



J&CS - Industrial Recommendations	Base Name	Comments					
	Riverbank Army Ammunition Plant	One source, small quantities					
	Rock Island Arsenal						
	Sierra Army Depot, CA						
	Crane Army Ammunition Activity						
	McAlester Army Ammunition Plant						
	Sierra Army Depot						
	Tooele Army Depot	California stopped demilling of munitions					
	Rock Island Arsenal, IL						
	Anniston Army Depot						
	Letterkenny Army Depot						
	Rock Island Arsenal						
	Newport Chemical Depot, IN						
	Newport Chemical Depot	Qualified to end of mission date; question of completion date for demil					
	Undistributed or Overseas Reductions						
	Kansas Army Ammunition Plant, KS						
	Kansas Army Ammunition Plant						
	Iowa Army Ammunition Plant	Language land, facilities and, equipment to LRA; potentially proprietary processes					
	Crane Army Ammunition Activity						
	McAlester Army Ammunition Plant						
	Lima Tank Plant, OH						
	Lima Tank Plant						
	Mississippi Army Ammunition Plant, MS	Footprint currently in full usage					
	Mississippi Army Ammunition Plant	Community supports closure					
	Rock Island Arsenal						
	Undistributed or Overseas Reductions						
	Hawthorne Army Depot, NV						
	Hawthorne Army Depot	Many concerns regarding missions and demil					
	Tooele Army Depot	Concerns about storage and demil capacities					
	Undistributed or Overseas Reductions						
	Watervliet Arsenal, NY						
	Watervliet Arsenal	No personnel impact, disestablish capacity reduce footprint					
	Umatilla Chemical Depot, OR						
	Umatilla Army Depot	Qualified to end of mission date; question of completion date for demil					
	Lone Star Army Ammunition Plant, TX						
	Lone Star Army Ammunition Plant	Language land, facilities and, equipment to LRA; potentially proprietary processes					
	Iowa Army Ammunition Plant						
	Crane Army Ammunition Activity						
	McAlester Army Ammunition Plant						
	Milhan Army Ammunition Plant						
	Deseret Chemical Depot, UT						
	Deseret Chemical Depot	Qualified to end of mission date; question of completion date for demil					

Net Site Impact for all Recommendations

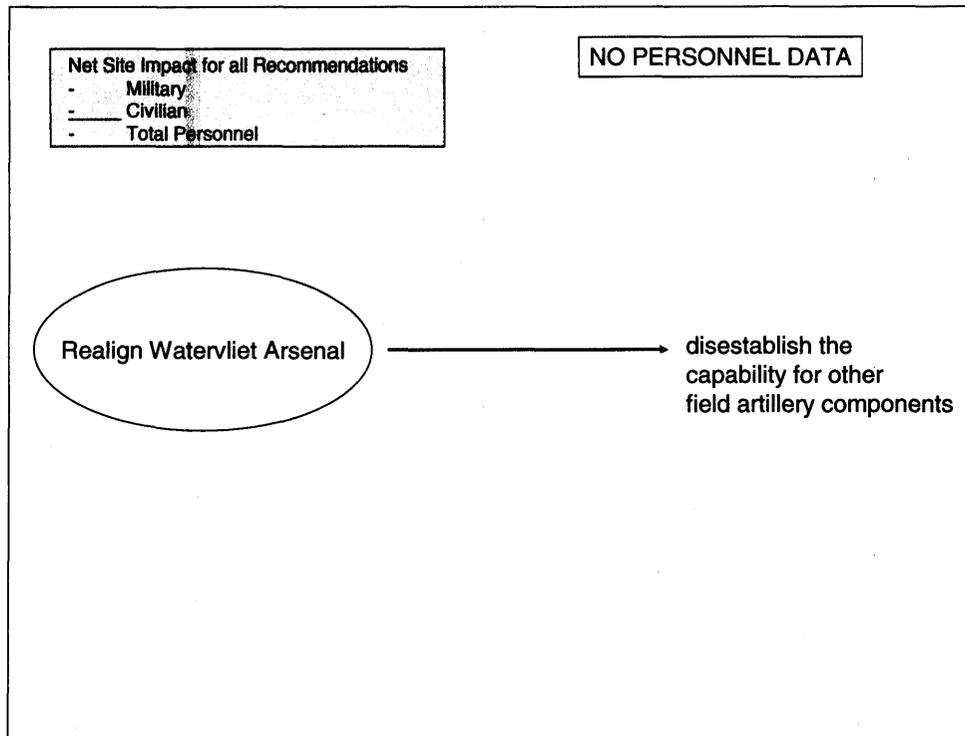
- Military
- Civilian
- Total Personnel

NO PERSONNEL DATA

Realign Watervliet Arsenal



disestablish the  
capability for other  
field artillery components



**Watervliet Arsenal, NY**

**Recommendation:** Realign Watervliet Arsenal, NY, by disestablishing all capabilities for Other Field Artillery Components.

**Justification:** The Department no longer requires the capability for Other Field Artillery Components at Watervliet Arsenal.

The Department will require and will retain at Watervliet Arsenal the capability to support core cannon tube, rotary forge, and swage. Disestablishing the Other Field Artillery Components capability will allow the Department to reduce its overall footprint at Watervliet Arsenal. It will also allow the Department to explore partnering with the local community, perhaps through a leaseback arrangement. This type of partnering could allow the government to reduce its footprint while maintaining that portion of Watervliet Arsenal needed to fulfill core capabilities.

**Issues:**

The impact is unknown without the TABS data, however, the site will fight this.

personnel. There are no known community infrastructure impediments to implementation of all recommendations affecting the installations in this recommendation.

**Environmental Impact:** This recommendation has expected impact on air quality at Tooele Army Depot. Air Conformity analysis will likely be necessary. Surveys and consultation with the State Historic Preservation Officer will be required at Hawthorne Army Depot. Restoration monitoring/sweeps, access controls and/or deed restrictions may be required at Hawthorne to prevent disturbance and health/safety risks, and/or long-term release of toxins to environmental media. Restoration and/or monitoring of contaminated media may be required after closure. Hawthorne also has domestic and industrial wastewater treatment plants that may require closure. This recommendation has no impact on dredging; cultural, archeological, or tribal resources; marine mammals, resources, or sanctuaries; noise; or wetlands. This recommendation will require spending approximately \$1.5M for environmental compliance activities. This cost was included in the payback calculation. Hawthorne reports approximately \$383.2M in environmental restoration costs. Because the Department of Defense has a legal obligation to perform environmental restoration regardless of whether an installation is closed, realigned, or remains open, this cost was not included in the payback calculation. This recommendation does not otherwise impact the costs of environmental restoration, waste management, and environmental compliance activities. The aggregate environmental impact of all recommended BRAC actions affecting the bases in this recommendation has been reviewed. There are no known environmental impediments to implementation of this recommendation.

### **Watervliet Arsenal, NY**

**Recommendation:** Realign Watervliet Arsenal, NY, by disestablishing all capabilities for Other Field Artillery Components.

**Justification:** The Department no longer requires the capability for Other Field Artillery Components at Watervliet Arsenal. The Department will require and will retain at Watervliet Arsenal the capability to support core cannon tube, rotary forge, and swage. Disestablishing the Other Field Artillery Components capability will allow the Department to reduce its overall footprint at Watervliet Arsenal. It will also allow the Department to explore partnering with the local community, perhaps through a leaseback arrangement. This type of partnering could allow the government to reduce its footprint while maintaining that portion of Watervliet Arsenal needed to fulfill core capabilities.

**Payback:** The total estimated one-time cost to the Department of Defense to implement this recommendation is \$63.7M. The net of all costs and savings to the Department during the implementation period is a cost of \$46.8M. Annual recurring savings to the Department after implementation are \$5.2M with a payback expected in 18 years. The net present value of the costs and savings to the Department over 20 years is a savings of \$5.2M.

**Economic Impact on Communities:** This recommendation will not result in any job reductions over the period 2006-2011 in the Troy, NY Metropolitan Statistical Area. The aggregate

economic impact of all recommended actions on this economic region of influence was considered and is at Appendix B of Volume I.

**Community Infrastructure Assessment:** A review of community attributes indicates no issues regarding the ability of the infrastructure of the community to support missions, forces, and personnel. There are no known community infrastructure impediments to implementation of all recommendations affecting the installations in this recommendation.

**Environmental Impact:** Surveys and consultation with SHPO will be required to ensure protection of cultural resources on Watervliet Arsenal. Restoration and monitoring of contaminated groundwater sites at Watervliet Arsenal will likely be required after to prevent significant long-term impacts to the environment. This recommendation has no impact on air quality; dredging; land use constraints or sensitive resource areas; marine mammals, resources, or sanctuaries; noise; threatened and endangered species or critical habitat; waste management; or wetlands. This recommendation will require spending approximately \$1.3M for environmental compliance activities. This cost was included in the payback calculation. This recommendation does not otherwise impact the costs of environmental restoration, waste management, or environmental compliance activities. The aggregate environmental impact of all recommended BRAC actions affecting the bases in this recommendation has been reviewed. There are no known environmental impediments to implementation of this recommendation.

### **Umatilla Chemical Depot, OR**

**Recommendation:** Close Umatilla Chemical Depot, OR.

**Justification:** There is no additional chemical demilitarization workload slated to go to Umatilla Chemical Depot. The projected date for completion of its existing workload is 2nd quarter of 2011. There is no further use for Umatilla Chemical Depot.

**Payback:** The total one time cost to the Department of Defense to implement this recommendation is \$15.5M. The net of all costs and savings to the Department during the implementation period is a savings of \$89.1M. Annual recurring savings to the Department after implementation are \$61.0M with a payback expected immediately. The Net present value of the costs and savings to the Department over 20 years is a savings of \$681.1M.

**Economic Impact on Communities:** Assuming no economic recovery, this recommendation could result in a maximum potential reduction of 884 jobs (512 direct jobs and 372 indirect jobs) over the 2006 – 2011 period in the Pendleton-Hermiston, OR Micropolitan Statistical Area, which is 2.0 percent of economic area employment. The aggregate economic impact of all recommended actions on this economic region of influence was considered and is at Appendix B of Volume I.

**Community Infrastructure Assessment:** A review of community attributes indicates no issues regarding the ability of the infrastructure of the community to support missions, forces, and

2 Pendaflex

2 Esselte



30%

F4

10-130

# *IJCSG - Munitions / Armaments Capacity Report*

<i>Function</i>	<i>Site</i>	<i>Current Capacity*</i>	<i>Current Usage*</i>	<i>Maximum Capacity*</i>	<i>Capacity Required To Surge*</i>	<i>Capacity Available to Surge/Excess Capacity*</i>
<b>Armaments Production/Manufacturing</b>						
	LIMA ARMY TANK PLT	866.9	666.2	3,525.6	0	2,859.4
	ROCK ISLAND ARSENAL	1,296.0	605.4	1,491.7	0	886.3
	WATERVLIET ARSENAL	627.1	304.9	1,343.1	0	1,038.2

\* Capacity is measured in dlh(k)

*Report Date: Thursday, April 21, 2005*

*Database Date: April 18, 2005*

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*Page 1 of 1*

# *IJCSG Summary Military Value Report for Munitions*

<i>Activity:</i>	<i>Score:</i>
<i>Armaments Production</i>	
ROCK ISLAND ARSENAL	0.9520
WATERVLIET ARSENAL	0.8687
LIMA ARMY TANK PLT	0.5844



COBRA REALIGNMENT SUMMARY REPORT (COBRA v6.10) - Page 1/2  
 Data As Of 4/25/2005 8:43:40 AM, Report Created 4/25/2005 8:43:42 AM

Department : Industrial  
 Scenario File : Z:\Cobra\Munitions&Armaments\IND 0114 Realign Watervliet Arsenal\IND 0114 Realign Watervliet Arsenal Cobra 04202005.CBR  
 Option Pkg Name: IND 0114 Realign Watervliet  
 Std Fctrs File : C:\Documents and Settings\Desktop\COBRA 6.10\BRAC2005.SFF

Starting Year : 2006  
 Final Year : 2006  
 Payback Year : 2024 (18 Years)

NPV in 2025(\$K): -5,381  
 1-Time Cost(\$K): 63,701

Net Costs 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	0	0	0	0	0
Overhd	-428	-923	-1,417	-4,012	-4,607	-5,101	-16,488	-5,168
Moving	0	0	0	0	0	0	0	0
Missio	0	0	0	0	0	0	0	0
Other	8,400	25,500	29,400	0	0	0	63,300	0
<b>TOTAL</b>	<b>7,972</b>	<b>24,577</b>	<b>27,983</b>	<b>-4,012</b>	<b>-4,607</b>	<b>-5,101</b>	<b>46,812</b>	<b>-5,168</b>
	2006	2007	2008	2009	2010	2011	Total	
	----	----	----	----	----	----	----	
<b>POSITIONS ELIMINATED</b>								
Off	0	0	0	0	0	0	0	
Enl	0	0	0	0	0	0	0	
Civ	0	0	0	0	0	0	0	
TOT	0	0	0	0	0	0	0	
<b>POSITIONS REALIGNED</b>								
Off	0	0	0	0	0	0	0	
Enl	0	0	0	0	0	0	0	
Stu	0	0	0	0	0	0	0	
Civ	0	0	0	0	0	0	0	
TOT	0	0	0	0	0	0	0	

Summary:

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 Realign Watervliet Arsenal, NY, by disestablishing all capabilities for Other Field Artillery Components.

Department : Industrial  
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Costs 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	0	0	0	0	0
Overhd	67	67	67	67	67	67	401	0
Moving	0	0	0	0	0	0	0	0
Missio	0	0	0	0	0	0	0	0
Other	8,400	25,500	29,400	0	0	0	63,300	0
TOTAL	8,467	25,567	29,467	67	67	67	63,701	0

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	0	0	0	0	0
Overhd	495	989	1,484	4,079	4,674	5,168	16,889	5,168
Moving	0	0	0	0	0	0	0	0
Missio	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0
TOTAL	495	989	1,484	4,079	4,674	5,168	16,889	5,168

COBRA PERSONNEL/SF/SUSTAINMENT/RECAP/BOS DELTAS REPORT (COBRA v6.10)  
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Personnel					
Base	Start*	Finish*	Change	%Change	
WATERVLIET ARSENAL	830	830	0	0%	
TOTAL	830	830	0	0%	

Square Footage					
Base	Start	Finish	Change	%Change	Chg/Per
WATERVLIET ARSENAL	2,091,000	1,200,000	-891,000	-43%	0
TOTAL	2,091,000	1,200,000	-891,000	-43%	0

Base Operations Support (2005\$)					
Base	Start*	Finish*	Change	%Change	Chg/Per
WATERVLIET ARSENAL	10,694,593	10,694,593	0	0%	0
TOTAL	10,694,593	10,694,593	0	0%	0

Sustainment (2005\$)					
Base	Start	Finish	Change	%Change	Chg/Per
WATERVLIET ARSENAL	2,953,964	1,695,245	-1,258,719	-43%	0
TOTAL	2,953,964	1,695,245	-1,258,719	-43%	0

Recapitalization (2005\$)					
Base	Start	Finish	Change	%Change	Chg/Per
WATERVLIET ARSENAL	4,012,225	2,302,568	-1,709,657	-43%	0
TOTAL	4,012,225	2,302,568	-1,709,657	-43%	0

Sustain + Recap + BOS (2005\$)					
Base	Start	Finish	Change	%Change	Chg/Per
WATERVLIET ARSENAL	17,660,782	14,692,406	-2,968,376	-17%	0
TOTAL	17,660,782	14,692,406	-2,968,376	-17%	0

Plant Replacement Value (2005\$)					
Base	Start	Finish	Change	%Change	Chg/Per
WATERVLIET ARSENAL	413,259,233	237,164,553	-176,094,680	-43%	0
TOTAL	413,259,233	237,164,553	-176,094,680	-43%	0

\* "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 v6.10) - Page 1/6  
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ONE-TIME COSTS -----(\$K)-----	2006 ----	2007 ----	2008 ----	2009 ----	2010 ----	2011 ----	Total -----
CONSTRUCTION							
MILCON	0	0	0	0	0	0	0
O&M							
CIV SALARY							
Civ RIF	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 Contract	0	0	0	0	0	0	0
Mothball	67	67	67	67	67	67	401
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	1,300	0	0	0	1,300
Misn Contract	0	0	0	0	0	0	0
1-Time Other	8,400	25,500	28,100	0	0	0	62,000
TOTAL ONE-TIME	8,467	25,567	29,467	67	67	67	63,701

TOTAL COBRA REALIGNMENT DETAIL REPORT (COBRA v6.10) - Page 2/6  
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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
<b>TOTAL COST</b>	<b>8,467</b>	<b>25,567</b>	<b>29,467</b>	<b>67</b>	<b>67</b>	<b>67</b>	<b>63,701</b>	<b>0</b>
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	210	419	629	839	1,049	1,259	4,405	1,259
Recap	285	570	855	1,140	1,425	1,710	5,984	1,710
BOS	0	0	0	0	0	0	0	0
Civ Salary	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								
Procurement	0	0	0	0	0	0	0	0
Mission Activ	0	0	0	0	0	0	0	0
Misc Recur	0	0	0	2,100	2,200	2,200	6,500	2,200
TOTAL RECUR	495	989	1,484	4,079	4,674	5,168	16,889	5,168
<b>TOTAL SAVINGS</b>	<b>495</b>	<b>989</b>	<b>1,484</b>	<b>4,079</b>	<b>4,674</b>	<b>5,168</b>	<b>16,889</b>	<b>5,168</b>

TOTAL COBRA REALIGNMENT DETAIL REPORT (COBRA v6.10) - Page 3/6  
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ONE-TIME NET	2006	2007	2008	2009	2010	2011	Total	
-----(\$K)-----	----	----	----	----	----	----	-----	-----
<b>CONSTRUCTION</b>								
MILCON	0	0	0	0	0	0	0	0
<b>O&amp;M</b>								
Civ Retir/RIF	0	0	0	0	0	0	0	0
Civ Moving	0	0	0	0	0	0	0	0
Info Tech	0	0	0	0	0	0	0	0
Other	67	67	67	67	67	67	401	
<b>MIL PERSONNEL</b>								
Mil Moving	0	0	0	0	0	0	0	0
<b>OTHER</b>								
HAP / RSE	0	0	0	0	0	0	0	0
Environmental	0	0	1,300	0	0	0	1,300	
Misn Contract	0	0	0	0	0	0	0	0
1-Time Other	8,400	25,500	28,100	0	0	0	62,000	
<b>TOTAL ONE-TIME</b>	<b>8,467</b>	<b>25,567</b>	<b>29,467</b>	<b>67</b>	<b>67</b>	<b>67</b>	<b>62,401</b>	
<b>RECURRING NET</b>								
-----(\$K)-----	----	----	----	----	----	----	-----	-----
<b>FAM HOUSE OPS</b>								
O&M	0	0	0	0	0	0	0	0
Sustainment	-210	-419	-629	-839	-1,049	-1,259	-4,405	-1,259
Recap	-285	-570	-855	-1,140	-1,425	-1,710	-5,984	-1,710
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
<b>MIL PERSONNEL</b>								
Mil Salary	0	0	0	0	0	0	0	0
House Allow	0	0	0	0	0	0	0	0
<b>OTHER</b>								
Procurement	0	0	0	0	0	0	0	0
Mission Activ	0	0	0	0	0	0	0	0
Misc RECUR	0	0	0	-2,100	-2,200	-2,200	-6,500	-2,200
<b>TOTAL RECUR</b>	<b>-495</b>	<b>-989</b>	<b>-1,484</b>	<b>-4,079</b>	<b>-4,674</b>	<b>-5,168</b>	<b>-16,889</b>	<b>-5,168</b>
<b>TOTAL NET COST</b>	<b>7,972</b>	<b>24,577</b>	<b>27,983</b>	<b>-4,012</b>	<b>-4,607</b>	<b>-5,101</b>	<b>46,812</b>	<b>-5,168</b>

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Base: WATERVLIET ARSENAL, NY (36939)							
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	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	67	67	67	67	67	67	401
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	1,300	0	0	0	1,300
Misc Contract	0	0	0	0	0	0	0
1-Time Other	8,400	25,500	28,100	0	0	0	62,000
TOTAL ONE-TIME	8,467	25,567	29,467	67	67	67	63,701

COBRA REALIGNMENT DETAIL REPORT (COBRA v6.10) - Page 5/6  
 Data As Of 4/25/2005 8:43:40 AM, Report Created 4/25/2005 8:43:42 AM

Department : Industrial  
 Scenario File : Z:\Cobra\Munitions&Armaments\IND 0114 Realign Watervliet Arsenal\IND 0114 Realign Watervliet Arsenal Cobra 04202005.CBR  
 Option Pkg Name: IND 0114 Realign Watervliet  
 Std Fctrs File : C:\Documents and Settings\Desktop\COBRA 6.10\BRAC2005.SFF

Base: WATERVLIET ARSENAL, NY (36939)

RECURRINGCOSTS	2006	2007	2008	2009	2010	2011	Total	Beyond
-----(\$K)-----	----	----	----	----	----	----	-----	-----
<b>O&amp;M</b>								
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
<b>MIL PERSONNEL</b>								
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
<b>OTHER</b>								
Mission Activ	0	0	0	0	0	0	0	0
Misc Recur	0	0	0	0	0	0	0	0
<b>TOTAL RECUR</b>	<b>0</b>							

**TOTAL COSTS**            8,467        25,567        29,467        67            67            67        63,701        0

ONE-TIME SAVES	2006	2007	2008	2009	2010	2011	Total
-----(\$K)-----	----	----	----	----	----	----	-----
<b>CONSTRUCTION</b>							
MILCON	0	0	0	0	0	0	0
<b>O&amp;M</b>							
1-Time Move	0	0	0	0	0	0	0
<b>MIL PERSONNEL</b>							
Mil Moving	0	0	0	0	0	0	0
<b>OTHER</b>							
Environmental	0	0	0	0	0	0	0
1-Time Other	0	0	0	0	0	0	0
<b>TOTAL ONE-TIME</b>	<b>0</b>						

RECURRINGSAVES	2006	2007	2008	2009	2010	2011	Total	Beyond
-----(\$K)-----	----	----	----	----	----	----	-----	-----
<b>FAM HOUSE OPS</b>								
O&M								
Sustainment	210	419	629	839	1,049	1,259	4,405	1,259
Recap	285	570	855	1,140	1,425	1,710	5,984	1,710
BOS	0	0	0	0	0	0	0	0
Civ Salary	0	0	0	0	0	0	0	0
<b>MIL PERSONNEL</b>								
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
<b>OTHER</b>								
Procurement	0	0	0	0	0	0	0	0
Mission Activ	0	0	0	0	0	0	0	0
Misc Recur	0	0	0	2,100	2,200	2,200	6,500	2,200
<b>TOTAL RECUR</b>	<b>495</b>	<b>989</b>	<b>1,484</b>	<b>4,079</b>	<b>4,674</b>	<b>5,168</b>	<b>16,889</b>	<b>5,168</b>
<b>TOTAL SAVINGS</b>	<b>495</b>	<b>989</b>	<b>1,484</b>	<b>4,079</b>	<b>4,674</b>	<b>5,168</b>	<b>16,889</b>	<b>5,168</b>

Department : Industrial  
 Scenario File : Z:\Cobra\Munitions&Armaments\IND 0114 Realign Watervliet Arsenal\IND 0114 Realign Watervliet Arsenal Cobra 04202005.CBR  
 Option Pkg Name: IND 0114 Realign Watervliet  
 Std Fctrs File : C:\Documents and Settings\Desktop\COBRA 6.10\BRAC2005.SFF

Base: WATERVLIET ARSENAL, NY (36939)

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	0	0	0	0	
Civ Moving	0	0	0	0	0	0	0	
Info Tech	0	0	0	0	0	0	0	
Other	67	67	67	67	67	67	401	
MIL PERSONNEL								
Mil Moving	0	0	0	0	0	0	0	
OTHER								
HAP / RSE	0	0	0	0	0	0	0	
Environmental	0	0	1,300	0	0	0	1,300	
Misn Contract	0	0	0	0	0	0	0	
1-Time Other	8,400	25,500	28,100	0	0	0	62,000	
TOTAL ONE-TIME	8,467	25,567	29,467	67	67	67	63,701	
RECURRING NET								
-----(\$K)-----	----	----	----	----	----	----	-----	-----
FAM HOUSE OPS	0	0	0	0	0	0	0	0
O&M								
Sustainment	-210	-419	-629	-839	-1,049	-1,259	-4,405	-1,259
Recap	-285	-570	-855	-1,140	-1,425	-1,710	-5,984	-1,710
BOS	0	0	0	0	0	0	0	0
Civ Salary	0	0	0	0	0	0	0	0
TRICARE								
MIL PERSONNEL	0	0	0	0	0	0	0	0
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	-2,100	-2,200	-2,200	-6,500	-2,200
TOTAL RECUR	-495	-989	-1,484	-4,079	-4,674	-5,168	-16,889	-5,168
TOTAL NET COST	7,972	24,577	27,983	-4,012	-4,607	-5,101	46,812	-5,168

COBRA ECONOMIC IMPACT REPORT (COBRA v6.10)

Data As Of 4/25/2005 8:43:40 AM, Report Created 4/25/2005 8:43:42 AM

Department : Industrial  
 Scenario File : Z:\Cobra\Munitions&Armaments\IND 0114 Realign Watervliet Arsenal\IND 0114 Realign Watervliet Arsenal Cobra 04202005.CBR  
 Option Pkg Name: IND 0114 Realign Watervliet  
 Std Fctrs File : C:\Documents and Settings\Desktop\COBRA 6.10\BRAC2005.SFF

WATERVLIET ARSENAL, NY (36939)

	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	0	0	0	0
Jobs Lost-Civ	0	0	0	0	0	0	0
NET CHANGE-Civ	0	0	0	0	0	0	0
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

SCENARIO ERROR REPORT (COBRA v6.10)

Data As Of 4/25/2005 8:43:40 AM, Report Created 4/25/2005 8:43:42 AM

Department : Industrial  
Scenario File : Z:\Cobra\Munitions&Armaments\IND 0114 Realign Watervliet Arsenal\IND 0114 Realign Watervliet Arsenal Cobra 04202005.CBR  
Option Pkg Name: IND 0114 Realign Watervliet  
Std Fctrs File : C:\Documents and Settings\Desktop\COBRA 6.10\BRAC2005.SFF

SCENARIO DATA:

"Industrial" is not a recognized Department.

COBRA INPUT DATA REPORT (COBRA v6.10)  
 Data As Of 4/25/2005 8:43:40 AM, Report Created 4/25/2005 8:43:42 AM

Department : Industrial  
 Scenario File : Z:\Cobra\Munitions&Armaments\IND 0114 Realign Watervliet Arsenal\IND 0114 Realign Watervliet Arsenal Cobra 04202005.CBR  
 Option Pkg Name: IND 0114 Realign Watervliet  
 Std Fctrs File : C:\Documents and Settings\Desktop\COBRA 6.10\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:
-----	-----
WATERVLIET ARSENAL, NY (36939)	Realignment

INPUT SCREEN FOUR - STATIC BASE INFORMATION

Name: WATERVLIET ARSENAL, NY (36939)

Total Officer Employees:	7	Base Service (for BOS/Sust):	Army
Total Enlisted Employees:	13	Total Sustainment (\$K/Year):	4,803
Total Student Employees:	0	Sustain Payroll (\$K/Year):	1,849
Total Civilian Employees:	859	BOS Non-Payroll (\$K/Year):	10,741
Accomp Mil not Receiving BAH:	19.9%	BOS Payroll (\$K/Year):	15,915
Officer Housing Units Avail:	4	Family Housing (\$K/Year):	223
Enlisted Housing Units Avail:	5	Installation PRV(\$K):	413,259
Starting Facilities(KSF):	2,091	Svc/Agcy Recap Rate (Years):	103
Officer BAH (\$/Month):	1,360	Homeowner Assistance Program:	No
Enlisted BAH (\$/Month):	981		
Civ Locality Pay Factor:	1.109	TRICARE	In-Pat Out-Pat
Area Cost Factor:	1.02		Admits Visits Prescrip
Per Diem Rate (\$/Day):	143	CostFactor	0.00 0.00 0.00
Freight Cost (\$/Ton/Mile):	0.33	Actv MTF	0 0 0
Vehicle Cost (\$/Lift/Mile):	4.84	Actv Purch	0 0 0
Latitude:	42.716667	Retiree	0 0 0
Longitude:	-73.700000	Retiree65+	0 0 0

Department : Industrial  
 Scenario File : Z:\Cobra\Munitions&Armaments\IND 0114 Realign Watervliet Arsenal\IND 0114 Realign Watervliet Arsenal Cobra 04202005.CBR  
 Option Pkg Name: IND 0114 Realign Watervliet  
 Std Fctrs File : C:\Documents and Settings\Desktop\COBRA 6.10\BRAC2005.SFF

INPUT SCREEN FIVE - DYNAMIC BASE INFORMATION

Name: WATERVLIET ARSENAL, NY (36939)

	2006	2007	2008	2009	2010	2011
1-Time Unique Cost (\$K):	8,400	25,500	28,100	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	1,300	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	2,100	2,200	2,200
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):			891	FH ShDn:	0.000%

INPUT SCREEN SIX - BASE PERSONNEL INFORMATION

Name: WATERVLIET ARSENAL, NY (36939)

	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:	0	0	0	0	0	0
Enl Prog nonBRAC Change:	0	0	0	0	0	0
Civ Prog nonBRAC Change:	-32	-16	0	-1	0	0
Stu Prog nonBRAC Change:	0	0	0	0	0	0
Prog FH Privatization:	0%	0%	0%	0%	0%	0%

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%		

Department : Industrial  
 Scenario File : Z:\Cobra\Munitions&Armaments\IND 0114 Realign Watervliet Arsenal\IND 0114 Realign Watervliet Arsenal Cobra 04202005.CBR  
 Option Pkg Name: IND 0114 Realign Watervliet  
 Std Fctrs File : C:\Documents and Settings\Desktop\COBRA 6.10\BRAC2005.SFF

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:	2.80%	

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

Department : Industrial  
Scenario File : Z:\Cobra\Munitions&Armaments\IND 0114 Realign Watervliet Arsenal\IND 0114 Realign Watervliet Arsenal Cobra 04202005.CBR  
Option Pkg Name: IND 0114 Realign Watervliet  
Std Fctrs File : C:\Documents and Settings\Desktop\COBRA 6.10\BRAC2005.SFF

FOOTNOTES FOR SCREEN ONE

=====  
Realign Watervliet Arsenal, NY, by disestablishing all capabilities for Other Field Artillery Components.

FOOTNOTES FOR SCREEN FIVE

=====  
FY 06 \$8,400k: Cost for footprint reduction for Watervliet MA-3 Action 2)

FY 07 \$25,500k: \$5,700k for footprint reduction for Watervliet (MA-3 Action 2)  
\$19,800k for footprint reduction for Benet Lab MA-3 Action 2)

FY 08 \$28,100k: \$2,900k for footprint reduction for Watervliet MA-3 Action 2)  
\$24,200k for footprint reduction for Benet Lab (MA-3 Action 2)  
\$1,000k cost to the state of New York for re-districting (MA-3 Action 2)

FY 08 \$1,300k: From page 3 of criteria 8, Summary of Scenario Environmental Impacts, "COBRA costs" for EBS and Disposal EIS. FY 08 was selected because the Military Department wants to obtain environmental permits, waivers, and restrictions by the end of FY 08 and completion of decommissioning NLT end of FY 11.

FY 09 \$2,100k: Future site base operations for tenants (MA-3 Action 2)

FY 10 \$ 2,200k: Future site base operations for tenants (MA-3 Action 2)

FY 11 \$2,200k: Future site base operations for tenants (MA-3 Action 2)

891KSF: Fac ShDn is derived from certified data from Watervliet.

TOTAL COBRA MILITARY CONSTRUCTION ASSETS REPORT (COBRA v6.10)  
Data As Of 4/25/2005 8:43:40 AM, Report Created 4/25/2005 8:43:42 AM

Department : Industrial  
Scenario File : Z:\Cobra\Munitions&Armaments\IND 0114 Realign Watervliet Arsenal\IND 0114 Realign Watervliet  
Arsenal Cobra 04202005.CBR  
Option Pkg Name: IND 0114 Realign Watervliet  
Std Fctrs File : C:\Documents and Settings\\Desktop\COBRA 6.10\BRAC2005.SFF

All values in 2005 Constant Dollars

Base Name	Total MilCon*	Milcon Cost Avoidance	Total Net Costs
----- WATERVLIET ARSENAL	0	0	0
----- Totals:	0	0	0

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

COBRA NET PRESENT VALUES REPORT (COBRA v6.10)

Data As Of 4/25/2005 8:43:40 AM, Report Created 4/25/2005 8:43:42 AM

Department : Industrial  
 Scenario File : Z:\Cobra\Munitions&Armaments\IND 0114 Realign Watervliet Arsenal\IND 0114 Realign Watervliet Arsenal Cobra 04202005.CBR  
 Option Pkg Name: IND 0114 Realign Watervliet  
 Std Fctrs File : C:\Documents and Settings\\Desktop\COBRA 6.10\BRAC2005.SFF

Year	Cost(\$)	Adjusted Cost(\$)	NPV(\$)
----	-----	-----	-----
2006	7,972,096	7,862,777	7,862,777
2007	24,577,366	23,580,101	31,442,878
2008	27,982,637	26,115,951	57,558,829
2009	-4,012,092	-3,642,462	53,916,367
2010	-4,606,822	-4,068,482	49,847,885
2011	-5,101,551	-4,382,684	45,465,201
2012	-5,168,376	-4,319,156	41,146,045
2013	-5,168,376	-4,201,513	36,944,532
2014	-5,168,376	-4,087,075	32,857,456
2015	-5,168,376	-3,975,754	28,881,702
2016	-5,168,376	-3,867,465	25,014,237
2017	-5,168,376	-3,762,126	21,252,111
2018	-5,168,376	-3,659,655	17,592,456
2019	-5,168,376	-3,559,976	14,032,480
2020	-5,168,376	-3,463,012	10,569,468
2021	-5,168,376	-3,368,688	7,200,779
2022	-5,168,376	-3,276,934	3,923,845
2023	-5,168,376	-3,187,679	736,166
2024	-5,168,376	-3,100,855	-2,364,689
2025	-5,168,376	-3,016,396	-5,381,086

Department : Industrial  
 Scenario File : Z:\Cobra\Munitions&Armaments\IND 0114 Realign Watervliet Arsenal\IND 0114 Realign Watervliet  
 Arsenal Cobra 04202005.CBR  
 Option Pkg Name: IND 0114 Realign Watervliet  
 Std Fctrs File : C:\Documents and Settings\\Desktop\COBRA 6.10\BRAC2005.SFF

(All values in 2005 Constant Dollars)

Category	Cost	Sub-Total
-----	----	-----
Construction		
Military Construction	0	
Total - Construction		0
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	400,950	
Total - Overhead		400,950
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	1,300,000	
Mission Contract Startup and Termination	0	
One-Time Unique Costs	62,000,000	
Total - Other		63,300,000
-----	-----	-----
Total One-Time Costs		63,700,950
-----	-----	-----
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		63,700,950

Department : Industrial  
 Scenario File : Z:\Cobra\Munitions&Armaments\IND 0114 Realign Watervliet Arsenal\IND 0114 Realign Watervliet Arsenal Cobra 04202005.CBR  
 Option Pkg Name: IND 0114 Realign Watervliet  
 Std Fctrs File : C:\Documents and Settings\Desktop\COBRA 6.10\BRAC2005.SFF

Base: WATERVLIET ARSENAL, NY (36939)  
 (All values in 2005 Constant Dollars)

Category	Cost	Sub-Total
-----	----	-----
Construction		
Military Construction	0	
Total - Construction		0
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	400,950	
Total - Overhead		400,950
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	1,300,000	
Mission Contract Startup and Termination	0	
One-Time Unique Costs	62,000,000	
Total - Other		63,300,000
-----	-----	-----
Total One-Time Costs		63,700,950
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		63,700,950

COBRA SUSTAINMENT/RECAP/BOS/HOUSING CHANGE REPORT (COBRA v6.10)  
 Data As Of 4/25/2005 8:43:40 AM, Report Created 4/25/2005 8:43:42 AM

Department : Industrial  
 Scenario File : Z:\Cobra\Munitions&Armaments\IND 0114 Realign Watervliet Arsenal\IND 0114 Realign Watervliet Arsenal Cobra 04202005.CBR  
 Option Pkg Name: IND 0114 Realign Watervliet  
 Std Fctrs File : C:\Documents and Settings\Desktop\COBRA 6.10\BRAC2005.SFF

Net Change(\$K)	2006	2007	2008	2009	2010	2011	Total	Beyond
Sustain Change	-210	-419	-629	-839	-1,049	-1,259	-4,405	-1,259
Recap Change	-285	-570	-855	-1,140	-1,425	-1,710	-5,984	-1,710
BOS Change	0	0	0	0	0	0	0	0
Housing Change	0	0	0	0	0	0	0	0
<b>TOTAL CHANGES</b>	<b>-495</b>	<b>-989</b>	<b>-1,484</b>	<b>-1,979</b>	<b>-2,474</b>	<b>-2,968</b>	<b>-10,389</b>	<b>-2,968</b>

WATERVLIET ARSENAL, NY (36939)

Net Change(\$K)	2006	2007	2008	2009	2010	2011	Total	Beyond
Sustain Change	-210	-419	-629	-839	-1,049	-1,259	-4,405	-1,259
Recap Change	-285	-570	-855	-1,140	-1,425	-1,710	-5,984	-1,710
BOS Change	0	0	0	0	0	0	0	0
Housing Change	0	0	0	0	0	0	0	0
<b>TOTAL CHANGES</b>	<b>-495</b>	<b>-989</b>	<b>-1,484</b>	<b>-1,979</b>	<b>-2,474</b>	<b>-2,968</b>	<b>-10,389</b>	<b>-2,968</b>

Department : Industrial  
 Scenario File : Z:\Cobra\Munitions&Armaments\IND 0114 Realign Watervliet Arsenal\IND 0114 Realign Watervliet Arsenal Cobra 04202005.CBR  
 Option Pkg Name: IND 0114 Realign Watervliet  
 Std Fctrs File : C:\Documents and Settings\\Desktop\COBRA 6.10\BRAC2005.SFF

	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	0	0	0	0
Civilians Moving		0	0	0	0	0	0	0
New Civilians Hired		0	0	0	0	0	0	0
Other Civilian Additions		0	0	0	0	0	0	0
TOTAL CIVILIAN EARLY RETIREMENTS		0	0	0	0	0	0	0
TOTAL CIVILIAN RIFs		0	0	0	0	0	0	0
TOTAL CIVILIAN PRIORITY PLACEMENTS#		0	0	0	0	0	0	0
TOTAL CIVILIAN NEW HIRES		0	0	0	0	0	0	0

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

# Not all Priority Placements involve a Permanent Change of Station. The rate of PPP placements involving a PCS is 50.70%

Department : Industrial  
 Scenario File : Z:\Cobra\Munitions&Armaments\IND 0114 Realign Watervliet Arsenal\IND 0114 Realign Watervliet Arsenal Cobra 04202005.CBR  
 Option Pkg Name: IND 0114 Realign Watervliet  
 Std Fctrs File : C:\Documents and Settings\Desktop\COBRA 6.10\BRAC2005.SFF

Base: WATERVLIET ARSENAL, NY (36939)	Rate	2006	2007	2008	2009	2010	2011	Total
CIVILIAN POSITIONS REALIGNING OUT								
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								
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								
Civilians Moving		0	0	0	0	0	0	0
New Civilians Hired		0	0	0	0	0	0	0
Other Civilian Additions		0	0	0	0	0	0	0
TOTAL CIVILIAN EARLY RETIRMENTS		0	0	0	0	0	0	0
TOTAL CIVILIAN RIFS		0	0	0	0	0	0	0
TOTAL CIVILIAN PRIORITY PLACEMENTS#		0	0	0	0	0	0	0
TOTAL CIVILIAN NEW HIRES		0	0	0	0	0	0	0

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

# Not all Priority Placements involve a Permanent Change of Station. The rate of PPP placements involving a PCS is 50.70%

COBRA PERSONNEL YEARLY PERCENTAGES REPORT (COBRA v6.10)  
 Data As Of 4/25/2005 8:43:40 AM, Report Created 4/25/2005 8:43:42 AM

Department : Industrial  
 Scenario File : Z:\Cobra\Munitions&Armaments\IND 0114 Realign Watervliet Arsenal\IND 0114 Realign Watervliet  
 Arsenal Cobra 04202005.CBR  
 Option Pkg Name: IND 0114 Realign Watervliet  
 Std Fctrs File : C:\Documents and Settings\Desktop\COBRA 6.10\BRAC2005.SFF

Base: WATERVLIET ARSENAL, NY (36939)

Year	Pers Moved In/Added		MilCon TimePhase	Pers Moved Out/Eliminated		ShutDn TimePhase
	Total	Percent		Total	Percent	
2006	0	0.00%	33.33%	0	0.00%	16.67%
2007	0	0.00%	16.67%	0	0.00%	16.67%
2008	0	0.00%	16.67%	0	0.00%	16.67%
2009	0	0.00%	16.67%	0	0.00%	16.67%
2010	0	0.00%	16.67%	0	0.00%	16.67%
2011	0	0.00%	0.00%	0	0.00%	16.67%
TOTALS	0	0.00%	100.00%	0	0.00%	100.00%

COBRA TOTAL PERSONNEL SUMMARY REPORT (COBRA v6.10)  
 Data As Of 4/25/2005 8:43:40 AM, Report Created 4/25/2005 8:43:42 AM

Department : Industrial  
 Scenario File : Z:\Cobra\Munitions&Armaments\IND 0114 Realign Watervliet Arsenal\IND 0114 Realign Watervliet  
 Arsenal Cobra 04202005.CBR  
 Option Pkg Name: IND 0114 Realign Watervliet  
 Std Fctrs File : C:\Documents and Settings\Desktop\COBRA 6.10\BRAC2005.SFF

TOTAL SCENARIO POPULATION (FY 2005):

Officers	Enlisted	Students	Civilians
----- 7	----- 13	----- 0	----- 859

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

	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	-32	-16	0	-1	0	0	-49
TOTAL	-32	-16	0	-1	0	0	-49

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

Officers	Enlisted	Students	Civilians
----- 7	----- 13	----- 0	----- 810

TOTAL PERSONNEL REALIGNMENTS, ENTIRE SCENARIO):

	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	0	0	0	0
TOTAL	0	0	0	0	0	0	0

TOTAL SCENARIO POSITION CHANGES, ENTIRE SCENARIO:

	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	0	0	0	0
TOTAL	0	0	0	0	0	0	0

TOTAL SCENARIO POPULATION (After BRAC Action):

Officers	Enlisted	Students	Civilians
----- 7	----- 13	----- 0	----- 810

Department : Industrial  
 Scenario File : Z:\Cobra\Munitions&Armaments\IND 0114 Realign Watervliet Arsenal\IND 0114 Realign Watervliet Arsenal Cobra 04202005.CBR  
 Option Pkg Name: IND 0114 Realign Watervliet  
 Std Fctrs File : C:\Documents and Settings\Desktop\COBRA 6.10\BRAC2005.SFF

PERSONNEL SUMMARY FOR: WATERVLIET ARSENAL, NY (36939)

BASE POPULATION (FY 2005):

Officers	Enlisted	Students	Civilians
----- 7	----- 13	----- 0	----- 859

PROGRAMMED INSTALLATION (NON-BRAC) CHANGES FOR: WATERVLIET ARSENAL, NY (36939)

	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	-32	-16	0	-1	0	0	-49
TOTAL	-32	-16	0	-1	0	0	-49

BASE POPULATION (Prior to BRAC Action) FOR: WATERVLIET ARSENAL, NY (36939)

Officers	Enlisted	Students	Civilians
----- 7	----- 13	----- 0	----- 810

BASE POPULATION (After BRAC Action) FOR: WATERVLIET ARSENAL, NY (36939)

Officers	Enlisted	Students	Civilians
----- 7	----- 13	----- 0	----- 810

## Economic Impact Report

This report depicts the economic impact of the following Scenarios:

IND-0114: Realign Watervliet Arsenal

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

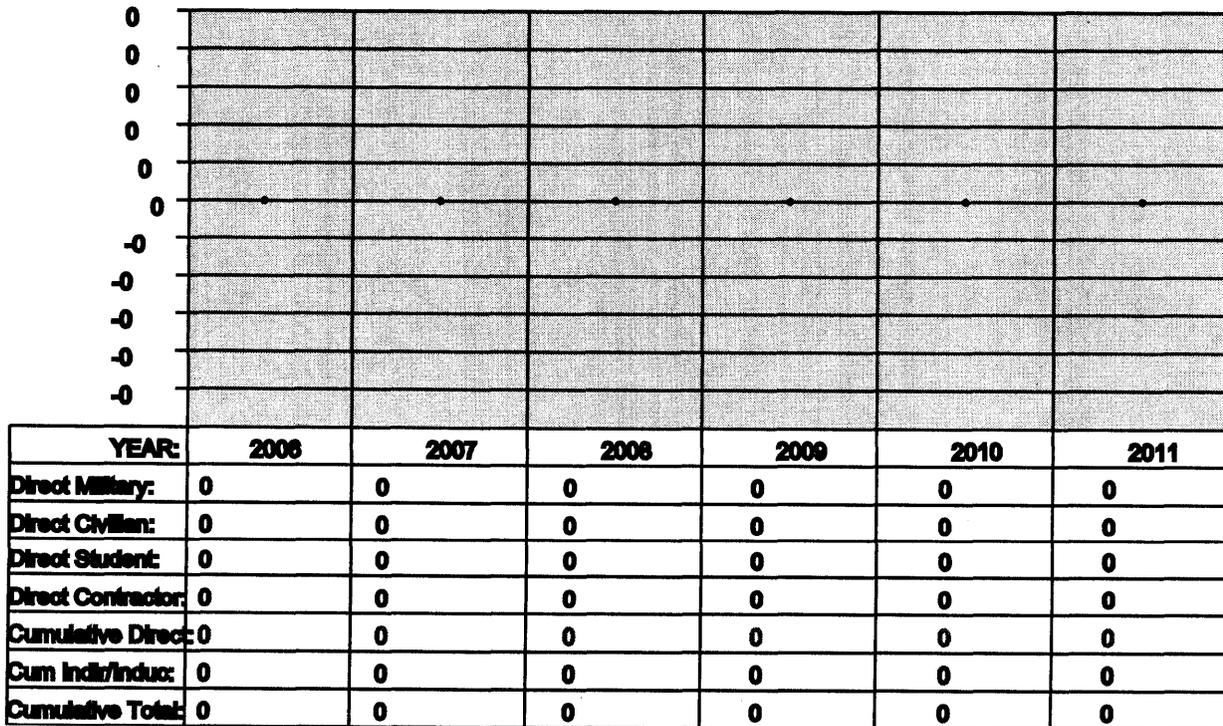
ECONOMIC IMPACT DATA

Scenario: All Selected (see title page)  
 Economic Region of Influence(ROI): Albany-Schenectady-Troy, NY Metropolitan Statistical Area  
 Base: All Bases  
 Action: All Actions

**Overall Economic Impact of Proposed BRAC-05 Action:**

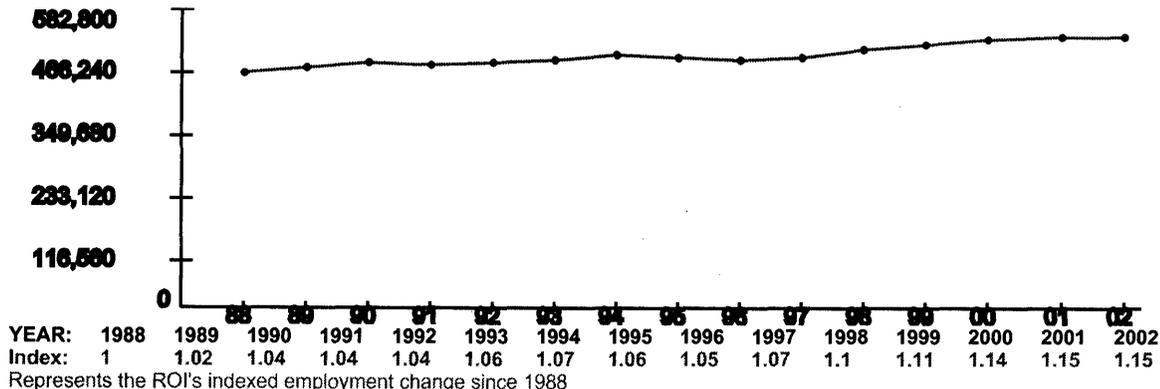
ROI Population (2002):	834,964
ROI Employment (2002):	529,819
Authorized Manpower (2005):	879
Authorized Manpower(2005) / ROI Employment(2002):	0.17%
Total Estimated Job Change:	0
Total Estimated Job Change / ROI Employment(2002):	0%

**Cumulative Job Change (Gain/Loss) Over Time:**

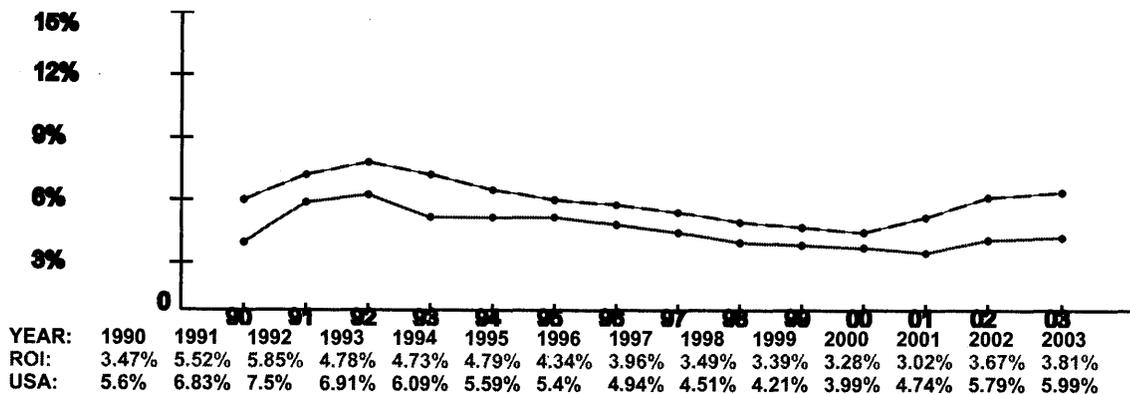


Albany-Schenectady-Troy, NY Metropolitan Statistical Area Trend Data

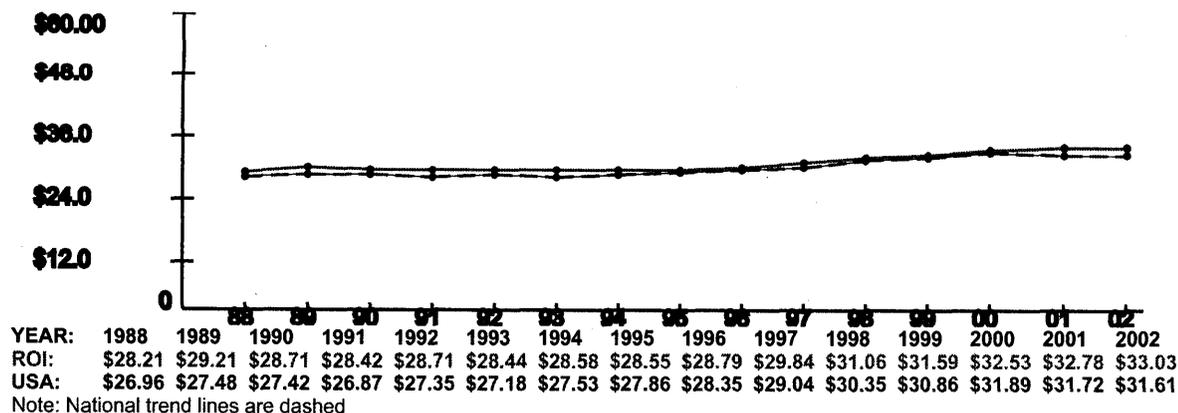
**Employment Trend (1988-2002)**



**Unemployment Percentage Trend (1990-2003)**



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



## **WATERVLIET ARSENAL, NY**

### **Demographics**

The following tables provide a short description of the area near the installation/activity. WATERVLIET ARSENAL is 84 miles from Springfield, MA, the nearest city with a population of 100,000 or more. The nearest metropolitan statistical area (MSA) is

MSA	Population
Albany-Schenectady MSA	875,583

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

County/City	Population
Albany	294565
Rensselaer	152538
Saratoga	200635
Schenectady	146555
Total	794,293

### **Child Care**

This attribute captures the number of nationally accredited child-care centers within the local community: 8

### **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)	\$43,250	Basis: MSA
Median House Value (US Avg \$119,600)	\$107,400	
GS Locality Pay ("Rest of US" 10.9%)	10.9%	
O-3 with Dependents BAH Rate	\$1,360	
In-state Tuition for Family Member	No	
In-state Tuition Continues if Member PCSs Out of State		

### **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.

*This document may contain information protected from disclosure by public law, regulations or orders.*

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	92,725	27 of 27 districts
Students Enrolled	79,202	27 of 27 districts
Average Pupil/Teacher Ratio	13.1:1	27 of 27 districts
High School Students Enrolled	23,996	23 of 23 districts
Average High School Graduation Rate (US Avg 67.3%)	91.1%	23 of 23 districts
Average Composite SAT I Score (US Avg 1026)	850	23 of 23 districts
Average ACT Score (US Avg 20.8)	11	23 of 23 districts
Available Graduate/PhD Programs	12	
Available Colleges and/or Universities	5	
Available Vocational and/or Technical Schools	19	

## 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	3.5%	3.4%	3.1%	3.8%	4.0%
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%	-.4%	.5%	2.2%	-.1%
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	35,978	Basis: MSA
Vacant Sale Units	5,320	
Vacant Rental Units	9,748	

### 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	2,495	2,757	875,583	Basis: 4 of 4 counties
Ratio	1:351	1:318		
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	400.1	Basis: 4 of 4 counties
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 WATERVLIET ARSENAL to nearest commercial airport: 10.0 miles  
 Is WATERVLIET ARSENAL 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

**SUMMARY OF SCENARIO ENVIRONMENTAL IMPACTS**  
**SCENARIO # 59**

[TABS FINAL VERSION]

TITLE: IND-0114V2 REALIGN WATERVLIET ARSENAL

**GENERAL DESCRIPTION:** Realign Watervliet Arsenal, NY, by disestablishing all capabilities for Other Field Artillery Components.

Notes: 1) Environmental costs will still apply since part of the installation will be investigated prior to disposal.

ANALYST \_\_\_\_\_

LAST UPDATE: 27 APRIL 2005

Env Resource Area	<i>Losing</i> Installation Assessment Inst Name: Watervliet Arsenal	Analyst Comments (& data source(s) that drive assessment)
Air Quality	No impact	#213 Proposed to be in NonAttainment for PM2.5
Cultural/Archaeological/Tribal Resources	Installation has 2 archeological sites and 51 historic properties identified. Due to the presence of cultural resources, surveys and consultation with SHPO will be required to ensure protection of cultural resources at the installation after closure.	#230 2 Arch Resource sites identified #231 No Native Peoples Sites #232 Areas identified with high archeological potential #235 Historic Property - 51 resources identified.
Dredging	No impact	
Land Use Constraints/Sensitive Resource Areas	Special waste management areas at the installation include IRP sites. Restoration, monitoring/sweeps, access controls, and/or deed restrictions may be required after closure to prevent disturbance, health and safety risks, and/or long-term release of toxins to environmental media	#240 DERA IRP - 17.6 M spent thru FY03 with \$4.9M CTC. #273 - No MMRP sites No operational ranges
Marine Mammals/Marine Resources	No impact	
Noise	No impact	
Threatened & Endangered Species/Critical Habitat	No impact	#259-264 No TES or candidate species / habitat was identified
Waste Management	No impact	#265 No RCRA TSD facility #269 No RCRA Subpart X Permit #272 No permitted solid waste disposal facility

<p style="writing-mode: vertical-rl; transform: rotate(180deg);">Water Resources</p>	<p>Environmental media contamination issues at the installation include: Hexavalent Chromium, Petroleum Hydrocarbons, &amp; Chlorinated Solvents reported in groundwater. Restoration and/or monitoring, and access controls, of contaminated media may be required after closure in order to prevent significant long-term impact to the environment. Industrial and domestic wastewater treatment plant may have contamination issues requiring cleanup.</p>	<p>#275 Hexavalent Chromium, Petroleum Hydrocarbons, &amp; Chlorinated Solvents reported in groundwater on installation. #822 Has both industrial &amp; domestic wastewater treatment.</p>
<p style="writing-mode: vertical-rl; transform: rotate(180deg);">Wetlands</p>	<p>No impact</p>	

**SUBJECT: SUMMARY OF SCENARIO ENVIRONMENTAL IMPACTS (CONTINUED);  
SCENARIO # IND-0114V2 (59)**

**IMPACTS OF COSTS**

Env Resource Area	Gaining Installation Inst Name: N/A	Losing Installation Inst Name: Watervliet Arsenal
Environmental Restoration*	None.	DERA IRP site cleanup - CTC \$4.9M
Waste Management	None.	None.
Environmental Compliance	None.	Environmental Baseline Survey (EBS) \$300K-500K. Land Use Controls (LUC) management/enforcement in perpetuity (occurs after transfer) - \$50K - \$100K Asbestos/Lead-based Paint Removal - \$200K - \$1M Access controls / caretaker management of historical/arch/cultural sites \$500K - 1M (annually).
<b>COBRA Costs:</b>	None.	EBS + NEPA Disposal EIS (arsenal)- \$1.3M

Draft Deliberative Document-For Discussion Purposes Only-Do Not Release Under FOIA

Profile generated on 12/30/2004 with data as of 12/30/2004

INSTALLATION ENVIRONMENTAL PROFILE

**WATERVLIET ARSENAL**

**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 PM2.5). 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. WATERVLIET ARSENAL is in Marginal Nonattainment for Ozone (1 hr). WATERVLIET ARSENAL is proposed to be in Moderate Nonattainment for PM 2.5. It holds a CAA Minor Operating Permit. Emission credit programs may be available. No SIP growth allowance has been allocated for this installation. WATERVLIET ARSENAL is in an area projected or proposed to be designated nonattainment for the 8-hour Ozone or the PM2.5 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 WATERVLIET ARSENAL. 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. WATERVLIET ARSENAL 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. WATERVLIET ARSENAL reports that 6 unconstrained acres are available for development out of 150 total acres. WATERVLIET ARSENAL has spent \$17.60000000000001M thru FY03 for environmental restoration, and has estimated the remaining Cost to Complete at \$5M. WATERVLIET ARSENAL does not have Explosive Safety Quantity Distance Arcs.

**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. WATERVLIET ARSENAL is not 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. WATERVLIET ARSENAL 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. WATERVLIET ARSENAL reported that federally-listed TES are not present, 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. WATERVLIET ARSENAL does not have a permitted RCRA Treatment Storage and Disposal Facility (TSDF). WATERVLIET ARSENAL does not have an interim or final RCRA Part X facility. WATERVLIET ARSENAL 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. WATERVLIET ARSENAL does not discharge to an impaired waterway. Groundwater contamination is reported. Surface water contamination is not reported.  
**(The following water quantity data is from DoD Question # 282, 291, 297, 822, 825, 826):**  
WATERVLIET ARSENAL has 1971.4000000000001 Acre-Feet of surplus water potentially available for expansion. On average, it uses 0.3400000000000002 MGD of potable and non-potable water, with the capacity to produce 2.1000000000000001 MGD. It processed on average 0.3599999999999999 MGD of domestic wastewater in the peak month (past 3 years), with the capacity to process 6.299999999999998 MGD. It processed on average 0.05 MGD of industrial wastewater in the peak month (past 3 years), with the capacity to process 0.3459999999999997 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. WATERVLIET ARSENAL reported no wetland restricted acres on the main installation, and no wetland restricted acres on ranges.



**Recommendation Detail**

**158 Ind - 12 Hawthorne Army Depot, NV**

Y  N **158**

**DoD Description** Close Hawthorne Army Depot, NV. Relocate Storage and Demilitarization functions to Tooele Army Depot, UT.

**COBRA Data**

<b>1 Time Costs (\$M)</b>	<b>Rank/190</b>	<b>% Total</b>	<b>Payback (Years)</b>	<b>6 Year Net (\$M)</b>	<b>Rank/190</b>	<b>20-Year NPV (\$M)</b>	<b>Rank/190</b>	<b>% Total</b>
\$180.30	29	0.75%	Immediate	(\$59.22)	31	(\$777.70)	23	1.59%

**Lead Analyst** George Delgado

**Job Impact at Affected Bases**

Action	Base Name	State	Net Mil.	Net Civ.	Net Cont.	Total Dir.	Total InDir.	Total Chng
	Tooele Army Depot	UT	0	0	0	0	0	0
<b>Closure</b>	Hawthorne Army Depot	NV	-74	-45	-80	-199	-125	-324
<b>Realign</b>	Undistributed or Overseas Reductions	US	0	20	0	20	0	20
<b>Net jobs for this Recommendation</b>			<b>-74</b>	<b>-25</b>	<b>-80</b>	<b>-179</b>	<b>-125</b>	<b>-304</b>

**Other OSD Recommendations**

\*\*\*See Appendix - Alphabetical Listing of Bases

**159 Ind - 13 Watervliet Arsenal, NY**

Y  N **159**

**DoD Description** Realign Watervliet Arsenal, NY, by disestablishing all capabilities for Other Field Artillery Components.

**COBRA Data**

<b>1 Time Costs (\$M)</b>	<b>Rank/190</b>	<b>% Total</b>	<b>Payback (Years)</b>	<b>6 Year Net (\$M)</b>	<b>Rank/190</b>	<b>20-Year NPV (\$M)</b>	<b>Rank/190</b>	<b>% Total</b>
\$63.70	78	0.26%	18	\$46.81	149	(\$5.20)	154	0.01%

**Lead Analyst** George Delgado

**Job Impact at Affected Bases**

Action	Base Name	State	Net Mil.	Net Civ.	Net Cont.	Total Dir.	Total InDir.	Total Chng
<b>Realign</b>	Watervliet Arsenal	NY	0	0	0	0	0	0
<b>Net jobs for this Recommendation</b>			<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

**Other OSD Recommendations**

\*\*\*See Appendix - Alphabetical Listing of Bases

7

August 8, 2005

Hon. Anthony Principi  
Chairman  
Base Realignment and Closure Commission  
2521 South Clark Street  
Suite 600  
Arlington, Virginia 22202

Dear Chairman Principi:

The Arsenal Business and Technology Partnership has worked for the past four years with the Commanding General of the Army Materiel Command as well as the Commander of the US Army Tank and Automotive Command to develop a new Site Master Plan for the Watervliet Arsenal. That plan was the basis for Defense Secretary Rumsfeld's recommendations to the Commission for realignment of Watervliet Arsenal.

The keys to implementing the Master Plan include consolidation of the Army's mission-essential facilities into a compact, secure area and the conveyance of the Arsenal's real estate and facilities to a Local Redevelopment Authority with guaranteed leaseback terms and conditions acceptable to senior Army management: e.g., the Secretary of the Army. This consolidation will reduce costs to the Government while maintaining the critical core capabilities of the Arsenal and Benet Laboratory.

The Arsenal Business and Technology Partnership, as the Local Re-Use Authority, wishes to assure the Commission and the Department of Defense that it is committed to providing those Research, Development and Production facilities which the Army determines it requires for as long as it requires. We commit to do so under the terms of a negotiated, low-cost leaseback that enables the Army to continue to meet its requirements at Watervliet Arsenal.

Respectfully,



Harry Robinson  
Chairman

ARSENAL BUSINESS &  
TECHNOLOGY PARTNERSHIP

**DEFENSE BASE CLOSURE AND REALIGNMENT COMMISSION**  
**2521 CLARK STREET, SUITE 600**  
**ARLINGTON, VIRGINIA 22202**  
**(703) 699-2950**

**MEMORANDUM OF MEETING**

**DATE: July 28, 2005**

**TIME: 10:00 am**

**MEETING WITH: Hyjek & Fix, Inc.**

**SUBJECT: Kansas Army Ammunition Plant and Watervliet Arsenal**

**PARTICIPANTS:**

- **Steven M. Hyjek, Partner, phone number: 202-223-4800**

*Commission Staff:*

- **George M. Delgado, Joint & Cross Services – Industrial\***
- **Elizabeth Bieri, Army**

**MEETING SUMMARY:**

- Mr. Hyjek represents both Kansas Army Ammunition Plant and Watervliet Arsenal at the state levels for each installation. He provided suggested recommendation language (see attached) for consideration by the Commission for both installations. He also provided community concerns from each affected installation.
- For the Kansas Army Ammunition Plant the state, local community and, the operating contractor are united in requesting expedited environmental clean up, an interim lease (lease in furtherance of conveyance) for development of clean facilities and, an expedited no cost conveyance for transfer of the property, facilities and, equipment.
- For the Watervliet Arsenal the community proposes that the entire site be conveyed to a local re-use authority. They request adding clarifying language to the recommendation by adding the word “conveyance”. They argue that adding the word is not a modification, as the recommendation already implies this action by addressing the options of partnering and leaseback arrangements. The Local Reuse Authority will leaseback for \$1 per year to the Department of the Army required facilities for as long as the department needs them.

\* Denotes individual responsible for completing the memorandum

HYJEK & FIX, INC.

STEVEN M. HYJEK

SUITE 560  
2100 PENNSYLVANIA AVENUE, N.W.  
WASHINGTON, D.C. 20037

(202) 223-4800  
FAX (202) 223-2011  
[shyjek@hyjekfix.com](mailto:shyjek@hyjekfix.com)

*Kansas Army Ammunition Plant, Kansas*

*&*

*Watervliet Arsenal, New York*

- TAB A *Department of Defense Recommendation re: Kansas Army Ammunition Plant*
- TAB B *Proposed Kansas Army Ammunition Plant Finds & Recommendations re: Expedited environmental action and no-cost conveyance*
- TAB C *Community Briefing presented to the Base Closure Commission*
- TAB D *Kansas Army Ammunition Plant Points of Contact*
- TAB E *Department of Defense Recommendation re: Watervliet Arsenal*
- TAB F *Proposed Watervliet Arsenal Findings & Recommendations re: Lease-back / conveyance*
- TAB G *Watervliet Arsenal Partnership / US Army Documents*
- TAB H *Watervliet Arsenal Points of Contact*







## Watervliet Arsenal, New York

**Recommendation:** Realign Watervliet Arsenal, NY, by disestablishing all capabilities for Other Field Artillery Components.

**Justification:** The Department no longer requires the capability for Other Field Artillery Components at Watervliet Arsenal. The Department will require and will retain at Watervliet the capability to support core cannon tube, rotary forge, and swage. Disestablishing the Other Field Artillery Components capability will allow the Department to reduce its overall footprint at Watervliet. It will also allow the Department to explore partnering with the local community, perhaps through a leaseback arrangement. This type of partnering could allow the government to reduce its footprint while maintaining that portion of Watervliet needed to fulfill core capabilities.

**Payback:** The total estimated one-time cost to the Department of Defense to implement this recommendation is \$63.70M. The net of all costs and savings to the Department during the implementation period is a cost of \$46.81M. Annual recurring savings to the Department after implementation are \$5.17M with a payback expected in 18 years. The net present value of the costs and savings to the Department over 20 years is a savings of \$5.17M.

**Economic Impact on Communities:** This recommendation will not result in any job reductions over the period 2006-2011 in the Troy, NY Metropolitan Statistical Area. The aggregate economic impact of all recommended actions on this economic region of influence was considered and is at Appendix B of Volume I.

**Community Infrastructure:** A review of community attributes indicates no issues regarding the ability of the infrastructure of the community to support missions, forces, and personnel. There are no known community infrastructure impediments to implementation of all recommendations affecting the installations in this recommendation.

**Environmental Impact:** Surveys and consultation with SHPO will be required to ensure protection of cultural resources on Watervliet. Restoration and monitoring of contaminated groundwater sites at Watervliet will likely be required after to prevent significant long-term impacts to the environment. This recommendation has no impact on air quality; dredging; land use constraints or sensitive resource areas; marine mammals, resources, or sanctuaries; noise; threatened and endangered species or critical habitat; waste management; or wetlands. This recommendation will require spending approximately \$1.3M for environmental compliance activities. This cost was included in the payback calculation. This recommendation does not otherwise impact the costs of environmental restoration, waste management, or environmental compliance activities. The aggregate environmental impact of all recommended BRAC actions affecting the bases in this recommendation has been reviewed. There are no known environmental impediments to implementation of this recommendation.

## **DRAFT BRAC COMMISSION FINDINGS LANGUAGE RE:**

### ***Watervliet Arsenal – Watervliet, New York***

#### **SECRETARY OF DEFENSE RECOMMENDATION**

Realign Watervliet Arsenal, NY, by disestablishing all capabilities for Other Field Artillery Components.

#### **SECRETARY OF DEFENSE JUSTIFICATION**

The Department no longer requires the capability for Other Field Artillery Components at Watervliet Arsenal. The Department will require and will retain at Watervliet the capability to support core cannon tube, rotary forge, and swage. Disestablishing the Other Field Artillery Components capability will allow the Department to reduce its overall footprint at Watervliet. It will also allow the Department to explore partnering with the local community, perhaps through a leaseback arrangement. This type of partnering could allow the government to reduce its footprint while maintaining that portion of Watervliet needed to fulfill core capabilities.

#### **COMMUNITY CONCERNS**

Watervliet Arsenal is located in Albany Capitol District of New York State. Albany, New York is the location of a significant non-technology development effort spearheaded by the State of New York in partnership with academia and the private sector. At the same time, the workforce at the Arsenal has experienced a steady and significant decline over the last ten years, representing economic hardship in the city of Watervliet. The community did not oppose the realignment of Watervliet Arsenal, but during its testimony at the Buffalo Regional hearing, the community spokesman expressed a desire for a clarification of the Secretary's recommendation on the issue of leaseback arrangements. The Secretary's recommendation addresses the option of a partnering with the local community and exploring leaseback options, but does not address the issue of property management or conveyance.

The community proposes that the entire Watervliet Arsenal site be conveyed to a Local Re-Use Authority, identified as "The Arsenal Partnership", which will in turn lease-back to the Department of the Army, those facilities it requires for continuation of core functions referred to in the Secretary's recommendation. The community states that the addition of the term "conveyance" to the recommendation is a clarification, rather than modification of the Secretary's recommendation because the Secretary's recommendations already denote an option for leaseback arrangements. The community states further that conveyance/leaseback provides a greater opportunity for the establishment of a high technology business park supporting the Arsenal core functions as well as the military technology research & development functions of Benet Laboratory which, under the terms of the Secretary's recommendations, will remain operational at the Watervliet Arsenal site. It is the community's position that, while unstated, the option of a conveyance/leaseback was the intent of the Department that will enable the Government to reduce its footprint consistent with the Secretary's recommendation and do so at less costs as the result of avoidance of operations & maintenance costs.

## **COMMUNITY CONCERNS (CONT.)**

The Secretary's recommendation does address its objective to seek a reduction in footprint and alludes to the option of a leaseback arrangement, but it is ambiguous regarding which entity would manage a leaseback and whether this option would be within the context of a conveyance of any facilities or properties on the Arsenal Site.

The Commission staff received communications from the Department of the Army and the Army Materiel Command, the higher headquarters for Watervliet Arsenal, that the Department and the Command endorses the option of conveyance to the Local Reuse Authority and leaseback of required facilities by the Department, but only consistent with a low-cost leaseback for as long as the Department requires the facilities, not to exceed \$1 per year for use of the leased facilities.

## **COMMISSION RECOMMENDATION**

The Commission finds the Secretary of Defense did not deviate substantially from the force structure plan and the final criteria. The Commission approves the Secretary's recommendation with the inclusion of a conveyance to the Local Re-use Authority and low cost leaseback, as desired by the Department of the Army.

Subject: RE: Requested Material  
Date: Thu, 28 Jul 2005 09:19:11 -0400  
X-MS-Has-Attach:  
X-MS-TNEF-Correlator:  
Thread-Topic: Requested Material  
thread-index: AcWTdD7m0LFilSMPQKKtmqSc5XnuPQAAFpNg  
From: "Tony Gaetano" <tgaetano@arsenalpartnership.com>  
To: "Susan Paul" <spaul@arsenalpartnership.com>, <shyjek@hyjekfix.com>

Steve:

Sorry about the way these document are packaged. They are PDF's so we can't highlight sections or bold them either.

The first two documents are messages from Army command sent to the Arsenal commander providing guidance/explication of the Secretary's recommendations for the installation. One is from the Secretary of the Army's BRAC implementation office; the second is from a personal message sent from TACOM Commander General Lenaers. Both were sent on the day of the Secretary's announcement.

In the ACSIM message, under the heading "Other", the last line explicitly says the Army intends to convey. Gen. Lenaers message is word for word duplicative of the ACSIM message.

The third item includes two pages from Arsenal Commander Don Olson's presentation to the The Army Basing Study group, chaired by Assistant Secretary Craig College. This is the section of his presentation devoted to conveyance of the site to the Partnership.

Thanks for all the help. When you have a chance I;d like to have an off-line conversation with you.

ITony

-----Original Message-----

**From:** Susan Paul  
**Sent:** Thursday, July 28, 2005 9:00 AM  
**To:** 'STEVEN HYJEK (shyjek@hyjekfix.com)'  
**Cc:** Tony Gaetano  
**Subject:** Requested Material

Steve,

Attached are the documents that Tony recommended I send. Thanks.

Susan Paul~  
Arsenal Partnership

ACSIM  
~~AME~~ Message to Col. Olson 5/13/05

### Watervliet Arsenal

BRAC 05 recommendations transform the arsenal into a Joint Manufacturing & Technology center of excellence that supports critical armament skills and creates a technologically oriented business park with the local community. The realignment of Watervliet Arsenal eliminates redundancy and excess from the Industrial Base and creates a DoD Center of Industrial and Technical Excellence that support readiness for all the Services.

#### Incoming Activities

None

#### Departing Activities

None

#### Other

The reduction of the footprint of Watervliet Arsenal would create a technology-oriented business park accommodating and supporting the military technology Research & Development functions. The facilities of the Joint Manufacturing & Technology Center (fabrication/prototyping operations and Benet Laboratories) would be consolidated into a contiguous, compact and secure area surrounded by high technology commercial and academic partners. The entire site would be conveyed to a non-government entity capable of developing a high technology park, providing complete infrastructure services to its tenants, and leasing back to the Army the facilities it requires.

#### Quantitative Results

Net Personnel Impacts <sup>1</sup>			MILCON Cost Estimate
Military	Civilian	Student	
0	0	0	0

#### **Implementation Timeline:**

According to BRAC law, this action must be initiated within two years and completed within six years from the date the President transmits the report to Congress.

<sup>1</sup> Based on FY03 ASIP data. Does not reflect any personnel changes resulting from standard programming and Command Plan actions since FY03.

## A m c message (cont'd)

### **Internal Communications: (Watervliet Arsenal Work Force)**

- Watervliet Arsenal has played a long and storied role in the history of the US Army and it will continue to do so.
- Watervliet Arsenal will gain a new importance as a DoD Center of Industrial and Technical Excellence. It becomes a focal point for one of the most critical aspects of Army combat capability the vehicles and combat equipment on which our Soldiers depend.

### **External Communications: (Civilian community)**

- Watervliet Arsenal has played a long and storied role in the history of the US Army and it will continue to do so.
- Watervliet Arsenal will gain a new importance as a DoD Center of Industrial and Technical Excellence. It becomes a focal point for one of the most critical aspects of Army combat capability the vehicles and combat equipment on which our Soldiers depend.

### **Approving BRAC Recommendations - Statutory Steps:**

- 16 May 05 SECDEF forwards Recommendations to BRAC Commission
- 08 Sept 05 ✓ BRAC Commission recommendations due to President
- 23 Sept 05 President approves/disapproves Commission recommendations
- 20 Oct 05 Commission resubmits recommendations (if initially rejected by President)
- 07 Nov 05 President submits final recommendations to Congress. Once submitted, the plan becomes final within 45 legislative days, unless Congress passes a joint resolution to block the entire package.

### **BRAC Recommendations impacting Watervliet Arsenal**

- Realign Watervliet Arsenal

General Lenaers' message  
to WVA 5/13/05

## **Watervliet Arsenal**

### Other

- The Army intends to transform Watervliet Arsenal by creating a technology-oriented business park accommodating and supporting the military technology Research & Development functions. The facilities of the Joint Manufacturing & Technology Center fabrication/prototyping operations and Benet Laboratories) would be consolidated into a contiguous, compact and secure area surrounded by high technology commercial and academic partners. The entire site would be conveyed to a non-government entity capable of developing a high technology park, providing complete infrastructure services to its tenants, and leasing back to the Army the facilities it requires. The transformation will result in a 42.6% reduction in footprint.

## **What your leaders will be doing**

While the exact impact upon the TACOM LCMC is uncertain at this time, some of TACOM's communities will have major impacts if the BRAC recommendations are approved. As I told you earlier this month, I have scheduled meetings with the installation / garrison commanders, the TACOM LCMC Executive Steering Committee, business center heads, along with our enterprise and alliance partners to discuss and assess the initial impacts to our LCMC community.

## **Let's put BRAC in perspective**

The BRAC Commission, appointed by President Bush, will now evaluate the recommendations from the Secretary of Defense. The Commission assessment process will start today and end in September. After evaluating DoD's recommendations, the independent BRAC Commission will submit its own list to the president for review and approval, no later than September 8.

I want you to know that I believe our people are our greatest asset and that what you do is vital to our military. I understand that individual lives and whole communities are being impacted by BRAC. As a Soldier I am used to changes and reassignments; Soldiers expect to be given new assignments and missions. That is not the case with the civilian members of the Army team and with the communities you are a part of.

As the BRAC process moves forward, I will continue to keep you informed as information becomes available. But please remember that if you are contacted by any news media member about this that you shouldn't respond to any of their queries or speculate on the outcome of today's BRAC announcement and what it might mean for us. Please refer all news media queries to the G5 Public Communications Office at 586-574-8820.

In the meantime, I am asking you to continue the great job that you all are doing for our Soldiers, our military and our nation. Remember that we are still a nation at war and we must remain committed to defeating terrorism. Thank you and may God bless America.



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**INSTALLATION FAMILIARIZATION BRIEFING  
FOR THE  
JOINT MANUFACTURING & TECHNOLOGY CENTER  
AT WATERVLIET**

- **BRIEFER: COLONEL DONALD C. OLSON**
- **POSITION: COMMANDER, WATERVLIET ARSENAL**
- **PHONE: DSN 374-4294, COMM 518-266-4294**

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**PROVIDING WEAPONS TO WARFIGHTERS**

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# MASTER PLAN IMPLEMENTATION STRATEGY

- ID Opportunities for EUL
- Use Brooks AFB/San Antonio EFI Model
- Convey site to Arsenal Partnership
- Army leaseback mission essential facilities
- Obtain Re footprint Funding
- Create secure area within new tech park
- Army focus on core responsibilities and capacities
- Expand synergistic private uses

**Synergistic  
Commercial  
Growth Supports  
DOD Programs**

**Leverage  
State, Federal,  
& Private  
Investment**

**Re footprint  
Manufacturing  
Area \$21M**

**EFI Designation  
& Support**

**Re footprint  
Benet Labs  
\$45M**

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## *Solid Vision for Overall Site Development*

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*Joint Manufacturing and Technology Center at Watervliet – Weapons to Warfighters*

# MASTER PLAN OUTCOMES

- **Maximizes Joint Armaments Capabilities**
  - Defense Manufacturing & Technology Center
  - High Technology (Partnered) Park
- **Minimizes Burdens On DOD**
  - Enhanced Technology Development And Application
  - Reduced Base Operating Cost
  - Reduced Ownership Distraction
  - Districted Site With Distributed Costs
- **Establishes Efficiently Sized Core Organic Capability**
- **Focus On Public-private Partnership & Economic Development**
- **Model For Industrial Support To Transformation**

Creates High  
Tech Business  
Park

Maintains  
Military  
Unique  
Capability

Canon Cost  
Reduced Up  
To 60%

Reduce  
BASOPS  
Cost By  
85%

*Manufacturing & Technology Center at Watervliet Provides  
Critical Warfighting Capability – Current & Future*

*Joint Manufacturing and Technology Center at Watervliet – Weapons to Warfighters*

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## POINTS OF CONTACT

### Watervliet Arsenal, New York

#### UNITED STATES ARMY

**Mr. Gary Motsek**, G-3 (Army Materiel Command)  
(703-806-9836 / 703-980-2542)  
Gary.Motsek@US.Army.Mil

#### STATE OF NEW YORK

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(518-474-3522)  
Bill.Howard@Chamber.State.NY.US

**Mr. Paul Richter**  
Executive Director, Governor's Military Base Task Force  
(518-292-5266)  
PRichter@Empire.State.NY.US

**Mr. Steve Hyjek**  
Consultant to Governor's Military Base Task Force  
(202-223-4800)  
[shyjek@hyjekfix.com](mailto:shyjek@hyjekfix.com)

#### COMMUNITY OF WATERVLIET

**Mr. Tony Gaetano**, Executive Director of the Arsenal Partnership  
(518-266-6006)  
[TGaetano@ArsenalPartnership.com](mailto:TGaetano@ArsenalPartnership.com)

INDUSTRIAL JOINT CROSS SERVICE GROUP

July 28, 2005

MEMORANDUM FOR R. GARY DINSICK, ARMY  
TEAM LEADER

Subject: WATERVLIET ARSENAL , OSD BRAC Clearinghouse  
Tasker C0688

The following is in response to your e-mail inquiry of July 25, 2005, where you asked the following:

1. *Confirm that no personnel are impacted by this recommendation.*  
Response: There are no personnel impacted by this recommendation.
2. *How was the determination made that the DoD no longer requires the capability for Other Field Artillery Components?*  
Response: Other Field Artillery Components was workload that the Army agreed could be performed at the depots.
3. *What specific capabilities does this recommendation disestablish?*  
Response: Capabilities for HMV Armor Survivability Kits, miscellaneous metal work, motor vehicle tow bars, Tomahawk Missile Containers, Bomb racks, and mobile tool carts.
4. *What percentage of the footprint at Watervliet does this recommendation impact? What specific buildings will no longer be required? For what are these buildings currently utilized? Who is using them?*  
Response: The recommendation results in a 43 percent footprint reduction. This percent of reduction resulted from certified data provided to the IJCSG by the Army. The numbers were generated by their footprint reduction plan.
5. *The justification mentions the potential for partnering. If the intent is to divest the Army of excess property, why does this need to be accomplished through BRAC?*  
Response: The IJCSG did consider partnering with the local development authority (LDA). Consideration was given to complete transfer of Watervliet to the LDA, not just the excess portion, with Army leasing back what they need. However, during the deliberative review process, it was decided that this specific option could not be included since we could not compel the local authority to lease back. The IJCSG has no objection

if subsequently the commission received a commitment from the authority for lease back at a desirable rate.

The Army decided that before they divest themselves of excess property, they needed answers to the following questions. What capabilities are resident at Watervliet and Rock Island? What can we relocate? Do we have excess capability? Is there duplication of capabilities at the two sites? Do we have like capabilities anywhere else within the industrial base? How much space does the Army need to retain for its Life Cycle Center of Excellence for Gun-Tube Manufacturing? The BRAC process allowed the Army to look at Armaments manufacturing in totality, remove non-core related workload, re-size its manufacturing base downward by 43%, create synergy from R&D through manufacturing, and focus on the creation of a gun-tube center of excellence.

6. *Provide the current 2005 percentage of facility utilization.*

Response: Based on FY 2003 certified data, Watervliet has a 57% utilization rate

Should additional information be required, feel free to contact me at 703-560-4317 or e-mail [jberry@gallows.vacoxmail.com](mailto:jberry@gallows.vacoxmail.com)



Jay Berry  
Executive Secretary

## Watervliet Arsenal

Watervliet Arsenal, known as "America's Cannon Factory", is an Army owned and operated manufacturing facility located just outside of Albany, New York. The billion dollar manufacturing complex is situated on a 142-acre site and spans 72 buildings with 1.2 million square feet of manufacturing space. As a component of the Army Joint Munitions Command, Watervliet's products include tank cannon, artillery cannon, battleship guns, marine drives, scissor bridges, and rocket motors. The guns manufactured at Watervliet Arsenal provide the firepower for the Army's main battlefield tank, the M1A1 Abrams. The arsenal employs almost 2,000 personnel.

WVA's capabilities allow it to employ the latest manufacturing technologies to support rapid design, development, and testing of new products. It has extensive capabilities in metalworking as well as specialized processes. The Arsenal underwent a substantial modernization program called Project REARM - or Renovation of Armament Manufacturing - in the 1980s which included building new facilities, procuring new manufacturing equipment, and implementing a new training program. In addition, a computer-integrated manufacturing program was initiated which includes shop floor and above-the-shop-floor systems. A 10-year \$350-million renovation program completed in 1992 has made Watervliet Arsenal one of the most sophisticated, automated heavy manufacturing and machining centers to be found anywhere -- private or public sectors.

WVA supports the Navy's Manufacturing Technology program and pursues many new programs, including the establishment of a teaching factory to extend training for Watervliet personnel and others in industry and academia. WVA is also home to the Army's Benet Laboratories, part of the Army Research, Development, and Engineering Center at Picatinny, NJ. Benet maintains the primary mission of development of advanced cannon from basic research through design for production stages. It is responsible for the research, design, and development of tank cannon, tank mounts, tank autoloaders, artillery cannon, mortars, recoilless rifles and tank turret items. Benet's collocation with production facilities at WVA is an important engineering and prototyping synergy. With federal legislation allowing the arsenal to participate in commercial contracts, this unique national resource can be shared with the non-government community.

**Pendaflex**

**Esselle**

48430

30%



P4

MR. CHAIRMAN AND FELLOW COMMISSIONERS,  
DOD JUSTIFIES THE REALIGNMENT OF THE  
WATERVLIET ARSENAL ON THE BASIS THAT  
CAPABILITY FOR OTHER FIELD ARTILLERY  
COMPONENTS IS NO LONGER REQUIRED. IT IS  
THE DOD INTENT TO RETAIN THE CAPABILITY TO  
SUPPORT CORE CANNON TUBE, ROTARY FORGE,  
AND SWAGE YET REDUCE THE OVERALL  
FOOTPRINT AT WATERVLIET ARSENAL AND  
EXPLORE PARTNERING WITH THE LOCAL  
COMMUNITY.

NO MISSIONS RELOCATE IN THIS  
RECOMMENDATION.

THE DOD COBRA SHOWS A \$5.17 MILLION  
DOLLAR 20-YEAR NET PRESENT VALUE SAVINGS  
WITH A PAYBACK PERIOD OF 18 YEARS.

0 PERSONNEL ARE IMPACTED BY THIS  
RECOMMENDATION.

**DOD JUSTIFICATION SLIDE –OFF**  
**DOD ISSUES SLIDE – ON**

THIS RECOMMENDATION REALIGNS  
CAPABILITIES TO BE MAINTAINED AT  
WATERVLIET INTO CONSOLIDATED FACILITIES  
MAKING IT EASIER TO DIVEST OF PROPERTY  
THAT IS NO LONGER REQUIRED. THE  
COMMUNITY DOES NOT OPPOSE THE

REALIGNMENT, AND THERE ARE NO ISSUES WITH  
THIS RECOMMENDATION

IN SUMMARY IT IS THE STAFF'S ASSESSMENT  
THAT THERE WAS NO DEVIATION FROM THE  
FINAL SELECTION CRITERIA OR THE FORCE  
STRUCTURE PLAN.

MR. CHAIRMAN THAT CONCLUDES MY PREPARED  
STATEMENT AND WE STAND READY TO ADDRESS  
ANY QUESTIONS YOU MIGHT HAVE.



# Sec 159: Watervliet Arsenal - NY

## Doc Recommendation

Arsenal, Watervliet Arsenal, NY



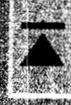
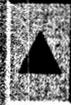


# Sec. 150: Watervliet Arsenal - NY

## Associated Installations



**Watervliet  
Arsenal,  
NY**



EXIT



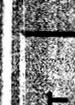
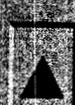
# Sec. 159: Watervliet Arsenal - NY

## DoD Justification

- Capability for Class 5 Field Artillery Components is no longer required
- Retain the capability to support core cannon tube inventory and
- Reduce its overall footprint at Watervliet Arsenal
- Explore partnering with the local community (lease back arrangement) to maintain portion of Watervliet Arsenal needed to fulfill

### COBRA

- \$63.7 M one time costs
- (\$5.38) M 20-year Net Present Value Savings
- 0 positions are relocated or eliminated





# Sec. 159: Watervliet Arsenal - NY

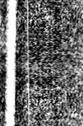
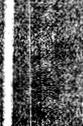
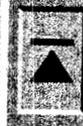
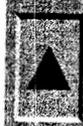
## Issues

- There are no issues with this recommendation.

- This recommendation realigns capabilities to be maintained at Watervliet into consolidated facilities making it easier to divest of property should it be required.

- The community does not oppose the...

Watervliet Arsenal



EXIT



# Staff Assessment

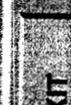
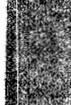
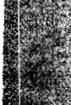
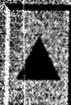
## Deviation from Final Selection Criteria

Military Value Other

Criterion	C1	C2	C3	C4	C5	C6	C7	C8
Deviation								

X=Deviation

from the Selection Criteria



EXIT



# Supporting Slides

For Commission Discussion &  
During Final Deliberations



EXIT



# Sec. 159: Watervliet Arsenal - NY Cost & Savings (C5)

## COBRA DATA

	DoD COBRA Run
<b>One Time Cost</b>	<b>\$ 63.70 M</b>
<b>Net Implementation Cost</b>	<b>\$ 46.81 M</b>
<b>Annual Recurring (Savings)</b>	<b>(\$5.17 M)</b>
<b>Payback Period</b>	<b>18 years</b>
<b>Net Present Value at 2025</b>	<b>\$5.38 M</b>



EXIT

## **Analysis: Watervliet Arsenal, NY (Industrial # 13 Realign)**

- IJCSG determined 43% footprint reduction
- No loss of jobs for the installation
- 2003 data Watervliet has a 57% utilization rate
- Disestablish other field artillery components
- Disestablish following capabilities
  - HMMV Armor Survivability Kits,
  - miscellaneous metal work,
  - motor vehicle tow bars,
  - Tomahawk Missile Containers,
  - Bomb racks and,
  - mobile tool carts
- Considered partnering with Local Development Authority, considered complete transfer but not done unsure of LDA commitment to leaseback and at desirable rate
- The community does not oppose the realignment of the Watervliet Arsenal.
  - The workforce at the arsenal has experienced a steady and significant decline over the last ten years, representing economic hardship in the city of Watervliet.
  - While supporting the recommendation the community desires a clarification of the Secretary's recommendation on the issue of leaseback arrangements.
  - The Secretary's recommendation addresses the option of partnering with the local community and exploring leaseback options, but does not directly address the issue of conveyance.
  - They request adding clarifying language to the recommendation by adding the word "conveyance". They argue that adding the word is not a modification, as the recommendation already implies this action by addressing the options of partnering and leaseback arrangements.
- The community proposes that the entire arsenal site be conveyed to a Local Reuse Authority that will in turn lease-back to the Department of the Army for \$1 dollar per year for as long as needed those facilities it will need for continuation of core functions detailed in the Secretary's recommendation.
- Conveyance to and leaseback from a Local Reuse Authority will provide a greater opportunity for establishing a high technology business park that will support the Arsenal's core functions and the technology research and development functions of tenant Benet Laboratory.

**Recommendation #159, Watervliet Arsenal (Ind-13)**

The community did not oppose the realignment of the Watervliet Arsenal. The workforce at the arsenal has experienced a steady and significant decline over the last ten years, creating economic hardship in the city of Watervliet. While supporting the recommendation, the community desired a clarification of the Secretary's recommendation on the issue of leaseback arrangements. In addressing the option of partnering with the local community and exploring leaseback options, DoD did not directly address the issue of conveyance. The community proposed that the entire arsenal site be conveyed to a Local Reuse Authority that will in turn lease it back to the Army for \$1 dollar per year, for as long as DoD needs facilities to continue the core functions detailed in the recommendation. Conveyance to, and leaseback from, a Local Reuse Authority would provide a greater opportunity to establish a high technology business park that would support the Arsenal's core functions and the technology research and development functions of tenant Benet Laboratory.



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**INSTALLATION FAMILIARIZATION BRIEFING  
FOR THE  
JOINT MANUFACTURING & TECHNOLOGY CENTER  
AT WATERVLIET**

- **BRIEFER: COLONEL DONALD C. OLSON**
- **POSITION: COMMANDER, WATERVLIET ARSENAL**
- **PHONE: DSN 374-4294, COMM 518-266-4294**

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**PROVIDING WEAPONS TO WARFIGHTERS**

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# MASTER PLAN IMPLEMENTATION STRATEGY

- ID Opportunities for EUL
- Use Brooks AFB/San Antonio EFI Model
- Convey site to Arsenal Partnership
- Army leaseback mission essential facilities
- Obtain Re footprint Funding
- Create secure area within new tech park
- Army focus on core responsibilities and capacities
- Expand synergistic private uses

**Synergistic  
Commercial  
Growth Supports  
DOD Programs**

**Leverage  
State, Federal,  
& Private  
Investment**

**Re footprint  
Manufacturing  
Area \$21M**

**EFI Designation  
& Support**

**Re footprint  
Benet Labs  
\$45M**

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***Solid Vision for Overall Site Development***

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*Joint Manufacturing and Technology Center at Watervliet – Weapons to Warfighters*

30

# MASTER PLAN OUTCOMES

- **Maximizes Joint Armaments Capabilities**
  - Defense Manufacturing & Technology Center
  - High Technology (Partnered) Park
- **Minimizes Burdens On DOD**
  - Enhanced Technology Development And Application
  - Reduced Base Operating Cost
  - Reduced Ownership Distraction
  - Districted Site With Distributed Costs
- **Establishes Efficiently Sized Core Organic Capability**
- **Focus On Public-private Partnership & Economic Development**
- **Model For Industrial Support To Transformation**

Creates High  
Tech Business  
Park

Maintains  
Military  
Unique  
Capability

Cannot Cost  
Reduced Up  
To 60%

Reduce  
BASOPS  
Cost By  
85%

*Manufacturing & Technology Center at Watervliet Provides  
Critical Warfighting Capability – Current & Future*

*Joint Manufacturing and Technology Center at Watervliet – Weapons to Warfighters*

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