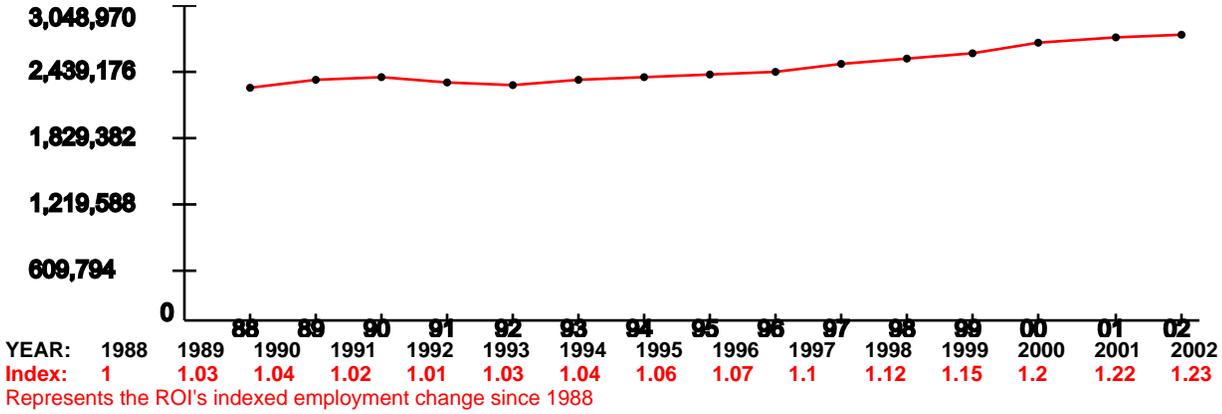
Cumulative Job Change (Gain/Loss) Over Time:



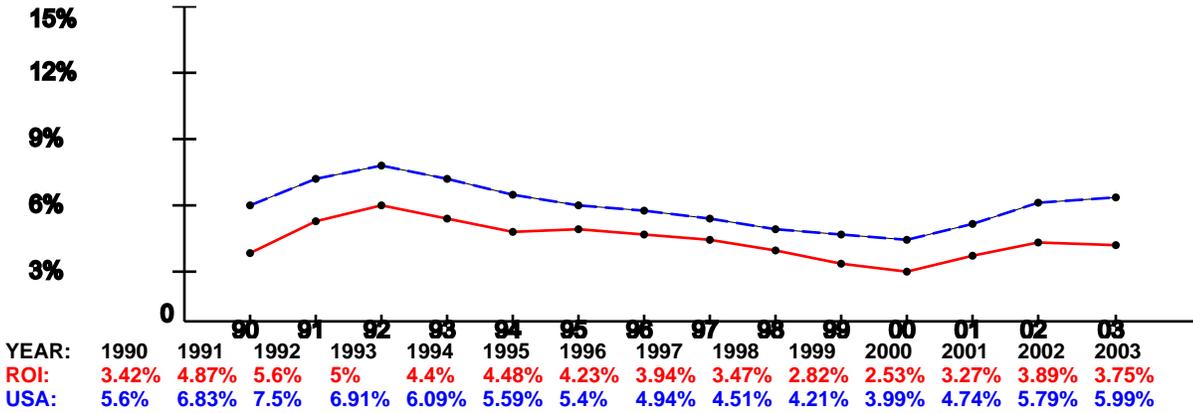
YEAR:	2006	2007	2008	2009	2010	2011
Direct Military:	0	0	0	-12	0	0
Direct Civilian:	0	0	0	-73	0	0
Direct Student:	0	0	0	0	0	0
Direct Contractor:	0	0	0	0	0	0
Cumulative Direct:	0	0	0	-85	-85	-85
Cum Indir/Induc:	0	0	0	-63	-63	-63
Cumulative Total:	0	0	0	-148	-148	-148

Washington-Arlington-Alexandria, DC-VA-MD-WV Metropolitan Division Trend Data

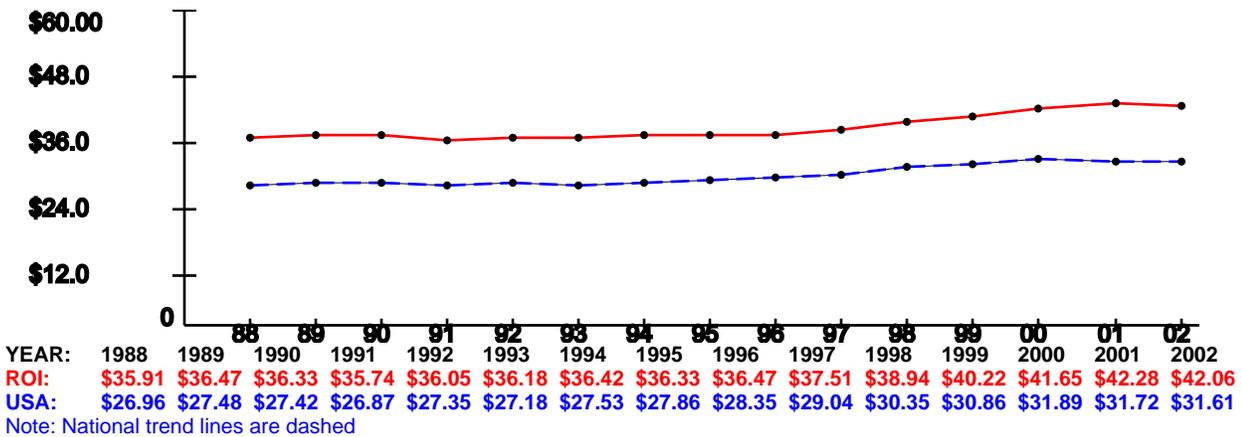
Employment Trend (1988-2002)



Unemployment Percentage Trend (1990-2003)



Per Capita Income x \$1,000 (1988-2002)



Department : Army
 Scenario File : J:\Technical SDC\Candidate Recommendations\USA0227\USA-0227 14 Mar 05.CBR
 Option Pkg Name: Close Natick Soldier Systems Center
 Std Fctrs File : C:\CHuo WS Data\COBRA\Army COBRA 6.08\BRAC2005.SFF

Starting Year : 2006
 Final Year : 2010
 Payback Year : 2020 (10 Years)

NPV in 2025(\$K): -124,793
 1-Time Cost(\$K): 314,188

Net Costs in 2005 Constant Dollars (\$K)								
	2006	2007	2008	2009	2010	2011	Total	Beyond
	----	----	----	----	----	----	-----	-----
MilCon	18,322	0	203,573	0	0	0	221,895	0
Person	0	0	0	-2,065	-15,874	-33,777	-51,717	-33,777
Overhd	-2	-518	1,828	3,566	-3,541	-4,218	-2,884	-4,471
Moving	0	0	1,315	50,268	1,917	0	53,500	0
Missio	0	0	0	0	0	0	0	0
Other	550	0	17,914	1,755	816	816	21,850	816
TOTAL	18,870	-518	224,631	53,523	-16,682	-37,179	242,645	-37,432

	2006	2007	2008	2009	2010	2011	Total
	----	----	----	----	----	----	-----
POSITIONS ELIMINATED							
Off	0	0	0	0	1	0	1
Enl	0	0	0	9	27	0	36
Civ	0	0	0	185	264	0	449
TOT	0	0	0	194	292	0	486

POSITIONS REALIGNED							
Off	0	0	0	34	0	0	34
Enl	0	0	0	69	0	0	69
Stu	0	0	0	0	0	0	0
Civ	0	0	0	872	0	0	872
TOT	0	0	0	975	0	0	975

Summary:

 Candidate Recommendation: Closes Natick Soldier Systems Center, realigns PEO Soldier at Fort Belvoir and moves these elements to Aberdeen Proving Ground (APG); this forms an Army Soldier and Biological Chemical Center at APG.

Consolidates Army RDT&E organizations to capitalize on technical synergy. Technology and LCM Synergy is needed for the Soldier Systems

Closes Natick; Realigns PEO Soldier at Fort Belvoir.

Army supported; TJCSG supported

Complements TECH 0032 (Chem Bio COE at APG) and Med 0056 (USARIEM moves to APG)

The Ordnance School remains at APG in this recommendation.

This version incorporates a 15% reduction in civilian authorizations for moving units due to consolidation efficiencies.

MILCON requirements also reduced by 15%, except for the previously resized Doriot Chamber facility, with subsequent reduction in the reported replacement facility costs.

Improves Military Value (by moving activities to a higher military value installation), and takes advantage of excess capacity at Aberdeen Proving Ground.

MVI: Aberdeen (18), Fort Belvoir (39), Natick (57)

Department : Army
 Scenario File : J:\Technical SDC\Candidate Recommendations\USA0227\USA-0227 14 Mar 05.CBR
 Option Pkg Name: Close Natick Soldier Systems Center
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Costs in 2005 Constant Dollars (\$K)								
	2006	2007	2008	2009	2010	2011	Total	Beyond
	----	----	----	----	----	----	----	-----
MilCon	18,322	0	203,573	0	0	0	221,895	0
Person	0	0	0	6,517	10,081	2,612	19,210	2,612
Overhd	2,064	1,548	3,894	7,736	7,405	6,728	29,376	6,728
Moving	0	0	1,315	50,521	1,917	0	53,752	0
Missio	0	0	0	0	0	0	0	0
Other	550	0	17,914	1,755	816	816	21,850	816
TOTAL	20,935	1,548	226,696	66,529	20,219	10,156	346,084	10,156

Savings in 2005 Constant Dollars (\$K)								
	2006	2007	2008	2009	2010	2011	Total	Beyond
	----	----	----	----	----	----	----	-----
MilCon	0	0	0	0	0	0	0	0
Person	0	0	0	8,582	25,955	36,389	70,926	36,389
Overhd	2,065	2,065	2,065	4,170	10,946	10,946	32,260	11,199
Moving	0	0	0	253	0	0	253	0
Missio	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0
TOTAL	2,065	2,065	2,065	13,005	36,901	47,335	103,439	47,588

COBRA PERSONNEL/SF/SUSTAINMENT/RECAP/BOS DELTAS REPORT (COBRA v6.08)
 Data As Of 03/16/2005 3:23:41 PM, Report Created 03/16/2005 3:23:46 PM

Department : Army
 Scenario File : J:\Technical SDC\Candidate Recommendations\USA0227\USA-0227 14 Mar 05.CBR
 Option Pkg Name: Close Natick Soldier Systems Center
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Base	Personnel			
	Start*	Finish*	Change	%Change
SOLDIER SYSTEMS CENT	1,376	0	-1,376	-100%
ABERDEEN	12,869	13,874	1,005	8%
BASE X (ARMY)	6,348	6,356	8	0%
BELVOIR	14,205	14,120	-85	-1%
TOTAL	34,798	34,350	-448	-1%

Base	Square Footage				
	Start	Finish	Change	%Change	Chg/Per
SOLDIER SYSTEMS CENT	924,000	0	-924,000	-100%	671
ABERDEEN	14,280,000	14,779,280	499,280	3%	497
BASE X (ARMY)	6,388,460	6,389,460	1,000	0%	125
BELVOIR	12,025,000	12,011,000	-14,000	0%	165
TOTAL	33,617,460	33,179,740	-437,720	-1%	977

Base	Base Operations Support (2005\$)				
	Start*	Finish*	Change	%Change	Chg/Per
SOLDIER SYSTEMS CENT	7,351,966	0	-7,351,966	-100%	5,343
ABERDEEN	91,985,396	95,969,936	3,984,540	4%	3,965
BASE X (ARMY)	22,654,632	22,665,497	10,865	0%	1,358
BELVOIR	11,641,999	11,601,669	-40,330	0%	474
TOTAL	133,633,993	130,237,103	-3,396,890	-3%	7,582

Base	Sustainment (2005\$)				
	Start	Finish	Change	%Change	Chg/Per
SOLDIER SYSTEMS CENT	1,686,570	0	-1,686,570	-100%	1,226
ABERDEEN	16,952,410	17,550,316	597,906	4%	595
BASE X (ARMY)	12,146,048	12,148,282	2,234	0%	279
BELVOIR	27,467,850	27,435,871	-31,979	0%	376
TOTAL	58,252,878	57,134,469	-1,118,409	-2%	2,496

Base	Recapitalization (2005\$)				
	Start	Finish	Change	%Change	Chg/Per
SOLDIER SYSTEMS CENT	2,065,477	0	-2,065,477	-100%	1,501
ABERDEEN	27,621,610	29,752,353	2,130,743	8%	2,120
BASE X (ARMY)	14,044,679	14,046,843	2,164	0%	270
BELVOIR	19,878,161	19,855,018	-23,143	0%	272
TOTAL	63,609,926	63,654,213	44,287	0%	-99

COBRA PERSONNEL/SF/SUSTAINMENT/RECAP/BOS DELTAS REPORT (COBRA v6.08) - Page 2
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Base	Sustain + Recap + BOS (2005\$)				
	Start	Finish	Change	%Change	Chg/Per
SOLDIER SYSTEMS CENT	11,104,013	0	-11,104,013	-100%	8,070
ABERDEEN	136,559,416	143,272,606	6,713,190	5%	6,680
BASE X (ARMY)	48,845,358	48,860,622	15,263	0%	1,908
BELVOIR	58,988,010	58,892,558	-95,452	0%	1,123
TOTAL	255,496,797	251,025,786	-4,471,012	-2%	9,980

Base	Plant Replacement Value (2005\$)				
	Start	Finish	Change	%Change	Chg/Per
SOLDIER SYSTEMS CENT	212,744,140	0	-212,744,140	-100%	154,610
ABERDEEN	2,845,025,800	3,064,492,331	219,466,531	8%	218,375
BASE X (ARMY)	1,165,708,330	1,165,887,939	179,609	0%	22,451
BELVOIR	2,047,450,590	2,045,066,864	-2,383,726	0%	28,044
TOTAL	6,270,928,860	6,275,447,134	4,518,274	0%	-10,085

* "Start" and "Finish" values for Personnel and BOS both include the Programmed Installation Population (non-BRAC) Changes, so that only changes attributable to the BRAC action are reflected in the "Change" columns of this report.

TOTAL COBRA REALIGNMENT DETAIL REPORT (COBRA v6.08) - Page 1/15
 Data As Of 03/16/2005 3:23:41 PM, Report Created 03/16/2005 3:23:47 PM

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ONE-TIME COSTS -----(\$K)-----	2006 ----	2007 ----	2008 ----	2009 ----	2010 ----	2011 ----	Total -----
CONSTRUCTION							
MILCON	18,322	0	203,573	0	0	0	221,895
O&M							
CIV SALARY							
Civ RIF	0	0	0	3,808	6,600	0	10,408
Civ Retire	0	0	0	1,086	265	0	1,352
CIV MOVING							
Per Diem	0	0	0	2,837	0	0	2,837
POV Miles	0	0	0	51	0	0	51
Home Purch	0	0	0	21,427	0	0	21,427
HHG	0	0	0	1,892	0	0	1,892
Misc	0	0	0	720	0	0	720
House Hunt	0	0	0	1,804	0	0	1,804
PPP	0	0	0	1,349	1,917	0	3,266
RITA	0	0	0	7,515	0	0	7,515
FREIGHT							
Packing	0	0	0	51	0	0	51
Freight	0	0	0	1,811	0	0	1,811
Vehicles	0	0	0	24	0	0	24
Unemployment	0	0	0	280	485	0	765
OTHER							
Info Tech	0	0	1,315	165	0	0	1,480
Prog Manage	2,064	1,548	1,161	871	642	0	6,285
Supt Contrac	0	0	0	0	0	0	0
Mothball	0	0	0	137	35	0	173
1-Time Move	0	0	0	10,600	0	0	10,600
MIL PERSONNEL							
MIL MOVING							
Per Diem	0	0	0	12	0	0	12
POV Miles	0	0	0	7	0	0	7
HHG	0	0	0	151	0	0	151
Misc	0	0	0	103	0	0	103
OTHER							
Elim PCS	0	0	0	36	118	0	154
OTHER							
HAP / RSE	0	0	0	0	0	0	0
Environmental	550	0	0	0	0	0	550
Misn Contract	0	0	0	0	0	0	0
1-Time Other	0	0	17,914	939	0	0	18,853
TOTAL ONE-TIME	20,935	1,548	223,963	57,679	10,063	0	314,188

TOTAL COBRA REALIGNMENT DETAIL REPORT (COBRA v6.08) - Page 2/15
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RECURRINGCOSTS -----(\$K)-----	2006 ----	2007 ----	2008 ----	2009 ----	2010 ----	2011 ----	Total -----	Beyond -----
O&M								
Sustainment	0	0	600	600	600	600	2,400	600
Recap	0	0	2,133	2,133	2,133	2,133	8,532	2,133
BOS	0	0	0	3,995	3,995	3,995	11,986	3,995
Civ Salary	0	0	0	1,306	2,612	2,612	6,529	2,612
TRICARE	0	0	0	816	816	816	2,447	816
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 Activ	0	0	0	0	0	0	0	0
Misc Recur	0	0	0	0	0	0	0	0
TOTAL RECUR	0	0	2,733	8,850	10,156	10,156	31,895	10,156
TOTAL COST	20,935	1,548	226,696	66,529	20,219	10,156	346,084	10,156
ONE-TIME SAVES -----(\$K)-----	2006 ----	2007 ----	2008 ----	2009 ----	2010 ----	2011 ----	Total -----	Beyond -----
CONSTRUCTION								
MILCON	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	253	0	0	253	
OTHER								
Environmental	0	0	0	0	0	0	0	
1-Time Other	0	0	0	0	0	0	0	
TOTAL ONE-TIME	0	0	0	253	0	0	253	
RECURRINGSAVES -----(\$K)-----	2006 ----	2007 ----	2008 ----	2009 ----	2010 ----	2011 ----	Total -----	Beyond -----
FAM HOUSE OPS	0	0	0	0	0	0	0	0
O&M								
Sustainment	0	0	0	1,361	1,465	1,465	4,292	1,718
Recap	2,065	2,065	2,065	2,089	2,089	2,089	12,462	2,089
BOS	0	0	0	721	7,392	7,392	15,506	7,392
Civ Salary	0	0	0	7,636	23,375	32,634	63,645	32,634
MIL PERSONNEL								
Off Salary	0	0	0	0	62	125	187	125
Enl Salary	0	0	0	371	1,854	2,966	5,191	2,966
House Allow	0	0	0	575	664	664	1,903	664
OTHER								
Procurement	0	0	0	0	0	0	0	0
Mission Activ	0	0	0	0	0	0	0	0
Misc Recur	0	0	0	0	0	0	0	0
TOTAL RECUR	2,065	2,065	2,065	12,753	36,901	47,335	103,186	47,588
TOTAL SAVINGS	2,065	2,065	2,065	13,005	36,901	47,335	103,439	47,588

TOTAL COBRA REALIGNMENT DETAIL REPORT (COBRA v6.08) - Page 3/15
 Data As Of 03/16/2005 3:23:41 PM, Report Created 03/16/2005 3:23:48 PM

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ONE-TIME NET	2006	2007	2008	2009	2010	2011	Total	
-----(\$K)-----	----	----	----	----	----	----	-----	
CONSTRUCTION								
MILCON	18,322	0	203,573	0	0	0	221,895	
O&M								
Civ Retir/RIF	0	0	0	4,895	6,865	0	11,760	
Civ Moving	0	0	0	39,482	1,917	0	41,399	
Info Tech	0	0	1,315	165	0	0	1,480	
Other	2,064	1,548	1,161	11,888	1,162	0	17,823	
MIL PERSONNEL								
Mil Moving	0	0	0	57	118	0	176	
OTHER								
HAP / RSE	0	0	0	0	0	0	0	
Environmental	550	0	0	0	0	0	550	
Misn Contract	0	0	0	0	0	0	0	
1-Time Other	0	0	17,914	939	0	0	18,853	
TOTAL ONE-TIME	20,935	1,548	223,963	57,426	10,063	0	313,386	
RECURRING NET								
-----(\$K)-----	----	----	----	----	----	----	-----	-----
FAM HOUSE OPS	0	0	0	0	0	0	0	0
O&M								
Sustainment	0	0	600	-760	-865	-865	-1,891	-1,118
Recap	-2,065	-2,065	67	44	44	44	-3,931	44
BOS	0	0	0	3,274	-3,397	-3,397	-3,519	-3,397
Civ Salary	0	0	0	-6,330	-20,763	-30,022	-57,115	-30,022
TRICARE	0	0	0	816	816	816	2,447	816
MIL PERSONNEL								
Mil Salary	0	0	0	-371	-1,916	-3,091	-5,379	-3,091
House Allow	0	0	0	-575	-664	-664	-1,903	-664
OTHER								
Procurement	0	0	0	0	0	0	0	0
Mission Activ	0	0	0	0	0	0	0	0
Misc Recur	0	0	0	0	0	0	0	0
TOTAL RECUR	-2,065	-2,065	667	-3,902	-26,745	-37,179	-71,291	-37,432
TOTAL NET COST	18,870	-518	224,631	53,523	-16,682	-37,179	242,645	-37,432

Department : Army
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Base: SOLDIER SYSTEMS CENT, MA (25526)	2006	2007	2008	2009	2010	2011	Total
ONE-TIME COSTS	2006	2007	2008	2009	2010	2011	Total
-----(\$K)-----	----	----	----	----	----	----	-----
CONSTRUCTION							
MILCON	0	0	0	0	0	0	0
O&M							
CIV SALARY							
Civ RIFs	0	0	0	3,512	6,600	0	10,112
Civ Retire	0	0	0	1,012	265	0	1,277
CIV MOVING							
Per Diem	0	0	0	2,645	0	0	2,645
POV Miles	0	0	0	50	0	0	50
Home Purch	0	0	0	20,071	0	0	20,071
HHG	0	0	0	1,800	0	0	1,800
Misc	0	0	0	670	0	0	670
House Hunt	0	0	0	1,690	0	0	1,690
PPP	0	0	0	1,242	1,917	0	3,159
RITA	0	0	0	7,035	0	0	7,035
FREIGHT							
Packing	0	0	0	47	0	0	47
Freight	0	0	0	1,787	0	0	1,787
Vehicles	0	0	0	24	0	0	24
Unemployment	0	0	0	258	485	0	743
OTHER							
Info Tech	0	0	0	152	0	0	152
Prog Manage	2,028	1,521	1,141	856	642	0	6,188
Supt Contrac	0	0	0	0	0	0	0
Mothball	0	0	0	131	35	0	166
1-Time Move	0	0	0	10,600	0	0	10,600
MIL PERSONNEL							
MIL MOVING							
Per Diem	0	0	0	12	0	0	12
POV Miles	0	0	0	7	0	0	7
HHG	0	0	0	136	0	0	136
Misc	0	0	0	92	0	0	92
OTHER							
Elim PCS	0	0	0	32	118	0	150
OTHER							
HAP / RSE	0	0	0	0	0	0	0
Environmental	550	0	0	0	0	0	550
Misn Contract	0	0	0	0	0	0	0
1-Time Other	0	0	0	939	0	0	939
TOTAL ONE-TIME	2,578	1,521	1,141	54,802	10,063	0	70,105

Department : Army
 Scenario File : J:\Technical SDC\Candidate Recommendations\USA0227\USA-0227 14 Mar 05.CBR
 Option Pkg Name: Close Natick Soldier Systems Center
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Base: SOLDIER SYSTEMS CENT, MA (25526)								
RECURRINGCOSTS	2006	2007	2008	2009	2010	2011	Total	Beyond
-----(\$K)-----	----	----	----	----	----	----	-----	-----
O&M								
Sustainment	0	0	0	0	0	0	0	0
Recap	0	0	0	0	0	0	0	0
BOS	0	0	0	0	0	0	0	0
Civ Salary	0	0	0	0	0	0	0	0
TRICARE	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 Activ	0	0	0	0	0	0	0	0
Misc Recur	0	0	0	0	0	0	0	0
TOTAL RECUR	0	0	0	0	0	0	0	0
TOTAL COSTS	2,578	1,521	1,141	54,802	10,063	0	70,105	0
ONE-TIME SAVES								
-----(\$K)-----	----	----	----	----	----	----	Total	-----
CONSTRUCTION								
MILCON	0	0	0	0	0	0	0	0
O&M								
1-Time Move	0	0	0	0	0	0	0	0
MIL PERSONNEL								
Mil Moving	0	0	0	212	0	0	212	0
OTHER								
Environmental	0	0	0	0	0	0	0	0
1-Time Other	0	0	0	0	0	0	0	0
TOTAL ONE-TIME	0	0	0	212	0	0	212	0
RECURRINGSAVES								
-----(\$K)-----	----	----	----	----	----	----	Total	-----
FAM HOUSE OPS	0	0	0	0	0	0	0	0
O&M								
Sustainment	0	0	0	1,329	1,433	1,433	4,196	1,686
Recap	2,065	2,065	2,065	2,065	2,065	2,065	12,393	2,065
BOS	0	0	0	681	7,352	7,352	15,385	7,352
Civ Salary	0	0	0	6,032	21,324	30,584	57,941	30,584
MIL PERSONNEL								
Off Salary	0	0	0	0	62	125	187	125
Enl Salary	0	0	0	329	1,771	2,884	4,985	2,884
House Allow	0	0	0	397	485	485	1,367	485
OTHER								
Procurement	0	0	0	0	0	0	0	0
Mission Activ	0	0	0	0	0	0	0	0
Misc Recur	0	0	0	0	0	0	0	0
TOTAL RECUR	2,065	2,065	2,065	10,834	34,495	44,929	96,454	45,182
TOTAL SAVINGS	2,065	2,065	2,065	11,046	34,495	44,929	96,666	45,182

Department : Army
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 Option Pkg Name: Close Natick Soldier Systems Center
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Base: SOLDIER SYSTEMS CENT, MA (25526)								
ONE-TIME NET	2006	2007	2008	2009	2010	2011	Total	
-----(\$K)-----	----	----	----	----	----	----	-----	
CONSTRUCTION								
MILCON	0	0	0	0	0	0	0	
O&M								
Civ Retir/RIF	0	0	0	4,524	6,865	0	11,389	
Civ Moving	0	0	0	37,063	1,917	0	38,980	
Info Tech	0	0	0	152	0	0	152	
Other	2,028	1,521	1,141	11,845	1,162	0	17,697	
MIL PERSONNEL								
Mil Moving	0	0	0	67	118	0	186	
OTHER								
HAP / RSE	0	0	0	0	0	0	0	
Environmental	550	0	0	0	0	0	550	
Misn Contract	0	0	0	0	0	0	0	
1-Time Other	0	0	0	939	0	0	939	
TOTAL ONE-TIME	2,578	1,521	1,141	54,590	10,063	0	69,893	
RECURRING NET								
-----(\$K)-----	2006	2007	2008	2009	2010	2011	Total	Beyond
-----(\$K)-----	----	----	----	----	----	----	-----	-----
FAM HOUSE OPS	0	0	0	0	0	0	0	0
O&M								
Sustainment	0	0	0	-1,329	-1,433	-1,433	-4,196	-1,686
Recap	-2,065	-2,065	-2,065	-2,065	-2,065	-2,065	-12,393	-2,065
BOS	0	0	0	-681	-7,352	-7,352	-15,385	-7,352
Civ Salary	0	0	0	-6,032	-21,324	-30,584	-57,941	-30,584
TRICARE	0	0	0	0	0	0	0	0
MIL PERSONNEL								
Mil Salary	0	0	0	-329	-1,834	-3,009	-5,173	-3,009
House Allow	0	0	0	-397	-485	-485	-1,367	-485
OTHER								
Procurement	0	0	0	0	0	0	0	0
Mission Activ	0	0	0	0	0	0	0	0
Misc Recur	0	0	0	0	0	0	0	0
TOTAL RECUR	-2,065	-2,065	-2,065	-10,834	-34,495	-44,929	-96,454	-45,182
TOTAL NET COST	513	-544	-924	43,756	-24,432	-44,929	-26,561	-45,182

Department : Army
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 Option Pkg Name: Close Natick Soldier Systems Center
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Base: ABERDEEN, MD (24004)	2006	2007	2008	2009	2010	2011	Total
ONE-TIME COSTS	-----	-----	-----	-----	-----	-----	-----
-----(\$K)-----	-----	-----	-----	-----	-----	-----	-----
CONSTRUCTION							
MILCON	18,305	0	203,394	0	0	0	221,699
O&M							
CIV SALARY							
Civ RIFs	0	0	0	0	0	0	0
Civ Retire	0	0	0	0	0	0	0
CIV MOVING							
Per Diem	0	0	0	0	0	0	0
POV Miles	0	0	0	0	0	0	0
Home Purch	0	0	0	0	0	0	0
HHG	0	0	0	0	0	0	0
Misc	0	0	0	0	0	0	0
House Hunt	0	0	0	0	0	0	0
PPP	0	0	0	0	0	0	0
RITA	0	0	0	0	0	0	0
FREIGHT							
Packing	0	0	0	0	0	0	0
Freight	0	0	0	0	0	0	0
Vehicles	0	0	0	0	0	0	0
Unemployment	0	0	0	0	0	0	0
OTHER							
Info Tech	0	0	1,315	0	0	0	1,315
Prog Manage	0	0	0	0	0	0	0
Supt Contrac	0	0	0	0	0	0	0
Mothball	0	0	0	0	0	0	0
1-Time Move	0	0	0	0	0	0	0
MIL PERSONNEL							
MIL MOVING							
Per Diem	0	0	0	0	0	0	0
POV Miles	0	0	0	0	0	0	0
HHG	0	0	0	0	0	0	0
Misc	0	0	0	0	0	0	0
OTHER							
Elim PCS	0	0	0	0	0	0	0
OTHER							
HAP / RSE	0	0	0	0	0	0	0
Environmental	0	0	0	0	0	0	0
Misn Contract	0	0	0	0	0	0	0
1-Time Other	0	0	17,914	0	0	0	17,914
TOTAL ONE-TIME	18,305	0	222,623	0	0	0	240,928

Department : Army
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 Option Pkg Name: Close Natick Soldier Systems Center
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Base: ABERDEEN, MD (24004)								
RECURRINGCOSTS	2006	2007	2008	2009	2010	2011	Total	Beyond
-----(\$K)-----	----	----	----	----	----	----	-----	-----
O&M								
Sustainment	0	0	598	598	598	598	2,392	598
Recap	0	0	2,131	2,131	2,131	2,131	8,523	2,131
BOS	0	0	0	3,984	3,984	3,984	11,954	3,984
Civ Salary	0	0	0	1,306	2,612	2,612	6,529	2,612
TRICARE	0	0	0	816	816	816	2,447	816
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 Activ	0	0	0	0	0	0	0	0
Misc Recur	0	0	0	0	0	0	0	0
TOTAL RECUR	0	0	2,729	8,835	10,141	10,141	31,845	10,141
TOTAL COSTS	18,305	0	225,351	8,835	10,141	10,141	272,774	10,141
ONE-TIME SAVES								
-----(\$K)-----	----	----	----	----	----	----	Total	
CONSTRUCTION								
MILCON	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								
Environmental	0	0	0	0	0	0	0	
1-Time Other	0	0	0	0	0	0	0	
TOTAL ONE-TIME	0	0	0	0	0	0	0	
RECURRINGSAVES								
-----(\$K)-----	----	----	----	----	----	----	Total	Beyond
FAM HOUSE OPS	0	0	0	0	0	0	0	0
O&M								
Sustainment	0	0	0	0	0	0	0	0
Recap	0	0	0	0	0	0	0	0
BOS	0	0	0	0	0	0	0	0
Civ Salary	0	0	0	1,138	1,138	1,138	3,413	1,138
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								
Procurement	0	0	0	0	0	0	0	0
Mission Activ	0	0	0	0	0	0	0	0
Misc Recur	0	0	0	0	0	0	0	0
TOTAL RECUR	0	0	0	1,138	1,138	1,138	3,413	1,138
TOTAL SAVINGS	0	0	0	1,138	1,138	1,138	3,413	1,138

Department : Army
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 Option Pkg Name: Close Natick Soldier Systems Center
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Base: ABERDEEN, MD (24004)								
ONE-TIME NET	2006	2007	2008	2009	2010	2011	Total	
-----(\$K)-----	----	----	----	----	----	----	-----	
CONSTRUCTION								
MILCON	18,305	0	203,394	0	0	0	221,699	
O&M								
Civ Retir/RIF	0	0	0	0	0	0	0	
Civ Moving	0	0	0	0	0	0	0	
Info Tech	0	0	1,315	0	0	0	1,315	
Other	0	0	0	0	0	0	0	
MIL PERSONNEL								
Mil Moving	0	0	0	0	0	0	0	
OTHER								
HAP / RSE	0	0	0	0	0	0	0	
Environmental	0	0	0	0	0	0	0	
Misn Contract	0	0	0	0	0	0	0	
1-Time Other	0	0	17,914	0	0	0	17,914	
TOTAL ONE-TIME	18,305	0	222,623	0	0	0	240,928	
RECURRING NET								
-----(\$K)-----	2006	2007	2008	2009	2010	2011	Total	Beyond
-----(\$K)-----	----	----	----	----	----	----	-----	-----
FAM HOUSE OPS	0	0	0	0	0	0	0	0
O&M								
Sustainment	0	0	598	598	598	598	2,392	598
Recap	0	0	2,131	2,131	2,131	2,131	8,523	2,131
BOS	0	0	0	3,984	3,984	3,984	11,954	3,984
Civ Salary	0	0	0	168	1,474	1,474	3,116	1,474
TRICARE	0	0	0	816	816	816	2,447	816
MIL PERSONNEL								
Mil Salary	0	0	0	0	0	0	0	0
House Allow	0	0	0	0	0	0	0	0
OTHER								
Procurement	0	0	0	0	0	0	0	0
Mission Activ	0	0	0	0	0	0	0	0
Misc Recur	0	0	0	0	0	0	0	0
TOTAL RECUR	0	0	2,729	7,697	9,003	9,003	28,432	9,003
TOTAL NET COST	18,305	0	225,351	7,697	9,003	9,003	269,360	9,003

Department : Army
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Base: BASE X (ARMY), US (XArmy)	2006	2007	2008	2009	2010	2011	Total
ONE-TIME COSTS	-----	-----	-----	-----	-----	-----	-----
-----(\$K)-----	-----	-----	-----	-----	-----	-----	-----
CONSTRUCTION							
MILCON	16	0	180	0	0	0	196
O&M							
CIV SALARY							
Civ RIFs	0	0	0	0	0	0	0
Civ Retire	0	0	0	0	0	0	0
CIV MOVING							
Per Diem	0	0	0	0	0	0	0
POV Miles	0	0	0	0	0	0	0
Home Purch	0	0	0	0	0	0	0
HHG	0	0	0	0	0	0	0
Misc	0	0	0	0	0	0	0
House Hunt	0	0	0	0	0	0	0
PPP	0	0	0	0	0	0	0
RITA	0	0	0	0	0	0	0
FREIGHT							
Packing	0	0	0	0	0	0	0
Freight	0	0	0	0	0	0	0
Vehicles	0	0	0	0	0	0	0
Unemployment	0	0	0	0	0	0	0
OTHER							
Info Tech	0	0	0	0	0	0	0
Prog Manage	0	0	0	0	0	0	0
Supt Contrac	0	0	0	0	0	0	0
Mothball	0	0	0	0	0	0	0
1-Time Move	0	0	0	0	0	0	0
MIL PERSONNEL							
MIL MOVING							
Per Diem	0	0	0	0	0	0	0
POV Miles	0	0	0	0	0	0	0
HHG	0	0	0	0	0	0	0
Misc	0	0	0	0	0	0	0
OTHER							
Elim PCS	0	0	0	0	0	0	0
OTHER							
HAP / RSE	0	0	0	0	0	0	0
Environmental	0	0	0	0	0	0	0
Misn Contract	0	0	0	0	0	0	0
1-Time Other	0	0	0	0	0	0	0
TOTAL ONE-TIME	16	0	180	0	0	0	196

Department : Army
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 Option Pkg Name: Close Natick Soldier Systems Center
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Base: BASE X (ARMY), US (XArmy)	2006	2007	2008	2009	2010	2011	Total	Beyond
RECURRINGCOSTS								
-----(\$K)-----	----	----	----	----	----	----	-----	-----
O&M								
Sustainment	0	0	2	2	2	2	9	2
Recap	0	0	2	2	2	2	9	2
BOS	0	0	0	11	11	11	32	11
Civ Salary	0	0	0	0	0	0	0	0
TRICARE	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 Activ	0	0	0	0	0	0	0	0
Misc Recur	0	0	0	0	0	0	0	0
TOTAL RECUR	0	0	4	15	15	15	50	15
TOTAL COSTS	16	0	184	15	15	15	246	15
ONE-TIME SAVES	2006	2007	2008	2009	2010	2011	Total	
-----(\$K)-----	----	----	----	----	----	----	-----	
CONSTRUCTION								
MILCON	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								
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	2006	2007	2008	2009	2010	2011	Total	Beyond
-----(\$K)-----	----	----	----	----	----	----	-----	-----
FAM HOUSE OPS	0	0	0	0	0	0	0	0
O&M								
Sustainment	0	0	0	0	0	0	0	0
Recap	0	0	0	0	0	0	0	0
BOS	0	0	0	0	0	0	0	0
Civ Salary	0	0	0	19	19	19	57	19
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								
Procurement	0	0	0	0	0	0	0	0
Mission Activ	0	0	0	0	0	0	0	0
Misc Recur	0	0	0	0	0	0	0	0
TOTAL RECUR	0	0	0	19	19	19	57	19
TOTAL SAVINGS	0	0	0	19	19	19	57	19

Department : Army
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Base: BASE X (ARMY), US (XArmy)	2006	2007	2008	2009	2010	2011	Total	
ONE-TIME NET								
-----(\$K)-----	----	----	----	----	----	----	-----	
CONSTRUCTION								
MILCON	16	0	180	0	0	0	196	
O&M								
Civ Retir/RIF	0	0	0	0	0	0	0	
Civ Moving	0	0	0	0	0	0	0	
Info Tech	0	0	0	0	0	0	0	
Other	0	0	0	0	0	0	0	
MIL PERSONNEL								
Mil Moving	0	0	0	0	0	0	0	
OTHER								
HAP / RSE	0	0	0	0	0	0	0	
Environmental	0	0	0	0	0	0	0	
Misn Contract	0	0	0	0	0	0	0	
1-Time Other	0	0	0	0	0	0	0	
TOTAL ONE-TIME	16	0	180	0	0	0	196	
RECURRING NET	2006	2007	2008	2009	2010	2011	Total	Beyond
-----(\$K)-----	----	----	----	----	----	----	-----	-----
FAM HOUSE OPS	0	0	0	0	0	0	0	0
O&M								
Sustainment	0	0	2	2	2	2	9	2
Recap	0	0	2	2	2	2	9	2
BOS	0	0	0	11	11	11	32	11
Civ Salary	0	0	0	-19	-19	-19	-57	-19
TRICARE	0	0	0	0	0	0	0	0
MIL PERSONNEL								
Mil Salary	0	0	0	0	0	0	0	0
House Allow	0	0	0	0	0	0	0	0
OTHER								
Procurement	0	0	0	0	0	0	0	0
Mission Activ	0	0	0	0	0	0	0	0
Misc Recur	0	0	0	0	0	0	0	0
TOTAL RECUR	0	0	4	-4	-4	-4	-7	-4
TOTAL NET COST	16	0	184	-4	-4	-4	188	-4

Department : Army
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Base: BELVOIR, VA (51062)	2006	2007	2008	2009	2010	2011	Total
ONE-TIME COSTS	-----	-----	-----	-----	-----	-----	-----
-----(\$K)-----	-----	-----	-----	-----	-----	-----	-----
CONSTRUCTION							
MILCON	0	0	0	0	0	0	0
O&M							
CIV SALARY							
Civ RIFs	0	0	0	297	0	0	297
Civ Retire	0	0	0	74	0	0	74
CIV MOVING							
Per Diem	0	0	0	192	0	0	192
POV Miles	0	0	0	1	0	0	1
Home Purch	0	0	0	1,356	0	0	1,356
HHG	0	0	0	92	0	0	92
Misc	0	0	0	50	0	0	50
House Hunt	0	0	0	115	0	0	115
PPP	0	0	0	106	0	0	106
RITA	0	0	0	480	0	0	480
FREIGHT							
Packing	0	0	0	4	0	0	4
Freight	0	0	0	23	0	0	23
Vehicles	0	0	0	0	0	0	0
Unemployment	0	0	0	22	0	0	22
OTHER							
Info Tech	0	0	0	12	0	0	12
Prog Manage	35	27	20	15	0	0	97
Supt Contrac	0	0	0	0	0	0	0
Mothball	0	0	0	6	0	0	6
1-Time Move	0	0	0	0	0	0	0
MIL PERSONNEL							
MIL MOVING							
Per Diem	0	0	0	0	0	0	0
POV Miles	0	0	0	0	0	0	0
HHG	0	0	0	15	0	0	15
Misc	0	0	0	11	0	0	11
OTHER							
Elim PCS	0	0	0	4	0	0	4
OTHER							
HAP / RSE	0	0	0	0	0	0	0
Environmental	0	0	0	0	0	0	0
Misn Contract	0	0	0	0	0	0	0
1-Time Other	0	0	0	0	0	0	0
TOTAL ONE-TIME	35	27	20	2,877	0	0	2,959

Department : Army
 Scenario File : J:\Technical SDC\Candidate Recommendations\USA0227\USA-0227 14 Mar 05.CBR
 Option Pkg Name: Close Natick Soldier Systems Center
 Std Fctrs File : C:\CHuo WS Data\COBRA\Army COBRA 6.08\BRAC2005.SFF

Base: BELVOIR, VA (51062)	2006	2007	2008	2009	2010	2011	Total	Beyond
RECURRINGCOSTS	-----(\$K)-----	-----	-----	-----	-----	-----	-----	-----
O&M								
Sustainment	0	0	0	0	0	0	0	0
Recap	0	0	0	0	0	0	0	0
BOS	0	0	0	0	0	0	0	0
Civ Salary	0	0	0	0	0	0	0	0
TRICARE	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 Activ	0	0	0	0	0	0	0	0
Misc Recur	0	0	0	0	0	0	0	0
TOTAL RECUR	0	0	0	0	0	0	0	0
TOTAL COSTS	35	27	20	2,877	0	0	2,959	0
ONE-TIME SAVES	-----(\$K)-----	-----	-----	-----	-----	-----	Total	
CONSTRUCTION								
MILCON	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	41	0	0	41	
OTHER								
Environmental	0	0	0	0	0	0	0	
1-Time Other	0	0	0	0	0	0	0	
TOTAL ONE-TIME	0	0	0	41	0	0	41	
RECURRINGSAVES	-----(\$K)-----	-----	-----	-----	-----	-----	Total	Beyond
FAM HOUSE OPS	0	0	0	0	0	0	0	0
O&M								
Sustainment	0	0	0	32	32	32	96	32
Recap	0	0	0	23	23	23	69	23
BOS	0	0	0	40	40	40	121	40
Civ Salary	0	0	0	447	893	893	2,234	893
MIL PERSONNEL								
Off Salary	0	0	0	0	0	0	0	0
Enl Salary	0	0	0	41	82	82	206	82
House Allow	0	0	0	178	178	178	535	178
OTHER								
Procurement	0	0	0	0	0	0	0	0
Mission Activ	0	0	0	0	0	0	0	0
Misc Recur	0	0	0	0	0	0	0	0
TOTAL RECUR	0	0	0	762	1,250	1,250	3,261	1,250
TOTAL SAVINGS	0	0	0	803	1,250	1,250	3,302	1,250

Department : Army
 Scenario File : J:\Technical SDC\Candidate Recommendations\USA0227\USA-0227 14 Mar 05.CBR
 Option Pkg Name: Close Natick Soldier Systems Center
 Std Fctrs File : C:\CHuo WS Data\COBRA\Army COBRA 6.08\BRAC2005.SFF

Base: BELVOIR, VA (51062)								
ONE-TIME NET	2006	2007	2008	2009	2010	2011	Total	
-----(\$K)-----	----	----	----	----	----	----	-----	
CONSTRUCTION								
MILCON	0	0	0	0	0	0	0	
O&M								
Civ Retir/RIF	0	0	0	371	0	0	371	
Civ Moving	0	0	0	2,419	0	0	2,419	
Info Tech	0	0	0	12	0	0	12	
Other	35	27	20	43	0	0	126	
MIL PERSONNEL								
Mil Moving	0	0	0	-10	0	0	-10	
OTHER								
HAP / RSE	0	0	0	0	0	0	0	
Environmental	0	0	0	0	0	0	0	
Misn Contract	0	0	0	0	0	0	0	
1-Time Other	0	0	0	0	0	0	0	
TOTAL ONE-TIME	35	27	20	2,836	0	0	2,918	
RECURRING NET								
-----(\$K)-----	2006	2007	2008	2009	2010	2011	Total	Beyond
-----(\$K)-----	----	----	----	----	----	----	-----	-----
FAM HOUSE OPS	0	0	0	0	0	0	0	0
O&M								
Sustainment	0	0	0	-32	-32	-32	-96	-32
Recap	0	0	0	-23	-23	-23	-69	-23
BOS	0	0	0	-40	-40	-40	-121	-40
Civ Salary	0	0	0	-447	-893	-893	-2,234	-893
TRICARE	0	0	0	0	0	0	0	0
MIL PERSONNEL								
Mil Salary	0	0	0	-41	-82	-82	-206	-82
House Allow	0	0	0	-178	-178	-178	-535	-178
OTHER								
Procurement	0	0	0	0	0	0	0	0
Mission Activ	0	0	0	0	0	0	0	0
Misc Recur	0	0	0	0	0	0	0	0
TOTAL RECUR	0	0	0	-762	-1,250	-1,250	-3,261	-1,250
TOTAL NET COST	35	27	20	2,074	-1,250	-1,250	-343	-1,250

COBRA ECONOMIC IMPACT REPORT (COBRA v6.08)

Data As Of 03/16/2005 3:23:41 PM, Report Created 03/16/2005 3:23:45 PM

Department : Army
 Scenario File : J:\Technical SDC\Candidate Recommendations\USA0227\USA-0227 14 Mar 05.CBR
 Option Pkg Name: Close Natick Soldier Systems Center
 Std Fctrs File : C:\CHuo WS Data\COBRA\Army COBRA 6.08\BRAC2005.SFF

SOLDIER SYSTEMS CENT, MA (25526)

	2006	2007	2008	2009	2010	2011	Total
Jobs Gained-Mil	0	0	0	0	0	0	0
Jobs Lost-Mil	0	0	0	100	28	0	128
NET CHANGE-Mil	0	0	0	-100	-28	0	-128
Jobs Gained-Civ	0	0	0	0	0	0	0
Jobs Lost-Civ	0	0	0	984	264	0	1,248
NET CHANGE-Civ	0	0	0	-984	-264	0	-1,248
Jobs Gained-Stu	0	0	0	0	0	0	0
Jobs Lost-Stu	0	0	0	0	0	0	0
NET CHANGE-Stu	0	0	0	0	0	0	0

ABERDEEN, MD (24004)

	2006	2007	2008	2009	2010	2011	Total
Jobs Gained-Mil	0	0	0	103	0	0	103
Jobs Lost-Mil	0	0	0	0	0	0	0
NET CHANGE-Mil	0	0	0	103	0	0	103
Jobs Gained-Civ	0	0	0	902	0	0	902
Jobs Lost-Civ	0	0	0	0	0	0	0
NET CHANGE-Civ	0	0	0	902	0	0	902
Jobs Gained-Stu	0	0	0	0	0	0	0
Jobs Lost-Stu	0	0	0	0	0	0	0
NET CHANGE-Stu	0	0	0	0	0	0	0

BASE X (ARMY), US (XArmy)

	2006	2007	2008	2009	2010	2011	Total
Jobs Gained-Mil	0	0	0	0	0	0	0
Jobs Lost-Mil	0	0	0	0	0	0	0
NET CHANGE-Mil	0	0	0	0	0	0	0
Jobs Gained-Civ	0	0	0	8	0	0	8
Jobs Lost-Civ	0	0	0	0	0	0	0
NET CHANGE-Civ	0	0	0	8	0	0	8
Jobs Gained-Stu	0	0	0	0	0	0	0
Jobs Lost-Stu	0	0	0	0	0	0	0
NET CHANGE-Stu	0	0	0	0	0	0	0

BELVOIR, VA (51062)

	2006	2007	2008	2009	2010	2011	Total
Jobs Gained-Mil	0	0	0	0	0	0	0
Jobs Lost-Mil	0	0	0	12	0	0	12
NET CHANGE-Mil	0	0	0	-12	0	0	-12
Jobs Gained-Civ	0	0	0	0	0	0	0
Jobs Lost-Civ	0	0	0	73	0	0	73
NET CHANGE-Civ	0	0	0	-73	0	0	-73
Jobs Gained-Stu	0	0	0	0	0	0	0
Jobs Lost-Stu	0	0	0	0	0	0	0
NET CHANGE-Stu	0	0	0	0	0	0	0

COBRA INPUT DATA REPORT (COBRA v6.08)

Data As Of 03/16/2005 3:23:41 PM, Report Created 03/16/2005 3:23:44 PM

Department : Army
 Scenario File : J:\Technical SDC\Candidate Recommendations\USA0227\USA-0227 14 Mar 05.CBR
 Option Pkg Name: Close Natick Soldier Systems Center
 Std Fctrs File : C:\CHuo WS Data\COBRA\Army COBRA 6.08\BRAC2005.SFF

INPUT SCREEN ONE - GENERAL SCENARIO INFORMATION

Model Year One : FY 2006
 Model does Time-Phasing of Construction/Shutdown: Yes

Base Name, ST (Code)	Strategy:
SOLDIER SYSTEMS CENT, MA (25526)	Closes in FY 2010
ABERDEEN, MD (24004)	Realignment
BASE X (ARMY), US (XArmy)	Realignment
BELVOIR, VA (51062)	Realignment

INPUT SCREEN TWO - DISTANCE TABLE
 (Only shows distances where personnel or equipment are moving)

Point A:	Point B:	Distance:
SOLDIER SYSTEMS CENT, MA (25526)	ABERDEEN, MD (24004)	364 mi
SOLDIER SYSTEMS CENT, MA (25526)	BASE X (ARMY), US (XArmy)	1,254 mi
ABERDEEN, MD (24004)	BELVOIR, VA (51062)	88 mi

INPUT SCREEN THREE - MOVEMENT TABLE

Transfers from SOLDIER SYSTEMS CENT, MA (25526) to ABERDEEN, MD (24004)

	2006	2007	2008	2009	2010	2011
Officer Positions:	0	0	0	25	0	0
Enlisted Positions:	0	0	0	67	0	0
Civilian Positions:	0	0	0	804	0	0
Student Positions:	0	0	0	0	0	0
NonVeh Missn Eqpt(tons):	0	0	0	4,029	0	0
Suppt Eqpt (tons):	0	0	0	854	0	0
Mil Light Vehic (tons):	0	0	0	27	0	0
Heavy/Spec Vehic (tons):	0	0	0	0	0	0

Transfers from SOLDIER SYSTEMS CENT, MA (25526) to BASE X (ARMY), US (XArmy)

	2006	2007	2008	2009	2010	2011
Officer Positions:	0	0	0	0	0	0
Enlisted Positions:	0	0	0	0	0	0
Civilian Positions:	0	0	0	8	0	0
Student Positions:	0	0	0	0	0	0
NonVeh Missn Eqpt(tons):	0	0	0	0	0	0
Suppt Eqpt (tons):	0	0	0	0	0	0
Mil Light Vehic (tons):	0	0	0	0	0	0
Heavy/Spec Vehic (tons):	0	0	0	0	0	0

COBRA INPUT DATA REPORT (COBRA v6.08) - Page 2
 Data As Of 03/16/2005 3:23:41 PM, Report Created 03/16/2005 3:23:44 PM

Department : Army
 Scenario File : J:\Technical SDC\Candidate Recommendations\USA0227\USA-0227 14 Mar 05.CBR
 Option Pkg Name: Close Natick Soldier Systems Center
 Std Fctrs File : C:\CHuo WS Data\COBRA\Army COBRA 6.08\BRAC2005.SFF

INPUT SCREEN THREE - MOVEMENT TABLE

Transfers from BELVOIR, VA (51062) to ABERDEEN, MD (24004)

	2006	2007	2008	2009	2010	2011
	----	----	----	----	----	----
Officer Positions:	0	0	0	9	0	0
Enlisted Positions:	0	0	0	2	0	0
Civilian Positions:	0	0	0	60	0	0
Student Positions:	0	0	0	0	0	0
NonVeh Missn Eqpt(tons):	0	0	0	0	0	0
Suppt Eqpt (tons):	0	0	0	0	0	0
Mil Light Vehic (tons):	0	0	0	0	0	0
Heavy/Spec Vehic (tons):	0	0	0	0	0	0

INPUT SCREEN FOUR - STATIC BASE INFORMATION

Name: SOLDIER SYSTEMS CENT, MA (25526)

Total Officer Employees:	26	Base Service (for BOS/Sust):	Army
Total Enlisted Employees:	102	Total Sustainment(\$K/Year):	2,571
Total Student Employees:	0	Sustain Payroll (\$K/Year):	884
Total Civilian Employees:	1,251	BOS Non-Payroll (\$K/Year):	7,354
Accomp Mil not Receiving BAH:	71.0%	BOS Payroll (\$K/Year):	12,973
Officer Housing Units Avail:	1	Family Housing (\$K/Year):	233
Enlisted Housing Units Avail:	10	Installation PRV(\$K):	212,744
Starting Facilities(KSF):	924	Svc/Agcy Recap Rate (Years):	103
Officer BAH (\$/Month):	2,215	Homeowner Assistance Program:	No
Enlisted BAH (\$/Month):	1,835		
Civ Locality Pay Factor:	1.170	TRICARE	In-Pat Out-Pat
Area Cost Factor:	1.15		Admits Visits Prescrip
Per Diem Rate (\$/Day):	243	CostFactor	0.00 0.00 0.00
Freight Cost (\$/Ton/Mile):	0.33	Actv MTF	0 25 0
Vehicle Cost (\$/Lift/Mile):	4.84	Actv Purch	0 6,372
Latitude:	42.283330	Retiree	0 594 0
Longitude:	-71.350000	Retiree65+	0 19 0

Name: ABERDEEN, MD (24004)

Total Officer Employees:	416	Base Service (for BOS/Sust):	Army
Total Enlisted Employees:	1,588	Total Sustainment(\$K/Year):	33,839
Total Student Employees:	2,831	Sustain Payroll (\$K/Year):	16,887
Total Civilian Employees:	6,854	BOS Non-Payroll (\$K/Year):	87,307
Accomp Mil not Receiving BAH:	52.0%	BOS Payroll (\$K/Year):	110,565
Officer Housing Units Avail:	54	Family Housing (\$K/Year):	2,635
Enlisted Housing Units Avail:	234	Installation PRV(\$K):	2,845,026
Starting Facilities(KSF):	14,280	Svc/Agcy Recap Rate (Years):	103
Officer BAH (\$/Month):	1,264	Homeowner Assistance Program:	No
Enlisted BAH (\$/Month):	884		
Civ Locality Pay Factor:	1.147	TRICARE	In-Pat Out-Pat
Area Cost Factor:	0.88		Admits Visits Prescrip
Per Diem Rate (\$/Day):	127	CostFactor	7,573.00 145.00 22.67
Freight Cost (\$/Ton/Mile):	0.33	Actv MTF	0 60,704 52,876
Vehicle Cost (\$/Lift/Mile):	4.84	Actv Purch	318 7,561
Latitude:	39.491670	Retiree	0 12,723 30,748
Longitude:	-76.136110	Retiree65+	0 2,992 27,218

COBRA INPUT DATA REPORT (COBRA v6.08) - Page 3
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Department : Army
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 Option Pkg Name: Close Natick Soldier Systems Center
 Std Fctrs File : C:\CHuo WS Data\COBRA\Army COBRA 6.08\BRAC2005.SFF

INPUT SCREEN FOUR - STATIC BASE INFORMATION

Name: BASE X (ARMY), US (XArmy)

Total Officer Employees:	519	Base Service (for BOS/Sust):	Army
Total Enlisted Employees:	2,836	Total Sustainment(\$K/Year):	14,139
Total Student Employees:	1,189	Sustain Payroll (\$K/Year):	1,993
Total Civilian Employees:	1,841	BOS Non-Payroll (\$K/Year):	22,705
Accomp Mil not Receiving BAH:	14.0%	BOS Payroll (\$K/Year):	26,990
Officer Housing Units Avail:	7	Family Housing (\$K/Year):	889
Enlisted Housing Units Avail:	28	Installation PRV(\$K):	1,165,708
Starting Facilities(KSF):	6,388	Svc/Agcy Recap Rate (Years):	83
Officer BAH (\$/Month):	1,376	Homeowner Assistance Program:	No
Enlisted BAH (\$/Month):	1,025		
Civ Locality Pay Factor:	1.130	TRICARE	In-Pat Out-Pat
Area Cost Factor:	1.06		Admits Visits Prescrip
Per Diem Rate (\$/Day):	137	CostFactor	3,023.56 53.81 13.34
Freight Cost (\$/Ton/Mile):	0.33	Actv MTF	631 69,897 55,713
Vehicle Cost (\$/Lift/Mile):	4.84	Actv Purch	182 5,751
Latitude:	0.000000	Retiree	177 18,165 39,595
Longitude:	0.000000	Retiree65+	145 8,953 36,694

Name: BELVOIR, VA (51062)

Total Officer Employees:	1,585	Base Service (for BOS/Sust):	Army
Total Enlisted Employees:	1,699	Total Sustainment(\$K/Year):	27,468
Total Student Employees:	393	Sustain Payroll (\$K/Year):	0
Total Civilian Employees:	10,526	BOS Non-Payroll (\$K/Year):	11,641
Accomp Mil not Receiving BAH:	0.0%	BOS Payroll (\$K/Year):	47,707
Officer Housing Units Avail:	0	Family Housing (\$K/Year):	0
Enlisted Housing Units Avail:	0	Installation PRV(\$K):	2,047,450
Starting Facilities(KSF):	12,025	Svc/Agcy Recap Rate (Years):	103
Officer BAH (\$/Month):	2,006	Homeowner Assistance Program:	No
Enlisted BAH (\$/Month):	1,415		
Civ Locality Pay Factor:	1.147	TRICARE	In-Pat Out-Pat
Area Cost Factor:	1.02		Admits Visits Prescrip
Per Diem Rate (\$/Day):	201	CostFactor	10,586.00 94.00 28.15
Freight Cost (\$/Ton/Mile):	0.33	Actv MTF	2,212 190,340 153,436
Vehicle Cost (\$/Lift/Mile):	4.84	Actv Purch	86 8,689
Latitude:	38.683330	Retiree	620 82,951 143,920
Longitude:	-77.133330	Retiree65+	399 38,978 127,451

Department : Army
 Scenario File : J:\Technical SDC\Candidate Recommendations\USA0227\USA-0227 14 Mar 05.CBR
 Option Pkg Name: Close Natick Soldier Systems Center
 Std Fctrs File : C:\CHuo WS Data\COBRA\Army COBRA 6.08\BRAC2005.SFF

INPUT SCREEN FIVE - DYNAMIC BASE INFORMATION

Name:	SOLDIER SYSTEMS CENT, MA (25526)					
	2006	2007	2008	2009	2010	2011
	----	----	----	----	----	----
1-Time Unique Cost (\$K):	0	0	0	939	0	0
1-Time Unique Save (\$K):	0	0	0	0	0	0
1-Time Moving Cost (\$K):	0	0	0	10,600	0	0
1-Time Moving Save (\$K):	0	0	0	0	0	0
Env Non-MilCon Reqd(\$K):	550	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
Misn Contract Start(\$K):	0	0	0	0	0	0
Misn Contract Term (\$K):	0	0	0	0	0	0
Supt Contract Term (\$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
One-Time IT Costs (\$K):	0	0	0	0	0	0
Construction Schedule(%):	0%	0%	0%	0%	0%	0%
Shutdown Schedule (%):	0%	0%	0%	0%	0%	0%
Misn Milcon Avoidnc(\$K):	0	0	0	0	0	0
Procurement Avoidnc(\$K):	0	0	0	0	0	0
MTF Closure Action:	None Fac ShDn(KSF):			924	FH ShDn:	0.000%

Name:	ABERDEEN, MD (24004)					
	2006	2007	2008	2009	2010	2011
	----	----	----	----	----	----
1-Time Unique Cost (\$K):	0	0	17,914	0	0	0
1-Time Unique Save (\$K):	0	0	0	0	0	0
1-Time Moving Cost (\$K):	0	0	0	0	0	0
1-Time Moving Save (\$K):	0	0	0	0	0	0
Env Non-MilCon Reqd(\$K):	0	0	0	0	0	0
Activ Mission Cost (\$K):	0	0	0	0	0	0
Activ Mission Save (\$K):	0	0	0	0	0	0
Misn Contract Start(\$K):	0	0	0	0	0	0
Misn Contract Term (\$K):	0	0	0	0	0	0
Supt Contract Term (\$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
One-Time IT Costs (\$K):	0	0	1,315	0	0	0
Construction Schedule(%):	0%	0%	0%	0%	0%	0%
Shutdown Schedule (%):	0%	0%	0%	0%	0%	0%
Misn Milcon Avoidnc(\$K):	0	0	0	0	0	0
Procurement Avoidnc(\$K):	0	0	0	0	0	0
MTF Closure Action:	None Fac ShDn(KSF):			0	FH ShDn:	0.000%

Department : Army
 Scenario File : J:\Technical SDC\Candidate Recommendations\USA0227\USA-0227 14 Mar 05.CBR
 Option Pkg Name: Close Natick Soldier Systems Center
 Std Fctrs File : C:\CHuo WS Data\COBRA\Army COBRA 6.08\BRAC2005.SFF

INPUT SCREEN FIVE - DYNAMIC BASE INFORMATION

Name: BASE X (ARMY), US (XArmy)	2006	2007	2008	2009	2010	2011
	----	----	----	----	----	----
1-Time Unique Cost (\$K):	0	0	0	0	0	0
1-Time Unique Save (\$K):	0	0	0	0	0	0
1-Time Moving Cost (\$K):	0	0	0	0	0	0
1-Time Moving Save (\$K):	0	0	0	0	0	0
Env Non-MilCon Reqd(\$K):	0	0	0	0	0	0
Activ Mission Cost (\$K):	0	0	0	0	0	0
Activ Mission Save (\$K):	0	0	0	0	0	0
Misn Contract Start(\$K):	0	0	0	0	0	0
Misn Contract Term (\$K):	0	0	0	0	0	0
Supt Contract Term (\$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
One-Time IT Costs (\$K):	0	0	0	0	0	0
Construction Schedule(%):	0%	0%	0%	0%	0%	0%
Shutdown Schedule (%):	0%	0%	0%	0%	0%	0%
Misn Milcon Avoidnc(\$K):	0	0	0	0	0	0
Procurement Avoidnc(\$K):	0	0	0	0	0	0
MTF Closure Action:	None	Fac	ShDn(KSF):	0	FH	ShDn: 0.000%

Name: BELVOIR, VA (51062)	2006	2007	2008	2009	2010	2011
	----	----	----	----	----	----
1-Time Unique Cost (\$K):	0	0	0	0	0	0
1-Time Unique Save (\$K):	0	0	0	0	0	0
1-Time Moving Cost (\$K):	0	0	0	0	0	0
1-Time Moving Save (\$K):	0	0	0	0	0	0
Env Non-MilCon Reqd(\$K):	0	0	0	0	0	0
Activ Mission Cost (\$K):	0	0	0	0	0	0
Activ Mission Save (\$K):	0	0	0	0	0	0
Misn Contract Start(\$K):	0	0	0	0	0	0
Misn Contract Term (\$K):	0	0	0	0	0	0
Supt Contract Term (\$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
One-Time IT Costs (\$K):	0	0	0	0	0	0
Construction Schedule(%):	0%	0%	0%	0%	0%	0%
Shutdown Schedule (%):	0%	0%	0%	0%	0%	0%
Misn Milcon Avoidnc(\$K):	0	0	0	0	0	0
Procurement Avoidnc(\$K):	0	0	0	0	0	0
MTF Closure Action:	None	Fac	ShDn(KSF):	14	FH	ShDn: 0.000%

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INPUT SCREEN SIX - BASE PERSONNEL INFORMATION

Name: SOLDIER SYSTEMS CENT, MA (25526)

	2006	2007	2008	2009	2010	2011
	----	----	----	----	----	----
Off Scenario Change:	0	0	0	0	-1	0
Enl Scenario Change:	0	0	0	-8	-27	0
Civ Scenario Change:	0	0	0	-172	-264	0
Off Prog nonBRAC Change:	0	0	0	0	0	0
Enl Prog nonBRAC Change:	0	0	0	0	0	0
Civ Prog nonBRAC Change:	-1	-1	0	-1	0	0
Stu Prog nonBRAC Change:	0	0	0	0	0	0
Prog FH Privatization:	0%	0%	0%	0%	0%	0%

INPUT SCREEN SIX - BASE PERSONNEL INFORMATION

Name: ABERDEEN, MD (24004)

	2006	2007	2008	2009	2010	2011
	----	----	----	----	----	----
Off Scenario Change:	0	0	0	0	0	0
Enl Scenario Change:	0	0	0	0	0	0
Civ Scenario Change:	0	0	0	38	0	0
Off Prog nonBRAC Change:	0	0	0	0	0	0
Enl Prog nonBRAC Change:	0	0	0	0	0	0
Civ Prog nonBRAC Change:	1,174	-2	21	0	0	0
Stu Prog nonBRAC Change:	-31	18	0	0	0	0
Prog FH Privatization:	0%	0%	0%	0%	0%	0%

Name: BASE X (ARMY), US (XArmy)

	2006	2007	2008	2009	2010	2011
	----	----	----	----	----	----
Off Scenario Change:	0	0	0	0	0	0
Enl Scenario Change:	0	0	0	0	0	0
Civ Scenario Change:	0	0	0	0	0	0
Off Prog nonBRAC Change:	1	0	0	0	0	0
Enl Prog nonBRAC Change:	12	0	3	-3	0	0
Civ Prog nonBRAC Change:	12	0	-2	1	0	0
Stu Prog nonBRAC Change:	-25	12	0	-48	0	0
Prog FH Privatization:	30%	1%	0%	0%	0%	0%

Name: BELVOIR, VA (51062)

	2006	2007	2008	2009	2010	2011
	----	----	----	----	----	----
Off Scenario Change:	0	0	0	0	0	0
Enl Scenario Change:	0	0	0	-1	0	0
Civ Scenario Change:	0	0	0	-13	0	0
Off Prog nonBRAC Change:	0	0	3	0	0	0
Enl Prog nonBRAC Change:	0	0	3	0	0	0
Civ Prog nonBRAC Change:	-6	-2	0	-3	0	0
Stu Prog nonBRAC Change:	6	1	0	0	0	0
Prog FH Privatization:	100%	0%	0%	0%	0%	0%

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INPUT SCREEN SEVEN - BASE MILITARY CONSTRUCTION INFORMATION

Name: ABERDEEN, MD (24004)

FAC	UM	New MilCon	Rehab MilCon	TotCost(\$K)	FPG Con CF	FPG Sust CF
3102	SF	92,650	0 Default	43,867	256.80	4.24
3101	SF	11,747	0 Default	8,585	193.57	2.76
3101	SF	16,476	0 Default	8,203	193.57	2.76
3101	SF	189,338	0 Default	116,602	193.57	2.76
3191	SF	60,277	0 Default	22,891	147.68	3.32
6100	SF	128,792	0 Default	0	138.78	2.52
8521	SY	38,250	0 Default	0	45.83	1.07
6100	SF	0	11,502 Amber	0	138.78	2.52

Name: BASE X (ARMY), US (XArmy)

FAC	UM	New MilCon	Rehab MilCon	TotCost(\$K)	FPG Con CF	FPG Sust CF
6100	SF	1,000	0 Default	0	138.78	2.52
8521	SY	280	0 Default	0	45.83	1.07

STANDARD FACTORS SCREEN ONE - PERSONNEL

SF File Descrip:	
Perc Officers Accompanied:	72.00% Priority Placement Program: 39.97%
Perc Enlisted Accompanied:	55.00% PPP Actions Involving PCS: 50.70%
Officer Salary(\$/Year): 124,971.93	Civilian PCS Costs (\$): 35,496.00
Enlisted Salary(\$/Year): 82,399.09	Home Sale Reimburse Rate: 10.00%
Civilian Salary(\$/Year): 59,959.18	Max Home Sale Reimburs(\$): 50,000.00
Avg Unemploy Cost(\$/Week): 272.90	Home Purch Reimburse Rate: 5.00%
Unemployment Eligibility(Weeks): 16	Max Home Purch Reimburs(\$): 25,000.00
Civilians Not Willing To Move: 6.00%	Civilian Homeowning Rate: 68.40%
Civilian Turnover Rate: 9.16%	HAP Home Value Reimburse Rate: 13.46%
Civilian Early Retire Rate: 8.10%	HAP Homeowner Receiving Rate: 18.44%
Civilian Regular Retire Rate: 1.67%	RSE Home Value Reimburse Rate: 0.00%
Civilian RIF Pay Factor: 86.32%	RSE Homeowner Receiving Rate: 0.00%
Civ Early Retire Pay Factor: 18.03%	

STANDARD FACTORS SCREEN TWO - FACILITIES

	Army	Navy	Air Force	Marines
Service Sustainment Rate	87.00%	93.00%	92.00%	97.00%
Unit Cost Adjustment (BOS)	10332.00	8879.00	3032.00	3904.00
Program Management Factor:	10.00	MilCon Site Prep Cost (\$/SF):	0.74	
Mothball (Close) (\$/SF):	0.18	MilCon Contingency Plan Rate:	5.00%	
Mothball (Deac/Realn) (\$/SF):	0.45	MilCon Design Rate (Medical):	13.00%	
Rehab vs. MilCon (Default):	47.00%	MilCon Design Rate (Other):	9.00%	
Rehab vs. MilCon (Red):	64.00%	MilCon SIOH Rate:	6.00%	
Rehab vs. MilCon (Amber):	29.00%	Discount Rate for NPV/Payback:	3.15%	

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STANDARD FACTORS SCREEN THREE - TRANSPORTATION

Material/Assigned Mil (Lb):	710	Storage-In-Transit (\$/Pers):	373.76
HHG Per Off Accomp (Lb):	15,290.00	POV Reimburse(\$/Mile):	0.20
HHG Per Enl Accomp (Lb):	9,204.00	Air Transport (\$/Pass Mile):	0.20
HHG Per Off Unaccomp (Lb):	13,712.00	IT Connect (\$/Person):	200.00
HHG Per Enl Unaccomp (Lb):	6,960.00	Misc Exp(\$/Direct Employee):	1,000.00
HHG Per Civilian (Lb):	18,000.00	Avg Mil Tour Length (Months):	30.02
Total HHG Cost (\$/100Lb):	8.78	One-Time Off PCS Cost(\$):	10,477.58
Equip Pack & Crate(\$/Ton):	180.67	One-Time Enl PCS Cost(\$):	3,998.52

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FOOTNOTES FOR SCREEN ONE

=====
Candidate Recommendation: Closes Natick Soldier Systems Center, realigns PEO Soldier at Fort Belvoir and moves these elements to Aberdeen Proving Ground (APG); this forms an Army Soldier and Biological Chemical Center at APG.

Consolidates Army RDT&E organizations to capitalize on technical synergy. Technology and LCM Synergy is needed for the Soldier Systems

Closes Natick; Realigns PEO Soldier at Fort Belvoir.

Army supported; TJCSG supported

Complements TECH 0032 (Chem Bio COE at APG) and Med 0056 (USARIEM moves to APG)

The Ordnance School remains at APG in this recommendation.

This version incorporates a 15% reduction in civilian authorizations for moving units due to consolidation efficiencies.

MILCON requirements also reduced by 15%, except for the previously resized Doriot Chamber facility, with subsequent reduction in the reported replacement facility costs.

Improves Military Value (by moving activities to a higher military value installation), and takes advantage of excess capacity at Aberdeen Proving Ground.

MVI: Aberdeen (18), Fort Belvoir (39), Natick (57)

FOOTNOTES FOR SCREEN THREE

=====
SSC:

Consolidation and efficiency savings of 15% for units moving from SSC or 50 civilians. Personnel moving reduced by these amounts.

Original movement data using 2003 ASIP authorizations moved 25 officers, 69 enlisted, and 802 civilians after eliminating 15% consolidation savings.

COBRA error report indicated SSC had -2 enlisted in 2010 and 2011, and +2 civilians in 2010 and 2011. These result from programmed ASIP changes between 2003 and 2009 when the move occurs.

Adjustments made to eliminate errors in personnel strength at SSC in 2009.

Reduced enlisted moved to Aberdeen from 69 to 67.

Increased civilians moved to Aberdeen from 802 to 804

Fort Belvoir:

Consolidation and efficiency savings of 15% for unit moving from Fort Belvoir equals 11 civilians. Personnel moving reduced to 9 officers, 2 enlisted, and 60 civilians.

FOOTNOTES FOR SCREEN FIVE

=====
One-time Unique cost on utilities estimated with TABS Support Utility Tool. \$17,914,231. Enter 100% in 2008.

One-time IT costs estimated with TABS IT Impact Tool. \$1,314,912.10. Enter 100% in 2008.

SSC reported Mission Contract Termination Costs of \$21,811K. Three years (2006-2009) should allow time for orderly end of contract without termination costs.

SSC reported Support Contract Termination Costs of \$11,957K. Three years should allow time for orderly end of contract without termination costs.

SSC reported one time moving costs of \$10,600K for specialized equipment. Accepted.

SSC reported Activity Mission costs of \$6,005K. TABS considered but did not accept this cost as partnerships are expected to continue at a new location.

SSC reported and expected loss of non-Army support cost of \$224026.3K. TABS considered but did

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not accept this cost as the contracts are expected to continue at the new location.

SSC reported 938.8K as one-time unique moving cost.

FOOTNOTES FOR SCREEN SIX

=====
The BASOPS model calculates no BASOPS personnel required for 8 people at BaseX.

SSC
1 officer, 35 enlisted, and 191 civilian BASOPS/Garrison authorizations are eliminated when the installation is closed. Eliminate 20% in 2009 (8 enlisted and 40 civilians) when the labs move out and the rest in 2010.
The 15% consolidation efficiency eliminates an additional 132 civilian authorizations. These are eliminated in 2009.

Belvoir:
The 15% consolidation efficiency eliminates 11 civilian authorizations from W6DSAA.
The BASOPS model calculates a reduction of 1 enlisted and 2 civilian authorizations at Fort Belvoir following the departure of 82 people.

Aberdeen
The BASOPS model calculates an increase of 38 civilian authorizations to support the people arriving from SSC and Belvoir.

FOOTNOTES FOR SCREEN SEVEN

=====
RPLANS calculated O-UPH of 4 SKF and Parking of 45 KSY to move selected SSC UICs and PEO Soldier from Belvoir to APG. O-UPH requirements will be satisfied with economy assets.

SSC identified specific requirements for the following facilities:
3102 ARIEM Biomedical Research Facility 109.0 KSF \$44.902M Facility size and cost based on MEDCOM request for replacement facilities and certified by SSC. Plus additional \$5.7M for category E equipment as per the MEDCOM DD 1391.
3101 Navy Human Systems Lab & Hydro Environmental Simulator 13.82 KSF \$10.1M
3101 Soldier Support Systems D&A Facilities 19.384 KSF \$9.65M
3101 NSC Human Systems Climactic Chamber & Labs 201.838 KSF \$171.33M
** Based on current utilization rates of 161 days per year for both chambers, one chamber can satisfy the requirement at the new location (161 x 2 = 322 days). SSC has reported PRV of \$100M for both chambers. Building one chamber would therefore cost half that or \$50M. Both chambers have a net size of 16.643 KSF. Eliminating one chamber and allowing 50% net to gross conversion reduces the building size by 12.5KSF. Using the same cost ratio of \$71M for 201,838 SF building of 189,338 SF should cost \$66.602M. Together these result in a replacement cost of \$116.602M for chamber and supporting facilities.
3191 NSC Material, Test & Lab/Fabrication Facilities 70.914 KSF \$26.93M
6100 General Administrative Facilities 151,520 SF Must be close to lab space since it supports lab functions.
Soldier test subjects can utilize existing E-UPH space on Aberdeen while conducting tests.
SSC facilities were reduced by 15% to match the similar reduction in personnel authorizations.
ARIEM 3102 from 109,000 to 92,650 SF, \$43,867K
Navy 3101 from 13,820 to 11,747 SF, \$8,585K
SSC D&A 3101 from 19,384 to 16,476 SF, \$8,203K
Doriot chamber 3101 retained at reduced size of 189,338 SF
NSC 3191 from 70,914 to 60,277 SF, \$22,891K
SSC 6100 from 151,520 to 128,792 SF
Parking 8521 45,000 to 38,250 SY

PEO Soldier personnel from Fort Belvoir can occupy existing admin space on Aberdeen. Close proximity to

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the labs is not critical.
Renovate office space 71 people x 162 sf/pn = 11,502 SF (assume amber condition).
RPLANS calculated BaseX requirements of 1 KSF Admin and 149 KSY Parking. Used 35 SY x 8 people
or 280 SY of parking space.

TOTAL COBRA MILITARY CONSTRUCTION ASSETS REPORT (COBRA v6.08)
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All values in 2005 Constant Dollars

Base Name	Total MilCon*	Milcon Cost Avoidance	Total Net Costs
SOLDIER SYSTEMS CENT	0	0	0
ABERDEEN	221,699,399	0	221,699,399
BASE X (ARMY)	195,774	0	195,774
BELVOIR	0	0	0
Totals:	221,895,173	0	221,895,173

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

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MilCon for Base: ABERDEEN, MD (24004)

All values in 2005 Constant Dollars (\$K)

FAC Title	UM	New MilCon	New Cost*	Using Rehab Type	Rehab Cost*	Total Cost*
3102 Medical Research Laboratory	SF	92,650	n/a**	0 Default	n/a**	43,867
3101 RDT&E Laboratory	SF	11,747	n/a**	0 Default	n/a**	8,585
3101 RDT&E Laboratory	SF	16,476	n/a**	0 Default	n/a**	8,203
3101 RDT&E Laboratory	SF	189,338	n/a**	0 Default	n/a**	116,602
3191 Miscellaneous Item and Equipment RDT&E Fa	SF	60,277	n/a**	0 Default	n/a**	22,891
6100 General Administrative Building	SF	128,792	19,186	0 Default	0	19,186
8521 Vehicle Parking, Surfaced	SY	38,250	1,871	0 Default	0	1,871
6100 General Administrative Building	SF	0	0	11,502 Amber	494	494
Total Construction Cost:						221,699
- Construction Cost Avoid:						0
Total Net Milcon Cost:						221,699

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

**No New Milcon / Rehabilitation Cost breakdown is available if Total Cost was entered by the user.

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MilCon for Base: BASE X (ARMY), US (XArmy)

All values in 2005 Constant Dollars (\$K)

FAC Title	UM	New MilCon	New Cost*	Using Rehab Rehab Type	Rehab Cost*	Total Cost*
6100 General Administrative Building	SF	1,000	179	0 Default	0	179
8521 Vehicle Parking, Surfaced	SY	280	16	0 Default	0	16
Total Construction Cost:						196
- Construction Cost Avoid:						0
Total Net Milcon Cost:						196

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

COBRA NET PRESENT VALUES REPORT (COBRA v6.08)

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Year	Cost(\$)	Adjusted Cost(\$)	NPV(\$)
----	-----	-----	-----
2006	18,869,959	18,579,600	18,579,600
2007	-517,614	-494,086	18,085,514
2008	224,631,020	207,872,313	225,957,827
2009	53,523,382	48,017,687	273,975,514
2010	-16,682,238	-14,509,177	259,466,337
2011	-37,179,428	-31,348,873	228,117,464
2012	-37,432,414	-30,598,337	197,519,127
2013	-37,432,414	-29,663,923	167,855,203
2014	-37,432,414	-28,758,045	139,097,158
2015	-37,432,414	-27,879,830	111,217,328
2016	-37,432,414	-27,028,435	84,188,893
2017	-37,432,414	-26,203,039	57,985,854
2018	-37,432,414	-25,402,849	32,583,005
2019	-37,432,414	-24,627,096	7,955,909
2020	-37,432,414	-23,875,032	-15,919,123
2021	-37,432,414	-23,145,935	-39,065,059
2022	-37,432,414	-22,439,103	-61,504,162
2023	-37,432,414	-21,753,857	-83,258,019
2024	-37,432,414	-21,089,537	-104,347,556
2025	-37,432,414	-20,445,503	-124,793,059

TOTAL COBRA ONE-TIME COST REPORT (COBRA v6.08) - Page 1/5
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(All values in 2005 Constant Dollars)

Category	Cost	Sub-Total
-----	----	-----
Construction		
Military Construction	221,895,173	
Total - Construction		221,895,173
Personnel		
Civilian RIF	10,408,534	
Civilian Early Retirement	1,351,737	
Eliminated Military PCS	154,424	
Unemployment	765,572	
Total - Personnel		12,680,267
Overhead		
Program Management Cost	6,285,016	
Support Contract Termination	0	
Mothball / Shutdown	172,620	
Total - Overhead		6,457,636
Moving		
Civilian Moving	36,247,378	
Civilian PPP	3,265,632	
Military Moving	273,913	
Freight	1,885,995	
Information Technologies	1,479,600	
One-Time Moving Costs	10,600,000	
Total - Moving		53,752,518
Other		
HAP / RSE	0	
Environmental Mitigation Costs	550,000	
Mission Contract Startup and Termination	0	
One-Time Unique Costs	18,852,800	
Total - Other		19,402,800

Total One-Time Costs		314,188,394

One-Time Savings		
Military Construction Cost Avoidances	0	
Military Moving	252,686	
One-Time Moving Savings	0	
Environmental Mitigation Savings	0	
One-Time Unique Savings	0	

Total One-Time Savings		252,686

Total Net One-Time Costs		313,935,708

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Base: SOLDIER SYSTEMS CENT, MA (25526)
 (All values in 2005 Constant Dollars)

Category	Cost	Sub-Total
-----	----	-----
Construction		
Military Construction	0	
Total - Construction		0
Personnel		
Civilian RIF	10,111,890	
Civilian Early Retirement	1,277,384	
Eliminated Military PCS	150,426	
Unemployment	743,317	
Total - Personnel		12,283,016
Overhead		
Program Management Cost	6,187,896	
Support Contract Termination	0	
Mothball / Shutdown	166,320	
Total - Overhead		6,354,216
Moving		
Civilian Moving	33,961,738	
Civilian PPP	3,159,144	
Military Moving	247,004	
Freight	1,858,761	
Information Technologies	152,400	
One-Time Moving Costs	10,600,000	
Total - Moving		49,979,047
Other		
HAP / RSE	0	
Environmental Mitigation Costs	550,000	
Mission Contract Startup and Termination	0	
One-Time Unique Costs	938,800	
Total - Other		1,488,800

Total One-Time Costs		70,105,080

One-Time Savings		
Military Construction Cost Avoidances	0	
Military Moving	211,795	
One-Time Moving Savings	0	
Environmental Mitigation Savings	0	
One-Time Unique Savings	0	

Total One-Time Savings		211,795

Total Net One-Time Costs		69,893,285

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Base: ABERDEEN, MD (24004)
 (All values in 2005 Constant Dollars)

Category	Cost	Sub-Total
-----	----	-----
Construction		
Military Construction	221,699,399	
Total - Construction		221,699,399
Personnel		
Civilian RIF	0	
Civilian Early Retirement	0	
Eliminated Military PCS	0	
Unemployment	0	
Total - Personnel		0
Overhead		
Program Management Cost	0	
Support Contract Termination	0	
Mothball / Shutdown	0	
Total - Overhead		0
Moving		
Civilian Moving	0	
Civilian PPP	0	
Military Moving	0	
Freight	0	
Information Technologies	1,315,000	
One-Time Moving Costs	0	
Total - Moving		1,315,000
Other		
HAP / RSE	0	
Environmental Mitigation Costs	0	
Mission Contract Startup and Termination	0	
One-Time Unique Costs	17,914,000	
Total - Other		17,914,000

Total One-Time Costs		240,928,399

One-Time Savings		
Military Construction Cost Avoidances	0	
Military Moving	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		240,928,399

COBRA ONE-TIME COST REPORT (COBRA v6.08) - Page 4/5
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Department : Army
 Scenario File : J:\Technical SDC\Candidate Recommendations\USA0227\USA-0227 14 Mar 05.CBR
 Option Pkg Name: Close Natick Soldier Systems Center
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Base: BASE X (ARMY), US (XArmy)
 (All values in 2005 Constant Dollars)

Category	Cost	Sub-Total
-----	----	-----
Construction		
Military Construction	195,774	
Total - Construction		195,774
Personnel		
Civilian RIF	0	
Civilian Early Retirement	0	
Eliminated Military PCS	0	
Unemployment	0	
Total - Personnel		0
Overhead		
Program Management Cost	0	
Support Contract Termination	0	
Mothball / Shutdown	0	
Total - Overhead		0
Moving		
Civilian Moving	0	
Civilian PPP	0	
Military Moving	0	
Freight	0	
Information Technologies	0	
One-Time Moving Costs	0	
Total - Moving		0
Other		
HAP / RSE	0	
Environmental Mitigation Costs	0	
Mission Contract Startup and Termination	0	
One-Time Unique Costs	0	
Total - Other		0

Total One-Time Costs		195,774

One-Time Savings		
Military Construction Cost Avoidances	0	
Military Moving	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		195,774

COBRA ONE-TIME COST REPORT (COBRA v6.08) - Page 5/5
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Department : Army
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 Option Pkg Name: Close Natick Soldier Systems Center
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Base: BELVOIR, VA (51062)
 (All values in 2005 Constant Dollars)

Category	Cost	Sub-Total
-----	----	-----
Construction		
Military Construction	0	
Total - Construction		0
Personnel		
Civilian RIF	296,644	
Civilian Early Retirement	74,353	
Eliminated Military PCS	3,998	
Unemployment	22,255	
Total - Personnel		397,251
Overhead		
Program Management Cost	97,120	
Support Contract Termination	0	
Mothball / Shutdown	6,300	
Total - Overhead		103,420
Moving		
Civilian Moving	2,285,640	
Civilian PPP	106,488	
Military Moving	26,909	
Freight	27,234	
Information Technologies	12,200	
One-Time Moving Costs	0	
Total - Moving		2,458,471
Other		
HAP / RSE	0	
Environmental Mitigation Costs	0	
Mission Contract Startup and Termination	0	
One-Time Unique Costs	0	
Total - Other		0

Total One-Time Costs		2,959,141

One-Time Savings		
Military Construction Cost Avoidances	0	
Military Moving	40,891	
One-Time Moving Savings	0	
Environmental Mitigation Savings	0	
One-Time Unique Savings	0	

Total One-Time Savings		40,891

Total Net One-Time Costs		2,918,250

COBRA SUSTAINMENT/RECAP/BOS/HOUSING CHANGE REPORT (COBRA v6.08)
 Data As Of 03/16/2005 3:23:41 PM, Report Created 03/16/2005 3:23:46 PM

Department : Army
 Scenario File : J:\Technical SDC\Candidate Recommendations\USA0227\USA-0227 14 Mar 05.CBR
 Option Pkg Name: Close Natick Soldier Systems Center
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Net Change(\$K)	2006	2007	2008	2009	2010	2011	Total	Beyond
Sustain Change	0	0	600	-760	-865	-865	-1,891	-1,118
Recap Change	-2,065	-2,065	67	44	44	44	-3,931	44
BOS Change	0	0	0	3,274	-3,397	-3,397	-3,519	-3,397
Housing Change	0	0	0	0	0	0	0	0
TOTAL CHANGES	-2,065	-2,065	667	2,558	-4,218	-4,218	-9,341	-4,471

SOLDIER SYSTEMS CENT, MA (25526)

Net Change(\$K)	2006	2007	2008	2009	2010	2011	Total	Beyond
Sustain Change	0	0	0	-1,329	-1,433	-1,433	-4,196	-1,686
Recap Change	-2,065	-2,065	-2,065	-2,065	-2,065	-2,065	-12,393	-2,065
BOS Change	0	0	0	-681	-7,352	-7,352	-15,385	-7,352
Housing Change	0	0	0	0	0	0	0	0
TOTAL CHANGES	-2,065	-2,065	-2,065	-4,075	-10,851	-10,851	-31,973	-11,104

ABERDEEN, MD (24004)

Net Change(\$K)	2006	2007	2008	2009	2010	2011	Total	Beyond
Sustain Change	0	0	598	598	598	598	2,392	598
Recap Change	0	0	2,131	2,131	2,131	2,131	8,523	2,131
BOS Change	0	0	0	3,984	3,984	3,984	11,954	3,984
Housing Change	0	0	0	0	0	0	0	0
TOTAL CHANGES	0	0	2,729	6,713	6,713	6,713	22,868	6,713

BASE X (ARMY), US (XArmy)

Net Change(\$K)	2006	2007	2008	2009	2010	2011	Total	Beyond
Sustain Change	0	0	2	2	2	2	9	2
Recap Change	0	0	2	2	2	2	9	2
BOS Change	0	0	0	11	11	11	32	11
Housing Change	0	0	0	0	0	0	0	0
TOTAL CHANGES	0	0	4	15	15	15	50	15

BELVOIR, VA (51062)

Net Change(\$K)	2006	2007	2008	2009	2010	2011	Total	Beyond
Sustain Change	0	0	0	-32	-32	-32	-96	-32
Recap Change	0	0	0	-23	-23	-23	-69	-23
BOS Change	0	0	0	-40	-40	-40	-121	-40
Housing Change	0	0	0	0	0	0	0	0
TOTAL CHANGES	0	0	0	-95	-95	-95	-286	-95

TOTAL COBRA PERSONNEL IMPACT REPORT (COBRA v6.08) - Page 1/5
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	Rate	2006	2007	2008	2009	2010	2011	Total
	----	----	----	----	----	----	----	----
CIVILIAN POSITIONS REALIGNING OUT		0	0	0	872	0	0	872
Early Retirement*	8.10%	0	0	0	71	0	0	71
Regular Retirement*	1.67%	0	0	0	14	0	0	14
Civilian Turnover*	9.16%	0	0	0	80	0	0	80
Civs Not Moving (RIFs)*	6.00%	0	0	0	52	0	0	52
Civilians Moving (the remainder)		0	0	0	655	0	0	655
Civilian Positions Available		0	0	0	217	0	0	217
CIVILIAN POSITIONS ELIMINATED		0	0	0	185	264	0	449
Early Retirement	8.10%	0	0	0	15	21	0	36
Regular Retirement	1.67%	0	0	0	3	4	0	7
Civilian Turnover	9.16%	0	0	0	17	24	0	41
Civs Not Moving (RIFs)*	6.00%	0	0	0	11	16	0	27
Priority Placement#	39.97%	0	0	0	74	106	0	180
Civilians Available to Move		0	0	0	65	93	0	158
Civilians Moving		0	0	0	65	0	0	65
Civilian RIFs (the remainder)		0	0	0	0	93	0	93
CIVILIAN POSITIONS REALIGNING IN		0	0	0	872	0	0	872
Civilians Moving		0	0	0	720	0	0	720
New Civilians Hired		0	0	0	152	0	0	152
Other Civilian Additions		0	0	0	38	0	0	38
TOTAL CIVILIAN EARLY RETIREMENTS		0	0	0	86	21	0	107
TOTAL CIVILIAN RIFs		0	0	0	63	109	0	172
TOTAL CIVILIAN PRIORITY PLACEMENTS#		0	0	0	74	106	0	180
TOTAL CIVILIAN NEW HIRES		0	0	0	190	0	0	190

* 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 PPP placements involving a PCS is 50.70%

COBRA PERSONNEL IMPACT REPORT (COBRA v6.08) - Page 2/5

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 Option Pkg Name: Close Natick Soldier Systems Center
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Base: SOLDIER SYSTEMS CENT, MA (25526)	Rate	2006	2007	2008	2009	2010	2011	Total
CIVILIAN POSITIONS REALIGNING OUT		0	0	0	812	0	0	812
Early Retirement*	8.10%	0	0	0	66	0	0	66
Regular Retirement*	1.67%	0	0	0	13	0	0	13
Civilian Turnover*	9.16%	0	0	0	75	0	0	75
Civs Not Moving (RIFs)*	6.00%	0	0	0	48	0	0	48
Civilians Moving (the remainder)		0	0	0	610	0	0	610
Civilian Positions Available		0	0	0	202	0	0	202
CIVILIAN POSITIONS ELIMINATED		0	0	0	172	264	0	436
Early Retirement	8.10%	0	0	0	14	21	0	35
Regular Retirement	1.67%	0	0	0	3	4	0	7
Civilian Turnover	9.16%	0	0	0	16	24	0	40
Civs Not Moving (RIFs)*	6.00%	0	0	0	10	16	0	26
Priority Placement#	39.97%	0	0	0	69	106	0	175
Civilians Available to Move		0	0	0	60	93	0	153
Civilians Moving		0	0	0	60	0	0	60
Civilian RIFs (the remainder)		0	0	0	0	93	0	93
CIVILIAN POSITIONS REALIGNING IN		0	0	0	0	0	0	0
Civilians Moving		0	0	0	0	0	0	0
New Civilians Hired		0	0	0	0	0	0	0
Other Civilian Additions		0	0	0	0	0	0	0
TOTAL CIVILIAN EARLY RETIRMENTS		0	0	0	80	21	0	101
TOTAL CIVILIAN RIFS		0	0	0	58	109	0	167
TOTAL CIVILIAN PRIORITY PLACEMENTS#		0	0	0	69	106	0	175
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 PPP placements involving a PCS is 50.70%

Department : Army
 Scenario File : J:\Technical SDC\Candidate Recommendations\USA0227\USA-0227 14 Mar 05.CBR
 Option Pkg Name: Close Natick Soldier Systems Center
 Std Fctrs File : C:\CHuo WS Data\COBRA\Army COBRA 6.08\BRAC2005.SFF

Base: ABERDEEN, MD (24004)	Rate	2006	2007	2008	2009	2010	2011	Total
CIVILIAN POSITIONS REALIGNING OUT		0	0	0	0	0	0	0
Early Retirement*	8.10%	0	0	0	0	0	0	0
Regular Retirement*	1.67%	0	0	0	0	0	0	0
Civilian Turnover*	9.16%	0	0	0	0	0	0	0
Civs Not Moving (RIFs)*	6.00%	0	0	0	0	0	0	0
Civilians Moving (the remainder)		0	0	0	0	0	0	0
Civilian Positions Available		0	0	0	0	0	0	0
CIVILIAN POSITIONS ELIMINATED		0	0	0	0	0	0	0
Early Retirement	8.10%	0	0	0	0	0	0	0
Regular Retirement	1.67%	0	0	0	0	0	0	0
Civilian Turnover	9.16%	0	0	0	0	0	0	0
Civs Not Moving (RIFs)*	6.00%	0	0	0	0	0	0	0
Priority Placement#	39.97%	0	0	0	0	0	0	0
Civilians Available to Move		0	0	0	0	0	0	0
Civilians Moving		0	0	0	0	0	0	0
Civilian RIFs (the remainder)		0	0	0	0	0	0	0
CIVILIAN POSITIONS REALIGNING IN		0	0	0	864	0	0	864
Civilians Moving		0	0	0	714	0	0	714
New Civilians Hired		0	0	0	150	0	0	150
Other Civilian Additions		0	0	0	38	0	0	38
TOTAL CIVILIAN EARLY RETIRMENTS		0	0	0	0	0	0	0
TOTAL CIVILIAN RIFS		0	0	0	0	0	0	0
TOTAL CIVILIAN PRIORITY PLACEMENTS#		0	0	0	0	0	0	0
TOTAL CIVILIAN NEW HIRES		0	0	0	188	0	0	188

* 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 PPP placements involving a PCS is 50.70%

Department : Army
 Scenario File : J:\Technical SDC\Candidate Recommendations\USA0227\USA-0227 14 Mar 05.CBR
 Option Pkg Name: Close Natick Soldier Systems Center
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Base: BASE X (ARMY), US (XArmy)Rate	2006	2007	2008	2009	2010	2011	Total
CIVILIAN POSITIONS REALIGNING OUT	0	0	0	0	0	0	0
Early Retirement*	8.10%	0	0	0	0	0	0
Regular Retirement*	1.67%	0	0	0	0	0	0
Civilian Turnover*	9.16%	0	0	0	0	0	0
Civs Not Moving (RIFs)*	6.00%	0	0	0	0	0	0
Civilians Moving (the remainder)		0	0	0	0	0	0
Civilian Positions Available		0	0	0	0	0	0
CIVILIAN POSITIONS ELIMINATED	0	0	0	0	0	0	0
Early Retirement	8.10%	0	0	0	0	0	0
Regular Retirement	1.67%	0	0	0	0	0	0
Civilian Turnover	9.16%	0	0	0	0	0	0
Civs Not Moving (RIFs)*	6.00%	0	0	0	0	0	0
Priority Placement#	39.97%	0	0	0	0	0	0
Civilians Available to Move		0	0	0	0	0	0
Civilians Moving		0	0	0	0	0	0
Civilian RIFs (the remainder)		0	0	0	0	0	0
CIVILIAN POSITIONS REALIGNING IN	0	0	0	8	0	0	8
Civilians Moving		0	0	6	0	0	6
New Civilians Hired		0	0	2	0	0	2
Other Civilian Additions		0	0	0	0	0	0
TOTAL CIVILIAN EARLY RETIRMENTS	0	0	0	0	0	0	0
TOTAL CIVILIAN RIFS	0	0	0	0	0	0	0
TOTAL CIVILIAN PRIORITY PLACEMENTS#	0	0	0	0	0	0	0
TOTAL CIVILIAN NEW HIRES	0	0	0	2	0	0	2

* 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 PPP placements involving a PCS is 50.70%

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 Option Pkg Name: Close Natick Soldier Systems Center
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Base: BELVOIR, VA (51062)	Rate	2006	2007	2008	2009	2010	2011	Total
CIVILIAN POSITIONS REALIGNING OUT		0	0	0	60	0	0	60
Early Retirement*	8.10%	0	0	0	5	0	0	5
Regular Retirement*	1.67%	0	0	0	1	0	0	1
Civilian Turnover*	9.16%	0	0	0	5	0	0	5
Civs Not Moving (RIFs)*	6.00%	0	0	0	4	0	0	4
Civilians Moving (the remainder)		0	0	0	45	0	0	45
Civilian Positions Available		0	0	0	15	0	0	15
CIVILIAN POSITIONS ELIMINATED		0	0	0	13	0	0	13
Early Retirement	8.10%	0	0	0	1	0	0	1
Regular Retirement	1.67%	0	0	0	0	0	0	0
Civilian Turnover	9.16%	0	0	0	1	0	0	1
Civs Not Moving (RIFs)*	6.00%	0	0	0	1	0	0	1
Priority Placement#	39.97%	0	0	0	5	0	0	5
Civilians Available to Move		0	0	0	5	0	0	5
Civilians Moving		0	0	0	5	0	0	5
Civilian RIFs (the remainder)		0	0	0	0	0	0	0
CIVILIAN POSITIONS REALIGNING IN		0	0	0	0	0	0	0
Civilians Moving		0	0	0	0	0	0	0
New Civilians Hired		0	0	0	0	0	0	0
Other Civilian Additions		0	0	0	0	0	0	0
TOTAL CIVILIAN EARLY RETIRMENTS		0	0	0	6	0	0	6
TOTAL CIVILIAN RIFS		0	0	0	5	0	0	5
TOTAL CIVILIAN PRIORITY PLACEMENTS#		0	0	0	5	0	0	5
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 PPP placements involving a PCS is 50.70%

COBRA TOTAL PERSONNEL SUMMARY REPORT (COBRA v6.08)

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TOTAL SCENARIO POPULATION (FY 2005):

Officers	Enlisted	Students	Civilians
2,546	6,225	4,413	20,472

TOTAL PROGRAMMED INSTALLATION (NON-BRAC) CHANGES, ENTIRE SCENARIO:

	2006	2007	2008	2009	2010	2011	Total
Officers	1	0	3	0	0	0	4
Enlisted	12	0	6	-3	0	0	15
Students	-50	31	0	-48	0	0	-67
Civilians	1,179	-5	19	-3	0	0	1,190
TOTAL	1,142	26	28	-54	0	0	1,142

TOTAL SCENARIO POPULATION (FY 2005, Prior to BRAC Action):

Officers	Enlisted	Students	Civilians
2,550	6,240	4,346	21,662

TOTAL PERSONNEL REALIGNMENTS, ENTIRE SCENARIO):

	2006	2007	2008	2009	2010	2011	Total
Officers	0	0	0	34	0	0	34
Enlisted	0	0	0	69	0	0	69
Students	0	0	0	0	0	0	0
Civilians	0	0	0	872	0	0	872
TOTAL	0	0	0	975	0	0	975

TOTAL SCENARIO POSITION CHANGES, ENTIRE SCENARIO:

	2006	2007	2008	2009	2010	2011	Total
Officers	0	0	0	0	-1	0	-1
Enlisted	0	0	0	-9	-27	0	-36
Civilians	0	0	0	-147	-264	0	-411
TOTAL	0	0	0	-156	-292	0	-448

TOTAL SCENARIO POPULATION (After BRAC Action):

Officers	Enlisted	Students	Civilians
2,549	6,204	4,346	21,251

COBRA PERSONNEL SUMMARY REPORT (COBRA v6.08) - Page 2
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PERSONNEL SUMMARY FOR: SOLDIER SYSTEMS CENT, MA (25526)

BASE POPULATION (FY 2005):

Officers	Enlisted	Students	Civilians
26	102	0	1,251

PROGRAMMED INSTALLATION (NON-BRAC) CHANGES FOR: SOLDIER SYSTEMS CENT, MA (25526)

	2006	2007	2008	2009	2010	2011	Total
Officers	0	0	0	0	0	0	0
Enlisted	0	0	0	0	0	0	0
Students	0	0	0	0	0	0	0
Civilians	-1	-1	0	-1	0	0	-3
TOTAL	-1	-1	0	-1	0	0	-3

BASE POPULATION (Prior to BRAC Action) FOR: SOLDIER SYSTEMS CENT, MA (25526)

Officers	Enlisted	Students	Civilians
26	102	0	1,248

PERSONNEL REALIGNMENTS:

To Base: ABERDEEN, MD (24004)

	2006	2007	2008	2009	2010	2011	Total
Officers	0	0	0	25	0	0	25
Enlisted	0	0	0	67	0	0	67
Students	0	0	0	0	0	0	0
Civilians	0	0	0	804	0	0	804
TOTAL	0	0	0	896	0	0	896

To Base: BASE X (ARMY), US (XArmy)

	2006	2007	2008	2009	2010	2011	Total
Officers	0	0	0	0	0	0	0
Enlisted	0	0	0	0	0	0	0
Students	0	0	0	0	0	0	0
Civilians	0	0	0	8	0	0	8
TOTAL	0	0	0	8	0	0	8

TOTAL PERSONNEL REALIGNMENTS (Out of SOLDIER SYSTEMS CENT, MA (25526)):

	2006	2007	2008	2009	2010	2011	Total
Officers	0	0	0	25	0	0	25
Enlisted	0	0	0	67	0	0	67
Students	0	0	0	0	0	0	0
Civilians	0	0	0	812	0	0	812
TOTAL	0	0	0	904	0	0	904

SCENARIO POSITION CHANGES FOR: SOLDIER SYSTEMS CENT, MA (25526)

	2006	2007	2008	2009	2010	2011	Total
Officers	0	0	0	0	-1	0	-1
Enlisted	0	0	0	-8	-27	0	-35
Civilians	0	0	0	-172	-264	0	-436
TOTAL	0	0	0	-180	-292	0	-472

BASE POPULATION (After BRAC Action) FOR: SOLDIER SYSTEMS CENT, MA (25526)

Officers	Enlisted	Students	Civilians
0	0	0	0

COBRA PERSONNEL SUMMARY REPORT (COBRA v6.08) - Page 3
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PERSONNEL SUMMARY FOR: ABERDEEN, MD (24004)

BASE POPULATION (FY 2005):

Officers	Enlisted	Students	Civilians
416	1,588	2,831	6,854

PROGRAMMED INSTALLATION (NON-BRAC) CHANGES FOR: ABERDEEN, MD (24004)

	2006	2007	2008	2009	2010	2011	Total
Officers	0	0	0	0	0	0	0
Enlisted	0	0	0	0	0	0	0
Students	-31	18	0	0	0	0	-13
Civilians	1,174	-2	21	0	0	0	1,193
TOTAL	1,143	16	21	0	0	0	1,180

BASE POPULATION (Prior to BRAC Action) FOR: ABERDEEN, MD (24004)

Officers	Enlisted	Students	Civilians
416	1,588	2,818	8,047

PERSONNEL REALIGNMENTS:

From Base: SOLDIER SYSTEMS CENT, MA (25526)

	2006	2007	2008	2009	2010	2011	Total
Officers	0	0	0	25	0	0	25
Enlisted	0	0	0	67	0	0	67
Students	0	0	0	0	0	0	0
Civilians	0	0	0	804	0	0	804
TOTAL	0	0	0	896	0	0	896

From Base: BELVOIR, VA (51062)

	2006	2007	2008	2009	2010	2011	Total
Officers	0	0	0	9	0	0	9
Enlisted	0	0	0	2	0	0	2
Students	0	0	0	0	0	0	0
Civilians	0	0	0	60	0	0	60
TOTAL	0	0	0	71	0	0	71

TOTAL PERSONNEL REALIGNMENTS (Into ABERDEEN, MD (24004)):

	2006	2007	2008	2009	2010	2011	Total
Officers	0	0	0	34	0	0	34
Enlisted	0	0	0	69	0	0	69
Students	0	0	0	0	0	0	0
Civilians	0	0	0	864	0	0	864
TOTAL	0	0	0	967	0	0	967

SCENARIO POSITION CHANGES FOR: ABERDEEN, MD (24004)

	2006	2007	2008	2009	2010	2011	Total
Officers	0	0	0	0	0	0	0
Enlisted	0	0	0	0	0	0	0
Civilians	0	0	0	38	0	0	38
TOTAL	0	0	0	38	0	0	38

BASE POPULATION (After BRAC Action) FOR: ABERDEEN, MD (24004)

Officers	Enlisted	Students	Civilians
450	1,657	2,818	8,949

COBRA PERSONNEL SUMMARY REPORT (COBRA v6.08) - Page 4
 Data As Of 03/16/2005 3:23:41 PM, Report Created 03/16/2005 3:23:45 PM

Department : Army
 Scenario File : J:\Technical SDC\Candidate Recommendations\USA0227\USA-0227 14 Mar 05.CBR
 Option Pkg Name: Close Natick Soldier Systems Center
 Std Fctrs File : C:\CHuo WS Data\COBRA\Army COBRA 6.08\BRAC2005.SFF

PERSONNEL SUMMARY FOR: BASE X (ARMY), US (XArmy)

BASE POPULATION (FY 2005):

Officers	Enlisted	Students	Civilians
519	2,836	1,189	1,841

PROGRAMMED INSTALLATION (NON-BRAC) CHANGES FOR: BASE X (ARMY), US (XArmy)

	2006	2007	2008	2009	2010	2011	Total
Officers	1	0	0	0	0	0	1
Enlisted	12	0	3	-3	0	0	12
Students	-25	12	0	-48	0	0	-61
Civilians	12	0	-2	1	0	0	11
TOTAL	0	12	1	-50	0	0	-37

BASE POPULATION (Prior to BRAC Action) FOR: BASE X (ARMY), US (XArmy)

Officers	Enlisted	Students	Civilians
520	2,848	1,128	1,852

PERSONNEL REALIGNMENTS:

From Base: SOLDIER SYSTEMS CENT, MA (25526)

	2006	2007	2008	2009	2010	2011	Total
Officers	0	0	0	0	0	0	0
Enlisted	0	0	0	0	0	0	0
Students	0	0	0	0	0	0	0
Civilians	0	0	0	8	0	0	8
TOTAL	0	0	0	8	0	0	8

TOTAL PERSONNEL REALIGNMENTS (Into BASE X (ARMY), US (XArmy)):

	2006	2007	2008	2009	2010	2011	Total
Officers	0	0	0	0	0	0	0
Enlisted	0	0	0	0	0	0	0
Students	0	0	0	0	0	0	0
Civilians	0	0	0	8	0	0	8
TOTAL	0	0	0	8	0	0	8

BASE POPULATION (After BRAC Action) FOR: BASE X (ARMY), US (XArmy)

Officers	Enlisted	Students	Civilians
520	2,848	1,128	1,860

PERSONNEL SUMMARY FOR: BELVOIR, VA (51062)

BASE POPULATION (FY 2005):

Officers	Enlisted	Students	Civilians
1,585	1,699	393	10,526

PROGRAMMED INSTALLATION (NON-BRAC) CHANGES FOR: BELVOIR, VA (51062)

	2006	2007	2008	2009	2010	2011	Total
Officers	0	0	3	0	0	0	3
Enlisted	0	0	3	0	0	0	3
Students	6	1	0	0	0	0	7
Civilians	-6	-2	0	-3	0	0	-11
TOTAL	0	-1	6	-3	0	0	2

BASE POPULATION (Prior to BRAC Action) FOR: BELVOIR, VA (51062)

Officers	Enlisted	Students	Civilians
1,588	1,702	400	10,515

COBRA PERSONNEL SUMMARY REPORT (COBRA v6.08) - Page 5

Data As Of 03/16/2005 3:23:41 PM, Report Created 03/16/2005 3:23:45 PM

Department : Army
 Scenario File : J:\Technical SDC\Candidate Recommendations\USA0227\USA-0227 14 Mar 05.CBR
 Option Pkg Name: Close Natick Soldier Systems Center
 Std Fctrs File : C:\CHuo WS Data\COBRA\Army COBRA 6.08\BRAC2005.SFF

PERSONNEL REALIGNMENTS:

To Base: ABERDEEN, MD (24004)

	2006	2007	2008	2009	2010	2011	Total
Officers	0	0	0	9	0	0	9
Enlisted	0	0	0	2	0	0	2
Students	0	0	0	0	0	0	0
Civilians	0	0	0	60	0	0	60
TOTAL	0	0	0	71	0	0	71

TOTAL PERSONNEL REALIGNMENTS (Out of BELVOIR, VA (51062)):

	2006	2007	2008	2009	2010	2011	Total
Officers	0	0	0	9	0	0	9
Enlisted	0	0	0	2	0	0	2
Students	0	0	0	0	0	0	0
Civilians	0	0	0	60	0	0	60
TOTAL	0	0	0	71	0	0	71

SCENARIO POSITION CHANGES FOR: BELVOIR, VA (51062)

	2006	2007	2008	2009	2010	2011	Total
Officers	0	0	0	0	0	0	0
Enlisted	0	0	0	-1	0	0	-1
Civilians	0	0	0	-13	0	0	-13
TOTAL	0	0	0	-14	0	0	-14

BASE POPULATION (After BRAC Action) FOR: BELVOIR, VA (51062)

Officers	Enlisted	Students	Civilians
1,579	1,699	400	10,442

INSTALLATION ENVIRONMENTAL PROFILE
ABERDEEN PROVING GROUND

1. Air Quality (DoD Question #210-225):

- a. The Clean Air Act (CAA) establishes health-based standards for air quality and all areas of the country are monitored to determine if they meet the standards. A major limiting factor is whether the installation is in an area designated nonattainment or maintenance (air quality is not meeting the standard) and is therefore subject to more stringent requirements, including the CAA General Conformity Rule. Conformity requires that any new emissions from military sources brought into the area must be offset by credits or accounted for in the State Implementation Plan (SIP) emissions budget. The criteria pollutants of concern include: CO, O₃ (1 hour & 8 Hour), and PM (PM₁₀, and PM_{2.5}). Installations in attainment areas are not restricted, while activities for installations in non-attainment areas may be restricted. Non-attainment areas are classified as to the degree of non-attainment: Marginal, Moderate, Serious, and in the case of O₃, Severe and Extreme. SIP Growth Allowances and Emission Reduction Credits are tools that can be used to accommodate increased emissions in a manner that conforms to a state's SIP. All areas of the country require operating permits if emissions from stationary sources exceed certain threshold amounts. Major sources already exceed the amount and are subject to permit requirements. Synthetic minor means the base has accepted legal limits to its emissions to stay under the major source threshold. Natural or true minor means the actual and potential emissions are below the threshold.
- b. **ABERDEEN PROVING GROUND** is in Severe Nonattainment for Ozone (1 hr). It holds 2 CAA Major Operating Permits. Emission credit programs may be available. No SIP growth allowance has been allocated for this installation. **ABERDEEN PROVING GROUND** is in an area projected or proposed to be designated nonattainment for the 8-hour Ozone or the PM_{2.5} NAAQS.

2. Cultural/Archeological/Tribal Resources (DoD Question #229-237):

- a. Many installations have historical, archeological, cultural and Tribal sites of interest. These sites and access to them often must be maintained, or consultation is typically required before changes can be made. The sites and any buffers surrounding them may reduce the quantity or quality of land or airspace available for training and maneuvers or even construction of new facilities. The presence of such sites needs to be recognized, but the fact that restrictions actually occur is the overriding factor the data call is trying to identify. A programmatic agreement with the State Historic Preservation Office (SHPO) facilitates management of these sites.
- b. **Historic property has been identified on ABERDEEN PROVING GROUND.** There is no programmatic agreement for historic property in place with the SHPO. It has sites with high archeological potential identified, **which do not restrict construction and do not restrict operations.**

3. Dredging (DoD Question # 226-228):

- a. Dredging allows for free navigation of vessels through ports, channels, and rivers. Identification of sites with remaining capacity for the proper disposal of dredge spoil is the

primary focus of the profile. However, the presence of unexploded ordnance or any other impediment that restricts the ability to dredge is also a consideration.

- b. [ABERDEEN PROVING GROUND](#) has impediments to dredging.

4. Land Use Constraints/Sensitive Resource Areas (DoD Question #198-201, 238, 240-247, 254-256, 273):

- a. Land use can be encroached from both internal and external pressures. This resource area combines several different types of possible constraints. It captures the variety of constraints not otherwise covered by other areas that could restrict operations or development. The areas include electromagnetic radiation or emissions, environmental restoration sites (on and off installation), military munitions response areas, explosive safety quantity distance arcs, treaties, underground storage tanks, sensitive resource areas, as well as policies, rules, regulations, and activities of other federal, state, tribal and local agencies. This area also captures other constraining factors from animals and wildlife that are not endangered but cause operational restrictions. This resource area specifically includes information on known environmental restoration costs through FY03 and the projected cost-to-complete the restoration.
- b. [ABERDEEN PROVING GROUND](#) reports that 3751 unconstrained acres are available for development out of 72406 total acres. [ABERDEEN PROVING GROUND](#) has spent \$471299.90000000002M thru FY03 for environmental restoration, and has estimated the remaining Cost to Complete at \$306564M. [ABERDEEN PROVING GROUND](#) has Explosive Safety Quantity Distance Arcs, some of which require safety waivers, and some with the potential for expansion. It has Military Munitions Response Areas. It reports constraints associated with noise. It reports constraints associated with threatened and endangered species/habitat. It reports constraints associated with contamination. [ABERDEEN PROVING GROUND](#) reports being constrained by the laws, regulations, policies, or activities of non-DoD federal, tribal, state, or local agencies.

5. Marine Mammal/Marine Resources/Marine Sanctuaries (DoD Question #248-250, 252-253):

- a. This area captures the extent of any restrictions on near shore or open water testing, training or operations as a result of laws protecting Marine Mammals, Essential Fish Habitat, and other related marine resources.
- b. [ABERDEEN PROVING GROUND](#) is impacted by laws and regulations pertaining to Marine Mammal Protection Act, Essential Fish Habitats & Fisheries and Marine Sanctuaries, which may adversely restrict navigation and operations.

6. Noise (DoD Question # 202-209, 239):

- a. Military operations, particularly aircraft operations and weapons firing, may generate noise that can impact property outside of the installation. Installations with significant noise will typically generate maps that predict noise levels. These maps are then used to identify whether the noise levels are compatible

with land uses in these noise-impacted areas. Installations will often publish noise abatement procedures to mitigate these noise impacts.

- b. **ABERDEEN PROVING GROUND** has noise contours that extend off the installation's property. Of the 235848 acres that extend to off-base property, 0 acres have incompatible land uses. It has published noise abatement procedures for the main installation. It has published noise abatement procedures for the training and/or RDT&E range. It does not have published noise abatement procedures for the auxiliary airfield.

7. Threatened and Endangered Species/Critical Habitat (DoD Question #259-264)

- a. The presence of threatened and endangered species (TES) can result in restrictions on training, testing and operations. They serve to reduce buildable acres and maneuver space. The data in this section reflects listed TES as well as candidate species, designated critical habitat as well as proposed habitat, and restrictions from Biological Opinions. The legally binding conditions in Biological Opinions are designed to protect TES, and critical habitat. The data call seeks to identify the presence of the resource, TES, candidate or critical habitat, even if they don't result in restrictions, as well places where restrictions do exist.
- b. **ABERDEEN PROVING GROUND** reported that federally-listed TES are present that have delayed or diverted operations/training/testing, candidate species are not present, critical habitat is not present, and the installation has a Biological Opinion that places restrictions on operations.

8. Waste Management (DoD Question # 265-272):

- a. This resource area identifies whether the installation has existing waste treatment and/or disposal capabilities, whether there is additional capacity, and in some cases whether the waste facility can accept off-site waste. This area includes Resource Conservation and Recovery Act (RCRA) Treatment, Storage and Disposal facilities, solid waste disposal facilities, RCRA Subpart X (open/burning/open detonation) and operations.
- b. **ABERDEEN PROVING GROUND** has a permitted RCRA Treatment Storage and Disposal Facility (TSDF) . **ABERDEEN PROVING GROUND** has an interim or final RCRA Part X facility that does not accept off-site waste. **ABERDEEN PROVING GROUND** does not have an on-base solid waste disposal facility .

9. Water Resources (DoD Question # 258, 274-299):

- a. This resource area asks about the condition of ground and surface water, and the legal status of water rights. Water is essential for installation operations and plays a vital role in the proper functioning of the surrounding ecosystems. Contamination of ground or surface waters can result in restrictions on training and operations and require funding to study and remediate. Federal clean water laws require states to identify impaired waters and to restrict the discharge of certain pollutants into those waters. Federal safe drinking water laws can require alternative sources of water and restrict activities above groundwater supplies particularly sole source aquifers. Water resources are also affected by the McCarran Amendment (1952), where Congress returned substantial power to the states with respect to the management of water. The amendment requires that the Federal government waive its sovereign immunity in cases involving the general adjudication of water rights. On the other hand existence of Federal Reserve Water Rights can provide more ability to the government to use water on federal lands.
- b. **ABERDEEN PROVING GROUND discharges** to an impaired waterway. Groundwater contamination **is** reported. Surface water contamination **is** reported. **The state requires permits for the withdrawal of groundwater. The installation reported restrictions or controls that limited the production or distribution of potable water.**
(The following water quantity data is from DoD Question # 282, 291, 297, 822, 825, 826):
ABERDEEN PROVING GROUND has **6191.699999999998** Acre-Feet of surplus water potentially available for expansion. On average, it uses **2.585** MGD of potable and non-potable water, with the capacity to produce **7** MGD. It processed on average **1.5600000000000001** MGD of domestic wastewater in the peak month (past 3 years), with the capacity to process **5.7999999999999998** MGD. It processed on average **0.6899999999999995** MGD of industrial wastewater in the peak month (past 3 years), with the capacity to process **3** MGD.

10. Wetlands (DoD Question # 251, 257):

- a. The existence of jurisdictional wetlands poses restraints on the use of land for training, testing or operations. In the data call the installations were asked to report the presence of jurisdictional wetlands and compare the percent of restricted acres to the total acres. The presence of jurisdictional wetlands may reduce the ability of an installation to assume new or different missions, even if they do not presently pose restrictions, by limiting the availability of land.
- b. **ABERDEEN PROVING GROUND** reported **no** wetland restricted acres on the main installation, and **no** wetland restricted acres on ranges.



BRAC 2005 - TABS Proposal Information Management System (PIMS)

Candidate Recommendation Supporting Information USA-0227

18-Mar-05

Title:

Close Natick Soldier Systems Center

Competing Recommendations and Other Information:

There are no potential or known competing recommendations that would conflict with this recommendation. This recommendation supports TECH 0032 (Chem Bio COE at APG), Med 0056 (USAARL moves to APG), and E&T 0064 (CSS Center [Fort Lee]).

Force Structure Capabilities:

This candidate recommendation considers essential manning, training, organizing, equipping, and sustaining requirements, as well as approved transformational initiatives to ensure the Army and Department of Defense have the capabilities necessary to support the force structure plan. This candidate recommendation considered the stationing requirements to the effected units, probable end-strength, and anticipated funding levels listed in the force structure plan, and the configuration of existing facilities to determine actual unit and functional stationing requirements.

MVA Results:

Natick itself is a small single purpose installation, which had a low Military Value (57) when measured by the Army against all other Army installations. Aberdeen Proving Ground has a high Military Value (18) on the Army installation scale.

This recommendation establishes a Soldier & Biological Chemical Center. The technical competencies needed are human systems research, human systems development & acquisition (D&A), human systems test & evaluation (T&E), chemical & biological defense research, and chemical & biological defense D&A. Two Army facilities are the principal agents for these five technical capabilities and functions. The Soldier Systems Center at Natick has the highest military value in two (human systems research and D&A). Aberdeen was 2nd and 3rd. In the other three functions, Aberdeen has the highest military value. Natick was 2nd or 3rd.

This recommendation is driven by military judgment that single site integrated RDATE would improve the research development & acquisition and testing & evaluation of systems to enhance soldier survivability. The work done at Soldiers Systems Center (SSC), Natick, MA, including that done by the US Army Research Institute of Environmental Medicine at Natick, is intimately interwoven with work done at Aberdeen Proving Ground (APG) with respect to the soldier aspects (clothing, equipment and physiological) of Chemical Biological Defense. This interrelationship of effort and product was the reason that the facilities at Natick and APG were formerly organizationally combined in the Soldier and Biological Chemical Command (SBCCOM). The creation of the US Army Research, Development and Engineering

Candidate Recommendation Supporting Information USA-0227

18-Mar-05

Command (RDECOM) in 2003 required the deactivation of SBCCOM; however, the activities at APG and SSC were subsequently organizationally reunited under the new Soldier, Ground Systems Life Cycle Management Command.

In Human Systems D&A, SSC had the highest Mil Val and APG the third highest in the Army. Both facilities are involved in acquiring clothing and equipment for the soldier. The second highest Mil Val in this bin was a roll up of three organizations in Orlando, which focus on training development, training simulations and other simulations. Orlando is the center of this type work for the Navy as well as the Army and is a private sector center of excellence for this type of development. There is no installation at Orlando at which to consolidate the SSC and APG elements. Realignment of the Orlando elements to APG would break the existing joint and private sector synergy, while not actually consolidating like work.

In Human Systems T&E, APG has the highest Military Value in the Army; SSC is third. The second highest is Yuma. Yuma is a principle test center for the Army. It is responsible for hot weather testing and manages cold weather testing (in Alaska in significant part with Yuma FTE on TDY) of developmental Army systems (Ground vehicles, weapons, etc.). Yuma appropriately tests human systems interface with these systems in extreme environments. It would be possible to move SSC and APG human systems testing to Yuma, but not the reverse since both Natick and APG lack the appropriate climate. Since APG has the highest Military Value, realignment of SSC to APG is more logical than SSC to Yuma.

In Chemical Biological Defense Research and D&A, Aberdeen has the highest Military Value. The facilities, other than SSC, which reported significant capacity in Chemical Biological Defense Research and D&A, are being consolidated at Aberdeen under TECH 0032.

The movements of Human Systems and Chemical Biological Defense facilities from Natick to Aberdeen and from Aberdeen to Natick were each examined. Movement of Aberdeen facilities to Natick is not possible. Natick is too small to accept the entirety of the Aberdeen technical facilities and their FTEs. Aberdeen has the capacity to accept the entirety of the Natick technical facilities and its FTEs. Therefore the recommendation is to create the Soldier & Biological Chemical Center at Aberdeen.

Capacity Analysis Results:

This will allow the Army to close one installation with 924,000 SF of laboratory and administrative space. Consolidating will take advantage of excess capacity at Aberdeen Proving Ground.

**** End of Report ****

INSTALLATION ENVIRONMENTAL PROFILE
SOLDIER SYSTEMS CENTER

1. Air Quality (DoD Question #210-225):

- a. The Clean Air Act (CAA) establishes health-based standards for air quality and all areas of the country are monitored to determine if they meet the standards. A major limiting factor is whether the installation is in an area designated nonattainment or maintenance (air quality is not meeting the standard) and is therefore subject to more stringent requirements, including the CAA General Conformity Rule. Conformity requires that any new emissions from military sources brought into the area must be offset by credits or accounted for in the State Implementation Plan (SIP) emissions budget. The criteria pollutants of concern include: CO, O₃ (1 hour & 8 Hour), and PM (PM₁₀, and PM_{2.5}). Installations in attainment areas are not restricted, while activities for installations in non-attainment areas may be restricted. Non-attainment areas are classified as to the degree of non-attainment: Marginal, Moderate, Serious, and in the case of O₃, Severe and Extreme. SIP Growth Allowances and Emission Reduction Credits are tools that can be used to accommodate increased emissions in a manner that conforms to a state's SIP. All areas of the country require operating permits if emissions from stationary sources exceed certain threshold amounts. Major sources already exceed the amount and are subject to permit requirements. Synthetic minor means the base has accepted legal limits to its emissions to stay under the major source threshold. Natural or true minor means the actual and potential emissions are below the threshold.
- b. **SOLDIER SYSTEMS CENTER** is in Serious Nonattainment for Ozone (1 hr). **SOLDIER SYSTEMS CENTER** is in Serious Nonattainment for NO₂. It holds a CAA Synthetic Minor Operating Permit. It holds 3 CAA Minor Operating Permits. Emission credit programs may be available. No SIP growth allowance has been allocated for this installation. **SOLDIER SYSTEMS CENTER** is in an area projected or proposed to be designated nonattainment for the 8-hour Ozone or the PM_{2.5} NAAQS.

2. Cultural/Archeological/Tribal Resources (DoD Question #229-237):

- a. Many installations have historical, archeological, cultural and Tribal sites of interest. These sites and access to them often must be maintained, or consultation is typically required before changes can be made. The sites and any buffers surrounding them may reduce the quantity or quality of land or airspace available for training and maneuvers or even construction of new facilities. The presence of such sites needs to be recognized, but the fact that restrictions actually occur is the overriding factor the data call is trying to identify. A programmatic agreement with the State Historic Preservation Office (SHPO) facilitates management of these sites.
- b. **No historic property has been identified on SOLDIER SYSTEMS CENTER.** There is no programmatic agreement for historic property in place with the SHPO. It **does not have** sites with high archeological potential identified.

3. Dredging (DoD Question # 226-228):

- a. Dredging allows for free navigation of vessels through ports, channels, and rivers. Identification of sites with remaining capacity for the proper disposal of dredge spoil is the

primary focus of the profile. However, the presence of unexploded ordnance or any other impediment that restricts the ability to dredge is also a consideration.

- b. **SOLDIER SYSTEMS CENTER** has no impediments to dredging.

4. Land Use Constraints/Sensitive Resource Areas (DoD Question #198-201, 238, 240-247, 254-256, 273):

- a. Land use can be encroached from both internal and external pressures. This resource area combines several different types of possible constraints. It captures the variety of constraints not otherwise covered by other areas that could restrict operations or development. The areas include electromagnetic radiation or emissions, environmental restoration sites (on and off installation), military munitions response areas, explosive safety quantity distance arcs, treaties, underground storage tanks, sensitive resource areas, as well as policies, rules, regulations, and activities of other federal, state, tribal and local agencies. This area also captures other constraining factors from animals and wildlife that are not endangered but cause operational restrictions. This resource area specifically includes information on known environmental restoration costs through FY03 and the projected cost-to-complete the restoration.
- b. **SOLDIER SYSTEMS CENTER** reports that 46 unconstrained acres are available for development out of 176 total acres. **SOLDIER SYSTEMS CENTER** has spent \$32.799999999999997M thru FY03 for environmental restoration, and has estimated the remaining Cost to Complete at \$19M. **SOLDIER SYSTEMS CENTER** has Explosive Safety Quantity Distance Arcs, none of which require safety waivers. It reports constraints associated with noise. **SOLDIER SYSTEMS CENTER** reports being constrained by the laws, regulations, policies, or activities of non-DoD federal, tribal, state, or local agencies.

5. Marine Mammal/Marine Resources/Marine Sanctuaries (DoD Question #248-250, 252-253):

- a. This area captures the extent of any restrictions on near shore or open water testing, training or operations as a result of laws protecting Marine Mammals, Essential Fish Habitat, and other related marine resources.
- b. **SOLDIER SYSTEMS CENTER** is impacted by laws and regulations pertaining to Marine Mammal Protection Act, Essential Fish Habitats & Fisheries and Marine Sanctuaries, which may adversely restrict navigation and operations.

6. Noise (DoD Question # 202-209, 239):

- a. Military operations, particularly aircraft operations and weapons firing, may generate noise that can impact property outside of the installation. Installations with significant noise will typically generate maps that predict noise levels. These maps are then used to identify whether the noise levels are compatible with land uses in these noise-impacted areas. Installations will often publish noise abatement procedures to mitigate these noise impacts.

- b. **SOLDIER SYSTEMS CENTER** does not have noise contours that extend off the installation's property. It has published noise abatement procedures for the main installation. It does not have published noise abatement procedures for the training and/or RDT&E range.

7. Threatened and Endangered Species/Critical Habitat (DoD Question #259-264)

- a. The presence of threatened and endangered species (TES) can result in restrictions on training, testing and operations. They serve to reduce buildable acres and maneuver space. The data in this section reflects listed TES as well as candidate species, designated critical habitat as well as proposed habitat, and restrictions from Biological Opinions. The legally binding conditions in Biological Opinions are designed to protect TES, and critical habitat. The data call seeks to identify the presence of the resource, TES, candidate or critical habitat, even if they don't result in restrictions, as well places where restrictions do exist.
- b. **SOLDIER SYSTEMS CENTER** reported that federally-listed TES are present, candidate species are present, critical habitat is present that do not restrict operations, and the installation has a Biological Opinion that places restrictions on operations.

8. Waste Management (DoD Question # 265-272):

- a. This resource area identifies whether the installation has existing waste treatment and/or disposal capabilities, whether there is additional capacity, and in some case whether the waste facility can accept off-site waste. This area includes Resource Conservation and Recovery Act (RCRA) Treatment, Storage and Disposal facilities, solid waste disposal facilities, RCRA Subpart X (open/burning/open detonation) and operations.
- b. **SOLDIER SYSTEMS CENTER** does not have a permitted RCRA Treatment Storage and Disposal Facility (TSDF) . **SOLDIER SYSTEMS CENTER** does not have an interim or final RCRA Part X facility . **SOLDIER SYSTEMS CENTER** does not have an on-base solid waste disposal facility .

9. Water Resources (DoD Question # 258, 274-299):

- a. This resource area asks about the condition of ground and surface water, and the legal status of water rights. Water is essential for installation operations and plays a vital role in the proper functioning of the surrounding ecosystems. Contamination of ground or surface waters can result in restrictions on training and operations and require funding to study and remediate. Federal clean water laws require states to identify impaired waters

and to restrict the discharge of certain pollutants into those waters. Federal safe drinking water laws can require alternative sources of water and restrict activities above groundwater supplies particularly sole source aquifers. Water resources are also affected by the McCarran Amendment (1952), where Congress returned substantial power to the states with respect to the management of water. The amendment requires that the Federal government waive its sovereign immunity in cases involving the general adjudication of water rights. On the other hand existence of Federal Reserve Water Rights can provide more ability to the government to use water on federal lands.

- b. **SOLDIER SYSTEMS CENTER discharges** to an impaired waterway. Groundwater contamination **is** reported. Surface water contamination **is not** reported. **The state requires permits for the withdrawal of groundwater. (The following water quantity data is from DoD Question # 282, 291, 297, 822, 825, 826):**
SOLDIER SYSTEMS CENTER has **652.3999999999998** Acre-Feet of surplus water potentially available for expansion. On average, it uses **0.06.7** MGD of potable and non-potable water, with the capacity to produce **0.25** MGD. It processed on average **0.10000000000000001** MGD of domestic wastewater in the peak month (past 3 years), with the capacity to process **0.17999999999999999** MGD. It processed on average **0** MGD of industrial wastewater in the peak month (past 3 years), with the capacity to process **0.17999999999999999** MGD.

10. Wetlands (DoD Question # 251, 257):

- a. The existence of jurisdictional wetlands poses restraints on the use of land for training, testing or operations. In the data call the installations were asked to report the presence of jurisdictional wetlands and compare the percent of restricted acres to the total acres. The presence of jurisdictional wetlands may reduce the ability of an installation to assume new or different missions, even if they do not presently pose restrictions, by limiting the availability of land.
- b. **SOLDIER SYSTEMS CENTER** reported **18%** wetland restricted acres on the main installation, and **no** wetland restricted acres on ranges.



BRAC 2005 - TABS Proposal Information Management System (PIMS)

Candidate Recommendation # USA-0227

18-Mar-05

Recommendation:

Close Natick Soldier Systems Center, MA. Relocate all functions to Aberdeen Proving Ground (APG), MD. Realign Ft. Belvoir, VA, by relocating the Program Executive Officer for Soldier Systems to Aberdeen Proving Ground, MD. Consolidate all relocating Soldier Systems functions into a combined Soldier and Biological Chemical Center for Land Warfare at APG.

Justification:

This proposal closes Natick and realigns PEO Soldier at Fort Belvoir. It consolidates Army RDT&E organizations at APG capitalizing technical synergy across Department of Defense, academia and industry (Transformational Option #54). This proposal creates required synergy between technology and life cycle support organizations for the Soldier Systems. This move also supports the Army Transformational Option: #33 -- Consolidate within each Service within a DTAP Technical Capability Area across multiple functions. This scenario supports TECH 0032 (Chemical Biological Center of Excellence at APG), Med 0056 (USARIEM moves to APG), and E&T 0064 (CSS Center [Fort Lee]).

Payback:

The total estimated one-time cost to the Department of Defense to implement this recommendation is \$ 314,188 thousand. The net of all costs and savings to the Department of Defense during the implementation period is a cost of \$ 242,645 thousand. Annual recurring savings to the Department after implementation are \$ 37,432 thousand with a payback of 10 years (2020). The net present value of the costs and savings to the Department over 20 years is a savings of \$ 124,793 thousand.

Other Considerations:

A. Economic Impact on Communities:

Assuming no economic recovery, this recommendation could result in a maximum potential reduction of 2,562 jobs (1,530 direct and 1,032 indirect jobs) over the 2006 – 2011 periods in the Boston, MA metropolitan area, which is 0.24 percent of economic area employment.

Assuming no economic recovery, this recommendation could result in a maximum potential reduction of 148 (85 direct and 63 indirect jobs) over the 2006 – 2011 period in the Washington metropolitan area, which is 0.01 percent of economic area employment.

Assuming no economic recovery, this recommendation could result in a maximum potential increase of 2,203 jobs (1,141 direct and 1,062 indirect jobs) over the 2006 – 2011 periods in the Baltimore, MD metropolitan area, which is 0.14 percent of economic area employment

B. Community Infrastructure Assessment:

A review of community attributes revealed no significant issues regarding the ability of the

local communities' infrastructures to support forces, missions, and personnel.

When moving from PEO Solider at Fort Belvoir to APG, the following local capabilities are improved or sustained: Child Care, Housing, Cost of Living, Education, Medical Health, Population Center, and Utilities. The following local area capabilities are not robust: Employment, Safety, and Transportation.

When moving from Natick Soldier System Center to APG, the following local capabilities are improved or sustained: Child Care, Housing, Cost of Living, Education, Employment, Medical Health, Population Center, and Utilities. The following local area capabilities are not robust: Safety and Transportation.

C. Environmental Impact:

Aberdeen Proving Grounds

This recommendation moves additional personnel and causes new construction at Aberdeen Proving Ground, which is located in a region that is currently in Non-attainment for Ozone. These events will require an Air Conformity Analysis to evaluate the impact to Air Quality and a New Source Review and permitting effort prior to allow construction. Aberdeen has 78 Historic properties, and 5 archeological resources identified and reports areas with high archeological potential, but no restrictions to mission reported. A very limited portion of the installation has been surveyed for cultural resources; therefore, the extent of the cultural resources on the installation and impacts to those resources are uncertain. Potential impacts may occur as result of increased times delays and negotiated restrictions, due to tribal interest in archeological sites. APG has two federally listed species (Short-nosed Sturgeon, and Bald Eagle), that affect 17.2 acres of the installation and restricts night time flying operations (protection buffers around nests) on 7.9% of installation. Additional operations may further impact threatened/endangered species leading to additional restrictions on training or operations. Water quality is impaired by pollutant loadings. Significant mitigation measures to limit releases may be required to reduce impacts to water quality and achieve US EPA water quality standards. No adverse impact to any other environmental resource area is expected.

Fort Belvoir

This installation is losing personnel, but not closing, so no adverse impacts to any environmental resource areas are expected.

SOLDIER SYSTEMS CENTER (NATICK)

This recommendation closes the Soldier Systems Center (Natick, MA). This installation has no operational ranges that require closure. Natick has contaminated areas that are being addressed through the Installation Restoration Program. Special waste management areas include a temporary RCRA TSD storage area. Ground and surface water contamination includes Tetrachloroethylene and Trichloroethylene. Restoration, monitoring/sweeps, access controls, and/or deed restrictions may be required for these areas to prevent disturbance, health and safety risks, and/or long-term release of toxins to the environment. No adverse impact to any other environmental resource area is expected.

**** End of Report ****



BRAC 2005 - TABS Proposal Information Management System (PIMS)

Candidate Recommendation Summary USA-0227

18-Mar-05

Proposal #: 696
Name: Dr. Chien Huo
Proposal Title: Close Natick Soldier Systems Center

General Description Close Natick Soldier Systems Center, MA. Relocate all functions to Aberdeen Proving Ground (APG), MD. Realign Ft. Belvoir, VA, by relocating the Program Executive Officer for Soldier Systems to Aberdeen Proving Ground, MD. Consolidate all relocating Soldier Systems functions into a combined Soldier and Biological Chemical Center for Land Warfare at APG.

Justification: This proposal closes Natick and realigns PEO Soldier at Fort Belvoir. It consolidates Army RDT&E organizations at APG capitalizing technical synergy across Department of Defense, academia and industry (Transformational Option #54). This proposal creates required synergy between technology and life cycle support organizations for the Soldier Systems. This move also supports the Army Transformational Option: #33 -- Consolidate within each Service within a DTAP Technical Capability Area across multiple functions. This scenario supports TECH 0032 (Chemical Biological Center of Excellence at APG), Med 0056 (USARIEM moves to APG), and E&T 0064 (CSS Center [Fort Lee]).

History Narrative Block: This proposals subsumes PIMS #'s 484. This Proposal is expected to be a CR Proposal

<u>Installation From</u>	<u>Installation To</u>	<u>Units Description</u>	<u>Total Mil</u>	<u>Total CIV</u>	<u>Total POP</u>
BELVOIR	ABERDEEN	CMD PEO SOLDIER	11	71	82
SSC	ABERDEEN	MGR C3S	0	1	1
SSC	ABERDEEN	US GOVT OTH	0	30	30
SSC	ABERDEEN	US GOVT OTH	0	115	115
SSC	ABERDEEN	AAFES	0	6	6
SSC	ABERDEEN	AMC ACQ CTR	0	9	9
SSC	ABERDEEN	CMD PEO SOLDIER	0	0	0
SSC	ABERDEEN	NAVY	0	28	28
SSC	ABERDEEN	HQ SOLDR & BIO CHEM	0	7	7
SSC	ABERDEEN	BD CTED	0	37	37
SSC	ABERDEEN	MGR AAESA	0	1	1
SSC	ABERDEEN	MGR AAESA	0	1	1
SSC	ABERDEEN	CMD HQ ARL	0	1	1
SSC	ABERDEEN	CTR RD&E CENTER	1	0	1
SSC	ABERDEEN	CTR RD&E CENTER	0	407	407
SSC	ABERDEEN	IST USA EVN MED RSCH	63	0	63
SSC	ABERDEEN	HQ SOLDR & BIO CHEM	6	161	167
SSC	ABERDEEN	NON-APPROPRIATED FUN	0	6	6
SSC	ABERDEEN	US GOVT OTH	0	8	8
SSC	ABERDEEN	US GOVT OTH	0	10	10
SSC	ABERDEEN	US GOVT OTH	0	22	22
SSC	ABERDEEN	US GOVT OTH	0	79	79
SSC	ABERDEEN	DOD AGY	0	2	2
SSC	ABERDEEN	US GOVT OTH	0	63	63
SSC	ABERDEEN	AGY USA LEGAL SERVIC	0	1	1
SSC	ABERDEEN	US GOVT OTH	0	33	33
SSC	ABERDEEN	CREDIT UNION	0	3	3
SSC	ABERDEEN	AAFES	0	1	1
SSC	ABERDEEN	OTHER ACTIVS	36	0	36

Candidate Recommendation Summary USA-0227

18-Mar-05

SSC	ABERDEEN	CTR USA SOLDIER SYS	0	65	65
SSC	ABERDEEN	OFC USAED NO. ATLANT	0	8	8
SSC	ABERDEEN	TRAVEL OFFICE	0	2	2
SSC	ABERDEEN	ACT USA MED DEPT USM	0	4	4
Total:			117	1,182	1,299

BRAC Principles: Organize
Equip

Transformational Options:

Operational Impact

MVA Impact: Natick itself is a small single purpose installation, which had a low Military Value (57) when measured by the Army against all other Army installations. Aberdeen Proving Ground has a high Military Value (18) on the Army installation scale.

This recommendation establishes a Soldier & Biological Chemical Center. The technical competencies needed are human systems research, human systems development & acquisition (D&A), human systems test & evaluation (T&E), chemical & biological defense research, and chemical & biological defense D&A. Two Army facilities are the principal agents for these five technical capabilities and functions. The Soldier Systems Center at Natick has the highest military value in two (human systems research and D&A). Aberdeen was 2nd and 3rd. In the other three functions, Aberdeen has the highest military value. Natick was 2nd or 3rd.

This recommendation is driven by military judgment that single site integrated RDATE would improve the research development & acquisition and testing & evaluation of systems to enhance soldier survivability. The work done at Soldiers Systems Center (SSC), Natick, MA, including that done by the US Army Research Institute of Environmental Medicine at Natick, is intimately interwoven with work done at Aberdeen Proving Ground (APG) with respect to the soldier aspects (clothing, equipment and physiological) of Chemical Biological Defense. This interrelationship of effort and product was the reason that the facilities at Natick and APG were formerly organizationally combined in the Soldier and Biological Chemical Command (SBCCOM). The creation of the US Army Research, Development and Engineering Command (RDECOM) in 2003 required the deactivation of SBCCOM; however, the activities at APG and SSC were subsequently organizationally reunited under the new Soldier, Ground Systems Life Cycle Management Command.

In Human Systems D&A, SSC had the highest Mil Val and APG the third highest in the Army. Both facilities are involved in acquiring clothing and equipment for the soldier. The second highest Mil Val in this bin was a roll up of three organizations in Orlando, which focus on training development, training simulations and other simulations. Orlando is the center of this type work for the Navy as well as the Army and is a private sector center of excellence for this type of development. There is no installation at Orlando at which to consolidate the SSC and APG elements. Realignment of the Orlando elements to APG would break the existing joint and private sector synergy, while not actually consolidating like work.

In Human Systems T&E, APG has the highest Military Value in the Army; SSC is third. The second highest is Yuma. Yuma is a principle test center for the Army. It is responsible for hot weather testing and manages cold weather testing (in Alaska in significant part with Yuma FTE on TDY) of developmental Army systems (Ground vehicles, weapons, etc.). Yuma appropriately tests human systems interface with these systems in extreme environments. It would be possible to move SSC and APG human systems testing to Yuma, but not the reverse since both Natick and APG lack the appropriate climate. Since APG has the highest Military Value, realignment of SSC to APG is more logical than SSC to Yuma.

In Chemical Biological Defense Research and D&A, Aberdeen has the highest Military Value. The facilities, other than SSC, which reported significant capacity in Chemical Biological Defense

Candidate Recommendation Summary USA-0227

18-Mar-05

Research and D&A, are being consolidated at Aberdeen under TECH 0032.

The movements of Human Systems and Chemical Biological Defense facilities from Natick to Aberdeen and from Aberdeen to Natick were each examined. Movement of Aberdeen facilities to Natick is not possible. Natick is too small to accept the entirety of the Aberdeen technical facilities and their FTEs. Aberdeen has the capacity to accept the entirety of the Natick technical facilities and its FTEs. Therefore the recommendation is to create the Soldier & Biological Chemical Center at Aberdeen.

Capacity Impact: This will allow the Army to close one installation with 924,000 SF of laboratory and administrative space. Consolidating will take advantage of excess capacity at Aberdeen Proving Ground.

Statistics: NPV(\$K): -124,793 1-Time Cost(\$K): 314,188 Closure(Acres): 226
PB (yrs): 10 New Milcon(SF): 500,280 Shutdown(SF): 924,000

Army BRAC Objectives:

RDTE 3: Consolidate DoD RDT&E organizations, capitalizing on synergy across DoD, other Federal agencies, academia, and industry, to enhance support of DoD transformation and Joint operations.

RDTE 5: Provide RDT&E infrastructure that will attract world-class talent in emerging science and engineering fields, ensuring long-term technological innovation to support DoD transformation and Joint operations.

Mission 1: Retain DoD installations with the most flexible capability to accept new missions.

Mission 2: Retain vital training and test lands as a hedge against likely new Joint Team missions; changes in technology, TTP; and other Operational Risk.

Economic Impact (6):

<u>Installation From</u>	<u>Indirect Fr</u>	<u>Direct Fr</u>	<u>Installation To</u>	<u>Indirect To</u>	<u>Direct To</u>
SSC	-1,032	-1,530	ABERDEEN	1,062	1,141
BELVOIR	-63	-85		0	0

Comments: Assuming no economic recovery, this recommendation could result in a maximum potential reduction of 2,562 jobs (1,530 direct and 1,032 indirect jobs) over the 2006 – 2011 periods in the Boston, MA metropolitan area, which is 0.24 percent of economic area employment.

Assuming no economic recovery, this recommendation could result in a maximum potential reduction of 148 (85 direct and 63 indirect jobs) over the 2006 – 2011 period in the Washington metropolitan area, which is 0.01 percent of economic area employment.

Assuming no economic recovery, this recommendation could result in a maximum potential increase of 2,203 jobs (1,141 direct and 1,062 indirect jobs) over the 2006 – 2011 periods in the Baltimore, MD metropolitan area, which is 0.14 percent of economic area employment

Local Area Impacts (7):

Risk of Move:

LAI Items: Transportation
Employment
Safety

Comments: A review of community attributes revealed no significant issues regarding the ability of the local communities' infrastructures to support forces, missions, and personnel. When moving from PEO Solider at Fort Belvoir to APG, the following local capabilities are improved or sustained: Child Care, Housing, Cost of Living, Education, Medical Health, Population Center, and Utilities. The following local area capabilities are not robust: Employment, Safety, and Transportation. When moving from Natick Soldier System Center to APG, the following local capabilities are improved or sustained: Child Care, Housing, Cost of Living, Education, Employment, Medical Health, Population Center, and Utilities. The following local area capabilities are not robust: Safety and Transportation.

Environmental Impacts (8):

El Items:

Comment: Aberdeen Proving Grounds

This recommendation moves additional personnel and causes new construction at Aberdeen Proving Ground, which is located in a region that is currently in Non-attainment for Ozone. These events will require an Air Conformity Analysis to evaluate the impact to Air Quality and a New Source Review and permitting effort prior to allow construction. Aberdeen has 78 Historic properties, and 5 archeological resources identified and reports areas with high archeological potential, but no restrictions to mission reported. A very limited portion of the installation has been surveyed for cultural resources; therefore, the extent of the cultural resources on the installation and impacts to those resources are uncertain. Potential impacts may occur as result of increased times delays and negotiated restrictions, due to tribal interest in archeological sites. APG has two federally listed species (Short-nosed Sturgeon, and Bald Eagle), that affect 17.2 acres of the installation and restricts night time flying operations (protection buffers around nests) on 7.9% of installation. Additional operations may further impact threatened/endangered species leading to additional restrictions on training or operations. Water quality is impaired by pollutant loadings. Significant mitigation measures to limit releases may be required to reduce impacts to water quality and achieve US EPA water quality standards. No adverse impact to any other environmental resource area is expected.

Fort Belvoir

This installation is losing personnel, but not closing, so no adverse impacts to any environmental resource areas are expected.

SOLDIER SYSTEMS CENTER (NATICK)

This recommendation closes the Soldier Systems Center (Natick, MA). This installation has no operational ranges that require closure. Natick has contaminated areas that are being addressed through the Installation Restoration Program. Special waste management areas include a temporary RCRA TSD storage area. Ground and surface water contamination includes Tetrachloroethylene and Trichloroethylene. Restoration, monitoring/sweeps, access controls, and/or deed restrictions may be required for these areas to prevent disturbance, health and safety risks, and/or long-term release of toxins to the environment. No adverse impact to any other environmental resource area is expected.

Review Status:

**** End of Report ****



#USA-0227: Close Natick Soldier Systems Center



Candidate Recommendation: Close Natick Soldier Systems Center, MA. Relocate all functions to Aberdeen Proving Ground (APG), MD. Realign Ft. Belvoir, VA, by relocating the Program Executive Officer for Soldier Systems to Aberdeen Proving Ground, MD. Consolidate all relocating Soldier Systems functions into a combined Soldier and Biological Chemical Center for Land Warfare at APG.

Justification

- Consolidates Army RDT&E organizations to capitalize on technical synergy. Technology and LCM Synergy is needed for the Soldier Systems
- Compliments TECH 0032 (Chem Bio COE at APG) and Med 0056 (USAARL moves to APG)
- With inclusion of E&T 0064, savings will be \$157M

Military Value

- Soldier Systems Center (SSC) Natick has highest Army Military Value in Human Systems Research and Human Systems D&A. Aberdeen Proving Ground (APG) has second and third highest Army Military Value respectively.
- APG has the Highest Army Military Value in Human Systems T&E, Chemical Biological Defense Research and Chemical Biological Defense D&A. Natick has the second or third highest Army Military Value in each.

Payback

- One-Time Cost: \$314,188K
- Net Implementation Cost: \$242,645K
- Annual Recurring Savings: \$37,432K
- Pay Back Period: 10 Years
- NPV Savings: \$124,793K

Impacts

- Criteria 6 –
 - Newton MA: -2,548 jobs (1,522 direct, 1,026 indirect jobs); -0.24%
 - Washington DC: -148 jobs (85 direct, 63 indirect jobs); <0.01%
- Criteria 7 – No issues
- Criteria 8 – No impediments

Transforming Through Base Realignment and Closure

SUMMARY OF SCENARIO ENVIRONMENTAL IMPACTS [TABS WORKING DRAFT]**SCENARIO #696 TITLE: USA-0227 CLOSE NATICK SOLDIER SYSTEMS CENTER**

General Description: Closes Natick Soldier Systems Center. Realigns PEO Soldier at Ft Belvoir, and moves these operational elements from Natick to APG, forming a combined Soldier Systems Life Cycle Management Center for Land Warfare at Aberdeen Proving Ground.

Proposal Affects the following Army installations:

1. Aberdeen PG gains 1461 personnel and construction of 523,844 SF MilCon. (Note: The net personnel change at APG will be negative - COBRA analysis assumes the Ordnance School departing APG (-4508 personnel) prior to the LCM Center moving in.)
2. Ft Belvoir moves approx 85 personnel to APG (PEO Soldier).
3. Soldier Systems Center (Natick) closes.

ANALYST COL CRABTREE

LAST UPDATE: 3/16/05

Env Resource Area	#1 Gaining Installation Assessment Inst Name: Aberdeen Proving Ground	Analyst Comments (& data source(s) that drive assessment)
Air Quality	Impact Expected. APG is currently in Non-Attainment area for Ozone. Addition of operations may exceed major source thresholds for NOx and VOCs. Added operations will require New Source Review permitting and Air Conformity Analysis.	#213, 219 – In non-attainment for Ozone (EPA web site confirms non-attainment for Ozone 8-hour) #211 – Projected to exceed Major Source thresholds for Nox. #220 – Holds 2 Major Operating Permits (SIC code 9711) #222 – Emissions Credit Trading program available for NOx and VOCs #218 – No restrictions to operations reported due to air quality requirements
Cultural/Archeological/Tribal Resources	78 Historic properties, 5 archeological resources identified to date and areas with high archeological potential, but no restrictions to mission reported. A very limited portion of the installation has been surveyed for cultural resources; therefore, the extent of the cultural resources on the installation and impacts to those resources is uncertain. A potential impacts may occur as result of increased times delays and negotiated restrictions, due to tribal government interest. Potential impacts may occur, since resource must be evaluated on a case-by-case basis, thereby causing increased delays and costs.	#233- A very limited portion of the installation has been surveyed for cultural resources (<5%) therefore the extent of cultural resources on the installation and impacts to these resources is uncertain. #235 – 78 Historic properties identified #229 – No known limitations to fee-simple ownership #230 – 5 archaeological resources known on installation; no restrictions reported #231 – Native People sites identified #236 – No Programmatic Agreement with SHPO #201 – Operations are not restricted due to cultural/archaeological/tribal resources however, these resources were identified. #234 – 5 tribes have asserted interest in burial/sacred sites; in contact, but no formal consultation yet. #232 – Areas with high archaeological potential identified.

Dredging	No Impact. If the new unit/activity requires dredging, then UXO and endangered species surveys may be required.	#227 – If new unit/activity requires dredging, then dredging may not be able to occur in the short term due to known dredging impediments. #226 – If the new unit/activity requires dredging, then UXO and endangered species surveys may be required.
Land Use Constraints/Sensitive Resource Areas	No Impact. Four SRAs identified but cause no restrictions.	#30 – 2,863 buildable acres reported, approximately 108 acres required. (based on the 2.5 times the size of a Large Admin Organ; & also Natick occupies 78 acres) #201 - Constraints listed include (4) limited ability to accept new or different missions due to availability of unconstrained land, (5) altered, modified or re-routed flight operations and/or flight patterns and (6) altered, modified or re-routed ground operations. #256 – 4 Sensitive Resource Areas identified but cause no restrictions CERL Encroachment Study – Moderate Encroachment Projection
Marine Mammals/Marine Resources/ Marine Sanctuaries	No impact.	#248, #250, #252, #253 - No restrictions #249 – TES listed include Shortnosed Sturgeon (<i>Accipenser brevirostrum</i>) (restricting Poole's Island Shoal waters around island) and Bald Eagle (<i>Haliaeetus leucocephalus</i>), (restricting Poole's Island areas near nest sites, APG Shoreline & Areas near nest sites- affecting 17.2 acres of installation)
Noise	No impact. No noise expected to be generated by this proposal.	#239 – 235,848 acres of Noise Zone 2 extend outside installation, which is not highly encroached by development. #202 – Installation has published noise abatement procedures for main installation and training range but not for auxiliary airfield.

<p style="writing-mode: vertical-rl; transform: rotate(180deg);">Threatened & Endangered Species/Critical Habitat</p>	<p>Installation has Federally listed species (Shortnosed Sturgeon, Bald Eagle), that affect 17.2 acres of the installation and restricts night time flying operations (protection buffers around nests) on 7.9% of installation. Additional operations may further impact threatened/endangered species leading to additional restrictions on training or operations.</p>	<p>#249 – TES listed include Shortnosed Sturgeon (<i>Accipenser brevorostrum</i>) (restricting Poole's Island Shoal waters around island) and Bald Eagle (<i>Haliaeetus leucocephalus</i>), (restricting Poole's Island areas near nest sites, APG Shoreline & Areas near nest sites- affecting 17.2 acres of installation) #259 – TES listed include Shortnosed Sturgeon (<i>Accipenser brevorostrum</i>) and Bald Eagle (<i>Haliaeetus leucocephalus</i>). The Bald Eagle has delayed operations due to protection of buffers around nests during nesting season on approximately 7.9% of installation. #260 – No critical habitat identified #261 – Biological Opinion for Bald Eagle restricts range operations #262 – Development restrictions reported. Eagles: Existing Biological Opinions have limited impacts as they impose a monitoring responsibility primarily; some sites are protected. The ongoing Biological Assessment and subsequent Opinion will include an incidental take statement and some mitigation limits for some of the SOCOM training functions is expected. The extent of the limits is unclear, as the BA is still in development. Sturgeon: APG has a BA and BO from NOAA containing no limitations. APG is to coordinate with them if specific projects pose a risk. #263, #264 – No candidate species/habitat reported #201 - TES have restricted operations by limiting night flying times.</p>
<p style="writing-mode: vertical-rl; transform: rotate(180deg);">Waste Management</p>	<p>No impact.</p>	<p>#269 – Interim RCRA Subpart X OB/OD Permit, Permit has been submitted #265- Installation is a permitted hazardous waste RCRA Treatment Storage and Disposal (TSD) facility. #272 – Not a permitted solid waste disposal facility</p>

Water Resources	<p>Minimal impact expected.</p> <p>Water quality is impaired by pollutant loadings. Significant mitigation measures to limit releases may be required to reduce impacts to water quality and achieve US EPA water quality standards.</p>	<p>#276 – Installation not located over a sole-source aquifer</p> <p>#278 – McCarren Amendment does not apply</p> <p>#293 – Potable water restrictions in FY99 (33 days), FY01 (134 days) and FY02 (147 days). Source restrictions to prevent exceeding withdrawal permits, FY99 (9% of time restriction in place), FY01 (37%), FY02 (40%) from CHPPM Water Resources Report.</p> <p>#291 – Installation uses one Gov’t owned on-installation plant and one publically owned off-installation plant for potable water.</p> <p>IREM indicates capacity for potable water to support 33,500+ personnel, 1461 added in this scenario.</p> <p>#279 –Installation discharges to impaired waterway; nutrient discharges from installation further impair waterway but is not a source of potable water.</p> <p>#297 – Two Sewage treatment plants on site; 1 gov’t owned, 1 privatized.</p> <p>#282 – Industrial Gov’t owned wastewater treatment system located on installation.</p> <p>#822, 824, 825, 826, ISRII – no restrictions reported</p>
Wetlands	No impact.	<p>#251- Survey completed 04/92.</p> <p>#257 – Wetlands affect 0.3% of range and installation each but do not restrict operations.</p>

SUBJECT: SUMMARY OF SCENARIO ENVIRONMENTAL IMPACTS (CONTINUED); [TABS WORKING DRAFT]

SCENARIO #696

Env Resource Area	#1 Losing Installation Assessment Inst Name: Ft Belvoir	Analyst Comments (& data source(s) that drive assessment)
Air Quality	No impact	Environmental impact is considered neutral or positive to losing installation for all 10 environmental resource areas.
Cultural/ Archeological Resources	No impact	
Dredging	No impact	
Land Use Constraints/Sensitive Resource Areas	No impact	
Marine Mammals/ Marine Resources / Marine Sanctuaries	No impact	
Noise	No impact	
Threatened & Endangered Species/ Critical Habitat	No impact	
Waste Management	No impact	
Water Resources	No impact	
Wetlands	No impact	

SUBJECT: SUMMARY OF SCENARIO ENVIRONMENTAL IMPACTS (CONTINUED); [TABS WORKING DRAFT]
SCENARIO #696

Env Resource Area	#2 <i>Losing</i> Installation Assessment Inst Name: Soldier Systems Center	Analyst Comments (& data source(s) that drive assessment)
Air Quality	Potential positive impact	#213 – In serious non-attainment for ozone (1-hour) and NO2
Cultural/Archaeological Resources	No impact	#230 – No archaeological resources identified #231 – No Native People sites identified #232 – No sites with high archaeological potential identified. #235 – No historic property identified.
Dredging	No impact	
Land Use Constraints/Sensitive Resource Areas	Environmental media contamination issues include IRP sites. Restoration, and/or monitoring of contaminated media will likely be required after closure to prevent significant long-term impacts to the environment.	#240 - DERA restoration sites - \$19M CTC, \$32.8M spent thru FY03. No operational ranges
Marine Mammals/Marine Resources / Marine Sanctuaries	No impact	
Noise	Potential positive impact.	#202- Noise abatement procedures in place in the form of - Flight Path Restriction (14 June 1995) #239 - Noise contours extend off installation.
Threatened & Endangered Species/Critical Habitat	No impact	#259 – No TES identified #260 – No Critical Habitat identified #263 – No candidate species identified. #264 – No proposed habitat for critical species
Waste Management	Special waste management areas at the installation include temporary RCRA TSD storage area (<90 days). Restoration, monitoring/sweeps, access controls, and/or deed restrictions may be required for these areas to prevent disturbance, health and safety risks, and/or long-term release of toxins to environmental media.	#265 – No permitted hazardous waste TSD facility - The facility is a large quantity generator with a less than 90 day storage area. #272 – No permitted SWDF #269 – No RCRA Subpart X OB/OD Permit #273 – No MMRA

Water Resources	<p>Ground and surface water contamination includes Tetrachloroethylene and Trichloroethylene. Restoration and/or monitoring of contaminated media may be required after closure.</p> <p>Potential positive impact – Installation currently uses Town of Natick Public Water Treatment Plant; closing base will eliminate use of public plant for installation.</p>	<p>#275 – Tetrachloroethylene and Trichloroethylene found in approximately 25 acres of groundwater (70 feet beneath surface) under approximately 89 acres of this facility. Approximate/Regulatory time to clean them up is 15-25 years. Facility uses Town of Natick for potable water.</p> <p>#281 – No surface water contamination reported.</p> <p>#291 - Installation currently uses Town of Natick Public Water Treatment Plant</p>
Wetlands	No impact	<p>#251 – Wetland survey completed 11/98</p> <p>#257 – Wetlands cover 18% total range, impose no restrictions.</p>

SUBJECT: SUMMARY OF SCENARIO ENVIRONMENTAL IMPACTS (CONTINUED); [TABS WORKING DRAFT]
SCENARIO #696

IMPACTS OF COSTS

Env Resource Area	Gaining Installation Inst Name: Aberdeen Proving Ground	Losing Installation Inst Name: Ft Belvoir, Soldier Systems Center
Environmental Restoration*	None.	<u>Ft Belvoir:</u> None <u>Soldier Systems Center:</u> DERA restoration - \$19M CTC
Waste Management	None.	None.
Environmental Compliance	-Air Conformity Analysis - \$25K-\$75K -New Source Review Analysis and -Permitting - \$100K-\$500K -Archeological/tribal resources inventory - \$25-\$100 per acre. - Historical building/structure inventory - \$500 - \$1,500 per structure -Evaluation to determine if arch/tribal site is significant - \$15K - \$40K per site - Evaluation to determine if historic buildings/structures are significant. -Conduct Tribal government to government consultation \$500 to \$2,000 per meeting (TDY costs) -Develop Programmatic Agreement -Endangered Species Management (includes monitoring) \$20K-\$2M -Realignment NEPA (EA) \$100K.	<u>Ft Belvoir:</u> None <u>Soldier Systems Center:</u> -Environmental Baseline Survey (EBS) \$300K-\$500K - Restoration/monitoring of Hazardous Waste Sites - \$500K - \$10M - Asbestos / lead paint removal - \$200K - \$1M. - Land Use controls management / enforcement in perpetuity - \$50K - \$100K per year.
COBRA Costs:	Air Conformity Analysis - \$50K New Source Review - \$100K NEPA (EIS) \$1M	<u>Soldier Systems Center:</u> EBS + Disposal NEPA - \$550K

INSTALLATION ENVIRONMENTAL PROFILE
FORT BELVOIR

1. Air Quality (DoD Question #210-225):

- a. The Clean Air Act (CAA) establishes health-based standards for air quality and all areas of the country are monitored to determine if they meet the standards. A major limiting factor is whether the installation is in an area designated nonattainment or maintenance (air quality is not meeting the standard) and is therefore subject to more stringent requirements, including the CAA General Conformity Rule. Conformity requires that any new emissions from military sources brought into the area must be offset by credits or accounted for in the State Implementation Plan (SIP) emissions budget. The criteria pollutants of concern include: CO, O₃ (1 hour & 8 Hour), and PM (PM₁₀, and PM_{2.5}). Installations in attainment areas are not restricted, while activities for installations in non-attainment areas may be restricted. Non-attainment areas are classified as to the degree of non-attainment: Marginal, Moderate, Serious, and in the case of O₃, Severe and Extreme. SIP Growth Allowances and Emission Reduction Credits are tools that can be used to accommodate increased emissions in a manner that conforms to a state's SIP. All areas of the country require operating permits if emissions from stationary sources exceed certain threshold amounts. Major sources already exceed the amount and are subject to permit requirements. Synthetic minor means the base has accepted legal limits to its emissions to stay under the major source threshold. Natural or true minor means the actual and potential emissions are below the threshold.
- b. FORT BELVOIR is in Moderate Nonattainment for Ozone (1 hr). FORT BELVOIR is proposed to be in Nonattainment for Ozone (8 hour). It holds a CAA Major Operating Permit. It holds 2 CAA Minor Operating Permits. No emission credit program available. No SIP growth allowance has been allocated for this installation. FORT BELVOIR is in an area projected or proposed to be designated nonattainment for the 8-hour Ozone or the PM_{2.5} NAAQS.

2. Cultural/Archeological/Tribal Resources (DoD Question #229-237):

- a. Many installations have historical, archeological, cultural and Tribal sites of interest. These sites and access to them often must be maintained, or consultation is typically required before changes can be made. The sites and any buffers surrounding them may reduce the quantity or quality of land or airspace available for training and maneuvers or even construction of new facilities. The presence of such sites needs to be recognized, but the fact that restrictions actually occur is the overriding factor the data call is trying to identify. A programmatic agreement with the State Historic Preservation Office (SHPO) facilitates management of these sites.
- b. Historic property has been identified on FORT BELVOIR. There is no programmatic agreement for historic property in place with the SHPO. It does not have sites with high archeological potential identified.

3. Dredging (DoD Question # 226-228):

- a. Dredging allows for free navigation of vessels through ports, channels, and rivers. Identification of sites with remaining capacity for the proper disposal of dredge spoil is the

primary focus of the profile. However, the presence of unexploded ordnance or any other impediment that restricts the ability to dredge is also a consideration.

- b. **FORT BELVOIR** has impediments to dredging.

4. Land Use Constraints/Sensitive Resource Areas (DoD Question #198-201, 238, 240-247, 254-256, 273):

- a. Land use can be encroached from both internal and external pressures. This resource area combines several different types of possible constraints. It captures the variety of constraints not otherwise covered by other areas that could restrict operations or development. The areas include electromagnetic radiation or emissions, environmental restoration sites (on and off installation), military munitions response areas, explosive safety quantity distance arcs, treaties, underground storage tanks, sensitive resource areas, as well as policies, rules, regulations, and activities of other federal, state, tribal and local agencies. This area also captures other constraining factors from animals and wildlife that are not endangered but cause operational restrictions. This resource area specifically includes information on known environmental restoration costs through FY03 and the projected cost-to-complete the restoration.
- b. **FORT BELVOIR** reports that 6411 unconstrained acres are available for development out of 9059 total acres. **FORT BELVOIR** has spent \$2063M thru FY03 for environmental restoration, and has estimated the remaining Cost to Complete at \$689M. **FORT BELVOIR** has Explosive Safety Quantity Distance Arcs, none of which require safety waivers, and none with the potential for expansion. It has restrictions due to adjacent or nearby Sensitive Resource Area.

5. Marine Mammal/Marine Resources/Marine Sanctuaries (DoD Question #248-250, 252-253):

- a. This area captures the extent of any restrictions on near shore or open water testing, training or operations as a result of laws protecting Marine Mammals, Essential Fish Habitat, and other related marine resources.
- b. **FORT BELVOIR** is impacted by laws and regulations pertaining to Marine Mammal Protection Act, Essential Fish Habitats & Fisheries and Marine Sanctuaries, which may adversely restrict navigation and operations.

6. Noise (DoD Question # 202-209, 239):

- a. Military operations, particularly aircraft operations and weapons firing, may generate noise that can impact property outside of the installation. Installations with significant noise will typically generate maps that predict noise levels. These maps are then used to identify whether the noise levels are compatible with land uses in these noise-impacted areas. Installations will often publish noise abatement procedures to mitigate these noise impacts.

- b. FORT BELVOIR does not have noise contours that extend off the installation's property. It does not have published noise abatement procedures for the main installation.

7. Threatened and Endangered Species/Critical Habitat (DoD Question #259-264)

- a. The presence of threatened and endangered species (TES) can result in restrictions on training, testing and operations. They serve to reduce buildable acres and maneuver space. The data in this section reflects listed TES as well as candidate species, designated critical habitat as well as proposed habitat, and restrictions from Biological Opinions. The legally binding conditions in Biological Opinions are designed to protect TES, and critical habitat. The data call seeks to identify the presence of the resource, TES, candidate or critical habitat, even if they don't result in restrictions, as well places where restrictions do exist.
- b. FORT BELVOIR reported that federally-listed TES are present that have delayed or diverted operations/training/testing, candidate species are not present, critical habitat is not present, and the installation does not have a Biological Opinion.

8. Waste Management (DoD Question # 265-272):

- a. This resource area identifies whether the installation has existing waste treatment and/or disposal capabilities, whether there is additional capacity, and in some case whether the waste facility can accept off-site waste. This area includes Resource Conservation and Recovery Act (RCRA) Treatment, Storage and Disposal facilities, solid waste disposal facilities, RCRA Subpart X (open/burning/open detonation) and operations.
- b. FORT BELVOIR has a permitted RCRA Treatment Storage and Disposal Facility (TSDF). FORT BELVOIR does not have an interim or final RCRA Part X facility. FORT BELVOIR does not have an on-base solid waste disposal facility.

9. Water Resources (DoD Question # 258, 274-299):

- a. This resource area asks about the condition of ground and surface water, and the legal status of water rights. Water is essential for installation operations and plays a vital role in the proper functioning of the surrounding ecosystems. Contamination of ground or surface waters can result in restrictions on training and operations and require funding to study and remediate. Federal clean water laws require states to identify impaired waters and to restrict the discharge of certain pollutants into those waters. Federal safe

drinking water laws can require alternative sources of water and restrict activities above groundwater supplies particularly sole source aquifers. Water resources are also affected by the McCarran Amendment (1952), where Congress returned substantial power to the states with respect to the management of water. The amendment requires that the Federal government waive its sovereign immunity in cases involving the general adjudication of water rights. On the other hand existence of Federal Reserve Water Rights can provide more ability to the government to use water on federal lands.

- b. **FORT BELVOIR does not discharge** to an impaired waterway. Groundwater contamination **is** reported. Surface water contamination **is** reported. **(The following water quantity data is from DoD Question # 282, 291, 297, 822, 825, 826):**
FORT BELVOIR has **-1792.2** Acre-Feet of surplus water potentially available for expansion. On average, it uses **1.73** MGD of potable and non-potable water, with the capacity to produce **4.4000000000000004** MGD. It processed on average **1.8500000000000001** MGD of domestic wastewater in the peak month (past 3 years), with the capacity to process **6** MGD. It processed on average **0** MGD of industrial wastewater in the peak month (past 3 years), with the capacity to process **(No Capacity Reported)** MGD.

10. Wetlands (DoD Question # 251, 257):

- a. The existence of jurisdictional wetlands poses restraints on the use of land for training, testing or operations. In the data call the installations were asked to report the presence of jurisdictional wetlands and compare the percent of restricted acres to the total acres. The presence of jurisdictional wetlands may reduce the ability of an installation to assume new or different missions, even if they do not presently pose restrictions, by limiting the availability of land.
- b. **FORT BELVOIR** reported **10.2%** wetland restricted acres on the main installation, and **no** wetland restricted acres on ranges.

CRITERIA SEVEN EVALUATION TOOL

			Risk Evaluation	
		Losing Installation	Gaining Installation	LOW
Attribute	SOLDIER SYSTEMS CENTER	ABERDEEN PROVING GROUNDS	Attribute Change	
Child Care			SUSTAIN	
Housing			IMPROVE	
Cost of Living			IMPROVE	
Education			IMPROVE	
Employment			SUSTAIN	
Medical Health			IMPROVE	
Safety			DECLINE	
Population Center			SUSTAIN	
Transportation			DECLINE	
Utilities			SUSTAIN	

USA 0227

CRITERIA SEVEN EVALUATION TOOL

			Risk Evaluation	
		Losing Installation	Gaining Installation	MEDIUM
Attribute	FORT BELVOIR	ABERDEEN PROVING GROUNDS	Attribute Change	
Child Care			SUSTAIN	
Housing			SUSTAIN	
Cost of Living			IMPROVE	
Education			IMPROVE	
Employment			DECLINE	
Medical Health			SUSTAIN	
Safety			DECLINE	
Population Center			SUSTAIN	
Transportation			DECLINE	
Utilities			SUSTAIN	

USA 0227

ABERDEEN PROVING GROUND, MD

Demographics

The following tables provide a short description of the area near the installation/activity. ABERDEEN PROVING GROUND is 32.2 miles from Baltimore, MD, the nearest city with a population of 100,000 or more. The nearest metropolitan statistical area (MSA) is

MSA	Population
Baltimore MSA	2,552,994

The following entities comprise the military housing area (MHA):

County/City	Population
Cecil	85951
Harford	218590
Total	304,541

Child Care

This attribute captures the number of nationally accredited child-care centers within the local community: 32

Cost of Living

Cost of Living provides a relative measure of cost of living in the local community. General Schedule (GS) Locality Pay provides a relative scale to compare local salaries with government salaries and Basic Allowance for Housing (BAH) is an indicator of the local rental market. In-state tuition is an indicator of the support provided by the state for active duty family members to participate in higher-level education opportunities.

Median Household Income (US Avg \$41,994)	\$49,938	Basis: MSA
Median House Value (US Avg \$119,600)	\$134,900	
GS Locality Pay ("Rest of US" 10.9%)	10.9%	
O-3 with Dependents BAH Rate	\$1,264	
In-state Tuition for Family Member	Yes	
In-state Tuition Continues if Member PCSs Out of State	No	

Education

This attribute defines the population in local school districts and identifies capacity. The pupil/teacher ratio, graduation rate, percentage of certified teachers and composite SAT I/ACT scores provide a relative quality indicator of education. This attribute also attempts to give communities credit for the potential intellectual capital they provide.

NOTE: “MFR” means a Memorandum For Record is on file at the installation/activity/agency to document problems in obtaining the required information. Reasons for not being able to obtain information may be that the school district refused to provide the information or the school district does not use or track the information.

If the installation/activity/agency has incomplete information from the local school system in order to accurately compute a score in this area, the number of school districts reporting information will be captured in addition to the computed answer.

		Basis
School District(s) Capacity	464,223	7 of 7 districts
Students Enrolled	402,716	7 of 7 districts
Average Pupil/Teacher Ratio	1.2:1	7 of 7 districts
High School Students Enrolled	118,739	7 of 7 districts
Average High School Graduation Rate (US Avg 67.3%)	80.5%	7 of 7 districts
Average Composite SAT I Score (US Avg 1026)	992	7 of 7 districts
Average ACT Score (US Avg 20.8)	20	7 of 7 districts
Available Graduate/PhD Programs	6	
Available Colleges and/or Universities	7	
Available Vocational and/or Technical Schools	12	

Employment

Unemployment and job growth rates provide a relative merit of job availability in the local community. National rates from the Bureau of Labor Statistics are also provided.

The unemployment rates for the last five-years:

	1999	2000	2001	2002	2003
Local Data	4.0%	4.4%	4.5%	4.8%	5.1%
National	4.2%	4.0%	4.7%	5.8%	6.0%
Basis:	MSA	MSA	MSA	MSA	MSA

The annual job growth rate for the last five-years:

	1999	2000	2001	2002	2003
Local Data	1.7%	.2%	1.5%	1.1%	-.4%
National	1.5%	2.4%	.03%	-.31%	.86%
Basis:	MSA	MSA	MSA	MSA	MSA

Housing

This attribute provides an indication of availability of housing, both sales and rental, in the local community. Note: according to the 2000 Census, Vacant Sale and Vacant Rental Units do not equal Total Vacant Housing Units; Total Vacant Housing Units may also include units that are vacant but not on the market for sale or rent.

Total Vacant Housing Units	73,975	Basis: MSA
Vacant Sale Units	12,413	
Vacant Rental Units	21,775	

Medical Providers

This attribute provides an indicator of availability of medical care for military and DoD civilians in the local community. The table reflects the raw number of physicians/beds and ratio of physicians/beds to population.

	# Physicians	# Beds	Population	
Local Community	9,363	6,696	2,552,994	Basis: MSA
Ratio	1:273	1:381		
National Ratio (2003)	1:421.2	1:373.7		

Safety/Crime

The local community's Uniform Crime Reports (UCR) Index for 2002 per 100,000 people and the national UCR based on information from the Federal Bureau of Investigation (FBI) for 2002:

Local UCR	5,124.0	Basis: MSA
National UCR	4,118.8	

Transportation

Distance to an airport shows convenience and availability of airline transportation. Public transportation shows potential for members and DoD civilians to use it to commute to/from work under normal circumstances and for leisure.

Distance from ABERDEEN PROVING GROUND to nearest commercial airport: 46.4 miles

Is ABERDEEN PROVING GROUND served by regularly scheduled public transportation? No

Utilities

This attribute identifies a local community's water and sewer systems' ability to receive 1,000 additional people.

Does the local community's water system have the ability to meet an expanded need of an additional 1,000 people moving in the local community? Yes

Does the local community's sewer system have the ability to meet an expanded need of an additional 1,000 people moving in the local community? Yes

FORT BELVOIR, VA

Demographics

The following tables provide a short description of the area near the installation/activity. FORT BELVOIR is 8 miles from Alexandria, VA, the nearest city with a population of 100,000 or more. The nearest metropolitan statistical area (MSA) is

MSA	Population
Washington DC MSA	4,923,153

The following entities comprise the military housing area (MHA):

County/City	Population
Alexandria	128283
Arlington	189453
District Of Columbia	572059
Fairfax	969749
Falls Church	10377
Montgomery	873341
Prince George's	801515
Total	3,544,777

Child Care

This attribute captures the number of nationally accredited child-care centers within the local community: 79

Cost of Living

Cost of Living provides a relative measure of cost of living in the local community. General Schedule (GS) Locality Pay provides a relative scale to compare local salaries with government salaries and Basic Allowance for Housing (BAH) is an indicator of the local rental market. In-state tuition is an indicator of the support provided by the state for active duty family members to participate in higher-level education opportunities.

Median Household Income	(US Avg \$41,994)	\$62,216	Basis: MSA
Median House Value	(US Avg \$119,600)	\$178,900	
GS Locality Pay	("Rest of US" 10.9%)	14.6%	
O-3 with Dependents BAH Rate		\$2,006	
In-state Tuition for Family Member		No	
In-state Tuition Continues if Member PCSs Out of State		No	

Education

This attribute defines the population in local school districts and identifies capacity. The pupil/teacher ratio, graduation rate, percentage of certified teachers and composite SAT I/ACT scores provide a relative quality indicator of education. This attribute also attempts to give communities credit for the potential intellectual capital they provide.

NOTE: “MFR” means a Memorandum For Record is on file at the installation/activity/agency to document problems in obtaining the required information. Reasons for not being able to obtain information may be that the school district refused to provide the information or the school district does not use or track the information.

If the installation/activity/agency has incomplete information from the local school system in order to accurately compute a score in this area, the number of school districts reporting information will be captured in addition to the computed answer.

		Basis
School District(s) Capacity	227,602	2 of 2 districts
Students Enrolled	220,963	2 of 2 districts
Average Pupil/Teacher Ratio	15.6:1	2 of 2 districts
High School Students Enrolled	66,102	2 of 2 districts
Average High School Graduation Rate (US Avg 67.3%)	96.7%	2 of 2 districts
Average Composite SAT I Score (US Avg 1026)	1077	2 of 2 districts
Average ACT Score (US Avg 20.8)	21	2 of 2 districts
Available Graduate/PhD Programs	6	
Available Colleges and/or Universities	15	
Available Vocational and/or Technical Schools	2	

Employment

Unemployment and job growth rates provide a relative merit of job availability in the local community. National rates from the Bureau of Labor Statistics are also provided.

The unemployment rates for the last five-years:

	1999	2000	2001	2002	2003
Local Data	2.6%	2.4%	3.1%	3.7%	3.5%
National	4.2%	4.0%	4.7%	5.8%	6.0%
Basis:	MSA	MSA	MSA	MSA	MSA

The annual job growth rate for the last five-years:

	1999	2000	2001	2002	2003
Local Data	3.3%	3.0%	1.4%	1.0%	1.0%
National	1.5%	2.4%	.03%	-.31%	.86%
Basis:	MSA	MSA	MSA	MSA	MSA

Housing

This attribute provides an indication of availability of housing, both sales and rental, in the local community. Note: according to the 2000 Census, Vacant Sale and Vacant Rental Units do not equal Total Vacant Housing Units; Total Vacant Housing Units may also include units that are vacant but not on the market for sale or rent.

Total Vacant Housing Units	94,577	Basis: MSA
Vacant Sale Units	19,464	
Vacant Rental Units	29,918	

Medical Providers

This attribute provides an indicator of availability of medical care for military and DoD civilians in the local community. The table reflects the raw number of physicians/beds and ratio of physicians/beds to population.

	# Physicians	# Beds	Population	Basis: MSA
Local Community	15,810	9,163	4,923,153	
Ratio	1:311	1:537		
National Ratio (2003)	1:421.2	1:373.7		

Safety/Crime

The local community's Uniform Crime Reports (UCR) Index for 2002 per 100,000 people and the national UCR based on information from the Federal Bureau of Investigation (FBI) for 2002:

Local UCR	4,047.0	Basis: MSA
National UCR	4,118.8	

Transportation

Distance to an airport shows convenience and availability of airline transportation. Public transportation shows potential for members and DoD civilians to use it to commute to/from work under normal circumstances and for leisure.

Distance from FORT BELVOIR to nearest commercial airport: 19.9 miles
Is FORT BELVOIR served by regularly scheduled public transportation? Yes

Utilities

This attribute identifies a local community's water and sewer systems' ability to receive 1,000 additional people.

Does the local community's water system have the ability to meet an expanded need of an additional 1,000 people moving in the local community? Yes

Does the local community's sewer system have the ability to meet an expanded need of an additional 1,000 people moving in the local community? Yes

SOLDIER SYSTEMS CENTER, MA

Demographics

The following tables provide a short description of the area near the installation/activity. SOLDIER SYSTEMS CENTER is 20 miles from Boston, MA, the nearest city with a population of 100,000 or more. The nearest metropolitan statistical area (MSA) is

MSA	Population
Boston MSA	3,406,829

The following entities comprise the military housing area (MHA):

County/City	Population
Bristol	534678
Essex	723419
Middlesex	1465396
Norfolk	650308
Plymouth	472822
Suffolk	689
Worcester	750963
Total	4,598,275

Child Care

This attribute captures the number of nationally accredited child-care centers within the local community: 21

Cost of Living

Cost of Living provides a relative measure of cost of living in the local community. General Schedule (GS) Locality Pay provides a relative scale to compare local salaries with government salaries and Basic Allowance for Housing (BAH) is an indicator of the local rental market. In-state tuition is an indicator of the support provided by the state for active duty family members to participate in higher-level education opportunities.

Median Household Income	(US Avg \$41,994)	\$55,183	Basis: MSA
Median House Value	(US Avg \$119,600)	\$233,600	
GS Locality Pay	("Rest of US" 10.9%)	17.0%	
O-3 with Dependents BAH Rate		\$2,359	
In-state Tuition for Family Member		No	
In-state Tuition Continues if Member PCSs Out of State		No	

Education

This attribute defines the population in local school districts and identifies capacity. The pupil/teacher ratio, graduation rate, percentage of certified teachers and composite SAT I/ACT scores provide a relative quality indicator of education. This attribute also attempts to give communities credit for the potential intellectual capital they provide.

NOTE: “MFR” means a Memorandum For Record is on file at the installation/activity/agency to document problems in obtaining the required information. Reasons for not being able to obtain information may be that the school district refused to provide the information or the school district does not use or track the information.

If the installation/activity/agency has incomplete information from the local school system in order to accurately compute a score in this area, the number of school districts reporting information will be captured in addition to the computed answer.

		Basis
School District(s) Capacity	17,480	4 of 4 districts
Students Enrolled	14,885	4 of 4 districts
Average Pupil/Teacher Ratio	15.5:1	4 of 4 districts
High School Students Enrolled	4,348	4 of 4 districts
Average High School Graduation Rate (US Avg 67.3%)	98.5%	4 of 4 districts
Average Composite SAT I Score (US Avg 1026)	1124	4 of 4 districts
Average ACT Score (US Avg 20.8)		
Available Graduate/PhD Programs	47	
Available Colleges and/or Universities	63	
Available Vocational and/or Technical Schools	31	

Employment

Unemployment and job growth rates provide a relative merit of job availability in the local community. National rates from the Bureau of Labor Statistics are also provided.

The unemployment rates for the last five-years:

	1999	2000	2001	2002	2003
Local Data	2.7%	2.2%	3.2%	4.8%	5.2%
National	4.2%	4.0%	4.7%	5.8%	6.0%
Basis:	MSA	MSA	MSA	MSA	MSA

The annual job growth rate for the last five-years:

	1999	2000	2001	2002	2003
Local Data	.5%	- .5%	1.1%	- .2%	-2.6%
National	1.5%	2.4%	.03%	-.31%	.86%
Basis:	MSA	MSA	MSA	MSA	MSA

Housing

This attribute provides an indication of availability of housing, both sales and rental, in the local community. Note: according to the 2000 Census, Vacant Sale and Vacant Rental Units do not equal Total Vacant Housing Units; Total Vacant Housing Units may also include units that are vacant but not on the market for sale or rent.

Total Vacant Housing Units	54,219	Basis: MSA
Vacant Sale Units	6,248	
Vacant Rental Units	16,124	

Medical Providers

This attribute provides an indicator of availability of medical care for military and DoD civilians in the local community. The table reflects the raw number of physicians/beds and ratio of physicians/beds to population.

	# Physicians	# Beds	Population	Basis: MSA
Local Community	3,812	2,975	3,406,829	
Ratio	1:894	1:1,145		
National Ratio (2003)	1:421.2	1:373.7		

Safety/Crime

The local community's Uniform Crime Reports (UCR) Index for 2002 per 100,000 people and the national UCR based on information from the Federal Bureau of Investigation (FBI) for 2002:

Local UCR	2,920.0	Basis: MSA
National UCR	4,118.8	

Transportation

Distance to an airport shows convenience and availability of airline transportation. Public transportation shows potential for members and DoD civilians to use it to commute to/from work under normal circumstances and for leisure.

Distance from SOLDIER SYSTEMS CENTER to nearest commercial airport: 21.0 miles
Is SOLDIER SYSTEMS CENTER served by regularly scheduled public transportation?
Yes

Utilities

This attribute identifies a local community's water and sewer systems' ability to receive 1,000 additional people.

Does the local community's water system have the ability to meet an expanded need of an additional 1,000 people moving in the local community? Yes

Does the local community's sewer system have the ability to meet an expanded need of an additional 1,000 people moving in the local community? Yes