DCN:11677

CONTENTS

TECH-22 Defense Research Service Lab Laboratories

Bundle 1 of 3

Brief Chart - MESA Lab, NM	A
Unbundled COBRA for MESA	B
E-mail re: MESA Research Lab	C
COBRA [illegible]	D
[illegible]	E
DOD Comments re: MESA [illegible]	F
Not Used	G
Unbundled COBRA for moving IT & Hans	H
Unbundled COBRA & moving Research [illegible]	I
Unbundled COBRA [illegible]	J
[illegible] COBRA - IT & [illegible]	K
[illegible] modified COBRA - Rome Sensors to WPAFB	L
DOD's Baseline "Bundled" COBRA for Tech 22	M

Bundle 2 of 3

Documents re: Space Vehicle Dir from Hanson to Kirtland AFB	N
Documents re: Sensor Directorate Rome Research	O
Documents re: WPAFB and AFMC	P

Bundle 3 of 3

Unbundled COBRA: Langley to Aberdeen	Q
Unbundled COBRA: Glenn to Aberdeen	R
Unbundled COBRA: White Sands to Aberdeen	S
Summary of Unbundled Costs & Savings	T
Point Paper Support Consolidation of Defense Labs	U
Documents re: White Sands Missile Range Lab	V
Documents re: Aberdeen Proving Ground (Receiver)	W
Documents re: Army Research Lab - Glenn, OH	X
Not Used	Y
	Z

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DCN:11677

COBRA REALIGNMENT SUMMARY REPORT (COBRA v6.10) - Page 1/2
Data As Of 8/5/2005 10:34:46 AM, Report Created 8/5/2005 10:34:49 AM

Department : Army
Scenario File : C:\Tasker 806 TECH-0009R\Tasker 806 TECH-0009R Langley to Aberdeen\Tasker 806 JSC45 Def Led Res Labs Langley to Aberdeen 08052005.CBR
Option Pkg Name: Defense Research Service Led Labs TECH-0009B V5.0
Std Fctrs File : X:\COBRA 6.10\BRAC2005.SFF

Starting Year : 2006
Final Year : 2008
Payback Year : 2011 (3 Years)

NPV in 2025($K): -9,225
1-Time Cost($K): 2,784

Net Costs in 2005 Constant Dollars ($K)

	2006	2007	2008	2009	2010	2011	Total	Beyond
MilCon	70	751	23	0	0	0	843	0
Person	0	0	-318	-1,111	-1,076	-1,076	-3,582	-1,076
Overhd	0	13	154	158	158	158	642	158
Moving	0	0	1,018	0	0	0	1,018	0
Missio	0	0	0	0	0	0	0	0
Other	250	0	433	0	0	0	683	0
TOTAL	320	763	1,310	-952	-918	-918	-396	-918

	2006	2007	2008	2009	2010	2011	Total
POSITIONS ELIMINATED							
Off	0	0	1	0	0	0	1
Enl	0	0	0	0	0	0	0
Civ	0	0	16	0	0	0	16
TOT	0	0	17	0	0	0	17
POSITIONS REALIGNED							
Off	0	0	1	0	0	0	1
Enl	0	0	2	0	0	0	2
Stu	0	0	0	0	0	0	0
Civ	0	0	30	0	0	0	30
TOT	0	0	33	0	0	0	33

Summary:

To provide quick turnaround, we used proportional estimates for some costs and facility requirements. The proportional estimates were necessary because the certified data did not contain the level of detail needed. Therefore, there probably some minor cost differences from what the results would be using new certified data.

TECH-0009

Description:

This scenario realigns and co-locates the three service corporate laboratories to provide greater synergy across DTAP technical capabilities and functions. Additionally it creates a virtual "Defense Research Laboratory" by establishing a board of directors including Director of Defense Research and Engineering (DDRE), Technical Director of the Naval Research Laboratory (TD-NRL), Commanding Officer of Air Force Research Laboratory (CC-AFRL), Technical Director Army Research Laboratory (TD-ARL) and the Service S&T executives. The Board of Directors will advise and steer Research Labs to reduce duplicative efforts & foster joint centers of excellence. The purpose of this scenario is to consolidate to a smaller number of Service-centric geographic locations in order to increase the multidisciplinary collection of R&D expertise across DTAP capability areas at those locations.

Actions

* Realign all ARL/WSMR activity, including Battlespace Environment research, with the exception of the minimum detachment required to maintain T&E operations at WSMR by moving the people & their positions (government only) and the Special Equipment & Facilities from WSMR and consolidate at Aberdeen Proving Ground.

* Realign all ARL activity at NASA sites by moving the people and their positions (government only) and the special equipment & facilities from ARL/Langley Research Center (W26201), Langley VA and ARL/Glenn Research Center (W26206), Glenn, OH and consolidate at Aberdeen Proving Ground.

Source Files

1. TECH-0009 v 5.0.xls
No SDDs issued

TJCSG Assumptions.
None Applied.
Notes:

From Source File 1:
Notes:

ARL/Glenn Research Center (W26206) and ARL/Langley (W26201) are located at NASA Lewis Research Center and NASA Langley Research Center which are not in the COBRA database. The following approaches are required to provide data for Screen 2 and Screen 4:

1. Screen 2: The distances for these two sites were computed from the Defense Table of Distance (DTOD).
a. For Glenn Research Center, NASA Lewis Research Center to APG: 414.8 miles
b. For ARL/Langley, NASA Langley Research Center to APG: 255.1 miles
These data was entered by hand. Do not CLICK the "DATABASE Button" to override the data.

2. Screen 4: Population for authorized spaces: use 2003 the Army Stationing and Installation Plan (ASIP) database. Other info such as Lat/Long were approximated with data associated with Wright Patterson AFB and Langley AFB.

COBRA REALIGNMENT SUMMARY REPORT (COBRA v6.10) - Page 2/2
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Costs in 2005 Constant Dollars ($K)

	2006	2007	2008	2009	2010	2011	Total	Beyond
MilCon	70	751	23	0	0	0	843	0
Person	0	0	298	101	135	135	670	135
Overhd	0	13	154	158	158	158	642	158
Moving	0	0	1,026	0	0	0	1,026	0
Missio	0	0	0	0	0	0	0	0
Other	250	0	433	0	0	0	683	0
TOTAL	320	763	1,934	259	293	293	3,863	293

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	617	1,211	1,211	1,211	4,252	1,211
Overhd	0	0	0	0	0	0	0	0
Moving	0	0	7	0	0	0	7	0
Missio	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0
TOTAL	0	0	624	1,211	1,211	1,211	4,259	1,211

TOTAL COBRA ONE-TIME COST REPORT (COBRA v6.10) - Page 1/3
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(All values in 2005 Constant Dollars)

Category	Cost	Sub-Total
Construction		
Military Construction	843,055	
Total - Construction		843,055
Personnel		
Civilian RIF	172,195	
Civilian Early Retirement	35,967	
Eliminated Military PCS	10,477	
Unemployment	13,353	
Total - Personnel		231,992
Overhead		
Program Management Cost	0	
Support Contract Termination	0	
Mothball / Shutdown	0	
Total - Overhead		0
Moving		
Civilian Moving	819,616	
Civilian PPP	106,488	
Military Moving	7,487	
Freight	14,911	
Information Technologies	77,400	
One-Time Moving Costs	0	
Total - Moving		1,025,903
Other		
HAP / RSE	104,945	
Environmental Mitigation Costs	250,000	
Mission Contract Startup and Termination	0	
One-Time Unique Costs	328,000	
Total - Other		682,945
Total One-Time Costs		2,783,895
One-Time Savings		
Military Construction Cost Avoidances	0	
Military Moving	7,385	
One-Time Moving Savings	0	
Environmental Mitigation Savings	0	
One-Time Unique Savings	0	
Total One-Time Savings		7,385
Total Net One-Time Costs		2,776,510

COBRA ONE-TIME COST REPORT (COBRA v6.10) - Page 2/3
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Std Fctrs File : X:\COBRA 6.10\BRAC2005.SFF

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

Category	Cost	Sub-Total
Construction		
Military Construction	843,055	
Total - Construction		843,055
Personnel		
Civilian RIF	0	
Civilian Early Retirement	0	
Eliminated Military PCS	0	
Unemployment	0	
Total - Personnel		0
Overhead		
Program Management Cost	0	
Support Contract Termination	0	
Mothball / Shutdown	0	
Total - Overhead		0
Moving		
Civilian Moving	0	
Civilian PPP	0	
Military Moving	0	
Freight	0	
Information Technologies	71,000	
One-Time Moving Costs	0	
Total - Moving		71,000
Other		
HAP / RSE	0	
Environmental Mitigation Costs	250,000	
Mission Contract Startup and Termination	0	
One-Time Unique Costs	328,000	
Total - Other		578,000
Total One-Time Costs		1,492,055
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		1,492,055

COBRA ONE-TIME COST REPORT (COBRA v6.10) - Page 3/3
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Department : Army
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Option Pkg Name: Defense Research Service Led Labs TECH-0009B V5.0
Std Fctrs File : X:\COBRA 6.10\BRAC2005.SFF

Base: Langley Res Ctr, VA
(All values in 2005 Constant Dollars)

Category	Cost	Sub-Total
Construction		
Military Construction	0	
Total - Construction		0
Personnel		
Civilian RIF	172,195	
Civilian Early Retirement	35,967	
Eliminated Military PCS	10,477	
Unemployment	13,353	
Total - Personnel		231,992
Overhead		
Program Management Cost	0	
Support Contract Termination	0	
Mothball / Shutdown	0	
Total - Overhead		0
Moving		
Civilian Moving	819,616	
Civilian PPP	106,488	
Military Moving	7,487	
Freight	14,911	
Information Technologies	6,400	
One-Time Moving Costs	0	
Total - Moving		954,903
Other		
HAP / RSE	104,945	
Environmental Mitigation Costs	0	
Mission Contract Startup and Termination	0	
One-Time Unique Costs	0	
Total - Other		104,945
Total One-Time Costs		1,291,840
One-Time Savings		
Military Construction Cost Avoidances	0	
Military Moving	7,385	
One-Time Moving Savings	0	
Environmental Mitigation Savings	0	
One-Time Unique Savings	0	
Total One-Time Savings		7,385
Total Net One-Time Costs		1,284,455

COBRA TOTAL PERSONNEL SUMMARY REPORT (COBRA v6.10)
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Option Pkg Name: Defense Research Service Led Labs TECH-0009B V5.0
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TOTAL SCENARIO POPULATION (FY 2005):

Officers	Enlisted	Students	Civilians
418	1,590	2,831	6,900

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	-31	18	0	0	0	0	-13
Civilians	1,174	-2	21	0	0	0	1,193
TOTAL	1,143	16	21	0	0	0	1,180

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

Officers	Enlisted	Students	Civilians
418	1,590	2,818	8,093

TOTAL PERSONNEL REALIGNMENTS, ENTIRE SCENARIO):

	2006	2007	2008	2009	2010	2011	Total
Officers	0	0	1	0	0	0	1
Enlisted	0	0	2	0	0	0	2
Students	0	0	0	0	0	0	0
Civilians	0	0	30	0	0	0	30
TOTAL	0	0	33	0	0	0	33

TOTAL SCENARIO POSITION CHANGES, ENTIRE SCENARIO:

	2006	2007	2008	2009	2010	2011	Total
Officers	0	0	-1	0	0	0	-1
Enlisted	0	0	0	0	0	0	0
Civilians	0	0	-16	1	0	0	-15
TOTAL	0	0	-17	1	0	0	-16

TOTAL SCENARIO POPULATION (After BRAC Action):

Officers	Enlisted	Students	Civilians
417	1,590	2,818	8,078

COBRA PERSONNEL SUMMARY REPORT (COBRA v6.10) - Page 2
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PERSONNEL SUMMARY FOR: ABERDEEN, MD (24004)

BASE POPULATION (FY 2005):

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

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

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

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

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

PERSONNEL REALIGNMENTS:
From Base: Langley Res Ctr, VA

	2006	2007	2008	2009	2010	2011	Total
Officers	0	0	1	0	0	0	1
Enlisted	0	0	2	0	0	0	2
Students	0	0	0	0	0	0	0
Civilians	0	0	30	0	0	0	30
TOTAL	0	0	33	0	0	0	33

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

	2006	2007	2008	2009	2010	2011	Total
Officers	0	0	1	0	0	0	1
Enlisted	0	0	2	0	0	0	2
Students	0	0	0	0	0	0	0
Civilians	0	0	30	0	0	0	30
TOTAL	0	0	33	0	0	0	33

SCENARIO POSITION CHANGES FOR: ABERDEEN, MD (24004)

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

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

Officers	Enlisted	Students	Civilians
417	1,590	2,818	8,078

PERSONNEL SUMMARY FOR: Langley Res Ctr, VA

BASE POPULATION (FY 2005, Prior to BRAC Action) FOR: Langley Res Ctr, VA

Officers	Enlisted	Students	Civilians
2	2	0	46

COBRA PERSONNEL SUMMARY REPORT (COBRA v6.10) - Page 3
Data As Of 8/5/2005 10:34:46 AM, Report Created 8/5/2005 10:34:49 AM

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PERSONNEL REALIGNMENTS:
To Base: ABERDEEN, MD (24004)

	2006	2007	2008	2009	2010	2011	Total
Officers	0	0	1	0	0	0	1
Enlisted	0	0	2	0	0	0	2
Students	0	0	0	0	0	0	0
Civilians	0	0	30	0	0	0	30
TOTAL	0	0	33	0	0	0	33

TOTAL PERSONNEL REALIGNMENTS (Out of Langley Res Ctr, VA):

	2006	2007	2008	2009	2010	2011	Total
Officers	0	0	1	0	0	0	1
Enlisted	0	0	2	0	0	0	2
Students	0	0	0	0	0	0	0
Civilians	0	0	30	0	0	0	30
TOTAL	0	0	33	0	0	0	33

SCENARIO POSITION CHANGES FOR: Langley Res Ctr, VA

	2006	2007	2008	2009	2010	2011	Total
Officers	0	0	-1	0	0	0	-1
Enlisted	0	0	0	0	0	0	0
Civilians	0	0	-16	0	0	0	-16
TOTAL	0	0	-17	0	0	0	-17

BASE POPULATION (After BRAC Action) FOR: Langley Res Ctr, VA

Officers	Enlisted	Students	Civilians
0	0	0	0

COBRA ECONOMIC IMPACT REPORT (COBRA v6.10)
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ABERDEEN, MD (24004)

	2006	2007	2008	2009	2010	2011	Total
Jobs Gained-Mil	0	0	3	0	0	0	3
Jobs Lost-Mil	0	0	0	0	0	0	0
NET CHANGE-Mil	0	0	3	0	0	0	3
Jobs Gained-Civ	0	0	30	1	0	0	31
Jobs Lost-Civ	0	0	0	0	0	0	0
NET CHANGE-Civ	0	0	30	1	0	0	31
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

Langley Res Ctr, VA

	2006	2007	2008	2009	2010	2011	Total
Jobs Gained-Mil	0	0	0	0	0	0	0
Jobs Lost-Mil	0	0	4	0	0	0	4
NET CHANGE-Mil	0	0	-4	0	0	0	-4
Jobs Gained-Civ	0	0	0	0	0	0	0
Jobs Lost-Civ	0	0	46	0	0	0	46
NET CHANGE-Civ	0	0	-46	0	0	0	-46
Jobs Gained-Stu	0	0	0	0	0	0	0
Jobs Lost-Stu	0	0	0	0	0	0	0
NET CHANGE-Stu	0	0	0	0	0	0	0

COBRA INPUT DATA REPORT (COBRA v6.10)
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INPUT SCREEN ONE - GENERAL SCENARIO INFORMATION

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

Base Name, ST (Code)	Strategy:
ABERDEEN, MD (24004)	Realignment
Langley Res Ctr, VA	Realignment

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

Point A:	Point B:	Distance:
ABERDEEN, MD (24004)	Langley Res Ctr, VA	255 mi

INPUT SCREEN THREE - MOVEMENT TABLE

Transfers from Langley Res Ctr, VA to ABERDEEN, MD (24004)

	2006	2007	2008	2009	2010	2011
Officer Positions:	0	0	1	0	0	0
Enlisted Positions:	0	0	2	0	0	0
Civilian Positions:	0	0	30	0	0	0
Student Positions:	0	0	0	0	0	0
NonVeh Missn Eqpt(tons):	0	0	0	0	0	0
Suppt Eqpt (tons):	0	0	0	0	0	0
Mil Light Vehic (tons):	0	0	0	0	0	0
Heavy/Spec Vehic (tons):	0	0	0	0	0	0

INPUT SCREEN FOUR - STATIC BASE INFORMATION

Name: ABERDEEN, MD (24004)

Total Officer Employees:	416	Base Service (for BOS/Sust):	Army
Total Enlisted Employees:	1,588	Total Sustainment($K/Year):	33,839
Total Student Employees:	2,831	Sustain Payroll ($K/Year):	16,887
Total Civilian Employees:	6,854	BOS Non-Payroll ($K/Year):	94,054
Accomp Mil not Receiving BAH:	52.3%	BOS Payroll ($K/Year):	110,565
Officer Housing Units Avail:	54	Family Housing ($K/Year):	2,635
Enlisted Housing Units Avail:	234	Installation PRV($K):	2,845,026
Starting Facilities(KSF):	14,280	Svc/Agcy Recap Rate (Years):	103
Officer BAH ($/Month):	1,264	Homeowner Assistance Program:	No
Enlisted BAH ($/Month):	884		
Civ Locality Pay Factor:	1.146		
Area Cost Factor:	0.88		
Per Diem Rate ($/Day):	127		
Freight Cost ($/Ton/Mile):	0.33		
Vehicle Cost ($/Lift/Mile):	4.84		
Latitude:	39.491667		
Longitude:	-76.136112		

TRICARE	In-Pat Admits	Out-Pat Visits	Prescrip
CostFactor	7,573.00	145.00	22.67
Actv MTF	0	60,704	52,876
Actv Purch	318	7,561	
Retiree	0	12,723	30,748
Retiree65+	0	2,992	27,218

COBRA INPUT DATA REPORT (COBRA v6.10) - Page 2
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INPUT SCREEN FOUR - STATIC BASE INFORMATION

Name: Langley Res Ctr, VA

Total Officer Employees:	2	Base Service (for BOS/Sust):	Air Force
Total Enlisted Employees:	2	Total Sustainment($K/Year):	0
Total Student Employees:	0	Sustain Payroll ($K/Year):	0
Total Civilian Employees:	46	BOS Non-Payroll ($K/Year):	0
Accomp Mil not Receiving BAH:	21.0%	BOS Payroll ($K/Year):	0
Officer Housing Units Avail:	0	Family Housing ($K/Year):	0
Enlisted Housing Units Avail:	0	Installation PRV($K):	0
Starting Facilities(KSF):	0	Svc/Agcy Recap Rate (Years):	0
Officer BAH ($/Month):	1,074	Homeowner Assistance Program:	Yes
Enlisted BAH ($/Month):	815		
Civ Locality Pay Factor:	1.109		
Area Cost Factor:	0.94		
Per Diem Rate ($/Day):	142		
Freight Cost ($/Ton/Mile):	0.18		
Vehicle Cost ($/Lift/Mile):	4.84		
Latitude:	37.083210		
Longitude:	-76.362350		

TRICARE	In-Pat Admits	Out-Pat Visits	Prescrip
CostFactor	0.00	0.00	0.00
Actv MTF	0	0	0
Actv Purch	0	0	
Retiree	0	0	0
Retiree65+	0	0	0

INPUT SCREEN FIVE - DYNAMIC BASE INFORMATION

Name: ABERDEEN, MD (24004)

	2006	2007	2008	2009	2010	2011
1-Time Unique Cost ($K):	0	0	328	0	0	0
1-Time Unique Save ($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($K):	250	0	0	0	0	0
Activ Mission Cost ($K):	0	0	0	0	0	0
Activ Mission Save ($K):	0	0	0	0	0	0
Misn Contract Start($K):	0	0	0	0	0	0
Misn Contract Term ($K):	0	0	0	0	0	0
Supt Contract Term ($K):	0	0	0	0	0	0
Misc Recurring Cost($K):	0	0	0	0	0	0
Misc Recurring Save($K):	0	0	0	0	0	0
One-Time IT Costs ($K):	0	0	71	0	0	0
Construction Schedule(%):	0%	0%	0%	0%	0%	0%
Shutdown Schedule (%):	0%	0%	0%	0%	0%	0%
Misn Milcon Avoidnc($K):	0	0	0	0	0	0
Procurement Avoidnc($K):	0	0	0	0	0	0

MTF Closure Action: None Fac ShDn(KSF): 0 FH ShDn: 0.000%

COBRA INPUT DATA REPORT (COBRA v6.10) - Page 3
Data As Of 8/5/2005 10:34:46 AM, Report Created 8/5/2005 10:34:49 AM

Department : Army
Scenario File : C:\Tasker 806 TECH-0009R\Tasker 806 TECH-0009R Langley to Aberdeen\Tasker 806 JSC45 Def Led Res Labs Langley to Aberdeen 08052005.CBR
Option Pkg Name: Defense Research Service Led Labs TECH-0009B V5.0
Std Fctrs File : X:\COBRA 6.10\BRAC2005.SFF

INPUT SCREEN FIVE - DYNAMIC BASE INFORMATION

Name: Langley Res Ctr, VA

	2006	2007	2008	2009	2010	2011
1-Time Unique Cost ($K):	0	0	0	0	0	0
1-Time Unique Save ($K):	0	0	0	0	0	0
1-Time Moving Cost ($K):	0	0	0	0	0	0
1-Time Moving Save ($K):	0	0	0	0	0	0
Env Non-MilCon Reqd($K):	0	0	0	0	0	0
Activ Mission Cost ($K):	0	0	0	0	0	0
Activ Mission Save ($K):	0	0	0	0	0	0
Misn Contract Start($K):	0	0	0	0	0	0
Misn Contract Term ($K):	0	0	0	0	0	0
Supt Contract Term ($K):	0	0	0	0	0	0
Misc Recurring Cost($K):	0	0	0	0	0	0
Misc Recurring Save($K):	0	0	0	0	0	0
One-Time IT Costs ($K):	0	0	0	0	0	0
Construction Schedule(%):	0%	0%	0%	0%	0%	0%
Shutdown Schedule (%):	0%	0%	0%	0%	0%	0%
Misn Milcon Avoidnc($K):	0	0	0	0	0	0
Procurement Avoidnc($K):	0	0	0	0	0	0

MTF Closure Action: None Fac ShDn(KSF): 0 FH ShDn: 0.000%

INPUT SCREEN SIX - BASE PERSONNEL INFORMATION

Name: ABERDEEN, MD (24004)

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

Name: Langley Res Ctr, VA

	2006	2007	2008	2009	2010	2011
Off Scenario Change:	0	0	-1	0	0	0
Enl Scenario Change:	0	0	0	0	0	0
Civ Scenario Change:	0	0	-16	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:	0	0	0	0	0	0
Stu Prog nonBRAC Change:	0	0	0	0	0	0
Prog FH Privatization:	100%	0%	0%	0%	0%	0%

COBRA INPUT DATA REPORT (COBRA v6.10) - Page 4
Data As Of 8/5/2005 10:34:46 AM, Report Created 8/5/2005 10:34:49 AM

Department : Army
Scenario File : C:\Tasker 806 TECH-0009R\Tasker 806 TECH-0009R Langley to Aberdeen\Tasker 806 JSC45 Def Led Res Labs Langley to Aberdeen 08052005.CBR
Option Pkg Name: Defense Research Service Led Labs TECH-0009B V5.0
Std Fctrs File : X:\COBRA 6.10\BRAC2005.SFF

INPUT SCREEN SEVEN - BASE MILITARY CONSTRUCTION INFORMATION

Name: ABERDEEN, MD (24004)

FAC	UM	New MilCon	Rehab MilCon	TotCost($K)	FPG Con CF	FPG Sust CF
8521	SY	1,155	0 Default	0	45.83	1.07
6100	SF	5,280	0 Default	0	138.78	2.52

STANDARD FACTORS SCREEN ONE - PERSONNEL

SF File Descrip:

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

STANDARD FACTORS SCREEN TWO - FACILITIES

	Army	Navy	Air Force	Marines
Service Sustainment Rate	87.00%	93.00%	92.00%	97.00%
Unit Cost Adjustment (BOS)	10332.00	8879.00	3032.00	3904.00

Program Management Factor:	10.00	MilCon Site Prep Cost ($/SF):	0.74
Mothball (Close) ($/SF):	0.18	MilCon Contingency Plan Rate:	5.00%
Mothball (Deac/Realn) ($/SF):	0.45	MilCon Design Rate (Medical):	13.00%
Rehab vs. MilCon (Default):	47.00%	MilCon Design Rate (Other):	9.00%
Rehab vs. MilCon (Red):	64.00%	MilCon SIOH Rate:	6.00%
Rehab vs. MilCon (Amber):	29.00%	Discount Rate for NPV/Payback:	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 : Army
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Std Fctrs File : X:\COBRA 6.10\BRAC2005.SFF

FOOTNOTES FOR SCREEN ONE
==========
To provide quick turnaround, we used proportional estimates for some costs and facility requirements. The proportional estimates were necessary because the certified data did not contain the level of detail needed. Therefore, there probably some minor cost differences from what the results would be using new certified data.

TECH-0009

Description:

This scenario realigns and co-locates the three service corporate laboratories to provide greater synergy across DTAP technical capabilities and functions. Additionally it creates a virtual Defense Research Laboratory by establishing a board of directors including Director of Defense Research and Engineering (DDRE), Technical Director of the Naval Research Laboratory (TD-NRL), Commanding Officer of Air Force Research Laboratory (CC-AFRL), Technical Director Army Research Laboratory (TD-ARL) and the Service S&T executives. The Board of Directors will advise and steer Research Labs to reduce duplicative efforts & foster joint centers of excellence. The purpose of this scenario is to consolidate to a smaller number of Service-centric geographic locations in order to increase the multidisciplinary collection of R&D expertise across DTAP capability areas at those locations.

Actions

* Realign all ARL/WSMR activity, including Battlespace Environment research, with the exception of the minimum detachment required to maintain T&E operations at WSMR by moving the people & their positions (government only) and the Special Equipment & Facilities from WSMR and consolidate at Aberdeen Proving Ground.

* Realign all ARL activity at NASA sites by moving the people and their positions (government only) and the special equipment & facilities from ARL/Langley Research Center (W26201), Langley VA and ARL/Glenn Research Center (W26206), Glenn, OH and consolidate at Aberdeen Proving Ground.

Source Files
1. TECH-0009 v 5.0.xls
No SDDs issued

TJCSG Assumptions.
None Applied.
Notes:

From Source File 1:
Notes:

ARL/Glenn Research Center (W26206) and ARL/Langley (W26201) are located at NASA Lewis Research Center and NASA Langley Research Center which are not in the COBRA database. The following approaches are required to provide data for Screen 2 and Screen 4:

1. Screen 2: The distances for these two sites were computed from the Defense Table of Distance (DTOD).
a. For Glenn Research Center, NASA Lewis Research Center to APG: 414.8 miles
b. For ARL/Langley, NASA Langley Research Center to APG: 255.1 miles
These data was entered by hand. Do not CLICK the "DATABASE Button" to override the data.

2. Screen 4: Population for authorized spaces: use 2003 the Army Stationing and Installation Plan (ASIP) database. Other info such as Lat/Long were approximated with data associated with Wright Patterson AFB and Langley AFB.

Department : Army
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Option Pkg Name: Defense Research Service Led Labs TECH-0009B V5.0
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FOOTNOTES FOR SCREEN TWO
==========
ARL/Glenn Research Center (W26206) and ARL/Langley (W26201) are located at NASA Lewis Research Center and NASA Langley Research Center which are not in the COBRA database. The following approaches are required to provide data for Screen 2 :

The distances for these two sites were computed from the Defense Table of Distance (DTOD)..
a. For Glenn Research Center, NASA Lewis Research Center to APG: 414.8 miles
b. For ARL/Langley, NASA Langley Research Center to APG: 255.1 miles
These data was entered by hand. Do not CLICK the "DATABASE Button" to override the data.

FOOTNOTES FOR SCREEN THREE
==========
WSMR:
A 5.5% reduction was taken on civilan personnel.
WSMR to Aberdeen Off -1; Enl -10; Civ -145.
SLAD(old 009B) :Off -1; Enl -9; Civ -105
BE (Old 0020) :Off -0; Enl -1; Civ -40
Move the organization in Yr 2009

Because of equipment type (lab equipment etc.), COBRA would significantly underestimate the cost of moving if calculated by weight. Therefore, weight data is not provided. Instead, a one time relocation cost is used and is located on screen 5. Source File 1

All data from Source File 1.
No TJCSG assumptions made.

FOOTNOTES FOR SCREEN FOUR
==========
All Screen Four Comments are From Source File 1

ARL/Glenn Research Center (W26206) and ARL/Langley (W26201) are located at NASA Lewis Research Center and NASA Langley Research Center which are not in the COBRA database. The following approaches are required to provide data for Screen 4:

Population for authorized spaces: use 2003 the Army Stationing and Installation Plan (ASIP) database. Other info such as Lat/Long were approximated with data associated with Wright Patterson AFB and Langley AFB.

Glenn Reseach Center site is located outside of Cleveland-Hopkins Airport, OH Population From 2003 ASIP the following information was used for NASA Glenn Research Center(W26206):
OFF:0 ENL:0 CIV:50

Langley Research site is in Hampton, VA and cost factors from Langley AFB were used.
From 2003 ASIP the following information was used for NASA Langely (W26201):
OFF:2 ENL:2 CIV:46

FOOTNOTES FOR SCREEN FIVE
==========
All Comments From Source File 1.

Aberdeen

One-Time Unique Cost for Utilities Support is $2,254 K added in Yr 2008 at the move.
One time IT cost for $490.8 K in Yr 2008.

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APG needs the following requirement for ENV Non-MILCON expenditure
Air Conformity Analysis - $50K
New Source Review - $100K
NEPA - $100K

Because of equipment type (lab equipmet etc.), COBRA would significantly underestimate the cost of moving if calculated by weight. Therefore, weight data and vehicle data is not provided. Instead, a one time reclocation cost is used and is located on screen 5 for White Sands.

White Sands - ARL/WSMR

One-time moving cost is $6.03 M for relocating all equipment from White Sands to Aberdeen in Yr 2009.
$3.73 M is for moving BLAD equipments.
$2.3 M is for moving BE equipments.
Because of equipment type (lab equipment etc.), COBRA would significantly underestimate the cost of moving if calculated by weight. Therefore, weight data is not provided. Instead, a one time reclocation cost is used and is located on screen 5.

ARL/WSMR (W26212) vacates 26.6 KSF. 26,600 SF =164 people * 162 sf/person

FOOTNOTES FOR SCREEN SIX
==========
All Screen Six Comments from Source File 1.

Aberdeen:
Aberdeen BASOPS changes: CIV = +9.

WSMR:
- WSMR BASOPS changes: ENL=- 2; CIV =-12
- Efficiency savings from the units moving is 8 CIV.
- Total reduction at WSMR: Off =0; ENL=-2, CIV=-20

Langley and Glenn Reseach Center :
Population reduction was calculated using current ASIP (FY03) and SDC certified data call information:
- Glenn Reseach Center: Civ=-20
- Langley Reseach Center: OFF:=-1 and CIV= -16

FOOTNOTES FOR SCREEN SEVEN
==========
All Comments on Screen 7 from Source File 1

Aberdeen:

WSMR identified a requirement for RDT&E labs with a PRV of $9.7M.
(1) BLAD required a RDT&E lab space of 26 KSF with a PRV of $7.8 M (FAC 3101).
(2) Battlespace Environment required a RDT&E lab with a PRV of 1.9M) (FAC 3101).

No new MILCON for Enlisted Unaccompanied Personnel Housing is needed. Since Aberdeen has non-occupied 131 KSF of Enlisted Unaccompanied Personnel Housing and only 1 KSF of Enlisted Unaccompanied Personnel Housing is required for 12 enlisted.

Facility requirements from RPLANS are 1,885 KSF of Admin Space, 1,077 KSY
The MILCON requirements of admin space for 228 people (including 8 contractors) is 36.95 KSF.
Admin space 36,800 SF = 227 people * 162 sf/person +26 SF
The MILCON requirements of vehicle parking space for 228 people (including 8 contractors) is 8 KSY.

COBRA INPUT DATA REPORT (COBRA v6.10) - Page 8
Data As Of 8/5/2005 10:34:46 AM, Report Created 8/5/2005 10:34:49 AM

Department : Army
Scenario File : C:\Tasker 806 TECH-0009R\Tasker 806 TECH-0009R Langley to Aberdeen\Tasker 806 JSC45 Def Led Res Labs Langley to Aberdeen 08052005.CBR
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Parking space 8000 SY = 227 people • 35 sy/person +55 SY

COBRA PERSONNEL/SF/SUSTAINMENT/RECAP/BOS DELTAS REPORT (COBRA v6.10)
Data As Of 8/5/2005 10:34:46 AM, Report Created 8/5/2005 10:34:49 AM

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Std Fctrs File : X:\COBRA 6.10\BRAC2005.SFF

Personnel

Base	Start*	Finish*	Change	%Change
ABERDEEN	12,869	12,903	34	0%
Langley Res Ctr	50	0	-50	-100%
TOTAL	12,919	12,903	-16	0%

Square Footage

Base	Start	Finish	Change	%Change	Chg/Per
ABERDEEN	14,280,000	14,285,280	5,280	0%	155
Langley Res Ctr	0	0	0	0%	0
TOTAL	14,280,000	14,285,280	5,280	0%	-330

Base Operations Support (2005$)

Base	Start*	Finish*	Change	%Change	Chg/Per
ABERDEEN	99,093,746	99,238,963	145,217	0%	4,271
Langley Res Ctr	0	0	0	0%	0
TOTAL	99,093,746	99,238,963	145,217	0%	-9,076

Sustainment (2005$)

Base	Start	Finish	Change	%Change	Chg/Per
ABERDEEN	16,952,404	16,957,981	5,577	0%	164
Langley Res Ctr	0	0	0	0%	0
TOTAL	16,952,404	16,957,981	5,577	0%	-348

Recapitalization (2005$)

Base	Start	Finish	Change	%Change	Chg/Per
ABERDEEN	27,621,610	27,629,119	7,509	0%	221
Langley Res Ctr	0	0	0	0%	0
TOTAL	27,621,610	27,629,119	7,509	0%	-469

Sustain + Recap + BOS (2005$)

Base	Start	Finish	Change	%Change	Chg/Per
ABERDEEN	143,667,759	143,826,063	158,304	0%	4,656
Langley Res Ctr	0	0	0	0%	0
TOTAL	143,667,759	143,826,063	158,304	0%	-9,894

Plant Replacement Value (2005$)

Base	Start	Finish	Change	%Change	Chg/Per
ABERDEEN	2,845,025,803	2,845,799,248	773,445	0%	22,748
Langley Res Ctr	0	0	0	0%	0
TOTAL	2,845,025,803	2,845,799,248	773,445	0%	-48,340

COBRA PERSONNEL/SF/SUSTAINMENT/RECAP/BOS DELTAS REPORT (COBRA v6.10) - Page 2
Data As Of 8/5/2005 10:34:46 AM, Report Created 8/5/2005 10:34:49 AM

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* "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 1/9
Data As Of 8/5/2005 10:34:46 AM, Report Created 8/5/2005 10:34:49 AM

Department : Army
Scenario File : C:\Tasker 806 TECH-0009R\Tasker 806 TECH-0009R Langley to Aberdeen\Tasker 806 JSC45 Def Led Res Labs Langley to Aberdeen 08052005.CBR
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ONE-TIME COSTS -----($K)-----	2006	2007	2008	2009	2010	2011	Total
CONSTRUCTION							
MILCON	70	751	23	0	0	0	843
O&M							
CIV SALARY							
Civ RIF	0	0	172	0	0	0	172
Civ Retire	0	0	36	0	0	0	36
CIV MOVING							
Per Diem	0	0	113	0	0	0	113
POV Miles	0	0	1	0	0	0	1
Home Purch	0	0	373	0	0	0	373
HHG	0	0	68	0	0	0	68
Misc	0	0	29	0	0	0	29
House Hunt	0	0	70	0	0	0	70
PPP	0	0	106	0	0	0	106
RITA	0	0	164	0	0	0	164
FREIGHT							
Packing	0	0	2	0	0	0	2
Freight	0	0	13	0	0	0	13
Vehicles	0	0	0	0	0	0	0
Unemployment	0	0	13	0	0	0	13
OTHER							
Info Tech	0	0	77	0	0	0	77
Prog Manage	0	0	0	0	0	0	0
Supt Contrac	0	0	0	0	0	0	0
Mothball	0	0	0	0	0	0	0
1-Time Move	0	0	0	0	0	0	0
MIL PERSONNEL							
MIL MOVING							
Per Diem	0	0	0	0	0	0	0
POV Miles	0	0	0	0	0	0	0
HHG	0	0	4	0	0	0	4
Misc	0	0	3	0	0	0	3
OTHER							
Elim PCS	0	0	10	0	0	0	10
OTHER							
HAP / RSE	0	0	105	0	0	0	105
Environmental	250	0	0	0	0	0	250
Misn Contract	0	0	0	0	0	0	0
1-Time Other	0	0	328	0	0	0	328
TOTAL ONE-TIME	320	751	1,713	0	0	0	2,784

TOTAL COBRA REALIGNMENT DETAIL REPORT (COBRA v6.10) - Page 2/9
Data As Of 8/5/2005 10:34:46 AM, Report Created 8/5/2005 10:34:49 AM

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Scenario File : C:\Tasker 806 TECH-0009R\Tasker 806 TECH-0009R Langley to Aberdeen\Tasker 806 JSC45 Def Led Res Labs Langley to Aberdeen 08052005.CBR
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RECURRINGCOSTS -----($K)-----	2006	2007	2008	2009	2010	2011	Total	Beyond
O&M								
Sustainment	0	5	5	5	5	5	28	5
Recap	0	7	7	7	7	7	37	7
BOS	0	0	141	145	145	145	576	145
Civ Salary	0	0	66	101	135	135	438	135
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	13	220	259	293	293	1,080	293
TOTAL COST	320	763	1,934	259	293	293	3,863	293

ONE-TIME SAVES -----($K)-----	2006	2007	2008	2009	2010	2011	Total
CONSTRUCTION							
MILCON	0	0	0	0	0	0	0
O&M							
1-Time Move	0	0	0	0	0	0	0
MIL PERSONNEL							
Mil Moving	0	0	7	0	0	0	7
OTHER							
Environmental	0	0	0	0	0	0	0
1-Time Other	0	0	0	0	0	0	0
TOTAL ONE-TIME	0	0	7	0	0	0	7

RECURRINGSAVES -----($K)-----	2006	2007	2008	2009	2010	2011	Total	Beyond
FAM HOUSE OPS	0	0	0	0	0	0	0	0
O&M								
Sustainment	0	0	0	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	532	1,064	1,064	1,064	3,724	1,064
MIL PERSONNEL								
Off Salary	0	0	62	125	125	125	437	125
Enl Salary	0	0	0	0	0	0	0	0
House Allow	0	0	23	23	23	23	91	23
OTHER								
Procurement	0	0	0	0	0	0	0	0
Mission Activ	0	0	0	0	0	0	0	0
Misc Recur	0	0	0	0	0	0	0	0
TOTAL RECUR	0	0	617	1,211	1,211	1,211	4,252	1,211
TOTAL SAVINGS	0	0	624	1,211	1,211	1,211	4,259	1,211

TOTAL COBRA REALIGNMENT DETAIL REPORT (COBRA v6.10) - Page 3/9
Data As Of 8/5/2005 10:34:46 AM, Report Created 8/5/2005 10:34:49 AM

Department : Army
Scenario File : C:\Tasker 806 TECH-0009R\Tasker 806 TECH-0009R Langley to Aberdeen\Tasker 806 JSC45 Def Led Res Labs Langley to Aberdeen 08052005.CBR
Option Pkg Name: Defense Research Service Led Labs TECH-0009B V5.0
Std Fctrs File : X:\COBRA 6.10\BRAC2005.SFF

ONE-TIME NET -----($K)-----	2006	2007	2008	2009	2010	2011	Total
CONSTRUCTION							
MILCON	70	751	23	0	0	0	843
O&M							
Civ Retir/RIF	0	0	208	0	0	0	208
Civ Moving	0	0	941	0	0	0	941
Info Tech	0	0	77	0	0	0	77
Other	0	0	13	0	0	0	13
MIL PERSONNEL							
Mil Moving	0	0	10	0	0	0	10
OTHER							
HAP / RSE	0	0	105	0	0	0	105
Environmental	250	0	0	0	0	0	250
Misn Contract	0	0	0	0	0	0	0
1-Time Other	0	0	328	0	0	0	328
TOTAL ONE-TIME	320	751	1,706	0	0	0	2,526

RECURRING NET -----($K)-----	2006	2007	2008	2009	2010	2011	Total	Beyond
FAM HOUSE OPS	0	0	0	0	0	0	0	0
O&M								
Sustainment	0	5	5	5	5	5	28	5
Recap	0	7	7	7	7	7	37	7
BOS	0	0	141	145	145	145	576	145
Civ Salary	0	0	-465	-963	-929	-929	-3,286	-929
TRICARE	0	0	0	0	0	0	0	0
MIL PERSONNEL								
Mil Salary	0	0	-62	-125	-125	-125	-437	-125
House Allow	0	0	-23	-23	-23	-23	-91	-23
OTHER								
Procurement	0	0	0	0	0	0	0	0
Mission Activ	0	0	0	0	0	0	0	0
Misc Recur	0	0	0	0	0	0	0	0
TOTAL RECUR	0	13	-396	-952	-918	-918	-3,172	-918
TOTAL NET COST	320	763	1,310	-952	-918	-918	-396	-918

COBRA REALIGNMENT DETAIL REPORT (COBRA v6.10) - Page 4/9
Data As Of 8/5/2005 10:34:46 AM, Report Created 8/5/2005 10:34:49 AM

Department : Army
Scenario File : C:\Tasker 806 TECH-0009R\Tasker 806 TECH-0009R Langley to Aberdeen\Tasker 806 JSC45 Def Led Res Labs Langley to Aberdeen 08052005.CBR
Option Pkg Name: Defense Research Service Led Labs TECH-0009B V5.0
Std Fctrs File : X:\COBRA 6.10\BRAC2005.SFF

Base: ABERDEEN, MD (24004)

ONE-TIME COSTS -----($K)-----	2006	2007	2008	2009	2010	2011	Total
CONSTRUCTION							
MILCON	70	751	23	0	0	0	843
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	71	0	0	0	71
Prog Manage	0	0	0	0	0	0	0
Supt Contrac	0	0	0	0	0	0	0
Mothball	0	0	0	0	0	0	0
1-Time Move	0	0	0	0	0	0	0
MIL PERSONNEL							
MIL MOVING							
Per Diem	0	0	0	0	0	0	0
POV Miles	0	0	0	0	0	0	0
HHG	0	0	0	0	0	0	0
Misc	0	0	0	0	0	0	0
OTHER							
Elim PCS	0	0	0	0	0	0	0
OTHER							
HAP / RSE	0	0	0	0	0	0	0
Environmental	250	0	0	0	0	0	250
Misn Contract	0	0	0	0	0	0	0
1-Time Other	0	0	328	0	0	0	328
TOTAL ONE-TIME	320	751	422	0	0	0	1,492

COBRA REALIGNMENT DETAIL REPORT (COBRA v6.10) - Page 5/9
Data As Of 8/5/2005 10:34:46 AM, Report Created 8/5/2005 10:34:49 AM

Department : Army
Scenario File : C:\Tasker 806 TECH-0009R\Tasker 806 TECH-0009R Langley to Aberdeen\Tasker 806 JSC45 Def Led Res Labs Langley to Aberdeen 08052005.CBR
Option Pkg Name: Defense Research Service Led Labs TECH-0009B V5.0
Std Fctrs File : X:\COBRA 6.10\BRAC2005.SFF

Base: ABERDEEN, MD (24004)

RECURRINGCOSTS -----($K)-----	2006	2007	2008	2009	2010	2011	Total	Beyond
O&M								
Sustainment	0	5	5	5	5	5	28	5
Recap	0	7	7	7	7	7	37	7
BOS	0	0	141	145	145	145	576	145
Civ Salary	0	0	66	101	135	135	438	135
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	13	220	259	293	293	1,080	293
TOTAL COSTS	320	763	642	259	293	293	2,572	293

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

RECURRINGSAVES -----($K)-----	2006	2007	2008	2009	2010	2011	Total	Beyond
FAM HOUSE OPS	0	0	0	0	0	0	0	0
O&M								
Sustainment	0	0	0	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
MIL PERSONNEL								
Off Salary	0	0	0	0	0	0	0	0
Enl Salary	0	0	0	0	0	0	0	0
House Allow	0	0	0	0	0	0	0	0
OTHER								
Procurement	0	0	0	0	0	0	0	0
Mission Activ	0	0	0	0	0	0	0	0
Misc Recur	0	0	0	0	0	0	0	0
TOTAL RECUR	0	0	0	0	0	0	0	0
TOTAL SAVINGS	0	0	0	0	0	0	0	0

COBRA REALIGNMENT DETAIL REPORT (COBRA v6.10) - Page 6/9
Data As Of 8/5/2005 10:34:46 AM, Report Created 8/5/2005 10:34:49 AM

Department : Army
Scenario File : C:\Tasker 806 TECH-0009R\Tasker 806 TECH-0009R Langley to Aberdeen\Tasker 806 JSC45 Def Led Res Labs Langley to Aberdeen 08052005.CBR
Option Pkg Name: Defense Research Service Led Labs TECH-0009B V5.0
Std Fctrs File : X:\COBRA 6.10\BRAC2005.SFF

Base: ABERDEEN, MD (24004)

ONE-TIME NET -----($K)-----	2006	2007	2008	2009	2010	2011	Total
CONSTRUCTION							
MILCON	70	751	23	0	0	0	843
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	71	0	0	0	71
Other	0	0	0	0	0	0	0
MIL PERSONNEL							
Mil Moving	0	0	0	0	0	0	0
OTHER							
HAP / RSE	0	0	0	0	0	0	0
Environmental	250	0	0	0	0	0	250
Misn Contract	0	0	0	0	0	0	0
1-Time Other	0	0	328	0	0	0	328
TOTAL ONE-TIME	320	751	422	0	0	0	1,492

RECURRING NET -----($K)-----	2006	2007	2008	2009	2010	2011	Total	Beyond
FAM HOUSE OPS	0	0	0	0	0	0	0	0
O&M								
Sustainment	0	5	5	5	5	5	28	5
Recap	0	7	7	7	7	7	37	7
BOS	0	0	141	145	145	145	576	145
Civ Salary	0	0	66	101	135	135	438	135
TRICARE	0	0	0	0	0	0	0	0
MIL PERSONNEL								
Mil Salary	0	0	0	0	0	0	0	0
House Allow	0	0	0	0	0	0	0	0
OTHER								
Procurement	0	0	0	0	0	0	0	0
Mission Activ	0	0	0	0	0	0	0	0
Misc Recur	0	0	0	0	0	0	0	0
TOTAL RECUR	0	13	220	259	293	293	1,080	293
TOTAL NET COST	320	763	642	259	293	293	2,572	293

COBRA REALIGNMENT DETAIL REPORT (COBRA v6.10) - Page 7/9
Data As Of 8/5/2005 10:34:46 AM, Report Created 8/5/2005 10:34:49 AM

Department : Army
Scenario File : C:\Tasker 806 TECH-0009R\Tasker 806 TECH-0009R Langley to Aberdeen\Tasker 806 JSC45 Def Led Res Labs Langley to Aberdeen 08052005.CBR
Option Pkg Name: Defense Research Service Led Labs TECH-0009B V5.0
Std Fctrs File : X:\COBRA 6.10\BRAC2005.SFF

Base: Langley Res Ctr, VA

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 RIFs	0	0	172	0	0	0	172
Civ Retire	0	0	36	0	0	0	36
CIV MOVING							
Per Diem	0	0	113	0	0	0	113
POV Miles	0	0	1	0	0	0	1
Home Purch	0	0	373	0	0	0	373
HHG	0	0	68	0	0	0	68
Misc	0	0	29	0	0	0	29
House Hunt	0	0	70	0	0	0	70
PPP	0	0	106	0	0	0	106
RITA	0	0	164	0	0	0	164
FREIGHT							
Packing	0	0	2	0	0	0	2
Freight	0	0	13	0	0	0	13
Vehicles	0	0	0	0	0	0	0
Unemployment	0	0	13	0	0	0	13
OTHER							
Info Tech	0	0	6	0	0	0	6
Prog Manage	0	0	0	0	0	0	0
Supt Contrac	0	0	0	0	0	0	0
Mothball	0	0	0	0	0	0	0
1-Time Move	0	0	0	0	0	0	0
MIL PERSONNEL							
MIL MOVING							
Per Diem	0	0	0	0	0	0	0
POV Miles	0	0	0	0	0	0	0
HHG	0	0	4	0	0	0	4
Misc	0	0	3	0	0	0	3
OTHER							
Elim PCS	0	0	10	0	0	0	10
OTHER							
HAP / RSE	0	0	105	0	0	0	105
Environmental	0	0	0	0	0	0	0
Misn Contract	0	0	0	0	0	0	0
1-Time Other	0	0	0	0	0	0	0
TOTAL ONE-TIME	0	0	1,292	0	0	0	1,292

COBRA REALIGNMENT DETAIL REPORT (COBRA v6.10) - Page 8/9
Data As Of 8/5/2005 10:34:46 AM, Report Created 8/5/2005 10:34:49 AM

Department : Army
Scenario File : C:\Tasker 806 TECH-0009R\Tasker 806 TECH-0009R Langley to Aberdeen\Tasker 806 JSC45 Def Led Res Labs Langley to Aberdeen 08052005.CBR
Option Pkg Name: Defense Research Service Led Labs TECH-0009B V5.0
Std Fctrs File : X:\COBRA 6.10\BRAC2005.SFF

Base: Langley Res Ctr, VA

RECURRINGCOSTS -----($K)-----	2006	2007	2008	2009	2010	2011	Total	Beyond
O&M								
Sustainment	0	0	0	0	0	0	0	0
Recap	0	0	0	0	0	0	0	0
BOS	0	0	0	0	0	0	0	0
Civ Salary	0	0	0	0	0	0	0	0
TRICARE	0	0	0	0	0	0	0	0
MIL PERSONNEL								
Off Salary	0	0	0	0	0	0	0	0
Enl Salary	0	0	0	0	0	0	0	0
House Allow	0	0	0	0	0	0	0	0
OTHER								
Mission Activ	0	0	0	0	0	0	0	0
Misc Recur	0	0	0	0	0	0	0	0
TOTAL RECUR	0	0	0	0	0	0	0	0
TOTAL COSTS	0	0	1,292	0	0	0	1,292	0

ONE-TIME SAVES -----($K)-----	2006	2007	2008	2009	2010	2011	Total
CONSTRUCTION							
MILCON	0	0	0	0	0	0	0
O&M							
1-Time Move	0	0	0	0	0	0	0
MIL PERSONNEL							
Mil Moving	0	0	7	0	0	0	7
OTHER							
Environmental	0	0	0	0	0	0	0
1-Time Other	0	0	0	0	0	0	0
TOTAL ONE-TIME	0	0	7	0	0	0	7

RECURRINGSAVES -----($K)-----	2006	2007	2008	2009	2010	2011	Total	Beyond
FAM HOUSE OPS	0	0	0	0	0	0	0	0
O&M								
Sustainment	0	0	0	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	532	1,064	1,064	1,064	3,724	1,064
MIL PERSONNEL								
Off Salary	0	0	62	125	125	125	437	125
Enl Salary	0	0	0	0	0	0	0	0
House Allow	0	0	23	23	23	23	91	23
OTHER								
Procurement	0	0	0	0	0	0	0	0
Mission Activ	0	0	0	0	0	0	0	0
Misc Recur	0	0	0	0	0	0	0	0
TOTAL RECUR	0	0	617	1,211	1,211	1,211	4,252	1,211
TOTAL SAVINGS	0	0	624	1,211	1,211	1,211	4,259	1,211

COBRA REALIGNMENT DETAIL REPORT (COBRA v6.10) - Page 9/9
Data As Of 8/5/2005 10:34:46 AM, Report Created 8/5/2005 10:34:49 AM

Department : Army
Scenario File : C:\Tasker 806 TECH-0009R\Tasker 806 TECH-0009R Langley to Aberdeen\Tasker 806 JSC45 Def Led Res Labs Langley to Aberdeen 08052005.CBR
Option Pkg Name: Defense Research Service Led Labs TECH-0009B V5.0
Std Fctrs File : X:\COBRA 6.10\BRAC2005.SFF

Base: Langley Res Ctr, VA

ONE-TIME NET -----($K)-----	2006	2007	2008	2009	2010	2011	Total
CONSTRUCTION							
MILCON	0	0	0	0	0	0	0
O&M							
Civ Retir/RIF	0	0	208	0	0	0	208
Civ Moving	0	0	941	0	0	0	941
Info Tech	0	0	6	0	0	0	6
Other	0	0	13	0	0	0	13
MIL PERSONNEL							
Mil Moving	0	0	10	0	0	0	10
OTHER							
HAP / RSE	0	0	105	0	0	0	105
Environmental	0	0	0	0	0	0	0
Misn Contract	0	0	0	0	0	0	0
1-Time Other	0	0	0	0	0	0	0
TOTAL ONE-TIME	0	0	1,284	0	0	0	1,284

RECURRING NET -----($K)-----	2006	2007	2008	2009	2010	2011	Total	Beyond
FAM HOUSE OPS	0	0	0	0	0	0	0	0
O&M								
Sustainment	0	0	0	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	-532	-1,064	-1,064	-1,064	-3,724	-1,064
TRICARE	0	0	0	0	0	0	0	0
MIL PERSONNEL								
Mil Salary	0	0	-62	-125	-125	-125	-437	-125
House Allow	0	0	-23	-23	-23	-23	-91	-23
OTHER								
Procurement	0	0	0	0	0	0	0	0
Mission Activ	0	0	0	0	0	0	0	0
Misc Recur	0	0	0	0	0	0	0	0
TOTAL RECUR	0	0	-617	-1,211	-1,211	-1,211	-4,252	-1,211
TOTAL NET COST	0	0	667	-1,211	-1,211	-1,211	-2,967	-1,211

TOTAL COBRA MILITARY CONSTRUCTION ASSETS REPORT (COBRA v6.10)
Data As Of 8/5/2005 10:34:46 AM, Report Created 8/5/2005 10:34:49 AM

Department : Army
Scenario File : C:\Tasker 806 TECH-0009R\Tasker 806 TECH-0009R Langley to Aberdeen\Tasker 806 JSC45 Def Led Res Labs Langley to Aberdeen 08052005.CBR
Option Pkg Name: Defense Research Service Led Labs TECH-0009B V5.0
Std Fctrs File : X:\COBRA 6.10\BRAC2005.SFF

All values in 2005 Constant Dollars

Base Name	Total MilCon*	Milcon Cost Avoidence	Total Net Costs
ABERDEEN	843,055	0	843,055
Langley Res Ctr	0	0	0
Totals:	843,055	0	843,055

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

COBRA MILITARY CONSTRUCTION ASSETS REPORT (COBRA v6.10) - Page 2
Data As Of 8/5/2005 10:34:46 AM, Report Created 8/5/2005 10:34:49 AM

Department : Army
Scenario File : C:\Tasker 806 TECH-0009R\Tasker 806 TECH-0009R Langley to Aberdeen\Tasker 806 JSC45 Def Led Res Labs Langley to Aberdeen 08052005.CBR
Option Pkg Name: Defense Research Service Led Labs TECH-0009B V5.0
Std Fctrs File : X:\COBRA 6.10\BRAC2005.SFF

MilCon for Base: ABERDEEN, MD (24004)

All values in 2005 Constant Dollars ($K)

FAC	Title	UM	New MilCon	New Cost*	Using Rehab	Rehab Type	Rehab Cost•	Total Cost*
8521	Vehicle Parking, Surfaced	SY	1,155	56	0	Default	0	56
6100	General Administrative Building	SF	5,280	786	0	Default	0	786

Total Construction Cost:	843
- Construction Cost Avoid:	0
Total Net Milcon Cost:	843

• 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 8/5/2005 10:34:46 AM, Report Created 8/5/2005 10:34:49 AM

Department : Army
Scenario File : C:\Tasker 806 TECH-0009R\Tasker 806 TECH-0009R Langley to Aberdeen\Tasker 806 JSC45 Def Led Res Labs Langley to Aberdeen 08052005.CBR
Option Pkg Name: Defense Research Service Led Labs TECH-0009B V5.0
Std Fctrs File : X:\COBRA 6.10\BRAC2005.SFF

Year	Cost($)	Adjusted Cost($)	NPV($)
2006	319,610	315,227	315,227
2007	763,398	732,422	1,047,650
2008	1,309,679	1,222,312	2,269,962
2009	-952,340	-864,602	1,405,359
2010	-917,984	-810,711	594,648
2011	-917,984	-788,629	-193,981
2012	-917,984	-767,149	-961,130
2013	-917,984	-746,254	-1,707,384
2014	-917,984	-725,928	-2,433,312
2015	-917,984	-706,156	-3,139,468
2016	-917,984	-686,922	-3,826,390
2017	-917,984	-668,212	-4,494,602
2018	-917,984	-650,012	-5,144,613
2019	-917,984	-632,307	-5,776,921
2020	-917,984	-615,085	-6,392,005
2021	-917,984	-598,331	-6,990,337
2022	-917,984	-582,034	-7,572,371
2023	-917,984	-566,181	-8,138,552
2024	-917,984	-550,760	-8,689,313
2025	-917,984	-535,759	-9,225,071

COBRA SUSTAINMENT/RECAP/BOS/HOUSING CHANGE REPORT (COBRA v6.10)
Data As Of 8/5/2005 10:34:46 AM, Report Created 8/5/2005 10:34:49 AM

Department : Army
Scenario File : C:\Tasker 806 TECH-0009R\Tasker 806 TECH-0009R Langley to Aberdeen\Tasker 806 JSC45 Def Led Res Labs Langley to Aberdeen 08052005.CBR
Option Pkg Name: Defense Research Service Led Labs TECH-0009B V5.0
Std Fctrs File : X:\COBRA 6.10\BRAC2005.SFF

Net Change($K)	2006	2007	2008	2009	2010	2011	Total	Beyond
Sustain Change	0	5	5	5	5	5	28	5
Recap Change	0	7	7	7	7	7	37	7
BOS Change	0	0	141	145	145	145	576	145
Housing Change	0	0	0	0	0	0	0	0
TOTAL CHANGES	0	13	154	158	158	158	642	158

ABERDEEN, MD (24004)

Net Change($K)	2006	2007	2008	2009	2010	2011	Total	Beyond
Sustain Change	0	5	5	5	5	5	28	5
Recap Change	0	7	7	7	7	7	37	7
BOS Change	0	0	141	145	145	145	576	145
Housing Change	0	0	0	0	0	0	0	0
TOTAL CHANGES	0	13	154	158	158	158	642	158

Langley Res Ctr, VA

Net Change($K)	2006	2007	2008	2009	2010	2011	Total	Beyond
Sustain Change	0	0	0	0	0	0	0	0
Recap Change	0	0	0	0	0	0	0	0
BOS Change	0	0	0	0	0	0	0	0
Housing Change	0	0	0	0	0	0	0	0
TOTAL CHANGES	0	0	0	0	0	0	0	0

TOTAL COBRA PERSONNEL IMPACT REPORT (COBRA v6.10) - Page 1/3
Data As Of 8/5/2005 10:34:46 AM, Report Created 8/5/2005 10:34:49 AM

Department : Army
Scenario File : C:\Tasker 806 TECH-0009R\Tasker 806 TECH-0009R Langley to Aberdeen\Tasker 806 JSC45 Def Led Res Labs Langley to Aberdeen 08052005.CBR
Option Pkg Name: Defense Research Service Led Labs TECH-0009B V5.0
Std Fctrs File : X:\COBRA 6.10\BRAC2005.SFF

	Rate	2006	2007	2008	2009	2010	2011	Total
CIVILIAN POSITIONS REALIGNING OUT		0	0	30	0	0	0	30
Early Retirement*	8.10%	0	0	2	0	0	0	2
Regular Retirement*	1.67%	0	0	1	0	0	0	1
Civilian Turnover*	9.16%	0	0	3	0	0	0	3
Civs Not Moving (RIFs)*	6.00%	0	0	2	0	0	0	2
Civilians Moving (the remainder)		0	0	22	0	0	0	22
Civilian Positions Available		0	0	8	0	0	0	8
CIVILIAN POSITIONS ELIMINATED		0	0	16	0	0	0	16
Early Retirement	8.10%	0	0	1	0	0	0	1
Regular Retirement	1.67%	0	0	0	0	0	0	0
Civilian Turnover	9.16%	0	0	1	0	0	0	1
Civs Not Moving (RIFs)*	6.00%	0	0	1	0	0	0	1
Priority Placement#	39.97%	0	0	6	0	0	0	6
Civilians Available to Move		0	0	7	0	0	0	7
Civilians Moving		0	0	7	0	0	0	7
Civilian RIFs (the remainder)		0	0	0	0	0	0	0
CIVILIAN POSITIONS REALIGNING IN		0	0	30	0	0	0	30
Civilians Moving		0	0	29	0	0	0	29
New Civilians Hired		0	0	1	0	0	0	1
Other Civilian Additions		0	0	0	1	0	0	1
TOTAL CIVILIAN EARLY RETIREMENTS		0	0	3	0	0	0	3
TOTAL CIVILIAN RIFS		0	0	3	0	0	0	3
TOTAL CIVILIAN PRIORITY PLACEMENTS#		0	0	6	0	0	0	6
TOTAL CIVILIAN NEW HIRES		0	0	1	1	0	0	2

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

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

COBRA PERSONNEL IMPACT REPORT (COBRA v6.10) - Page 2/3
Data As Of 8/5/2005 10:34:46 AM, Report Created 8/5/2005 10:34:49 AM

Department : Army
Scenario File : C:\Tasker 806 TECH-0009R\Tasker 806 TECH-0009R Langley to Aberdeen\Tasker 806 JSC45 Def Led Res Labs Langley to Aberdeen 08052005.CBR
Option Pkg Name: Defense Research Service Led Labs TECH-0009B V5.0
Std Fctrs File : X:\COBRA 6.10\BRAC2005.SFF

Base: ABERDEEN, MD (24004)	Rate	2006	2007	2008	2009	2010	2011	Total
CIVILIAN POSITIONS REALIGNING OUT		0	0	0	0	0	0	0
Early Retirement*	8.10%	0	0	0	0	0	0	0
Regular Retirement*	1.67%	0	0	0	0	0	0	0
Civilian Turnover*	9.16%	0	0	0	0	0	0	0
Civs Not Moving (RIFs)*	6.00%	0	0	0	0	0	0	0
Civilians Moving (the remainder)		0	0	0	0	0	0	0
Civilian Positions Available		0	0	0	0	0	0	0
CIVILIAN POSITIONS ELIMINATED		0	0	0	0	0	0	0
Early Retirement	8.10%	0	0	0	0	0	0	0
Regular Retirement	1.67%	0	0	0	0	0	0	0
Civilian Turnover	9.16%	0	0	0	0	0	0	0
Civs Not Moving (RIFs)*	6.00%	0	0	0	0	0	0	0
Priority Placement#	39.97%	0	0	0	0	0	0	0
Civilians Available to Move		0	0	0	0	0	0	0
Civilians Moving		0	0	0	0	0	0	0
Civilian RIFs (the remainder)		0	0	0	0	0	0	0
CIVILIAN POSITIONS REALIGNING IN		0	0	30	0	0	0	30
Civilians Moving		0	0	29	0	0	0	29
New Civilians Hired		0	0	1	0	0	0	1
Other Civilian Additions		0	0	0	1	0	0	1
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	1	1	0	0	2

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

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

COBRA PERSONNEL IMPACT REPORT (COBRA v6.10) - Page 3/3
Data As Of 8/5/2005 10:34:46 AM, Report Created 8/5/2005 10:34:49 AM

Department : Army
Scenario File : C:\Tasker 806 TECH-0009R\Tasker 806 TECH-0009R Langley to Aberdeen\Tasker 806 JSC45 Def Led Res Labs Langley to Aberdeen 08052005.CBR
Option Pkg Name: Defense Research Service Led Labs TECH-0009B V5.0
Std Fctrs File : X:\COBRA 6.10\BRAC2005.SFF

Base: Langley Res Ctr, VA	Rate	2006	2007	2008	2009	2010	2011	Total
CIVILIAN POSITIONS REALIGNING OUT		0	0	30	0	0	0	30
Early Retirement*	8.10%	0	0	2	0	0	0	2
Regular Retirement*	1.67%	0	0	1	0	0	0	1
Civilian Turnover*	9.16%	0	0	3	0	0	0	3
Civs Not Moving (RIFs)*	6.00%	0	0	2	0	0	0	2
Civilians Moving (the remainder)		0	0	22	0	0	0	22
Civilian Positions Available		0	0	8	0	0	0	8
CIVILIAN POSITIONS ELIMINATED		0	0	16	0	0	0	16
Early Retirement	8.10%	0	0	1	0	0	0	1
Regular Retirement	1.67%	0	0	0	0	0	0	0
Civilian Turnover	9.16%	0	0	1	0	0	0	1
Civs Not Moving (RIFs)*	6.00%	0	0	1	0	0	0	1
Priority Placement#	39.97%	0	0	6	0	0	0	6
Civilians Available to Move		0	0	7	0	0	0	7
Civilians Moving		0	0	7	0	0	0	7
Civilian RIFs (the remainder)		0	0	0	0	0	0	0
CIVILIAN POSITIONS REALIGNING IN		0	0	0	0	0	0	0
Civilians Moving		0	0	0	0	0	0	0
New Civilians Hired		0	0	0	0	0	0	0
Other Civilian Additions		0	0	0	0	0	0	0
TOTAL CIVILIAN EARLY RETIRMENTS		0	0	3	0	0	0	3
TOTAL CIVILIAN RIFS		0	0	3	0	0	0	3
TOTAL CIVILIAN PRIORITY PLACEMENTS#		0	0	6	0	0	0	6
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 8/5/2005 10:34:46 AM, Report Created 8/5/2005 10:34:49 AM

Department : Army
Scenario File : C:\Tasker 806 TECH-0009R\Tasker 806 TECH-0009R Langley to Aberdeen\Tasker 806 JSC45 Def Led Res Labs Langley to Aberdeen 08052005.CBR
Option Pkg Name: Defense Research Service Led Labs TECH-0009B V5.0
Std Fctrs File : X:\COBRA 6.10\BRAC2005.SFF

Base: ABERDEEN, MD (24004)

Year	Pers Moved In/Added Total	Percent	MilCon TimePhase	Pers Moved Out/Eliminated Total	Percent	ShutDn TimePhase
2006	0	0.00%	0.00%	0	0.00%	16.67%
2007	0	0.00%	97.06%	0	0.00%	16.67%
2008	33	97.06%	2.94%	0	0.00%	16.67%
2009	1	2.94%	0.00%	0	0.00%	16.67%
2010	0	0.00%	0.00%	0	0.00%	16.67%
2011	0	0.00%	0.00%	0	0.00%	16.67%
TOTALS	34	100.00%	100.00%	0	0.00%	100.00%

Base: Langley Res Ctr, VA

Year	Pers Moved In/Added Total	Percent	MilCon TimePhase	Pers Moved Out/Eliminated Total	Percent	ShutDn TimePhase
2006	0	0.00%	66.67%	0	0.00%	0.00%
2007	0	0.00%	33.33%	0	0.00%	0.00%
2008	0	0.00%	0.00%	50	100.00%	100.00%
2009	0	0.00%	0.00%	0	0.00%	0.00%
2010	0	0.00%	0.00%	0	0.00%	0.00%
2011	0	0.00%	0.00%	0	0.00%	0.00%
TOTALS	0	0.00%	100.00%	50	100.00%	100.00%

DCN:11677
Executive Correspondence
DCN 7410

DEFENSE BASE CLOSURE AND REALIGNMENT COMMISSION
2521 South Clark Street, Suite 600
Arlington, VA 22202
Telephone: 703-699-2950

August 15, 2005

The Honorable John W. Warner
225 Russell Building
Washington, D.C. 20510

Dear Senator Warner:

Thank you for your letter of August 12, 2005 concerning the Commission's August 20, 2005 hearing. I appreciate your concern for a fair and transparent Commission evaluation of the Secretary of Defense's proposals for closing or realigning military installations. As you know, the Commission is mandated to consider whether the Secretary substantially deviated from statutory BRAC selection criteria and the force structure plan in failing to recommend closure or realignment of an installation. On July 19, 2005 the Commission voted, in accordance with the process established by law, to consider whether the Secretary substantially deviated from the statutory criteria and force structure plan in failing to recommend closure of NAS Oceana.

The Congress wisely provided for the independence of the Commission in its deliberative and decision making process. We are directed and pledged to deliberate and decide issues free from improper influence. However, we are also committed to an open process and, to the maximum extent possible, to accommodate communities, and their representatives, seeking to provide the Commission with information relevant to our deliberations and decisions. We believe we have achieved that goal.

That is why the Commission agreed to the Virginia delegation's request to accompany the Commission's site visit at NAS Oceana. That is why the Commission agreed to the Virginia delegation's request for a separate hearing in Virginia to take testimony on issues relating to recommendations affecting the National Capitol Region. That is why we accommodated the Virginia delegation's request for a May 27, 2005 meeting with area commanders to hear the delegation's concerns regarding proposals for realigning installations housed in DoD leased office space. Other than site visits, that meeting was the only Commission meeting

Chairman: Anthony J. Principi
Commissioners: The Honorable James H. Bilbray, The Honorable Philip E. Coyle III, Admiral Harold W. Gehman Jr., USN (Ret),The Honorable Jim Hansen, General James T. Hill, USA (Ret), General Lloyd Newton, USAF (Ret), The Honorable Samuel K. Skinner, Brigadier General Sue Ellen Turner, USAF (Ret)
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in which uniformed personnel explained their views in the presence of the Congressional delegation. I also met with Governor Mark Warner to discuss NAS Oceana.

We believe we have also been responsive to your personal wishes, making an unprecedented request to seek testimony from the Chief of Naval Operations at our hearing on NAS Oceana and agreeing that the August 10, 2005 site visit to Florida would be conducted only by staff members.

However, we are also mindful of our responsibility to base our deliberations, to the greatest extent possible, on certified data and sworn testimony. The August 20 hearing will provide a venue for sworn testimony on issues properly on the Commission's agenda. The Commission's deliberations and decisions will be based on military value and other selection criteria. No other factors will be considered.

I believe you share my view that there is no higher military value than the safety and proficiency of America's uniformed young men and women, in this case the naval aviators our nation sends in harms' way in the defense of our nation. The Commission's goal is to ensure our Navy provides Atlantic Fleet naval aviators with a location and conditions for training, whether at NAS Oceana or at another location, like those they will have when they fly and fight while deployed. These issues are addressed in the second military value BRAC selection criterion. Testimony in prior Commission hearings confirms the existence of serious issues compromising the military value of training and operations at NAS Oceana. These issues have been widely reported in local news media such as the enclosed articles from the Hampton Roads Virginian-Pilot.

The Commission must explore every possible option to ensure the best possible opportunities and environment for naval aviation operations and training. Our August 20 hearing will contribute to that process.

You have expressed particular concern that the Commission is acting contrary to section 2903 (d) (e) of the BRAC statute. I respectfully submit that the Commission is in full compliance with the law. Further, the Commission would be

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Executive Director: Charles Battaglia

DCN 11677
Executive Correspondence
DCN 7410

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2521 South Clark Street, Suite 600
Arlington, VA 22202
Telephone: 703-699-2950

remiss in performance of its statutory duties if it did not thoroughly investigate what was formerly NAS Cecil Field as a potential east coast receiving location in the event that NAS Oceana is closed or realigned.

Thank you for your continuing commitment to the men and women who defend our nation and for your interest in the issues before the Commission.

Sincerely,

Anthony J. Principi
Chairman

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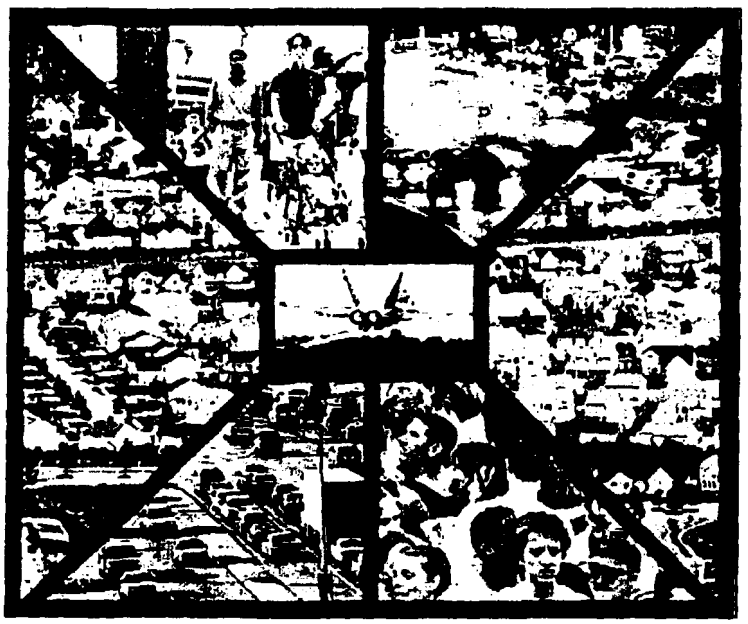
Executive Director: Charles Battaglia

Hampton Roads Pilot Online

Navy has been tuned out, crowded out at Oceana

By JON W. GLASS, The Virginian-Pilot
© September 12, 2004
Last updated: 8:01 PM



file photos

VIRGINIA BEACH — In this Navy town, where many embrace the roar of fighter jets as the "sound of freedom," city leaders never miss a chance to tout their partnership with the military.

Even so, they repeatedly have turned a deaf ear when asked to rein in development that the Navy has said threatens the mission and future of Oceana Naval Air Station.

From 1975 to mid-2004, the City Council ignored Navy objections in nearly three out of every four votes, based on a review of Navy letters and city records.

Of 70 development proposals examined, the council approved 51 over Navy opposition while denying 19. More than half of the votes came during the go-go 1980s as careening growth turned the Beach into Virginia's most populous city.

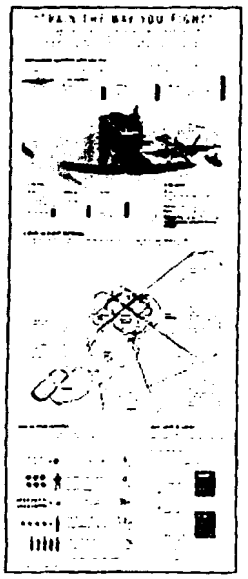
The pattern is revealed in a stack of letters written by more than a dozen captains who commanded Oceana. The letters, released earlier this year by the Navy, show that the officers fought a mostly losing battle to keep growth at bay.

OCEANA UNDER PRESSURE
More in this special report:

Part 2: Training is touch-and-go around Oceana

Maps and Graphics
(Note: These are large PDF files that may take a while to load)

Development encroachment around Oceana (6 megs)


Training and flight patterns at Oceana (2 megs)

But they also show that the Navy is not blameless. Some Oceana skippers lobbied City Hall more aggressively than others. The Navy also offered little or no resistance to housing developments in low- and medium-jet-noise zones around Oceana until last year – a stance the military now regrets.

The letters offer a historic window on a long-running, high-stakes debate that involves national defense, property rights and money.

Typical is a 1981 letter urging against a developer's plan to increase the housing density on 23 acres for the resort area's Salt Marsh Point neighborhood. "I must very strongly recommend the requested zoning change be denied and, further, urge the City not to permit dense residential development to take place in this area," Oceana's commander wrote. The City Council approved the rezoning.

As the dust settles on 30 years of sprawling growth, the letters underscore why Oceana, the city's top employer, is also No. 1 on the Defense Department's tally of most-encroached-upon air bases.

That's a red flag for the Navy as it braces for another round of base closings from the Defense Base Closure and Realignment Act, or BRAC.

It also has given Beach leaders pause. This summer, the city and the Navy agreed to a truce of sorts, launching a joint land-use study on how the city can continue to grow and redevelop without threatening the base's military value – key to Oceana's survival.

Encroachment around Oceana became an issue at a 1993 BRAC hearing and gave city leaders a scare. But pressure to develop has continued.

If Oceana is put on the BRAC hit list in 2005, the city may have itself to blame, said Councilwoman Reba S. McClanan.

"I think the wolf is at the door," she said.

The letters make clear why the Navy's East Coast master jet base is so hemmed in today. The problem crept up one rezoning at a time, each approval making it harder to say no to the next.

Nearly a third of the city's 439,467 residents now live in jet-noise zones that the Navy considers incompatible for housing developments. Many are in homes where roaring Navy jets drown out TVs and disrupt backyard barbecues.

Over the years, development moved down Lynnhaven and London Bridge roads to the west and southwest of Oceana, spurred, in part, by the city's approval of Lynnhaven Mall in 1976, over vehement Navy protests.

To the east and northeast, a series of rezonings turned sections of the Oceanfront resort into dense rows of condos and apartment complexes. The same thing happened to the north and northwest in Great Neck.

Rezonings have consumed most of the farm fields and woods that surrounded Oceana when it opened in 1940.

The Virginian-Pilot requested the letters under the federal Freedom of Information Act. Here's a sampling from the Navy's file:

- In 1976, the City Council approved Lynnhaven Mall, one of the largest malls in Virginia. It lies in Oceana's

loudest noise zone and partly in an area where the risk of jet crashes is highest.

The base's commander at the time, Capt. W.D. Knutson, opposed the project, writing that the city and the Navy had a "moral commitment" to avoid putting people in harm's way.

Today, jets bank into hard 180-degree turns around the mall as they head for downwind landings at Oceana. Shoppers in the parking lot can wave to the pilots.

"The odds are that there's going to be a plane crash in the center of that mall," Knutson, retired in California, said recently. "I hope to God it doesn't."

- In 1978, the council rezoned 70 acres of industrial land for 160 homes in Oceana's loudest noise zone along London Bridge Road. The Navy wrote that complaints from the "adverse effects of noise would be repeated and vigorous" and sent a delegation to City Hall to oppose it.

"Everybody seemed to think the Navy was just being obstinate," said Floyd E. Taylor, a retired civilian personnel officer who testified for the Navy.

- In 1985, the council rezoned 30 acres that once sprouted strawberries on South Lynnhaven Road for a condo community. A Navy letter called it "highly incompatible" and "most undesirable." A coalition of civic leagues, armed with 1,000 signatures, opposed it, too.

- In 1989, the council agreed to increase the density on 13 acres for the 96-unit apartment complex Herons Point, off Fremac Drive, between Laskin Road and Interstate 264 in the highest noise and accident-potential zones.

"If incompatible development is allowed to continue, the operating capability of this Master Jet Base will be compromised, affecting our ability to perform mission requirements in support of our national policy," Oceana's commander wrote.

- In 2000, the council rezoned farm land along Indian River Road for Dewberry Farms, a single-family neighborhood of about 50 homes in a medium jet-noise zone.

"The Environmental Protection Agency, Department of Housing and Urban Development and the Department of Defense consider this noise zone normally unacceptable for residential uses," the Navy argued.

- Last year, the council approved a developer's plan to demolish an aging motel off Laskin Road and replace it with a 10-building, 90-unit luxury condo complex in an accident-potential zone off Oceana's most heavily used runway.

Council members applauded the redevelopment of a problem property near an Oceanfront gateway. The Navy urged redeveloping the site in ways that would not conflict with the base.

In the 1970s and '80s, J. Henry McCoy, a former mayor and council member, cast votes for much of the development that drapes Oceana like a horseshoe.

"To Monday morning quarterback," McCoy said recently, "I'd say some of those things should never have been approved." Jerry Riendeau, a retired rear admiral and Beach resident, recalls Oceana in 1955, when "I felt like I was flying out of a jungle." But "slow, insidious" growth has changed that, raising doubts that the upcoming land-use study, known as JLUS, can solve the base's encroachment problem.

"I would suggest that JLUS is about 35 years too late," Riendeau told Beach leaders last month.

Since its founding in 1963, Virginia Beach has been a city on the move. Beach leaders have seemed to want it all – the taxes and prestige that growth produced and the economic benefits generated by Oceana, essentially a Fortune 500 heavyweight with its $759 million payroll and 12,300 military and civilian employees.

DCN:11677

COBRA REALIGNMENT SUMMARY REPORT (COBRA v6.10) - Page 1/2
Data As Of 8/5/2005 10:33:23 AM, Report Created 8/5/2005 10:33:25 AM

Department : Army
Scenario File : C:\Tasker 806 TECH-0009R\Tasker 806 TECH-0009R Glenn to Aberdeen\Tasker 806 JSC45 Def Led Res Labs Glenn to Aberdeen 08052005.CBR
Option Pkg Name: Defense Research Service Led Labs TECH-0009B V5.0
Std Fctrs File : X:\COBRA 6.10\BRAC2005.SFF

Starting Year : 2006
Final Year : 2008
Payback Year : 2011 (3 Years)

NPV in 2025($K): -11,429
1-Time Cost($K): 2,732

Net Costs in 2005 Constant Dollars ($K)

	2006	2007	2008	2009	2010	2011	Total	Beyond
MilCon	63	680	23	0	0	0	766	0
Person	0	0	-390	-1,263	-1,228	-1,228	-4,110	-1,228
Overhd	0	11	140	144	144	144	584	144
Moving	0	0	1,071	0	0	0	1,071	0
Missio	0	0	0	0	0	0	0	0
Other	250	0	408	0	0	0	658	0
TOTAL	313	692	1,252	-1,118	-1,084	-1,084	-1,029	-1,084

	2006	2007	2008	2009	2010	2011	Total
POSITIONS ELIMINATED							
Off	0	0	0	0	0	0	0
Enl	0	0	0	0	0	0	0
Civ	0	0	20	0	0	0	20
TOT	0	0	20	0	0	0	20
POSITIONS REALIGNED							
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	30	0	0	0	30
TOT	0	0	30	0	0	0	30

Summary:

To provide quick turnaround, we used proportional estimates for some costs and facility requirements. The proportional estimates were necessary because the certified data did not contain the level of detail needed. Therefore, there probably some minor cost differences from what the results would be using new certified data.

TECH-0009

Description:

This scenario realigns and co-locates the three service corporate laboratories to provide greater synergy across DTAP technical capabilities and functions. Additionally it creates a virtual "Defense Research Laboratory" by establishing a board of directors including Director of Defense Research and Engineering (DDRE), Technical Director of the Naval Research Laboratory (TD-NRL), Commanding Officer of Air Force Research Laboratory (CC-AFRL), Technical Director Army Research Laboratory (TD-ARL) and the Service S&T executives. The Board of Directors will advise and steer Research Labs to reduce duplicative efforts & foster joint centers of excellence. The purpose of this scenario is to consolidate to a smaller number of Service-centric geographic locations in order to increase the multidisciplinary collection of R&D expertise across DTAP capability areas at those locations.

Actions

* Realign all ARL/WSMR activity, including Battlespace Environment research, with the exception of the minimum detachment required to maintain T&E operations at WSMR by moving the people & their positions (government only) and the Special Equipment & Facilities from WSMR and consolidate at Aberdeen Proving Ground.

* Realign all ARL activity at NASA sites by moving the people and their positions (government only) and the special equipment & facilities from ARL/Langley Research Center (W26201), Langley VA and ARL/Glenn Research Center (W26206), Glenn, OH and consolidate at Aberdeen Proving Ground.

Source Files

1. TECH-0009 v 5.0.xls
No SDDs issued

TJCSG Assumptions.
None Applied.
Notes:

From Source File 1:
Notes:

ARL/Glenn Research Center (W26206) and ARL/Langley (W26201) are located at NASA Lewis Research Center and NASA Langley Research Center which are not in the COBRA database. The following approaches are required to provide data for Screen 2 and Screen 4:

1. Screen 2: The distances for these two sites were computed from the Defense Table of Distance (DTOD).
a. For Glenn Research Center, NASA Lewis Research Center to APG: 414.8 miles
b. For ARL/Langley, NASA Langley Research Center to APG: 255.1 miles
These data was entered by hand. Do not CLICK the "DATABASE Button" to override the data.

2. Screen 4: Population for authorized spaces: use 2003 the Army Stationing and Installation Plan (ASIP) database. Other info such as Lat/Long were approximated with data associated with Wright Patterson AFB and Langley AFB.

COBRA REALIGNMENT SUMMARY REPORT (COBRA v6.10) - Page 2/2
Data As Of 8/5/2005 10:33:23 AM, Report Created 8/5/2005 10:33:25 AM

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Option Pkg Name: Defense Research Service Led Labs TECH-0009B V5.0
Std Fctrs File : X:\COBRA 6.10\BRAC2005.SFF

Costs in 2005 Constant Dollars ($K)

	2006	2007	2008	2009	2010	2011	Total	Beyond
MilCon	63	680	23	0	0	0	766	0
Person	0	0	282	80	115	115	592	115
Overhd	0	11	140	144	144	144	584	144
Moving	0	0	1,071	0	0	0	1,071	0
Missio	0	0	0	0	0	0	0	0
Other	250	0	408	0	0	0	658	0
TOTAL	313	692	1,924	225	259	259	3,673	259

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	672	1,343	1,343	1,343	4,702	1,343
Overhd	0	0	0	0	0	0	0	0
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	0	0	672	1,343	1,343	1,343	4,702	1,343

TOTAL COBRA ONE-TIME COST REPORT (COBRA v6.10) - Page 1/3
Data As Of 8/5/2005 10:33:23 AM, Report Created 8/5/2005 10:33:25 AM

Department : Army
Scenario File : C:\Tasker 806 TECH-0009R\Tasker 806 TECH-0009R Glenn to Aberdeen\Tasker 806 JSC45 Def Led Res Labs Glenn to Aberdeen 08052005.CBR
Option Pkg Name: Defense Research Service Led Labs TECH-0009B V5.0
Std Fctrs File : X:\COBRA 6.10\BRAC2005.SFF

(All values in 2005 Constant Dollars)

Category	Cost	Sub-Total
Construction		
Military Construction	766,414	
Total - Construction		766,414
Personnel		
Civilian RIF	173,949	
Civilian Early Retirement	48,445	
Eliminated Military PCS	0	
Unemployment	13,353	
Total - Personnel		235,747
Overhead		
Program Management Cost	0	
Support Contract Termination	0	
Mothball / Shutdown	0	
Total - Overhead		0
Moving		
Civilian Moving	844,361	
Civilian PPP	141,984	
Military Moving	0	
Freight	14,057	
Information Technologies	70,700	
One-Time Moving Costs	0	
Total - Moving		1,071,102
Other		
HAP / RSE	110,479	
Environmental Mitigation Costs	250,000	
Mission Contract Startup and Termination	0	
One-Time Unique Costs	298,000	
Total - Other		658,479
Total One-Time Costs		2,731,742
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		2,731,742

COBRA ONE-TIME COST REPORT (COBRA v6.10) - Page 2/3
Data As Of 8/5/2005 10:33:23 AM, Report Created 8/5/2005 10:33:25 AM

Department : Army
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Option Pkg Name: Defense Research Service Led Labs TECH-0009B V5.0
Std Fctrs File : X:\COBRA 6.10\BRAC2005.SFF

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

Category	Cost	Sub-Total
Construction		
Military Construction	766,414	
Total - Construction		766,414
Personnel		
Civilian RIF	0	
Civilian Early Retirement	0	
Eliminated Military PCS	0	
Unemployment	0	
Total - Personnel		0
Overhead		
Program Management Cost	0	
Support Contract Termination	0	
Mothball / Shutdown	0	
Total - Overhead		0
Moving		
Civilian Moving	0	
Civilian PPP	0	
Military Moving	0	
Freight	0	
Information Technologies	64,900	
One-Time Moving Costs	0	
Total - Moving		64,900
Other		
HAP / RSE	0	
Environmental Mitigation Costs	250,000	
Mission Contract Startup and Termination	0	
One-Time Unique Costs	298,000	
Total - Other		548,000
Total One-Time Costs		1,379,314
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		1,379,314

COBRA ONE-TIME COST REPORT (COBRA v6.10) - Page 3/3
Data As Of 8/5/2005 10:33:23 AM, Report Created 8/5/2005 10:33:25 AM

Department : Army
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Option Pkg Name: Defense Research Service Led Labs TECH-0009B V5.0
Std Fctrs File : X:\COBRA 6.10\BRAC2005.SFF

Base: Glenn Res Ctr, OH
(All values in 2005 Constant Dollars)

Category	Cost	Sub-Total
Construction		
Military Construction	0	
Total - Construction		0
Personnel		
Civilian RIF	173,949	
Civilian Early Retirement	48,445	
Eliminated Military PCS	0	
Unemployment	13,353	
Total - Personnel		235,747
Overhead		
Program Management Cost	0	
Support Contract Termination	0	
Mothball / Shutdown	0	
Total - Overhead		0
Moving		
Civilian Moving	844,361	
Civilian PPP	141,984	
Military Moving	0	
Freight	14,057	
Information Technologies	5,800	
One-Time Moving Costs	0	
Total - Moving		1,006,202
Other		
HAP / RSE	110,479	
Environmental Mitigation Costs	0	
Mission Contract Startup and Termination	0	
One-Time Unique Costs	0	
Total - Other		110,479
Total One-Time Costs		1,352,428
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		1,352,428

COBRA TOTAL PERSONNEL SUMMARY REPORT (COBRA v6.10)
Data As Of 8/5/2005 10:33:23 AM, Report Created 8/5/2005 10:33:25 AM

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Std Fctrs File : X:\COBRA 6.10\BRAC2005.SFF

TOTAL SCENARIO POPULATION (FY 2005):

Officers	Enlisted	Students	Civilians
416	1,588	2,831	6,904

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	-31	18	0	0	0	0	-13
Civilians	1,174	-2	21	0	0	0	1,193
TOTAL	1,143	16	21	0	0	0	1,180

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

Officers	Enlisted	Students	Civilians
416	1,588	2,818	8,097

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	30	0	0	0	30
TOTAL	0	0	30	0	0	0	30

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	-20	1	0	0	-19
TOTAL	0	0	-20	1	0	0	-19

TOTAL SCENARIO POPULATION (After BRAC Action):

Officers	Enlisted	Students	Civilians
416	1,588	2,818	8,078

COBRA PERSONNEL SUMMARY REPORT (COBRA v6.10) - Page 2
Data As Of 8/5/2005 10:33:23 AM, Report Created 8/5/2005 10:33:25 AM

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Std Fctrs File : X:\COBRA 6.10\BRAC2005.SFF

PERSONNEL SUMMARY FOR: ABERDEEN, MD (24004)

BASE POPULATION (FY 2005):

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

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

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

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

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

PERSONNEL REALIGNMENTS:
From Base: Glenn Res Ctr, OH

	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	30	0	0	0	30
TOTAL	0	0	30	0	0	0	30

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

	2006	2007	2008	2009	2010	2011	Total
Officers	0	0	0	0	0	0	0
Enlisted	0	0	0	0	0	0	0
Students	0	0	0	0	0	0	0
Civilians	0	0	30	0	0	0	30
TOTAL	0	0	30	0	0	0	30

SCENARIO POSITION CHANGES FOR: ABERDEEN, MD (24004)

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

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

Officers	Enlisted	Students	Civilians
416	1,588	2,818	8,078

PERSONNEL SUMMARY FOR: Glenn Res Ctr, OH

BASE POPULATION (FY 2005, Prior to BRAC Action) FOR: Glenn Res Ctr, OH

Officers	Enlisted	Students	Civilians
0	0	0	50

COBRA PERSONNEL SUMMARY REPORT (COBRA v6.10) - Page 3
Data As Of 8/5/2005 10:33:23 AM, Report Created 8/5/2005 10:33:25 AM

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Option Pkg Name: Defense Research Service Led Labs TECH-0009B V5.0
Std Fctrs File : X:\COBRA 6.10\BRAC2005.SFF

PERSONNEL REALIGNMENTS:
To Base: ABERDEEN, MD (24004)

	2006	2007	2008	2009	2010	2011	Total
Officers	0	0	0	0	0	0	0
Enlisted	0	0	0	0	0	0	0
Students	0	0	0	0	0	0	0
Civilians	0	0	30	0	0	0	30
TOTAL	0	0	30	0	0	0	30

TOTAL PERSONNEL REALIGNMENTS (Out of Glenn Res Ctr, OH):

	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	30	0	0	0	30
TOTAL	0	0	30	0	0	0	30

SCENARIO POSITION CHANGES FOR: Glenn Res Ctr, OH

	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	-20	0	0	0	-20
TOTAL	0	0	-20	0	0	0	-20

BASE POPULATION (After BRAC Action) FOR: Glenn Res Ctr, OH

Officers	Enlisted	Students	Civilians
0	0	0	0

COBRA ECONOMIC IMPACT REPORT (COBRA v6.10)
Data As Of 8/5/2005 10:33:23 AM, Report Created 8/5/2005 10:33:25 AM

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Std Fctrs File : X:\COBRA 6.10\BRAC2005.SFF

ABERDEEN, MD (24004)

	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	30	1	0	0	31
Jobs Lost-Civ	0	0	0	0	0	0	0
NET CHANGE-Civ	0	0	30	1	0	0	31
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

Glenn Res Ctr, OH

	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	50	0	0	0	50
NET CHANGE-Civ	0	0	-50	0	0	0	-50
Jobs Gained-Stu	0	0	0	0	0	0	0
Jobs Lost-Stu	0	0	0	0	0	0	0
NET CHANGE-Stu	0	0	0	0	0	0	0

COBRA INPUT DATA REPORT (COBRA v6.10)
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INPUT SCREEN ONE - GENERAL SCENARIO INFORMATION

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

Base Name, ST (Code)	Strategy:
ABERDEEN, MD (24004)	Realignment
Glenn Res Ctr, OH	Realignment

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

Point A:	Point B:	Distance:
ABERDEEN, MD (24004)	Glenn Res Ctr, OH	415 mi

INPUT SCREEN THREE - MOVEMENT TABLE

Transfers from Glenn Res Ctr, OH to ABERDEEN, MD (24004)

	2006	2007	2008	2009	2010	2011
Officer Positions:	0	0	0	0	0	0
Enlisted Positions:	0	0	0	0	0	0
Civilian Positions:	0	0	30	0	0	0
Student Positions:	0	0	0	0	0	0
NonVeh Missn Eqpt(tons):	0	0	0	0	0	0
Suppt Eqpt (tons):	0	0	0	0	0	0
Mil Light Vehic (tons):	0	0	0	0	0	0
Heavy/Spec Vehic (tons):	0	0	0	0	0	0

INPUT SCREEN FOUR - STATIC BASE INFORMATION

Name: ABERDEEN, MD (24004)

Total Officer Employees:	416	Base Service (for BOS/Sust):	Army
Total Enlisted Employees:	1,588	Total Sustainment($K/Year):	33,839
Total Student Employees:	2,831	Sustain Payroll ($K/Year):	16,887
Total Civilian Employees:	6,854	BOS Non-Payroll ($K/Year):	94,054
Accomp Mil not Receiving BAH:	52.3%	BOS Payroll ($K/Year):	110,565
Officer Housing Units Avail:	54	Family Housing ($K/Year):	2,635
Enlisted Housing Units Avail:	234	Installation PRV($K):	2,845,026
Starting Facilities(KSF):	14,280	Svc/Agcy Recap Rate (Years):	103
Officer BAH ($/Month):	1,264	Homeowner Assistance Program:	No
Enlisted BAH ($/Month):	884		
Civ Locality Pay Factor:	1.146		
Area Cost Factor:	0.88		
Per Diem Rate ($/Day):	127		
Freight Cost ($/Ton/Mile):	0.33		
Vehicle Cost ($/Lift/Mile):	4.84		
Latitude:	39.491667		
Longitude:	-76.136112		

TRICARE	In-Pat Admits	Out-Pat Visits	Prescrip
CostFactor	7,573.00	145.00	22.67
Actv MTF	0	60,704	52,876
Actv Purch	318	7,561	
Retiree	0	12,723	30,748
Retiree65+	0	2,992	27,218

COBRA INPUT DATA REPORT (COBRA v6.10) - Page 2
Data As Of 8/5/2005 10:33:23 AM, Report Created 8/5/2005 10:33:25 AM

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INPUT SCREEN FOUR - STATIC BASE INFORMATION

Name: Glenn Res Ctr, OH

Total Officer Employees:	0	Base Service (for BOS/Sust):	Air Force
Total Enlisted Employees:	0	Total Sustainment($K/Year):	0
Total Student Employees:	0	Sustain Payroll ($K/Year):	0
Total Civilian Employees:	50	BOS Non-Payroll ($K/Year):	0
Accomp Mil not Receiving BAH:	10.8%	BOS Payroll ($K/Year):	0
Officer Housing Units Avail:	0	Family Housing ($K/Year):	0
Enlisted Housing Units Avail:	0	Installation PRV($K):	0
Starting Facilities(KSF):	0	Svc/Agcy Recap Rate (Years):	0
Officer BAH ($/Month):	1,081	Homeowner Assistance Program:	Yes
Enlisted BAH ($/Month):	704		
Civ Locality Pay Factor:	1.121	TRICARE	In-Pat Out-Pat
Area Cost Factor:	0.96		Admits Visits Prescrip
Per Diem Rate ($/Day):	107	CostFactor	0.00 0.00 0.00
Freight Cost ($/Ton/Mile):	0.44	Actv MTF	0 0 0
Vehicle Cost ($/Lift/Mile):	4.84	Actv Purch	0 0
Latitude:	39.820750	Retiree	0 0 0
Longitude:	-84.035760	Retiree65+	0 0 0

INPUT SCREEN FIVE - DYNAMIC BASE INFORMATION

Name: ABERDEEN, MD (24004)

	2006	2007	2008	2009	2010	2011
1-Time Unique Cost ($K):	0	0	298	0	0	0
1-Time Unique Save ($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($K):	250	0	0	0	0	0
Activ Mission Cost ($K):	0	0	0	0	0	0
Activ Mission Save ($K):	0	0	0	0	0	0
Misn Contract Start($K):	0	0	0	0	0	0
Misn Contract Term ($K):	0	0	0	0	0	0
Supt Contract Term ($K):	0	0	0	0	0	0
Misc Recurring Cost($K):	0	0	0	0	0	0
Misc Recurring Save($K):	0	0	0	0	0	0
One-Time IT Costs ($K):	0	0	65	0	0	0
Construction Schedule(%):	0%	0%	0%	0%	0%	0%
Shutdown Schedule (%):	0%	0%	0%	0%	0%	0%
Misn Milcon Avoidnc($K):	0	0	0	0	0	0
Procurement Avoidnc($K):	0	0	0	0	0	0

MTF Closure Action: None Fac ShDn(KSF): 0 FH ShDn: 0.000%

COBRA INPUT DATA REPORT (COBRA v6.10) - Page 3
Data As Of 8/5/2005 10:33:23 AM, Report Created 8/5/2005 10:33:25 AM

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INPUT SCREEN FIVE - DYNAMIC BASE INFORMATION

Name: Glenn Res Ctr, OH

	2006	2007	2008	2009	2010	2011
1-Time Unique Cost ($K):	0	0	0	0	0	0
1-Time Unique Save ($K):	0	0	0	0	0	0
1-Time Moving Cost ($K):	0	0	0	0	0	0
1-Time Moving Save ($K):	0	0	0	0	0	0
Env Non-MilCon Reqd($K):	0	0	0	0	0	0
Activ Mission Cost ($K):	0	0	0	0	0	0
Activ Mission Save ($K):	0	0	0	0	0	0
Misn Contract Start($K):	0	0	0	0	0	0
Misn Contract Term ($K):	0	0	0	0	0	0
Supt Contract Term ($K):	0	0	0	0	0	0
Misc Recurring Cost($K):	0	0	0	0	0	0
Misc Recurring Save($K):	0	0	0	0	0	0
One-Time IT Costs ($K):	0	0	0	0	0	0
Construction Schedule(%):	0%	0%	0%	0%	0%	0%
Shutdown Schedule (%):	0%	0%	0%	0%	0%	0%
Misn Milcon Avoidnc($K):	0	0	0	0	0	0
Procurement Avoidnc($K):	0	0	0	0	0	0

MTF Closure Action: None Fac ShDn(KSF): 0 FH ShDn: 0.000%

INPUT SCREEN SIX - BASE PERSONNEL INFORMATION

Name: ABERDEEN, MD (24004)

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

Name: Glenn Res Ctr, OH

	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	-20	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:	0	0	0	0	0	0
Stu Prog nonBRAC Change:	0	0	0	0	0	0
Prog FH Privatization:	100%	0%	0%	0%	0%	0%

COBRA INPUT DATA REPORT (COBRA v6.10) - Page 4
Data As Of 8/5/2005 10:33:23 AM, Report Created 8/5/2005 10:33:25 AM

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INPUT SCREEN SEVEN - BASE MILITARY CONSTRUCTION INFORMATION

Name: ABERDEEN, MD (24004)

FAC	UM	New MilCon	Rehab MilCon	TotCost($K)	FPG Con CF	FPG Sust CF
8521	SY	1,050	0 Default	0	45.83	1.07
6100	SF	4,800	0 Default	0	138.78	2.52

STANDARD FACTORS SCREEN ONE - PERSONNEL

SF File Descrip:

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

STANDARD FACTORS SCREEN TWO - FACILITIES

	Army	Navy	Air Force	Marines
Service Sustainment Rate	87.00%	93.00%	92.00%	97.00%
Unit Cost Adjustment (BOS)	10332.00	8879.00	3032.00	3904.00

Program Management Factor:	10.00	MilCon Site Prep Cost ($/SF):	0.74
Mothball (Close) ($/SF):	0.18	MilCon Contingency Plan Rate:	5.00%
Mothball (Deac/Realn) ($/SF):	0.45	MilCon Design Rate (Medical):	13.00%
Rehab vs. MilCon (Default):	47.00%	MilCon Design Rate (Other):	9.00%
Rehab vs. MilCon (Red):	64.00%	MilCon SIOH Rate:	6.00%
Rehab vs. MilCon (Amber):	29.00%	Discount Rate for NPV/Payback:	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 : Army
Scenario File : C:\Tasker 806 TECH-0009R\Tasker 806 TECH-0009R Glenn to Aberdeen\Tasker 806 JSC45 Def Led Res Labs Glenn to Aberdeen 08052005.CBR
Option Pkg Name: Defense Research Service Led Labs TECH-0009B V5.0
Std Fctrs File : X:\COBRA 6.10\BRAC2005.SFF

FOOTNOTES FOR SCREEN ONE
==========
To provide quick turnaround, we used proportional estimates for some costs and facility requirements. The proportional estimates were necessary because the certified data did not contain the level of detail needed. Therefore, there probably some minor cost differences from what the results would be using new certified data.

TECH-0009

Description:

This scenario realigns and co-locates the three service corporate laboratories to provide greater synergy across DTAP technical capabilities and functions. Additionally it creates a virtual Defense Research Laboratory by establishing a board of directors including Director of Defense Research and Engineering (DDRE), Technical Director of the Naval Research Laboratory (TD-NRL), Commanding Officer of Air Force Research Laboratory (CC-AFRL), Technical Director Army Research Laboratory (TD-ARL) and the Service S&T executives. The Board of Directors will advise and steer Research Labs to reduce duplicative efforts & foster joint centers of excellence. The purpose of this scenario is to consolidate to a smaller number of Service-centric geographic locations in order to increase the multidisciplinary collection of R&D expertise across DTAP capability areas at those locations.

Actions

* Realign all ARL/WSMR activity, including Battlespace Environment research, with the exception of the minimum detachment required to maintain T&E operations at WSMR by moving the people & their positions (government only) and the Special Equipment & Facilities from WSMR and consolidate at Aberdeen Proving Ground.

* Realign all ARL activity at NASA sites by moving the people and their positions (government only) and the special equipment & facilities from ARL/Langley Research Center (W26201), Langley VA and ARL/Glenn Research Center (W26206), Glenn, OH and consolidate at Aberdeen Proving Ground.

Source Files
1. TECH-0009 v 5.0.xls
No SDDs issued

TJCSG Assumptions.
None Applied.
Notes:

From Source File 1:
Notes:

ARL/Glenn Research Center (W26206) and ARL/Langley (W26201) are located at NASA Lewis Research Center and NASA Langley Research Center which are not in the COBRA database. The following approaches are required to provide data for Screen 2 and Screen 4:

1. Screen 2: The distances for these two sites were computed from the Defense Table of Distance (DTOD).
a. For Glenn Research Center, NASA Lewis Research Center to APG: 414.8 miles
b. For ARL/Langley, NASA Langley Research Center to APG: 255.1 miles
These data was entered by hand. Do not CLICK the "DATABASE Button" to override the data.

2. Screen 4: Population for authorized spaces: use 2003 the Army Stationing and Installation Plan (ASIP) database. Other info such as Lat/Long were approximated with data associated with Wright Patterson AFB and Langley AFB.

COBRA INPUT DATA REPORT (COBRA v6.10) - Page 6
Data As Of 8/5/2005 10:33:23 AM, Report Created 8/5/2005 10:33:25 AM

Department : Army
Scenario File : C:\Tasker 806 TECH-0009R\Tasker 806 TECH-0009R Glenn to Aberdeen\Tasker 806 JSC45 Def Led Res Labs Glenn to Aberdeen 08052005.CBR
Option Pkg Name: Defense Research Service Led Labs TECH-0009B V5.0
Std Fctrs File : X:\COBRA 6.10\BRAC2005.SFF

FOOTNOTES FOR SCREEN TWO
==========
ARL/Glenn Research Center (W26206) and ARL/Langley (W26201) are located at NASA Lewis Research Center and NASA Langley Research Center which are not in the COBRA database. The following approaches are required to provide data for Screen 2 :

The distances for these two sites were computed from the Defense Table of Distance (DTOD)..
a. For Glenn Research Center, NASA Lewis Research Center to APG: 414.8 miles
b. For ARL/Langley, NASA Langley Research Center to APG: 255.1 miles
These data was entered by hand. Do not CLICK the "DATABASE Button" to override the data.

FOOTNOTES FOR SCREEN THREE
==========
WSMR:
A 5.5% reduction was taken on civilan personnel.
WSMR to Aberdeen Off -1; Enl -10; Civ -145.
SLAD(old 009B) :Off -1; Enl -9; Civ -105
BE (Old 0020) :Off -0; Enl -1; Civ -40
Move the organization in Yr 2009

Because of equipment type (lab equipment etc.), COBRA would significantly underestimate the cost of moving if calculated by weight. Therefore, weight data is not provided. Instead, a one time relocation cost is used and is located on screen 5. Source File 1

All data from Source File 1.
No TJCSG assumptions made.

FOOTNOTES FOR SCREEN FOUR
==========
All Screen Four Comments are From Source File 1

ARL/Glenn Research Center (W26206) and ARL/Langley (W26201) are located at NASA Lewis Research Center and NASA Langley Research Center which are not in the COBRA database. The following approaches are required to provide data for Screen 4:

Population for authorized spaces: use 2003 the Army Stationing and Installation Plan (ASIP) database. Other info such as Lat/Long were approximated with data associated with Wright Patterson AFB and Langley AFB.

Glenn Reseach Center site is located outside of Cleveland-Hopkins Airport, OH Population
From 2003 ASIP the following information was used for NASA Glenn Research Center(W26206):
OFF:0 ENL:0 CIV:50

Langley Research site is in Hampton, VA and cost factors from Langley AFB were used.
From 2003 ASIP the following information was used for NASA Langely (W26201):
OFF:2 ENL:2 CIV:46

FOOTNOTES FOR SCREEN FIVE
==========
All Comments From Source File 1.

Aberdeen

One-Time Unique Cost for Utilities Support is $2,254 K added in Yr 2008 at the move.
One time IT cost for $490.8 K in Yr 2008.

Department : Army
Scenario File : C:\Tasker 806 TECH-0009R\Tasker 806 TECH-0009R Glenn to Aberdeen\Tasker 806 JSC45 Def Led Res Labs Glenn to Aberdeen 08052005.CBR
Option Pkg Name: Defense Research Service Led Labs TECH-0009B V5.0
Std Fctrs File : X:\COBRA 6.10\BRAC2005.SFF

APG needs the following requirement for ENV Non-MILCON expenditure
Air Conformity Analysis - $50K
New Source Review - $100K
NEPA - $100K

Because of equipment type (lab equipmet etc.), COBRA would significantly underestimate the cost of moving if calculated by weight. Therefore, weight data and vehicle data is not provided. Instead, a one time reclocation cost is used and is located on screen 5 for White Sands.

White Sands - ARL/WSMR

One-time moving cost is $6.03 M for relocating all equipment from White Sands to Aberdeen in Yr 2009.
$3.73 M is for moving BLAD equipments.
$2.3 M is for moving BE equipments.
Because of equipment type (lab equipment etc.), COBRA would significantly underestimate the cost of moving if calculated by weight. Therefore, weight data is not provided. Instead, a one time reclocation cost is used and is located on screen 5.

ARL/WSMR (W26212) vacates 26.6 KSF. 26,600 SF =164 people * 162 sf/person

FOOTNOTES FOR SCREEN SIX
==========
All Screen Six Comments from Source File 1.

Aberdeen:
Aberdeen BASOPS changes: CIV = +9.

WSMR:
- WSMR BASOPS changes: ENL=- 2; CIV =-12
- Efficiency savings from the units moving is 8 CIV.
- Total reduction at WSMR: Off =0; ENL=-2, CIV=-20

Langley and Glenn Reseach Center :
Population reduction was calculated using current ASIP (FY03) and SDC certified data call information:
- Glenn Reseach Center: Civ=-20
- Langley Reseach Center: OFF:=-1 and CIV= -16

FOOTNOTES FOR SCREEN SEVEN
==========
All Comments on Screen 7 from Source File 1

Aberdeen:

WSMR identified a requirement for RDT&E labs with a PRV of $9.7M.
(1) BLAD required a RDT&E lab space of 26 KSF with a PRV of $7.8 M (FAC 3101).
(2) Battlespace Environment required a RDT&E lab with a PRV of 1.9M) (FAC 3101).

No new MILCON for Enlisted Unaccompanied Personnel Housing is needed. Since Aberdeen has non-occupied 131 KSF of Enlisted Unaccompanied Personnel Housing and only 1 KSF of Enlisted Unaccompanied Personnel Housing is required for 12 enlisted.

Facility requirements from RPLANS are 1,885 KSF of Admin Space, 1,077 KSY
The MILCON requirements of admin space for 228 people (including 8 contractors) is 36.95 KSF.
Admin space 36,800 SF = 227 people * 162 sf/person +26 SF
The MILCON requirements of vehicle parking space for 228 people (including 8 contractors) is 8 KSY.

COBRA INPUT DATA REPORT (COBRA v6.10) - Page 8
Data As Of 8/5/2005 10:33:23 AM, Report Created 8/5/2005 10:33:25 AM

Department : Army
Scenario File : C:\Tasker 806 TECH-0009R\Tasker 806 TECH-0009R Glenn to Aberdeen\Tasker 806 JSC45 Def Led Res Labs Glenn to Aberdeen 08052005.CBR
Option Pkg Name: Defense Research Service Led Labs TECH-0009B V5.0
Std Fctrs File : X:\COBRA 6.10\BRAC2005.SFF

Parking space 8000 SY = 227 people * 35 sy/person +55 SY

COBRA PERSONNEL/SF/SUSTAINMENT/RECAP/BOS DELTAS REPORT (COBRA v6.10)
Data As Of 8/5/2005 10:33:23 AM, Report Created 8/5/2005 10:33:25 AM

Department : Army
Scenario File : C:\Tasker 806 TECH-0009R\Tasker 806 TECH-0009R Glenn to Aberdeen\Tasker 806 JSC45 Def Led Res Labs Glenn to Aberdeen 08052005.CBR
Option Pkg Name: Defense Research Service Led Labs TECH-0009B V5.0
Std Fctrs File : X:\COBRA 6.10\BRAC2005.SFF

Personnel

Base	Start*	Finish*	Change	%Change
ABERDEEN	12,869	12,900	31	0%
Glenn Res Ctr	50	0	-50	-100%
TOTAL	12,919	12,900	-19	0%

Square Footage

Base	Start	Finish	Change	%Change	Chg/Per
ABERDEEN	14,280,000	14,284,800	4,800	0%	155
Glenn Res Ctr	0	0	0	0%	0
TOTAL	14,280,000	14,284,800	4,800	0%	-253

Base Operations Support (2005$)

Base	Start*	Finish*	Change	%Change	Chg/Per
ABERDEEN	99,093,746	99,226,150	132,404	0%	4,271
Glenn Res Ctr	0	0	0	0%	0
TOTAL	99,093,746	99,226,150	132,404	0%	-6,969

Sustainment (2005$)

Base	Start	Finish	Change	%Change	Chg/Per
ABERDEEN	16,952,404	16,957,474	5,070	0%	163
Glenn Res Ctr	0	0	0	0%	0
TOTAL	16,952,404	16,957,474	5,070	0%	-267

Recapitalization (2005$)

Base	Start	Finish	Change	%Change	Chg/Per
ABERDEEN	27,621,610	27,628,436	6,826	0%	220
Glenn Res Ctr	0	0	0	0%	0
TOTAL	27,621,610	27,628,436	6,826	0%	-359

Sustain + Recap + BOS (2005$)

Base	Start	Finish	Change	%Change	Chg/Per
ABERDEEN	143,667,759	143,812,060	144,301	0%	4,655
Glenn Res Ctr	0	0	0	0%	0
TOTAL	143,667,759	143,812,060	144,301	0%	-7,595

Plant Replacement Value (2005$)

Base	Start	Finish	Change	%Change	Chg/Per
ABERDEEN	2,845,025,803	2,845,728,935	703,132	0%	22,682
Glenn Res Ctr	0	0	0	0%	0
TOTAL	2,845,025,803	2,845,728,935	703,132	0%	-37,007

COBRA PERSONNEL/SF/SUSTAINMENT/RECAP/BOS DELTAS REPORT (COBRA v6.10) - Page 2
Data As Of 8/5/2005 10:33:23 AM, Report Created 8/5/2005 10:33:25 AM

Department : Army
Scenario File : C:\Tasker 806 TECH-0009R\Tasker 806 TECH-0009R Glenn to Aberdeen\Tasker 806 JSC45 Def Led Res Labs Glenn to Aberdeen 08052005.CBR
Option Pkg Name: Defense Research Service Led Labs TECH-0009B V5.0
Std Fctrs File : X:\COBRA 6.10\BRAC2005.SFF

* "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 1/9
Data As Of 8/5/2005 10:33:23 AM, Report Created 8/5/2005 10:33:25 AM

Department : Army
Scenario File : C:\Tasker 806 TECH-0009R\Tasker 806 TECH-0009R Glenn to Aberdeen\Tasker 806 JSC45 Def Led Res Labs Glenn to Aberdeen 08052005.CBR
Option Pkg Name: Defense Research Service Led Labs TECH-0009B V5.0
Std Fctrs File : X:\COBRA 6.10\BRAC2005.SFF

ONE-TIME COSTS -----($K)-----	2006	2007	2008	2009	2010	2011	Total
CONSTRUCTION							
MILCON	63	680	23	0	0	0	766
O&M							
CIV SALARY							
Civ RIF	0	0	174	0	0	0	174
Civ Retire	0	0	48	0	0	0	48
CIV MOVING							
Per Diem	0	0	115	0	0	0	115
POV Miles	0	0	2	0	0	0	2
Home Purch	0	0	375	0	0	0	375
HHG	0	0	81	0	0	0	81
Misc	0	0	29	0	0	0	29
House Hunt	0	0	74	0	0	0	74
PPP	0	0	142	0	0	0	142
RITA	0	0	167	0	0	0	167
FREIGHT							
Packing	0	0	2	0	0	0	2
Freight	0	0	12	0	0	0	12
Vehicles	0	0	0	0	0	0	0
Unemployment	0	0	13	0	0	0	13
OTHER							
Info Tech	0	0	71	0	0	0	71
Prog Manage	0	0	0	0	0	0	0
Supt Contrac	0	0	0	0	0	0	0
Mothball	0	0	0	0	0	0	0
1-Time Move	0	0	0	0	0	0	0
MIL PERSONNEL							
MIL MOVING							
Per Diem	0	0	0	0	0	0	0
POV Miles	0	0	0	0	0	0	0
HHG	0	0	0	0	0	0	0
Misc	0	0	0	0	0	0	0
OTHER							
Elim PCS	0	0	0	0	0	0	0
OTHER							
HAP / RSE	0	0	110	0	0	0	110
Environmental	250	0	0	0	0	0	250
Misn Contract	0	0	0	0	0	0	0
1-Time Other	0	0	298	0	0	0	298
TOTAL ONE-TIME	313	680	1,738	0	0	0	2,732

TOTAL COBRA REALIGNMENT DETAIL REPORT (COBRA v6.10) - Page 2/9
Data As Of 8/5/2005 10:33:23 AM, Report Created 8/5/2005 10:33:25 AM

Department : Army
Scenario File : C:\Tasker 806 TECH-0009R\Tasker 806 TECH-0009R Glenn to Aberdeen\Tasker 806 JSC45 Def Led Res Labs Glenn to Aberdeen 08052005.CBR
Option Pkg Name: Defense Research Service Led Labs TECH-0009B V5.0
Std Fctrs File : X:\COBRA 6.10\BRAC2005.SFF

RECURRINGCOSTS -----($K)-----	2006	2007	2008	2009	2010	2011	Total	Beyond
O&M								
Sustainment	0	5	5	5	5	5	25	5
Recap	0	7	7	7	7	7	34	7
BOS	0	0	128	132	132	132	525	132
Civ Salary	0	0	46	80	115	115	357	115
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	11	186	225	259	259	941	259
TOTAL COST	313	692	1,924	225	259	259	3,673	259

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

RECURRINGSAVES -----($K)-----	2006	2007	2008	2009	2010	2011	Total	Beyond
FAM HOUSE OPS	0	0	0	0	0	0	0	0
O&M								
Sustainment	0	0	0	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	672	1,343	1,343	1,343	4,702	1,343
MIL PERSONNEL								
Off Salary	0	0	0	0	0	0	0	0
Enl Salary	0	0	0	0	0	0	0	0
House Allow	0	0	0	0	0	0	0	0
OTHER								
Procurement	0	0	0	0	0	0	0	0
Mission Activ	0	0	0	0	0	0	0	0
Misc Recur	0	0	0	0	0	0	0	0
TOTAL RECUR	0	0	672	1,343	1,343	1,343	4,702	1,343
TOTAL SAVINGS	0	0	672	1,343	1,343	1,343	4,702	1,343

TOTAL COBRA REALIGNMENT DETAIL REPORT (COBRA v6.10) - Page 3/9
Data As Of 8/5/2005 10:33:23 AM, Report Created 8/5/2005 10:33:25 AM

Department : Army
Scenario File : C:\Tasker 806 TECH-0009R\Tasker 806 TECH-0009R Glenn to Aberdeen\Tasker 806 JSC45 Def Led Res Labs Glenn to Aberdeen 08052005.CBR
Option Pkg Name: Defense Research Service Led Labs TECH-0009B V5.0
Std Fctrs File : X:\COBRA 6.10\BRAC2005.SFF

ONE-TIME NET -----($K)-----	2006	2007	2008	2009	2010	2011	Total
CONSTRUCTION							
MILCON	63	680	23	0	0	0	766
O&M							
Civ Retir/RIF	0	0	222	0	0	0	222
Civ Moving	0	0	1,000	0	0	0	1,000
Info Tech	0	0	71	0	0	0	71
Other	0	0	13	0	0	0	13
MIL PERSONNEL							
Mil Moving	0	0	0	0	0	0	0
OTHER							
HAP / RSE	0	0	110	0	0	0	110
Environmental	250	0	0	0	0	0	250
Misn Contract	0	0	0	0	0	0	0
1-Time Other	0	0	298	0	0	0	298
TOTAL ONE-TIME	313	680	1,738	0	0	0	2,482

RECURRING NET -----($K)-----	2006	2007	2008	2009	2010	2011	Total	Beyond
FAM HOUSE OPS	0	0	0	0	0	0	0	0
O&M								
Sustainment	0	5	5	5	5	5	25	5
Recap	0	7	7	7	7	7	34	7
BOS	0	0	128	132	132	132	525	132
Civ Salary	0	0	-625	-1,263	-1,228	-1,228	-4,345	-1,228
TRICARE	0	0	0	0	0	0	0	0
MIL PERSONNEL								
Mil Salary	0	0	0	0	0	0	0	0
House Allow	0	0	0	0	0	0	0	0
OTHER								
Procurement	0	0	0	0	0	0	0	0
Mission Activ	0	0	0	0	0	0	0	0
Misc Recur	0	0	0	0	0	0	0	0
TOTAL RECUR	0	11	-485	-1,118	-1,084	-1,084	-3,761	-1,084
TOTAL NET COST	313	692	1,252	-1,118	-1,084	-1,084	-1,029	-1,084

COBRA REALIGNMENT DETAIL REPORT (COBRA v6.10) - Page 4/9
Data As Of 8/5/2005 10:33:23 AM, Report Created 8/5/2005 10:33:25 AM

Department : Army
Scenario File : C:\Tasker 806 TECH-0009R\Tasker 806 TECH-0009R Glenn to Aberdeen\Tasker 806 JSC45 Def Led Res Labs Glenn to Aberdeen 08052005.CBR
Option Pkg Name: Defense Research Service Led Labs TECH-0009B V5.0
Std Fctrs File : X:\COBRA 6.10\BRAC2005.SFF

Base: ABERDEEN, MD (24004)

ONE-TIME COSTS -----($K)-----	2006	2007	2008	2009	2010	2011	Total
CONSTRUCTION							
MILCON	63	680	23	0	0	0	766
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	65	0	0	0	65
Prog Manage	0	0	0	0	0	0	0
Supt Contrac	0	0	0	0	0	0	0
Mothball	0	0	0	0	0	0	0
1-Time Move	0	0	0	0	0	0	0
MIL PERSONNEL							
MIL MOVING							
Per Diem	0	0	0	0	0	0	0
POV Miles	0	0	0	0	0	0	0
HHG	0	0	0	0	0	0	0
Misc	0	0	0	0	0	0	0
OTHER							
Elim PCS	0	0	0	0	0	0	0
OTHER							
HAP / RSE	0	0	0	0	0	0	0
Environmental	250	0	0	0	0	0	250
Misn Contract	0	0	0	0	0	0	0
1-Time Other	0	0	298	0	0	0	298
TOTAL ONE-TIME	313	680	385	0	0	0	1,379

COBRA REALIGNMENT DETAIL REPORT (COBRA v6.10) - Page 5/9
Data As Of 8/5/2005 10:33:23 AM, Report Created 8/5/2005 10:33:25 AM

Department : Army
Scenario File : C:\Tasker 806 TECH-0009R\Tasker 806 TECH-0009R Glenn to Aberdeen\Tasker 806 JSC45 Def Led Res Labs Glenn to Aberdeen 08052005.CBR
Option Pkg Name: Defense Research Service Led Labs TECH-0009B V5.0
Std Fctrs File : X:\COBRA 6.10\BRAC2005.SFF

Base: ABERDEEN, MD (24004)

RECURRINGCOSTS -----($K)-----	2006	2007	2008	2009	2010	2011	Total	Beyond
O&M								
Sustainment	0	5	5	5	5	5	25	5
Recap	0	7	7	7	7	7	34	7
BOS	0	0	128	132	132	132	525	132
Civ Salary	0	0	46	80	115	115	357	115
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	11	186	225	259	259	941	259
TOTAL COSTS	313	692	572	225	259	259	2,320	259

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

RECURRINGSAVES -----($K)-----	2006	2007	2008	2009	2010	2011	Total	Beyond
FAM HOUSE OPS	0	0	0	0	0	0	0	0
O&M								
Sustainment	0	0	0	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
MIL PERSONNEL								
Off Salary	0	0	0	0	0	0	0	0
Enl Salary	0	0	0	0	0	0	0	0
House Allow	0	0	0	0	0	0	0	0
OTHER								
Procurement	0	0	0	0	0	0	0	0
Mission Activ	0	0	0	0	0	0	0	0
Misc Recur	0	0	0	0	0	0	0	0
TOTAL RECUR	0	0	0	0	0	0	0	0
TOTAL SAVINGS	0	0	0	0	0	0	0	0

COBRA REALIGNMENT DETAIL REPORT (COBRA v6.10) - Page 6/9
Data As Of 8/5/2005 10:33:23 AM, Report Created 8/5/2005 10:33:25 AM

Department : Army
Scenario File : C:\Tasker 806 TECH-0009R\Tasker 806 TECH-0009R Glenn to Aberdeen\Tasker 806 JSC45 Def Led Res Labs Glenn to Aberdeen 08052005.CBR
Option Pkg Name: Defense Research Service Led Labs TECH-0009B V5.0
Std Fctrs File : X:\COBRA 6.10\BRAC2005.SFF

Base: ABERDEEN, MD (24004)

ONE-TIME NET -----($K)-----	2006	2007	2008	2009	2010	2011	Total
CONSTRUCTION							
MILCON	63	680	23	0	0	0	766
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	65	0	0	0	65
Other	0	0	0	0	0	0	0
MIL PERSONNEL							
Mil Moving	0	0	0	0	0	0	0
OTHER							
HAP / RSE	0	0	0	0	0	0	0
Environmental	250	0	0	0	0	0	250
Misn Contract	0	0	0	0	0	0	0
1-Time Other	0	0	298	0	0	0	298
TOTAL ONE-TIME	313	680	385	0	0	0	1,379

RECURRING NET -----($K)-----	2006	2007	2008	2009	2010	2011	Total	Beyond
FAM HOUSE OPS	0	0	0	0	0	0	0	0
O&M								
Sustainment	0	5	5	5	5	5	25	5
Recap	0	7	7	7	7	7	34	7
BOS	0	0	128	132	132	132	525	132
Civ Salary	0	0	46	80	115	115	357	115
TRICARE	0	0	0	0	0	0	0	0
MIL PERSONNEL								
Mil Salary	0	0	0	0	0	0	0	0
House Allow	0	0	0	0	0	0	0	0
OTHER								
Procurement	0	0	0	0	0	0	0	0
Mission Activ	0	0	0	0	0	0	0	0
Misc Recur	0	0	0	0	0	0	0	0
TOTAL RECUR	0	11	186	225	259	259	941	259
TOTAL NET COST	313	692	572	225	259	259	2,320	259

COBRA REALIGNMENT DETAIL REPORT (COBRA v6.10) - Page 7/9
Data As Of 8/5/2005 10:33:23 AM, Report Created 8/5/2005 10:33:25 AM

Department : Army
Scenario File : C:\Tasker 806 TECH-0009R\Tasker 806 TECH-0009R Glenn to Aberdeen\Tasker 806 JSC45 Def Led Res Labs Glenn to Aberdeen 08052005.CBR
Option Pkg Name: Defense Research Service Led Labs TECH-0009B V5.0
Std Fctrs File : X:\COBRA 6.10\BRAC2005.SFF

Base: Glenn Res Ctr, OH

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 RIFs	0	0	174	0	0	0	174
Civ Retire	0	0	48	0	0	0	48
CIV MOVING							
Per Diem	0	0	115	0	0	0	115
POV Miles	0	0	2	0	0	0	2
Home Purch	0	0	375	0	0	0	375
HHG	0	0	81	0	0	0	81
Misc	0	0	29	0	0	0	29
House Hunt	0	0	74	0	0	0	74
PPP	0	0	142	0	0	0	142
RITA	0	0	167	0	0	0	167
FREIGHT							
Packing	0	0	2	0	0	0	2
Freight	0	0	12	0	0	0	12
Vehicles	0	0	0	0	0	0	0
Unemployment	0	0	13	0	0	0	13
OTHER							
Info Tech	0	0	6	0	0	0	6
Prog Manage	0	0	0	0	0	0	0
Supt Contrac	0	0	0	0	0	0	0
Mothball	0	0	0	0	0	0	0
1-Time Move	0	0	0	0	0	0	0
MIL PERSONNEL							
MIL MOVING							
Per Diem	0	0	0	0	0	0	0
POV Miles	0	0	0	0	0	0	0
HHG	0	0	0	0	0	0	0
Misc	0	0	0	0	0	0	0
OTHER							
Elim PCS	0	0	0	0	0	0	0
OTHER							
HAP / RSE	0	0	110	0	0	0	110
Environmental	0	0	0	0	0	0	0
Misn Contract	0	0	0	0	0	0	0
1-Time Other	0	0	0	0	0	0	0
TOTAL ONE-TIME	0	0	1,352	0	0	0	1,352

COBRA REALIGNMENT DETAIL REPORT (COBRA v6.10) - Page 8/9
Data As Of 8/5/2005 10:33:23 AM, Report Created 8/5/2005 10:33:25 AM

Department : Army
Scenario File : C:\Tasker 806 TECH-0009R\Tasker 806 TECH-0009R Glenn to Aberdeen\Tasker 806 JSC45 Def Led Res Labs Glenn to Aberdeen 08052005.CBR
Option Pkg Name: Defense Research Service Led Labs TECH-0009B V5.0
Std Fctrs File : X:\COBRA 6.10\BRAC2005.SFF

Base: Glenn Res Ctr, OH

RECURRINGCOSTS -----($K)-----	2006	2007	2008	2009	2010	2011	Total	Beyond
O&M								
Sustainment	0	0	0	0	0	0	0	0
Recap	0	0	0	0	0	0	0	0
BOS	0	0	0	0	0	0	0	0
Civ Salary	0	0	0	0	0	0	0	0
TRICARE	0	0	0	0	0	0	0	0
MIL PERSONNEL								
Off Salary	0	0	0	0	0	0	0	0
Enl Salary	0	0	0	0	0	0	0	0
House Allow	0	0	0	0	0	0	0	0
OTHER								
Mission Activ	0	0	0	0	0	0	0	0
Misc Recur	0	0	0	0	0	0	0	0
TOTAL RECUR	0	0	0	0	0	0	0	0
TOTAL COSTS	0	0	1,352	0	0	0	1,352	0

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

RECURRINGSAVES -----($K)-----	2006	2007	2008	2009	2010	2011	Total	Beyond
FAM HOUSE OPS	0	0	0	0	0	0	0	0
O&M								
Sustainment	0	0	0	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	672	1,343	1,343	1,343	4,702	1,343
MIL PERSONNEL								
Off Salary	0	0	0	0	0	0	0	0
Enl Salary	0	0	0	0	0	0	0	0
House Allow	0	0	0	0	0	0	0	0
OTHER								
Procurement	0	0	0	0	0	0	0	0
Mission Activ	0	0	0	0	0	0	0	0
Misc Recur	0	0	0	0	0	0	0	0
TOTAL RECUR	0	0	672	1,343	1,343	1,343	4,702	1,343
TOTAL SAVINGS	0	0	672	1,343	1,343	1,343	4,702	1,343

COBRA REALIGNMENT DETAIL REPORT (COBRA v6.10) - Page 9/9
Data As Of 8/5/2005 10:33:23 AM, Report Created 8/5/2005 10:33:25 AM

Department : Army
Scenario File : C:\Tasker 806 TECH-0009R\Tasker 806 TECH-0009R Glenn to Aberdeen\Tasker 806 JSC45 Def Led Res Labs Glenn to Aberdeen 08052005.CBR
Option Pkg Name: Defense Research Service Led Labs TECH-0009B V5.0
Std Fctrs File : X:\COBRA 6.10\BRAC2005.SFF

Base: Glenn Res Ctr, OH

ONE-TIME NET -----($K)-----	2006	2007	2008	2009	2010	2011	Total
CONSTRUCTION							
MILCON	0	0	0	0	0	0	0
O&M							
Civ Retir/RIF	0	0	222	0	0	0	222
Civ Moving	0	0	1,000	0	0	0	1,000
Info Tech	0	0	6	0	0	0	6
Other	0	0	13	0	0	0	13
MIL PERSONNEL							
Mil Moving	0	0	0	0	0	0	0
OTHER							
HAP / RSE	0	0	110	0	0	0	110
Environmental	0	0	0	0	0	0	0
Misn Contract	0	0	0	0	0	0	0
1-Time Other	0	0	0	0	0	0	0
TOTAL ONE-TIME	0	0	1,352	0	0	0	1,352

RECURRING NET -----($K)-----	2006	2007	2008	2009	2010	2011	Total	Beyond
FAM HOUSE OPS	0	0	0	0	0	0	0	0
O&M								
Sustainment	0	0	0	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	-672	-1,343	-1,343	-1,343	-4,702	-1,343
TRICARE	0	0	0	0	0	0	0	0
MIL PERSONNEL								
Mil Salary	0	0	0	0	0	0	0	0
House Allow	0	0	0	0	0	0	0	0
OTHER								
Procurement	0	0	0	0	0	0	0	0
Mission Activ	0	0	0	0	0	0	0	0
Misc Recur	0	0	0	0	0	0	0	0
TOTAL RECUR	0	0	-672	-1,343	-1,343	-1,343	-4,702	-1,343
TOTAL NET COST	0	0	681	-1,343	-1,343	-1,343	-3,350	-1,343

TOTAL COBRA MILITARY CONSTRUCTION ASSETS REPORT (COBRA v6.10)
Data As Of 8/5/2005 10:33:23 AM, Report Created 8/5/2005 10:33:25 AM

Department : Army
Scenario File : C:\Tasker 806 TECH-0009R\Tasker 806 TECH-0009R Glenn to Aberdeen\Tasker 806 JSC45 Def Led Res Labs Glenn to Aberdeen 08052005.CBR
Option Pkg Name: Defense Research Service Led Labs TECH-0009B V5.0
Std Fctrs File : X:\COBRA 6.10\BRAC2005.SFF

All values in 2005 Constant Dollars

Base Name	Total MilCon*	Milcon Cost Avoidence	Total Net Costs
ABERDEEN	766,414	0	766,414
Glenn Res Ctr	0	0	0
Totals:	766,414	0	766,414

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

COBRA MILITARY CONSTRUCTION ASSETS REPORT (COBRA v6.10) - Page 2
Data As Of 8/5/2005 10:33:23 AM, Report Created 8/5/2005 10:33:25 AM

Department : Army
Scenario File : C:\Tasker 806 TECH-0009R\Tasker 806 TECH-0009R Glenn to Aberdeen\Tasker 806 JSC45 Def Led Res Labs Glenn to Aberdeen 08052005.CBR
Option Pkg Name: Defense Research Service Led Labs TECH-0009B V5.0
Std Fctrs File : X:\COBRA 6.10\BRAC2005.SFF

MilCon for Base: ABERDEEN, MD (24004)

All values in 2005 Constant Dollars ($K)

FAC	Title	UM	New MilCon	New Cost*	Using Rehab	Rehab Type	Rehab Cost*	Total Cost*
8521	Vehicle Parking, Surfaced	SY	1,050	51	0	Default	0	51
6100	General Administrative Building	SF	4,800	715	0	Default	0	715

Total Construction Cost:	766
- Construction Cost Avoid:	0
Total Net Milcon Cost:	766

* 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 8/5/2005 10:33:23 AM, Report Created 8/5/2005 10:33:25 AM

Department : Army
Scenario File : C:\Tasker 806 TECH-0009R\Tasker 806 TECH-0009R Glenn to Aberdeen\Tasker 806 JSC45 Def Led Res Labs Glenn to Aberdeen 08052005.CBR
Option Pkg Name: Defense Research Service Led Labs TECH-0009B V5.0
Std Fctrs File : X:\COBRA 6.10\BRAC2005.SFF

Year	Cost($)	Adjusted Cost($)	NPV($)
2006	313,282	308,986	308,986
2007	691,963	663,886	972,872
2008	1,252,545	1,168,990	2,141,862
2009	-1,118,559	-1,015,507	1,126,354
2010	-1,084,203	-957,506	168,848
2011	-1,084,203	-931,426	-762,578
2012	-1,084,203	-906,056	-1,668,634
2013	-1,084,203	-881,378	-2,550,012
2014	-1,084,203	-857,371	-3,407,384
2015	-1,084,203	-834,019	-4,241,403
2016	-1,084,203	-811,302	-5,052,706
2017	-1,084,203	-789,205	-5,841,910
2018	-1,084,203	-767,709	-6,609,619
2019	-1,084,203	-746,798	-7,356,418
2020	-1,084,203	-726,458	-8,082,876
2021	-1,084,203	-706,671	-8,789,547
2022	-1,084,203	-687,423	-9,476,970
2023	-1,084,203	-668,699	-10,145,669
2024	-1,084,203	-650,486	-10,796,155
2025	-1,084,203	-632,768	-11,428,924

COBRA SUSTAINMENT/RECAP/BOS/HOUSING CHANGE REPORT (COBRA v6.10)
Data As Of 8/5/2005 10:33:23 AM, Report Created 8/5/2005 10:33:25 AM

Department : Army
Scenario File : C:\Tasker 806 TECH-0009R\Tasker 806 TECH-0009R Glenn to Aberdeen\Tasker 806 JSC45 Def Led Res Labs Glenn to Aberdeen 08052005.CBR
Option Pkg Name: Defense Research Service Led Labs TECH-0009B V5.0
Std Fctrs File : X:\COBRA 6.10\BRAC2005.SFF

Net Change($K)	2006	2007	2008	2009	2010	2011	Total	Beyond
Sustain Change	0	5	5	5	5	5	25	5
Recap Change	0	7	7	7	7	7	34	7
BOS Change	0	0	128	132	132	132	525	132
Housing Change	0	0	0	0	0	0	0	0
TOTAL CHANGES	0	11	140	144	144	144	584	144

ABERDEEN, MD (24004)

Net Change($K)	2006	2007	2008	2009	2010	2011	Total	Beyond
Sustain Change	0	5	5	5	5	5	25	5
Recap Change	0	7	7	7	7	7	34	7
BOS Change	0	0	128	132	132	132	525	132
Housing Change	0	0	0	0	0	0	0	0
TOTAL CHANGES	0	11	140	144	144	144	584	144

Glenn Res Ctr, OH

Net Change($K)	2006	2007	2008	2009	2010	2011	Total	Beyond
Sustain Change	0	0	0	0	0	0	0	0
Recap Change	0	0	0	0	0	0	0	0
BOS Change	0	0	0	0	0	0	0	0
Housing Change	0	0	0	0	0	0	0	0
TOTAL CHANGES	0	0	0	0	0	0	0	0

TOTAL COBRA PERSONNEL IMPACT REPORT (COBRA v6.10) - Page 1/3
Data As Of 8/5/2005 10:33:23 AM, Report Created 8/5/2005 10:33:25 AM

Department : Army
Scenario File : C:\Tasker 806 TECH-0009R\Tasker 806 TECH-0009R Glenn to Aberdeen\Tasker 806 JSC45 Def Led Res Labs Glenn to Aberdeen 08052005.CBR
Option Pkg Name: Defense Research Service Led Labs TECH-0009B V5.0
Std Fctrs File : X:\COBRA 6.10\BRAC2005.SFF

	Rate	2006	2007	2008	2009	2010	2011	Total
CIVILIAN POSITIONS REALIGNING OUT		0	0	30	0	0	0	30
Early Retirement*	8.10%	0	0	2	0	0	0	2
Regular Retirement*	1.67%	0	0	1	0	0	0	1
Civilian Turnover*	9.16%	0	0	3	0	0	0	3
Civs Not Moving (RIFs)*	6.00%	0	0	2	0	0	0	2
Civilians Moving (the remainder)		0	0	22	0	0	0	22
Civilian Positions Available		0	0	8	0	0	0	8
CIVILIAN POSITIONS ELIMINATED		0	0	20	0	0	0	20
Early Retirement	8.10%	0	0	2	0	0	0	2
Regular Retirement	1.67%	0	0	0	0	0	0	0
Civilian Turnover	9.16%	0	0	2	0	0	0	2
Civs Not Moving (RIFs)*	6.00%	0	0	1	0	0	0	1
Priority Placement#	39.97%	0	0	8	0	0	0	8
Civilians Available to Move		0	0	7	0	0	0	7
Civilians Moving		0	0	7	0	0	0	7
Civilian RIFs (the remainder)		0	0	0	0	0	0	0
CIVILIAN POSITIONS REALIGNING IN		0	0	30	0	0	0	30
Civilians Moving		0	0	29	0	0	0	29
New Civilians Hired		0	0	1	0	0	0	1
Other Civilian Additions		0	0	0	1	0	0	1
TOTAL CIVILIAN EARLY RETIREMENTS		0	0	4	0	0	0	4
TOTAL CIVILIAN RIFS		0	0	3	0	0	0	3
TOTAL CIVILIAN PRIORITY PLACEMENTS#		0	0	8	0	0	0	8
TOTAL CIVILIAN NEW HIRES		0	0	1	1	0	0	2

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

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

COBRA PERSONNEL IMPACT REPORT (COBRA v6.10) - Page 2/3
Data As Of 8/5/2005 10:33:23 AM, Report Created 8/5/2005 10:33:25 AM

Department : Army
Scenario File : C:\Tasker 806 TECH-0009R\Tasker 806 TECH-0009R Glenn to Aberdeen\Tasker 806 JSC45 Def Led Res Labs Glenn to Aberdeen 08052005.CBR
Option Pkg Name: Defense Research Service Led Labs TECH-0009B V5.0
Std Fctrs File : X:\COBRA 6.10\BRAC2005.SFF

Base: ABERDEEN, MD (24004)	Rate	2006	2007	2008	2009	2010	2011	Total
CIVILIAN POSITIONS REALIGNING OUT		0	0	0	0	0	0	0
Early Retirement*	8.10%	0	0	0	0	0	0	0
Regular Retirement*	1.67%	0	0	0	0	0	0	0
Civilian Turnover*	9.16%	0	0	0	0	0	0	0
Civs Not Moving (RIFs)*	6.00%	0	0	0	0	0	0	0
Civilians Moving (the remainder)		0	0	0	0	0	0	0
Civilian Positions Available		0	0	0	0	0	0	0
CIVILIAN POSITIONS ELIMINATED		0	0	0	0	0	0	0
Early Retirement	8.10%	0	0	0	0	0	0	0
Regular Retirement	1.67%	0	0	0	0	0	0	0
Civilian Turnover	9.16%	0	0	0	0	0	0	0
Civs Not Moving (RIFs)*	6.00%	0	0	0	0	0	0	0
Priority Placement#	39.97%	0	0	0	0	0	0	0
Civilians Available to Move		0	0	0	0	0	0	0
Civilians Moving		0	0	0	0	0	0	0
Civilian RIFs (the remainder)		0	0	0	0	0	0	0
CIVILIAN POSITIONS REALIGNING IN		0	0	30	0	0	0	30
Civilians Moving		0	0	29	0	0	0	29
New Civilians Hired		0	0	1	0	0	0	1
Other Civilian Additions		0	0	0	1	0	0	1
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	1	1	0	0	2

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

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

COBRA PERSONNEL IMPACT REPORT (COBRA v6.10) - Page 3/3
Data As Of 8/5/2005 10:33:23 AM, Report Created 8/5/2005 10:33:25 AM

Department : Army
Scenario File : C:\Tasker 806 TECH-0009R\Tasker 806 TECH-0009R Glenn to Aberdeen\Tasker 806 JSC45 Def Led Res Labs Glenn to Aberdeen 08052005.CBR
Option Pkg Name: Defense Research Service Led Labs TECH-0009B V5.0
Std Fctrs File : X:\COBRA 6.10\BRAC2005.SFF

Base: Glenn Res Ctr, OH	Rate	2006	2007	2008	2009	2010	2011	Total
CIVILIAN POSITIONS REALIGNING OUT		0	0	30	0	0	0	30
Early Retirement*	8.10%	0	0	2	0	0	0	2
Regular Retirement*	1.67%	0	0	1	0	0	0	1
Civilian Turnover*	9.16%	0	0	3	0	0	0	3
Civs Not Moving (RIFs)*	6.00%	0	0	2	0	0	0	2
Civilians Moving (the remainder)		0	0	22	0	0	0	22
Civilian Positions Available		0	0	8	0	0	0	8
CIVILIAN POSITIONS ELIMINATED		0	0	20	0	0	0	20
Early Retirement	8.10%	0	0	2	0	0	0	2
Regular Retirement	1.67%	0	0	0	0	0	0	0
Civilian Turnover	9.16%	0	0	2	0	0	0	2
Civs Not Moving (RIFs)*	6.00%	0	0	1	0	0	0	1
Priority Placement#	39.97%	0	0	8	0	0	0	8
Civilians Available to Move		0	0	7	0	0	0	7
Civilians Moving		0	0	7	0	0	0	7
Civilian RIFs (the remainder)		0	0	0	0	0	0	0
CIVILIAN POSITIONS REALIGNING IN		0	0	0	0	0	0	0
Civilians Moving		0	0	0	0	0	0	0
New Civilians Hired		0	0	0	0	0	0	0
Other Civilian Additions		0	0	0	0	0	0	0
TOTAL CIVILIAN EARLY RETIRMENTS		0	0	4	0	0	0	4
TOTAL CIVILIAN RIFS		0	0	3	0	0	0	3
TOTAL CIVILIAN PRIORITY PLACEMENTS#		0	0	8	0	0	0	8
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 8/5/2005 10:33:23 AM, Report Created 8/5/2005 10:33:25 AM

Department : Army
Scenario File : C:\Tasker 806 TECH-0009R\Tasker 806 TECH-0009R Glenn to Aberdeen\Tasker 806 JSC45 Def Led Res Labs Glenn to Aberdeen 08052005.CBR
Option Pkg Name: Defense Research Service Led Labs TECH-0009B V5.0
Std Fctrs File : X:\COBRA 6.10\BRAC2005.SFF

Base: ABERDEEN, MD (24004)

Year	Pers Moved In/Added Total	Pers Moved In/Added Percent	MilCon TimePhase	Pers Moved Out/Eliminated Total	Pers Moved Out/Eliminated Percent	ShutDn TimePhase
2006	0	0.00%	0.00%	0	0.00%	16.67%
2007	0	0.00%	96.77%	0	0.00%	16.67%
2008	30	96.77%	3.23%	0	0.00%	16.67%
2009	1	3.23%	0.00%	0	0.00%	16.67%
2010	0	0.00%	0.00%	0	0.00%	16.67%
2011	0	0.00%	0.00%	0	0.00%	16.67%
TOTALS	31	100.00%	100.00%	0	0.00%	100.00%

Base: Glenn Res Ctr, OH

Year	Pers Moved In/Added Total	Pers Moved In/Added Percent	MilCon TimePhase	Pers Moved Out/Eliminated Total	Pers Moved Out/Eliminated Percent	ShutDn TimePhase
2006	0	0.00%	66.67%	0	0.00%	0.00%
2007	0	0.00%	33.33%	0	0.00%	0.00%
2008	0	0.00%	0.00%	50	100.00%	100.00%
2009	0	0.00%	0.00%	0	0.00%	0.00%
2010	0	0.00%	0.00%	0	0.00%	0.00%
2011	0	0.00%	0.00%	0	0.00%	0.00%
TOTALS	0	0.00%	100.00%	50	100.00%	100.00%

DCN:11677

COBRA REALIGNMENT SUMMARY REPORT (COBRA v6.10) - Page 1/2
Data As Of 8/5/2005 10:24:18 AM, Report Created 8/5/2005 10:24:22 AM

Department : Army
Scenario File : C:\Tasker 806 TECH-0009R\Tasker 806 TECH-0009R White Sands to Aberdeen\Tasker 806 JSC45 Def Led Res Labs White Sands to Aberdeen 08052005.CBR
Option Pkg Name: Defense Research Service Led Labs TECH-0009B V5.0
Std Fctrs File : X:\COBRA 6.10\BRAC2005.SFF

Starting Year : 2006
Final Year : 2009
Payback Year : 100+ Years

NPV in 2025($K): 20,464
1-Time Cost($K): 29,413

Net Costs in 2005 Constant Dollars ($K)

	2006	2007	2008	2009	2010	2011	Total	Beyond
MilCon	1,157	0	12,853	0	0	0	14,010	0
Person	0	0	0	536	-765	-765	-994	-765
Overhd	554	416	507	398	152	152	2,178	152
Moving	0	0	355	10,468	0	0	10,823	0
Missio	0	0	0	0	0	0	0	0
Other	250	0	1,628	378	19	19	2,294	19
TOTAL	1,961	416	15,343	11,780	-594	-594	28,311	-594

	2006	2007	2008	2009	2010	2011	Total
POSITIONS ELIMINATED							
Off	0	0	0	0	0	0	0
Enl	0	0	0	2	0	0	2
Civ	0	0	0	20	0	0	20
TOT	0	0	0	22	0	0	22
POSITIONS REALIGNED							
Off	0	0	0	1	0	0	1
Enl	0	0	0	10	0	0	10
Stu	0	0	0	0	0	0	0
Civ	0	0	0	145	0	0	145
TOT	0	0	0	156	0	0	156

$\frac{22}{178} = 12\%$

Summary:

To provide quick turnaround, we used proportional estimates for some costs and facility requirements. The proportional estimates were necessary because the certified data did not contain the level of detail needed. Therefore, there probably some minor cost differences from what the results would be using new certified data.

TECH-0009

Description:

This scenario realigns and co-locates the three service corporate laboratories to provide greater synergy across DTAP technical capabilities and functions. Additionally it creates a virtual "Defense Research Laboratory" by establishing a board of directors including Director of Defense Research and Engineering (DDRE), Technical Director of the Naval Research Laboratory (TD-NRL), Commanding Officer of Air Force Research Laboratory (CC-AFRL), Technical Director Army Research Laboratory (TD-ARL) and the Service S&T executives. The Board of Directors will advise and steer Research Labs to reduce duplicative efforts & foster joint centers of excellence. The purpose of this scenario is to consolidate to a smaller number of Service-centric geographic locations in order to increase the multidisciplinary collection of R&D expertise across DTAP capability areas at those locations.

Actions

* Realign all ARL/WSMR activity, including Battlespace Environment research, with the exception of the minimum detachment required to maintain T&E operations at WSMR by moving the people & their positions (government only) and the Special Equipment & Facilities from WSMR and consolidate at Aberdeen Proving Ground.

* Realign all ARL activity at NASA sites by moving the people and their positions (government only) and the special equipment & facilities from ARL/Langley Research Center (W26201), Langley VA and ARL/Glenn Research Center (W26206), Glenn, OH and consolidate at Aberdeen Proving Ground.

Source Files

1. TECH-0009 v 5.0.xls
No SDDs issued

TJCSG Assumptions.
None Applied.
Notes:

From Source File 1:
Notes:

ARL/Glenn Research Center (W26206) and ARL/Langley (W26201) are located at NASA Lewis Research Center and NASA Langley Research Center which are not in the COBRA database. The following approaches are required to provide data for Screen 2 and Screen 4:

1. Screen 2: The distances for these two sites were computed from the Defense Table of Distance (DTOD).
a. For Glenn Research Center, NASA Lewis Research Center to APG: 414.8 miles
b. For ARL/Langley, NASA Langley Research Center to APG: 255.1 miles
These data was entered by hand. Do not CLICK the "DATABASE Button" to override the data.

2. Screen 4: Population for authorized spaces: use 2003 the Army Stationing and Installation Plan (ASIP) database. Other info such as Lat/Long were approximated with data associated with Wright Patterson AFB and Langley AFB.

COBRA REALIGNMENT SUMMARY REPORT (COBRA v6.10) - Page 2/2
Data As Of 8/5/2005 10:24:18 AM, Report Created 8/5/2005 10:24:22 AM

Department : Army
Scenario File : C:\Tasker 806 TECH-0009R\Tasker 806 TECH-0009R White Sands to Aberdeen\Tasker 806 JSC45 Def Led Res Labs White Sands to Aberdeen 08052005.CBR
Option Pkg Name: Defense Research Service Led Labs TECH-0009B V5.0
Std Fctrs File : X:\COBRA 6.10\BRAC2005.SFF

Costs in 2005 Constant Dollars ($K)

	2006	2007	2008	2009	2010	2011	Total	Beyond
MilCon	1,157	0	12,853	0	0	0	14,010	0
Person	0	0	0	1,356	803	803	2,962	803
Overhd	554	416	507	1,137	891	891	4,398	891
Moving	0	0	355	10,488	0	0	10,843	0
Missio	0	0	0	0	0	0	0	0
Other	250	0	1,628	378	19	19	2,294	19
TOTAL	1,961	416	15,343	13,360	1,713	1,713	34,507	1,713

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	820	1,568	1,568	3,956	1,568
Overhd	0	0	0	740	740	740	2,219	740
Moving	0	0	0	20	0	0	20	0
Missio	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0
TOTAL	0	0	0	1,580	2,308	2,308	6,196	2,308

TOTAL COBRA ONE-TIME COST REPORT (COBRA v6.10) - Page 1/3
Data As Of 8/5/2005 10:24:18 AM, Report Created 8/5/2005 10:24:22 AM

Department : Army
Scenario File : C:\Tasker 806 TECH-0009R\Tasker 806 TECH-0009R White Sands to Aberdeen\Tasker 806 JSC45 Def Led Res Labs White Sands to Aberdeen 08052005.CBR
Option Pkg Name: Defense Research Service Led Labs TECH-0009B V5.0
Std Fctrs File : X:\COBRA 6.10\BRAC2005.SFF

(All values in 2005 Constant Dollars)

Category	Cost	Sub-Total
Construction		
Military Construction	14,010,341	
Total - Construction		14,010,341
Personnel		
Civilian RIF	573,982	
Civilian Early Retirement	167,846	
Eliminated Military PCS	7,997	
Unemployment	44,510	
Total - Personnel		794,335
Overhead		
Program Management Cost	1,516,177	
Support Contract Termination	0	
Mothball / Shutdown	11,970	
Total - Overhead		1,528,147
Moving		
Civilian Moving	4,135,629	
Civilian PPP	141,984	
Military Moving	61,879	
Freight	93,092	
Information Technologies	380,200	
One-Time Moving Costs	6,030,000	
Total - Moving		10,842,785
Other		
HAP / RSE	359,323	
Environmental Mitigation Costs	250,000	
Mission Contract Startup and Termination	0	
One-Time Unique Costs	1,628,000	
Total - Other		2,237,323
Total One-Time Costs		29,412,931
One-Time Savings		
Military Construction Cost Avoidances	0	
Military Moving	20,172	
One-Time Moving Savings	0	
Environmental Mitigation Savings	0	
One-Time Unique Savings	0	
Total One-Time Savings		20,172
Total Net One-Time Costs		29,392,759

COBRA ONE-TIME COST REPORT (COBRA v6.10) - Page 2/3
Data As Of 8/5/2005 10:24:18 AM, Report Created 8/5/2005 10:24:22 AM

Department : Army
Scenario File : C:\Tasker 806 TECH-0009R\Tasker 806 TECH-0009R White Sands to Aberdeen\Tasker 806 JSC45 Def Led Res Labs White Sands to Aberdeen 08052005.CBR
Option Pkg Name: Defense Research Service Led Labs TECH-0009B V5.0
Std Fctrs File : X:\COBRA 6.10\BRAC2005.SFF

Base: WHITE SANDS, NM (35970)
(All values in 2005 Constant Dollars)

Category	Cost	Sub-Total
Construction		
Military Construction	0	
Total - Construction		0
Personnel		
Civilian RIF	573,982	
Civilian Early Retirement	167,846	
Eliminated Military PCS	7,997	
Unemployment	44,510	
Total - Personnel		794,335
Overhead		
Program Management Cost	1,516,177	
Support Contract Termination	0	
Mothball / Shutdown	11,970	
Total - Overhead		1,528,147
Moving		
Civilian Moving	4,135,629	
Civilian PPP	141,984	
Military Moving	61,879	
Freight	93,092	
Information Technologies	25,400	
One-Time Moving Costs	6,030,000	
Total - Moving		10,487,985
Other		
HAP / RSE	359,323	
Environmental Mitigation Costs	0	
Mission Contract Startup and Termination	0	
One-Time Unique Costs	0	
Total - Other		359,323
Total One-Time Costs		13,169,790
One-Time Savings		
Military Construction Cost Avoidances	0	
Military Moving	20,172	
One-Time Moving Savings	0	
Environmental Mitigation Savings	0	
One-Time Unique Savings	0	
Total One-Time Savings		20,172
Total Net One-Time Costs		13,149,619

COBRA ONE-TIME COST REPORT (COBRA v6.10) - Page 3/3
Data As Of 8/5/2005 10:24:18 AM, Report Created 8/5/2005 10:24:22 AM

Department : Army
Scenario File : C:\Tasker 806 TECH-0009R\Tasker 806 TECH-0009R White Sands to Aberdeen\Tasker 806 JSC45 Def Led Res Labs White Sands to Aberdeen 08052005.CBR
Option Pkg Name: Defense Research Service Led Labs TECH-0009B V5.0
Std Fctrs File : X:\COBRA 6.10\BRAC2005.SFF

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

Category	Cost	Sub-Total
Construction		
Military Construction	14,010,341	
Total - Construction		14,010,341
Personnel		
Civilian RIF	0	
Civilian Early Retirement	0	
Eliminated Military PCS	0	
Unemployment	0	
Total - Personnel		0
Overhead		
Program Management Cost	0	
Support Contract Termination	0	
Mothball / Shutdown	0	
Total - Overhead		0
Moving		
Civilian Moving	0	
Civilian PPP	0	
Military Moving	0	
Freight	0	
Information Technologies	354,800	
One-Time Moving Costs	0	
Total - Moving		354,800
Other		
HAP / RSE	0	
Environmental Mitigation Costs	250,000	
Mission Contract Startup and Termination	0	
One-Time Unique Costs	1,628,000	
Total - Other		1,878,000
Total One-Time Costs		16,243,141
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		16,243,141

COBRA TOTAL PERSONNEL SUMMARY REPORT (COBRA v6.10)
Data As Of 8/5/2005 10:24:18 AM, Report Created 8/5/2005 10:24:22 AM

Department : Army
Scenario File : C:\Tasker 806 TECH-0009R\Tasker 806 TECH-0009R White Sands to Aberdeen\Tasker 806 JSC45 Def Led Res Labs White Sands to Aberdeen 08052005.CBR
Option Pkg Name: Defense Research Service Led Labs TECH-0009B V5.0
Std Fctrs File : X:\COBRA 6.10\BRAC2005.SFF

TOTAL SCENARIO POPULATION (FY 2005):

Officers	Enlisted	Students	Civilians
532	2,041	2,831	9,261

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	-31	18	0	0	0	0	-13
Civilians	1,176	-2	21	0	0	0	1,195
TOTAL	1,145	16	21	0	0	0	1,182

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

Officers	Enlisted	Students	Civilians
532	2,041	2,818	10,456

TOTAL PERSONNEL REALIGNMENTS, ENTIRE SCENARIO):

	2006	2007	2008	2009	2010	2011	Total
Officers	0	0	0	1	0	0	1
Enlisted	0	0	0	10	0	0	10
Students	0	0	0	0	0	0	0
Civilians	0	0	0	145	0	0	145
TOTAL	0	0	0	156	0	0	156

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	-2	0	0	-2
Civilians	0	0	0	-13	0	0	-13
TOTAL	0	0	0	-15	0	0	-15

TOTAL SCENARIO POPULATION (After BRAC Action):

Officers	Enlisted	Students	Civilians
532	2,039	2,818	10,443

COBRA PERSONNEL SUMMARY REPORT (COBRA v6.10) - Page 2
Data As Of 8/5/2005 10:24:18 AM, Report Created 8/5/2005 10:24:22 AM

Department : Army
Scenario File : C:\Tasker 806 TECH-0009R\Tasker 806 TECH-0009R White Sands to Aberdeen\Tasker 806 JSC45 Def Led Res Labs White Sands to Aberdeen 08052005.CBR
Option Pkg Name: Defense Research Service Led Labs TECH-0009B V5.0
Std Fctrs File : X:\COBRA 6.10\BRAC2005.SFF

PERSONNEL SUMMARY FOR: WHITE SANDS, NM (35970)

BASE POPULATION (FY 2005):

Officers	Enlisted	Students	Civilians
116	453	0	2,407

PROGRAMMED INSTALLATION (NON-BRAC) CHANGES FOR: WHITE SANDS, NM (35970)

	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	2	0	0	0	0	0	2
TOTAL	2	0	0	0	0	0	2

BASE POPULATION (Prior to BRAC Action) FOR: WHITE SANDS, NM (35970)

Officers	Enlisted	Students	Civilians
116	453	0	2,409

PERSONNEL REALIGNMENTS:
To Base: ABERDEEN, MD (24004)

	2006	2007	2008	2009	2010	2011	Total
Officers	0	0	0	1	0	0	1
Enlisted	0	0	0	10	0	0	10
Students	0	0	0	0	0	0	0
Civilians	0	0	0	145	0	0	145
TOTAL	0	0	0	156	0	0	156

TOTAL PERSONNEL REALIGNMENTS (Out of WHITE SANDS, NM (35970)):

	2006	2007	2008	2009	2010	2011	Total
Officers	0	0	0	1	0	0	1
Enlisted	0	0	0	10	0	0	10
Students	0	0	0	0	0	0	0
Civilians	0	0	0	145	0	0	145
TOTAL	0	0	0	156	0	0	156

SCENARIO POSITION CHANGES FOR: WHITE SANDS, NM (35970)

	2006	2007	2008	2009	2010	2011	Total
Officers	0	0	0	0	0	0	0
Enlisted	0	0	0	-2	0	0	-2
Civilians	0	0	0	-20	0	0	-20
TOTAL	0	0	0	-22	0	0	-22

BASE POPULATION (After BRAC Action) FOR: WHITE SANDS, NM (35970)

Officers	Enlisted	Students	Civilians
115	441	0	2,244

PERSONNEL SUMMARY FOR: ABERDEEN, MD (24004)

BASE POPULATION (FY 2005):

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

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

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

TOTAL	1,143	16	21	0	0	0	1,180

COBRA PERSONNEL SUMMARY REPORT (COBRA v6.10) - Page 3
Data As Of 8/5/2005 10:24:18 AM, Report Created 8/5/2005 10:24:22 AM

Department : Army
Scenario File : C:\Tasker 806 TECH-0009R\Tasker 806 TECH-0009R White Sands to Aberdeen\Tasker 806 JSC45 Def Led Res Labs White Sands to Aberdeen 08052005.CBR
Option Pkg Name: Defense Research Service Led Labs TECH-0009B V5.0
Std Fctrs File : X:\COBRA 6.10\BRAC2005.SFF

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

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

PERSONNEL REALIGNMENTS:
From Base: WHITE SANDS, NM (35970)

	2006	2007	2008	2009	2010	2011	Total
Officers	0	0	0	1	0	0	1
Enlisted	0	0	0	10	0	0	10
Students	0	0	0	0	0	0	0
Civilians	0	0	0	145	0	0	145
TOTAL	0	0	0	156	0	0	156

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

	2006	2007	2008	2009	2010	2011	Total
Officers	0	0	0	1	0	0	1
Enlisted	0	0	0	10	0	0	10
Students	0	0	0	0	0	0	0
Civilians	0	0	0	145	0	0	145
TOTAL	0	0	0	156	0	0	156

SCENARIO POSITION CHANGES FOR: ABERDEEN, MD (24004)

	2006	2007	2008	2009	2010	2011	Total
Officers	0	0	0	0	0	0	0
Enlisted	0	0	0	0	0	0	0
Civilians	0	0	0	7	0	0	7
TOTAL	0	0	0	7	0	0	7

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

Officers	Enlisted	Students	Civilians
417	1,598	2,818	8,199

COBRA ECONOMIC IMPACT REPORT (COBRA v6.10)
Data As Of 8/5/2005 10:24:18 AM, Report Created 8/5/2005 10:24:22 AM

Department : Army
Scenario File : C:\Tasker 806 TECH-0009R\Tasker 806 TECH-0009R White Sands to Aberdeen\Tasker 806 JSC45 Def Led Res Labs White Sands to Aberdeen 08052005.CBR
Option Pkg Name: Defense Research Service Led Labs TECH-0009B V5.0
Std Fctrs File : X:\COBRA 6.10\BRAC2005.SFF

WHITE SANDS, NM (35970)

	2006	2007	2008	2009	2010	2011	Total
Jobs Gained-Mil	0	0	0	0	0	0	0
Jobs Lost-Mil	0	0	0	13	0	0	13
NET CHANGE-Mil	0	0	0	-13	0	0	-13
Jobs Gained-Civ	0	0	0	0	0	0	0
Jobs Lost-Civ	0	0	0	165	0	0	165
NET CHANGE-Civ	0	0	0	-165	0	0	-165
Jobs Gained-Stu	0	0	0	0	0	0	0
Jobs Lost-Stu	0	0	0	0	0	0	0
NET CHANGE-Stu	0	0	0	0	0	0	0

ABERDEEN, MD (24004)

	2006	2007	2008	2009	2010	2011	Total
Jobs Gained-Mil	0	0	0	11	0	0	11
Jobs Lost-Mil	0	0	0	0	0	0	0
NET CHANGE-Mil	0	0	0	11	0	0	11
Jobs Gained-Civ	0	0	0	152	0	0	152
Jobs Lost-Civ	0	0	0	0	0	0	0
NET CHANGE-Civ	0	0	0	152	0	0	152
Jobs Gained-Stu	0	0	0	0	0	0	0
Jobs Lost-Stu	0	0	0	0	0	0	0
NET CHANGE-Stu	0	0	0	0	0	0	0

COBRA INPUT DATA REPORT (COBRA v6.10)
Data As Of 8/5/2005 10:24:18 AM, Report Created 8/5/2005 10:24:22 AM

Department : Army
Scenario File : C:\Tasker 806 TECH-0009R\Tasker 806 TECH-0009R White Sands to Aberdeen\Tasker 806 JSC45 Def Led Res Labs White Sands to Aberdeen 08052005.CBR
Option Pkg Name: Defense Research Service Led Labs TECH-0009B V5.0
Std Fctrs File : X:\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:
WHITE SANDS, NM (35970)	Realignment
ABERDEEN, MD (24004)	Realignment

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

Point A:	Point B:	Distance:
WHITE SANDS, NM (35970)	ABERDEEN, MD (24004)	1,912 mi

INPUT SCREEN THREE - MOVEMENT TABLE

Transfers from WHITE SANDS, NM (35970) to ABERDEEN, MD (24004)

	2006	2007	2008	2009	2010	2011
Officer Positions:	0	0	0	1	0	0
Enlisted Positions:	0	0	0	10	0	0
Civilian Positions:	0	0	0	145	0	0
Student Positions:	0	0	0	0	0	0
NonVeh Missn Eqpt(tons):	0	0	0	0	0	0
Suppt Eqpt (tons):	0	0	0	0	0	0
Mil Light Vehic (tons):	0	0	0	2	0	0
Heavy/Spec Vehic (tons):	0	0	0	0	0	0

INPUT SCREEN FOUR - STATIC BASE INFORMATION

Name: WHITE SANDS, NM (35970)

Total Officer Employees:	116	Base Service (for BOS/Sust):	Army
Total Enlisted Employees:	453	Total Sustainment($K/Year):	27,813
Total Student Employees:	0	Sustain Payroll ($K/Year):	4,181
Total Civilian Employees:	2,407	BOS Non-Payroll ($K/Year):	38,203
Accomp Mil not Receiving BAH:	0.0%	BOS Payroll ($K/Year):	54,502
Officer Housing Units Avail:	0	Family Housing ($K/Year):	1,297
Enlisted Housing Units Avail:	0	Installation PRV($K):	2,272,782
Starting Facilities(KSF):	5,313	Svc/Agcy Recap Rate (Years):	103
Officer BAH ($/Month):	1,044	Homeowner Assistance Program:	Yes
Enlisted BAH ($/Month):	842		
Civ Locality Pay Factor:	1.109		
Area Cost Factor:	1.00		
Per Diem Rate ($/Day):	95		
Freight Cost ($/Ton/Mile):	0.33		
Vehicle Cost ($/Lift/Mile):	4.84		
Latitude:	32.400000		
Longitude:	-106.400000		

TRICARE	In-Pat Admits	Out-Pat Visits	Prescrip
CostFactor	7,212.00	114.00	26.49
Actv MTF	0	5,945	8,580
Actv Purch	64	3,119	
Retiree	0	5,752	16,523
Retiree65+	0	125	10,260

COBRA INPUT DATA REPORT (COBRA v6.10) - Page 2
Data As Of 8/5/2005 10:24:18 AM, Report Created 8/5/2005 10:24:22 AM

Department : Army
Scenario File : C:\Tasker 806 TECH-0009R\Tasker 806 TECH-0009R White Sands to Aberdeen\Tasker 806 JSC45 Def Led Res Labs White Sands to Aberdeen 08052005.CBR
Option Pkg Name: Defense Research Service Led Labs TECH-0009B V5.0
Std Fctrs File : X:\COBRA 6.10\BRAC2005.SFF

INPUT SCREEN FOUR - STATIC BASE INFORMATION

Name: ABERDEEN, MD (24004)

Total Officer Employees:	416	Base Service (for BOS/Sust):	Army
Total Enlisted Employees:	1,588	Total Sustainment($K/Year):	33,839
Total Student Employees:	2,831	Sustain Payroll ($K/Year):	16,887
Total Civilian Employees:	6,854	BOS Non-Payroll ($K/Year):	94,054
Accomp Mil not Receiving BAH:	52.3%	BOS Payroll ($K/Year):	110,565
Officer Housing Units Avail:	54	Family Housing ($K/Year):	2,635
Enlisted Housing Units Avail:	234	Installation PRV($K):	2,845,026
Starting Facilities(KSF):	14,280	Svc/Agcy Recap Rate (Years):	103
Officer BAH ($/Month):	1,264	Homeowner Assistance Program:	No
Enlisted BAH ($/Month):	884		
Civ Locality Pay Factor:	1.146		
Area Cost Factor:	0.88		
Per Diem Rate ($/Day):	127		
Freight Cost ($/Ton/Mile):	0.33		
Vehicle Cost ($/Lift/Mile):	4.84		
Latitude:	39.491667		
Longitude:	-76.136112		

TRICARE	In-Pat Admits	Out-Pat Visits	Prescrip
CostFactor	7,573.00	145.00	22.67
Actv MTF	0	60,704	52,876
Actv Purch	318	7,561	
Retiree	0	12,723	30,748
Retiree65+	0	2,992	27,218

INPUT SCREEN FIVE - DYNAMIC BASE INFORMATION

Name: WHITE SANDS, NM (35970)

	2006	2007	2008	2009	2010	2011
1-Time Unique Cost ($K):	0	0	0	0	0	0
1-Time Unique Save ($K):	0	0	0	0	0	0
1-Time Moving Cost ($K):	0	0	0	6,030	0	0
1-Time Moving Save ($K):	0	0	0	0	0	0
Env Non-MilCon Reqd($K):	0	0	0	0	0	0
Activ Mission Cost ($K):	0	0	0	0	0	0
Activ Mission Save ($K):	0	0	0	0	0	0
Misn Contract Start($K):	0	0	0	0	0	0
Misn Contract Term ($K):	0	0	0	0	0	0
Supt Contract Term ($K):	0	0	0	0	0	0
Misc Recurring Cost($K):	0	0	0	0	0	0
Misc Recurring Save($K):	0	0	0	0	0	0
One-Time IT Costs ($K):	0	0	0	0	0	0
Construction Schedule(%):	0%	0%	0%	0%	0%	0%
Shutdown Schedule (%):	0%	0%	0%	0%	0%	0%
Misn Milcon Avoidnc($K):	0	0	0	0	0	0
Procurement Avoidnc($K):	0	0	0	0	0	0

MTF Closure Action: None Fac ShDn(KSF): 27 FH ShDn: 0.000%

COBRA INPUT DATA REPORT (COBRA v6.10) - Page 3
Data As Of 8/5/2005 10:24:18 AM, Report Created 8/5/2005 10:24:22 AM

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Option Pkg Name: Defense Research Service Led Labs TECH-0009B V5.0
Std Fctrs File : X:\COBRA 6.10\BRAC2005.SFF

INPUT SCREEN FIVE - DYNAMIC BASE INFORMATION

Name: ABERDEEN, MD (24004)

	2006	2007	2008	2009	2010	2011
1-Time Unique Cost ($K):	0	0	1,628	0	0	0
1-Time Unique Save ($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($K):	250	0	0	0	0	0
Activ Mission Cost ($K):	0	0	0	0	0	0
Activ Mission Save ($K):	0	0	0	0	0	0
Misn Contract Start($K):	0	0	0	0	0	0
Misn Contract Term ($K):	0	0	0	0	0	0
Supt Contract Term ($K):	0	0	0	0	0	0
Misc Recurring Cost($K):	0	0	0	0	0	0
Misc Recurring Save($K):	0	0	0	0	0	0
One-Time IT Costs ($K):	0	0	355	0	0	0
Construction Schedule(%):	0%	0%	0%	0%	0%	0%
Shutdown Schedule (%):	0%	0%	0%	0%	0%	0%
Misn Milcon Avoidnc($K):	0	0	0	0	0	0
Procurement Avoidnc($K):	0	0	0	0	0	0

MTF Closure Action: None Fac ShDn(KSF): 0 FH ShDn: 0.000%

INPUT SCREEN SIX - BASE PERSONNEL INFORMATION

Name: WHITE SANDS, NM (35970)

	2006	2007	2008	2009	2010	2011
Off Scenario Change:	0	0	0	0	0	0
Enl Scenario Change:	0	0	0	-2	0	0
Civ Scenario Change:	0	0	0	-20	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:	2	0	0	0	0	0
Stu Prog nonBRAC Change:	0	0	0	0	0	0
Prog FH Privatization:	0%	0%	0%	0%	0%	0%

Name: ABERDEEN, MD (24004)

	2006	2007	2008	2009	2010	2011
Off Scenario Change:	0	0	0	0	0	0
Enl Scenario Change:	0	0	0	0	0	0
Civ Scenario Change:	0	0	0	7	0	0
Off Prog nonBRAC Change:	0	0	0	0	0	0
Enl Prog nonBRAC Change:	0	0	0	0	0	0
Civ Prog nonBRAC Change:	1,174	-2	21	0	0	0
Stu Prog nonBRAC Change:	-31	18	0	0	0	0
Prog FH Privatization:	0%	0%	0%	0%	0%	0%

COBRA INPUT DATA REPORT (COBRA v6.10) - Page 4
Data As Of 8/5/2005 10:24:18 AM, Report Created 8/5/2005 10:24:22 AM

Department : Army
Scenario File : C:\Tasker 806 TECH-0009R\Tasker 806 TECH-0009R White Sands to Aberdeen\Tasker 806 JSC45 Def Led Res Labs White Sands to Aberdeen 08052005.CBR
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INPUT SCREEN SEVEN - BASE MILITARY CONSTRUCTION INFORMATION

Name: ABERDEEN, MD (24004)

FAC	UM	New MilCon	Rehab MilCon	TotCost($K)	FPG Con CF	FPG Sust CF
8521	SY	5,795	0 Default	0	45.83	1.07
6100	SF	26,720	0 Default	0	138.78	2.52
3101	SF	26,000	0 Default	7,800	193.57	2.76
3101	SF	7,000	0 Default	1,900	193.57	2.76
7210	SF	0	1,000 Amber	0	149.92	4.16

STANDARD FACTORS SCREEN ONE - PERSONNEL

SF File Descrip:

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

STANDARD FACTORS SCREEN TWO - FACILITIES

	Army	Navy	Air Force	Marines
Service Sustainment Rate	87.00%	93.00%	92.00%	97.00%
Unit Cost Adjustment (BOS)	10332.00	8879.00	3032.00	3904.00

Program Management Factor:	10.00	MilCon Site Prep Cost ($/SF):	0.74
Mothball (Close) ($/SF):	0.18	MilCon Contingency Plan Rate:	5.00%
Mothball (Deac/Realn) ($/SF):	0.45	MilCon Design Rate (Medical):	13.00%
Rehab vs. MilCon (Default):	47.00%	MilCon Design Rate (Other):	9.00%
Rehab vs. MilCon (Red):	64.00%	MilCon SIOH Rate:	6.00%
Rehab vs. MilCon (Amber):	29.00%	Discount Rate for NPV/Payback:	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 : Army
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Std Fctrs File : X:\COBRA 6.10\BRAC2005.SFF

FOOTNOTES FOR SCREEN ONE
==========
To provide quick turnaround, we used proportional estimates for some costs and facility requirements. The proportional estimates were necessary because the certified data did not contain the level of detail needed. Therefore, there probably some minor cost differences from what the results would be using new certified data.

TECH-0009

Description:

This scenario realigns and co-locates the three service corporate laboratories to provide greater synergy across DTAP technical capabilities and functions. Additionally it creates a virtual Defense Research Laboratory by establishing a board of directors including Director of Defense Research and Engineering (DDRE), Technical Director of the Naval Research Laboratory (TD-NRL), Commanding Officer of Air Force Research Laboratory (CC-AFRL), Technical Director Army Research Laboratory (TD-ARL) and the Service S&T executives. The Board of Directors will advise and steer Research Labs to reduce duplicative efforts & foster joint centers of excellence. The purpose of this scenario is to consolidate to a smaller number of Service-centric geographic locations in order to increase the multidisciplinary collection of R&D expertise across DTAP capability areas at those locations.

Actions

* Realign all ARL/WSMR activity, including Battlespace Environment research, with the exception of the minimum detachment required to maintain T&E operations at WSMR by moving the people & their positions (government only) and the Special Equipment & Facilities from WSMR and consolidate at Aberdeen Proving Ground.

* Realign all ARL activity at NASA sites by moving the people and their positions (government only) and the special equipment & facilities from ARL/Langley Research Center (W26201), Langley VA and ARL/Glenn Research Center (W26206), Glenn, OH and consolidate at Aberdeen Proving Ground.

Source Files
1. TECH-0009 v 5.0.xls
No SDDs issued

TJCSG Assumptions.
None Applied.
Notes:

From Source File 1:
Notes:

ARL/Glenn Research Center (W26206) and ARL/Langley (W26201) are located at NASA Lewis Research Center and NASA Langley Research Center which are not in the COBRA database. The following approaches are required to provide data for Screen 2 and Screen 4:

1. Screen 2: The distances for these two sites were computed from the Defense Table of Distance (DTOD).
a. For Glenn Research Center, NASA Lewis Research Center to APG: 414.8 miles
b. For ARL/Langley, NASA Langley Research Center to APG: 255.1 miles
These data was entered by hand. Do not CLICK the "DATABASE Button" to override the data.

2. Screen 4: Population for authorized spaces: use 2003 the Army Stationing and Installation Plan (ASIP) database. Other info such as Lat/Long were approximated with data associated with Wright Patterson AFB and Langley AFB.

Department : Army
Scenario File : C:\Tasker 806 TECH-0009R\Tasker 806 TECH-0009R White Sands to Aberdeen\Tasker 806 JSC45 Def Led Res Labs White Sands to Aberdeen 08052005.CBR
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FOOTNOTES FOR SCREEN TWO
==========
ARL/Glenn Research Center (W26206) and ARL/Langley (W26201) are located at NASA Lewis Research Center and NASA Langley Research Center which are not in the COBRA database. The following approaches are required to provide data for Screen 2 :

The distances for these two sites were computed from the Defense Table of Distance (DTOD)..
a. For Glenn Research Center, NASA Lewis Research Center to APG: 414.8 miles
b. For ARL/Langley, NASA Langley Research Center to APG: 255.1 miles
These data was entered by hand. Do not CLICK the "DATABASE Button" to override the data.

FOOTNOTES FOR SCREEN THREE
==========
WSMR:
A 5.5% reduction was taken on civilan personnel.
WSMR to Aberdeen Off -1; Enl -10; Civ -145.
SLAD(old 009B) :Off -1; Enl -9; Civ -105
BE (Old 0020) :Off -0; Enl -1; Civ -40
Move the organization in Yr 2009

Because of equipment type (lab equipment etc.), COBRA would significantly underestimate the cost of moving if calculated by weight. Therefore, weight data is not provided. Instead, a one time relocation cost is used and is located on screen 5. Source File 1

All data from Source File 1.
No TJCSG assumptions made.

FOOTNOTES FOR SCREEN FOUR
==========
All Screen Four Comments are From Source File 1

ARL/Glenn Research Center (W26206) and ARL/Langley (W26201) are located at NASA Lewis Research Center and NASA Langley Research Center which are not in the COBRA database. The following approaches are required to provide data for Screen 4:

Population for authorized spaces: use 2003 the Army Stationing and Installation Plan (ASIP) database. Other info such as Lat/Long were approximated with data associated with Wright Patterson AFB and Langley AFB.

Glenn Reseach Center site is located outside of Cleveland-Hopkins Airport, OH Population
From 2003 ASIP the following information was used for NASA Glenn Research Center(W26206):
OFF:0 ENL:0 CIV:50

Langley Research site is in Hampton, VA and cost factors from Langley AFB were used.
From 2003 ASIP the following information was used for NASA Langely (W26201):
OFF:2 ENL:2 CIV:46

FOOTNOTES FOR SCREEN FIVE
==========
All Comments From Source File 1.

Aberdeen

One-Time Unique Cost for Utilities Support is $2,254 K added in Yr 2008 at the move.
One time IT cost for $490.8 K in Yr 2008.

COBRA INPUT DATA REPORT (COBRA v6.10) - Page 7
Data As Of 8/5/2005 10:24:18 AM, Report Created 8/5/2005 10:24:22 AM

Department : Army
Scenario File : C:\Tasker 806 TECH-0009R\Tasker 806 TECH-0009R White Sands to Aberdeen\Tasker 806 JSC45 Def Led Res Labs White Sands to Aberdeen 08052005.CBR
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APG needs the following requirement for ENV Non-MILCON expenditure
Air Conformity Analysis - $50K
New Source Review - $100K
NEPA - $100K

Because of equipment type (lab equipmet etc.), COBRA would significantly underestimate the cost of moving if calculated by weight. Therefore, weight data and vehicle data is not provided. Instead, a one time reclocation cost is used and is located on screen 5 for White Sands.

White Sands - ARL/WSMR

One-time moving cost is $6.03 M for relocating all equipment from White Sands to Aberdeen in Yr 2009.
$3.73 M is for moving BLAD equipments.
$2.3 M is for moving BE equipments.
Because of equipment type (lab equipment etc.), COBRA would significantly underestimate the cost of moving if calculated by weight. Therefore, weight data is not provided. Instead, a one time reclocation cost is used and is located on screen 5.

ARL/WSMR (W26212) vacates 26.6 KSF. 26,600 SF =164 people * 162 sf/person

FOOTNOTES FOR SCREEN SIX
==========
All Screen Six Comments from Source File 1.

Aberdeen:
Aberdeen BASOPS changes: CIV = +9.

WSMR:
- WSMR BASOPS changes: ENL=- 2; CIV =-12
- Efficiency savings from the units moving is 8 CIV.
- Total reduction at WSMR: Off =0; ENL=-2, CIV=-20

Langley and Glenn Reseach Center :
Population reduction was calculated using current ASIP (FY03) and SDC certified data call information:
- Glenn Reseach Center: Civ=-20
- Langley Reseach Center: OFF:=-1 and CIV= -16

FOOTNOTES FOR SCREEN SEVEN
==========
All Comments on Screen 7 from Source File 1

Aberdeen:

WSMR identified a requirement for RDT&E labs with a PRV of $9.7M.
(1) BLAD required a RDT&E lab space of 26 KSF with a PRV of $7.8 M (FAC 3101).
(2) Battlespace Environment required a RDT&E lab with a PRV of 1.9M) (FAC 3101).

No new MILCON for Enlisted Unaccompanied Personnel Housing is needed. Since Aberdeen has non-occupied 131 KSF of Enlisted Unaccompanied Personnel Housing and only 1 KSF of Enlisted Unaccompanied Personnel Housing is required for 12 enlisted.

Facility requirements from RPLANS are 1,885 KSF of Admin Space, 1,077 KSY
The MILCON requirements of admin space for 228 people (including 8 contractors) is 36.95 KSF.
Admin space 36,800 SF = 227 people * 162 sf/person +26 SF
The MILCON requirements of vehicle parking space for 228 people (including 8 contractors) is 8 KSY.

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Std Fctrs File : X:\COBRA 6.10\BRAC2005.SFF

Parking space 8000 SY = 227 people * 35 sy/person +55 SY

COBRA PERSONNEL/SF/SUSTAINMENT/RECAP/BOS DELTAS REPORT (COBRA v6.10)
Data As Of 8/5/2005 10:24:18 AM, Report Created 8/5/2005 10:24:22 AM

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Std Fctrs File : X:\COBRA 6.10\BRAC2005.SFF

Personnel

Base	Start*	Finish*	Change	%Change
WHITE SANDS	2,978	2,800	-178	-6%
ABERDEEN	12,869	13,032	163	1%
TOTAL	15,847	15,832	-15	0%

Square Footage

Base	Start	Finish	Change	%Change	Chg/Per
WHITE SANDS	5,313,000	5,286,400	-26,600	-1%	149
ABERDEEN	14,280,000	14,339,720	59,720	0%	366
TOTAL	19,593,000	19,626,120	33,120	0%	-2,208

Base Operations Support (2005$)

Base	Start*	Finish*	Change	%Change	Chg/Per
WHITE SANDS	38,208,724	37,697,744	-510,981	-1%	2,871
ABERDEEN	99,093,746	99,789,935	696,189	1%	4,271
TOTAL	137,302,470	137,487,678	185,208	0%	-12,347

Sustainment (2005$)

Base	Start	Finish	Change	%Change	Chg/Per
WHITE SANDS	23,631,963	23,513,647	-118,315	-1%	665
ABERDEEN	16,952,404	17,015,541	63,137	0%	387
TOTAL	40,584,367	40,529,188	-55,179	0%	3,678

Recapitalization (2005$)

Base	Start	Finish	Change	%Change	Chg/Per
WHITE SANDS	22,065,850	21,955,376	-110,475	-1%	621
ABERDEEN	27,621,610	27,753,764	132,154	0%	811
TOTAL	49,687,460	49,709,139	21,679	0%	-1,445

Sustain + Recap + BOS (2005$)

Base	Start	Finish	Change	%Change	Chg/Per
WHITE SANDS	83,906,538	83,166,767	-739,771	-1%	4,156
ABERDEEN	143,667,759	144,559,239	891,480	1%	5,469
TOTAL	227,574,297	227,726,006	151,709	0%	-10,114

Plant Replacement Value (2005$)

Base	Start	Finish	Change	%Change	Chg/Per
WHITE SANDS	2,272,782,581	2,261,403,696	-11,378,885	-1%	63,926
ABERDEEN	2,845,025,803	2,858,637,661	13,611,858	0%	83,508
TOTAL	5,117,808,384	5,120,041,357	2,232,973	0%	-148,865

COBRA PERSONNEL/SF/SUSTAINMENT/RECAP/BOS DELTAS REPORT (COBRA v6.10) - Page 2
Data As Of 8/5/2005 10:24:18 AM, Report Created 8/5/2005 10:24:22 AM

Department : Army
Scenario File : C:\Tasker 806 TECH-0009R\Tasker 806 TECH-0009R White Sands to Aberdeen\Tasker 806 JSC45 Def Led Res Labs White Sands to Aberdeen 08052005.CBR
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Std Fctrs File : X:\COBRA 6.10\BRAC2005.SFF

* "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 1/9
Data As Of 8/5/2005 10:24:18 AM, Report Created 8/5/2005 10:24:22 AM

Department : Army
Scenario File : C:\Tasker 806 TECH-0009R\Tasker 806 TECH-0009R White Sands to Aberdeen\Tasker 806 JSC45 Def Led Res Labs White Sands to Aberdeen 08052005.CBR
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ONE-TIME COSTS -----($K)-----	2006	2007	2008	2009	2010	2011	Total
CONSTRUCTION							
MILCON	1,157	0	12,853	0	0	0	14,010
O&M							
CIV SALARY							
Civ RIF	0	0	0	574	0	0	574
Civ Retire	0	0	0	168	0	0	168
CIV MOVING							
Per Diem	0	0	0	522	0	0	522
POV Miles	0	0	0	44	0	0	44
Home Purch	0	0	0	1,455	0	0	1,455
HHG	0	0	0	842	0	0	842
Misc	0	0	0	116	0	0	116
House Hunt	0	0	0	435	0	0	435
PPP	0	0	0	142	0	0	142
RITA	0	0	0	720	0	0	720
FREIGHT							
Packing	0	0	0	8	0	0	8
Freight	0	0	0	76	0	0	76
Vehicles	0	0	0	9	0	0	9
Unemployment	0	0	0	44	0	0	44
OTHER							
Info Tech	0	0	355	25	0	0	380
Prog Manage	554	416	312	234	0	0	1,516
Supt Contrac	0	0	0	0	0	0	0
Mothball	0	0	0	12	0	0	12
1-Time Move	0	0	0	6,030	0	0	6,030
MIL PERSONNEL							
MIL MOVING							
Per Diem	0	0	0	8	0	0	8
POV Miles	0	0	0	4	0	0	4
HHG	0	0	0	39	0	0	39
Misc	0	0	0	11	0	0	11
OTHER							
Elim PCS	0	0	0	8	0	0	8
OTHER							
HAP / RSE	0	0	0	359	0	0	359
Environmental	250	0	0	0	0	0	250
Misn Contract	0	0	0	0	0	0	0
1-Time Other	0	0	1,628	0	0	0	1,628
TOTAL ONE-TIME	1,961	416	15,148	11,887	0	0	29,413

TOTAL COBRA REALIGNMENT DETAIL REPORT (COBRA v6.10) - Page 2/9
Data As Of 8/5/2005 10:24:18 AM, Report Created 8/5/2005 10:24:22 AM

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RECURRINGCOSTS -----($K)-----	2006	2007	2008	2009	2010	2011	Total	Beyond
O&M								
Sustainment	0	0	63	63	63	63	252	63
Recap	0	0	132	132	132	132	529	132
BOS	0	0	0	696	696	696	2,088	696
Civ Salary	0	0	0	562	803	803	2,167	803
TRICARE	0	0	0	19	19	19	57	19
MIL PERSONNEL								
Off Salary	0	0	0	0	0	0	0	0
Enl Salary	0	0	0	0	0	0	0	0
House Allow	0	0	0	0	0	0	0	0
OTHER								
Mission Activ	0	0	0	0	0	0	0	0
Misc Recur	0	0	0	0	0	0	0	0
TOTAL RECUR	0	0	195	1,473	1,713	1,713	5,094	1,713
TOTAL COST	1,961	416	15,343	13,360	1,713	1,713	34,507	1,713

ONE-TIME SAVES -----($K)-----	2006	2007	2008	2009	2010	2011	Total
CONSTRUCTION							
MILCON	0	0	0	0	0	0	0
O&M							
1-Time Move	0	0	0	0	0	0	0
MIL PERSONNEL							
Mil Moving	0	0	0	20	0	0	20
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	20	0	0	20

RECURRINGSAVES -----($K)-----	2006	2007	2008	2009	2010	2011	Total	Beyond
FAM HOUSE OPS	0	0	0	0	0	0	0	0
O&M								
Sustainment	0	0	0	118	118	118	355	118
Recap	0	0	0	110	110	110	331	110
BOS	0	0	0	511	511	511	1,533	511
Civ Salary	0	0	0	665	1,330	1,330	3,325	1,330
MIL PERSONNEL								
Off Salary	0	0	0	0	0	0	0	0
Enl Salary	0	0	0	82	165	165	412	165
House Allow	0	0	0	73	73	73	219	73
OTHER								
Procurement	0	0	0	0	0	0	0	0
Mission Activ	0	0	0	0	0	0	0	0
Misc Recur	0	0	0	0	0	0	0	0
TOTAL RECUR	0	0	0	1,560	2,308	2,308	6,175	2,308
TOTAL SAVINGS	0	0	0	1,580	2,308	2,308	6,196	2,308

TOTAL COBRA REALIGNMENT DETAIL REPORT (COBRA v6.10) - Page 3/9
Data As Of 8/5/2005 10:24:18 AM, Report Created 8/5/2005 10:24:22 AM

Department : Army
Scenario File : C:\Tasker 806 TECH-0009R\Tasker 806 TECH-0009R White Sands to Aberdeen\Tasker 806 JSC45 Def Led Res Labs White Sands to Aberdeen 08052005.CBR
Option Pkg Name: Defense Research Service Led Labs TECH-0009B V5.0
Std Fctrs File : X:\COBRA 6.10\BRAC2005.SFF

ONE-TIME NET -----($K)-----	2006	2007	2008	2009	2010	2011	Total
CONSTRUCTION							
MILCON	1,157	0	12,853	0	0	0	14,010
O&M							
Civ Retir/RIF	0	0	0	742	0	0	742
Civ Moving	0	0	0	4,371	0	0	4,371
Info Tech	0	0	355	25	0	0	380
Other	554	416	312	6,320	0	0	7,603
MIL PERSONNEL							
Mil Moving	0	0	0	50	0	0	50
OTHER							
HAP / RSE	0	0	0	359	0	0	359
Environmental	250	0	0	0	0	0	250
Misn Contract	0	0	0	0	0	0	0
1-Time Other	0	0	1,628	0	0	0	1,628
TOTAL ONE-TIME	1,961	416	15,148	11,867	0	0	29,143

RECURRING NET -----($K)-----	2006	2007	2008	2009	2010	2011	Total	Beyond
FAM HOUSE OPS	0	0	0	0	0	0	0	0
O&M								
Sustainment	0	0	63	-55	-55	-55	-102	-55
Recap	0	0	132	22	22	22	197	22
BOS	0	0	0	185	185	185	556	185
Civ Salary	0	0	0	-103	-527	-527	-1,157	-527
TRICARE	0	0	0	19	19	19	57	19
MIL PERSONNEL								
Mil Salary	0	0	0	-82	-165	-165	-412	-165
House Allow	0	0	0	-73	-73	-73	-219	-73
OTHER								
Procurement	0	0	0	0	0	0	0	0
Mission Activ	0	0	0	0	0	0	0	0
Misc Recur	0	0	0	0	0	0	0	0
TOTAL RECUR	0	0	195	-88	-594	-594	-1,081	-594
TOTAL NET COST	1,961	416	15,343	11,780	-594	-594	28,311	-594

COBRA REALIGNMENT DETAIL REPORT (COBRA v6.10) - Page 4/9
Data As Of 8/5/2005 10:24:18 AM, Report Created 8/5/2005 10:24:22 AM

Department : Army
Scenario File : C:\Tasker 806 TECH-0009R\Tasker 806 TECH-0009R White Sands to Aberdeen\Tasker 806 JSC45 Def Led Res Labs White Sands to Aberdeen 08052005.CBR
Option Pkg Name: Defense Research Service Led Labs TECH-0009B V5.0
Std Fctrs File : X:\COBRA 6.10\BRAC2005.SFF

Base: WHITE SANDS, NM (35970)

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 RIFs	0	0	0	574	0	0	574
Civ Retire	0	0	0	168	0	0	168
CIV MOVING							
Per Diem	0	0	0	522	0	0	522
POV Miles	0	0	0	44	0	0	44
Home Purch	0	0	0	1,455	0	0	1,455
HHG	0	0	0	842	0	0	842
Misc	0	0	0	116	0	0	116
House Hunt	0	0	0	435	0	0	435
PPP	0	0	0	142	0	0	142
RITA	0	0	0	720	0	0	720
FREIGHT							
Packing	0	0	0	8	0	0	8
Freight	0	0	0	76	0	0	76
Vehicles	0	0	0	9	0	0	9
Unemployment	0	0	0	44	0	0	44
OTHER							
Info Tech	0	0	0	25	0	0	25
Prog Manage	554	416	312	234	0	0	1,516
Supt Contrac	0	0	0	0	0	0	0
Mothball	0	0	0	12	0	0	12
1-Time Move	0	0	0	6,030	0	0	6,030
MIL PERSONNEL							
MIL MOVING							
Per Diem	0	0	0	8	0	0	8
POV Miles	0	0	0	4	0	0	4
HHG	0	0	0	39	0	0	39
Misc	0	0	0	11	0	0	11
OTHER							
Elim PCS	0	0	0	8	0	0	8
OTHER							
HAP / RSE	0	0	0	359	0	0	359
Environmental	0	0	0	0	0	0	0
Misn Contract	0	0	0	0	0	0	0
1-Time Other	0	0	0	0	0	0	0
TOTAL ONE-TIME	554	416	312	11,887	0	0	13,170

COBRA REALIGNMENT DETAIL REPORT (COBRA v6.10) - Page 5/9
Data As Of 8/5/2005 10:24:18 AM, Report Created 8/5/2005 10:24:22 AM

Department : Army
Scenario File : C:\Tasker 806 TECH-0009R\Tasker 806 TECH-0009R White Sands to Aberdeen\Tasker 806 JSC45 Def Led Res Labs White Sands to Aberdeen 08052005.CBR
Option Pkg Name: Defense Research Service Led Labs TECH-0009B V5.0
Std Fctrs File : X:\COBRA 6.10\BRAC2005.SFF

Base: WHITE SANDS, NM (35970)

RECURRINGCOSTS -----($K)-----	2006	2007	2008	2009	2010	2011	Total	Beyond
O&M								
Sustainment	0	0	0	0	0	0	0	0
Recap	0	0	0	0	0	0	0	0
BOS	0	0	0	0	0	0	0	0
Civ Salary	0	0	0	0	0	0	0	0
TRICARE	0	0	0	0	0	0	0	0
MIL PERSONNEL								
Off Salary	0	0	0	0	0	0	0	0
Enl Salary	0	0	0	0	0	0	0	0
House Allow	0	0	0	0	0	0	0	0
OTHER								
Mission Activ	0	0	0	0	0	0	0	0
Misc Recur	0	0	0	0	0	0	0	0
TOTAL RECUR	0	0	0	0	0	0	0	0
TOTAL COSTS	554	416	312	11,887	0	0	13,170	0

ONE-TIME SAVES -----($K)-----	2006	2007	2008	2009	2010	2011	Total
CONSTRUCTION							
MILCON	0	0	0	0	0	0	0
O&M							
1-Time Move	0	0	0	0	0	0	0
MIL PERSONNEL							
Mil Moving	0	0	0	20	0	0	20
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	20	0	0	20

RECURRINGSAVES -----($K)-----	2006	2007	2008	2009	2010	2011	Total	Beyond
FAM HOUSE OPS	0	0	0	0	0	0	0	0
O&M								
Sustainment	0	0	0	118	118	118	355	118
Recap	0	0	0	110	110	110	331	110
BOS	0	0	0	511	511	511	1,533	511
Civ Salary	0	0	0	665	1,330	1,330	3,325	1,330
MIL PERSONNEL								
Off Salary	0	0	0	0	0	0	0	0
Enl Salary	0	0	0	82	165	165	412	165
House Allow	0	0	0	73	73	73	219	73
OTHER								
Procurement	0	0	0	0	0	0	0	0
Mission Activ	0	0	0	0	0	0	0	0
Misc Recur	0	0	0	0	0	0	0	0
TOTAL RECUR	0	0	0	1,560	2,308	2,308	6,175	2,308
TOTAL SAVINGS	0	0	0	1,580	2,308	2,308	6,196	2,308

COBRA REALIGNMENT DETAIL REPORT (COBRA v6.10) - Page 6/9
Data As Of 8/5/2005 10:24:18 AM, Report Created 8/5/2005 10:24:22 AM

Department : Army
Scenario File : C:\Tasker 806 TECH-0009R\Tasker 806 TECH-0009R White Sands to Aberdeen\Tasker 806 JSC45 Def Led Res Labs White Sands to Aberdeen 08052005.CBR
Option Pkg Name: Defense Research Service Led Labs TECH-0009B V5.0
Std Fctrs File : X:\COBRA 6.10\BRAC2005.SFF

Base: WHITE SANDS, NM (35970)

ONE-TIME NET -----($K)-----	2006	2007	2008	2009	2010	2011	Total
CONSTRUCTION							
MILCON	0	0	0	0	0	0	0
O&M							
Civ Retir/RIF	0	0	0	742	0	0	742
Civ Moving	0	0	0	4,371	0	0	4,371
Info Tech	0	0	0	25	0	0	25
Other	554	416	312	6,320	0	0	7,603
MIL PERSONNEL							
Mil Moving	0	0	0	50	0	0	50
OTHER							
HAP / RSE	0	0	0	359	0	0	359
Environmental	0	0	0	0	0	0	0
Misn Contract	0	0	0	0	0	0	0
1-Time Other	0	0	0	0	0	0	0
TOTAL ONE-TIME	554	416	312	11,867	0	0	13,150

RECURRING NET -----($K)-----	2006	2007	2008	2009	2010	2011	Total	Beyond
FAM HOUSE OPS	0	0	0	0	0	0	0	0
O&M								
Sustainment	0	0	0	-118	-118	-118	-355	-118
Recap	0	0	0	-110	-110	-110	-331	-110
BOS	0	0	0	-511	-511	-511	-1,533	-511
Civ Salary	0	0	0	-665	-1,330	-1,330	-3,325	-1,330
TRICARE	0	0	0	0	0	0	0	0
MIL PERSONNEL								
Mil Salary	0	0	0	-82	-165	-165	-412	-165
House Allow	0	0	0	-73	-73	-73	-219	-73
OTHER								
Procurement	0	0	0	0	0	0	0	0
Mission Activ	0	0	0	0	0	0	0	0
Misc Recur	0	0	0	0	0	0	0	0
TOTAL RECUR	0	0	0	-1,560	-2,308	-2,308	-6,175	-2,308
TOTAL NET COST	554	416	312	10,307	-2,308	-2,308	6,974	-2,308

COBRA REALIGNMENT DETAIL REPORT (COBRA v6.10) - Page 7/9
Data As Of 8/5/2005 10:24:18 AM, Report Created 8/5/2005 10:24:22 AM

Department : Army
Scenario File : C:\Tasker 806 TECH-0009R\Tasker 806 TECH-0009R White Sands to Aberdeen\Tasker 806 JSC45 Def Led Res Labs White Sands to Aberdeen 08052005.CBR
Option Pkg Name: Defense Research Service Led Labs TECH-0009B V5.0
Std Fctrs File : X:\COBRA 6.10\BRAC2005.SFF

Base: ABERDEEN, MD (24004)

ONE-TIME COSTS -----($K)-----	2006	2007	2008	2009	2010	2011	Total
CONSTRUCTION							
MILCON	1,157	0	12,853	0	0	0	14,010
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	355	0	0	0	355
Prog Manage	0	0	0	0	0	0	0
Supt Contrac	0	0	0	0	0	0	0
Mothball	0	0	0	0	0	0	0
1-Time Move	0	0	0	0	0	0	0
MIL PERSONNEL							
MIL MOVING							
Per Diem	0	0	0	0	0	0	0
POV Miles	0	0	0	0	0	0	0
HHG	0	0	0	0	0	0	0
Misc	0	0	0	0	0	0	0
OTHER							
Elim PCS	0	0	0	0	0	0	0
OTHER							
HAP / RSE	0	0	0	0	0	0	0
Environmental	250	0	0	0	0	0	250
Misn Contract	0	0	0	0	0	0	0
1-Time Other	0	0	1,628	0	0	0	1,628
TOTAL ONE-TIME	1,407	0	14,836	0	0	0	16,243

COBRA REALIGNMENT DETAIL REPORT (COBRA v6.10) - Page 8/9
Data As Of 8/5/2005 10:24:18 AM, Report Created 8/5/2005 10:24:22 AM

Department : Army
Scenario File : C:\Tasker 806 TECH-0009R\Tasker 806 TECH-0009R White Sands to Aberdeen\Tasker 806 JSC45 Def Led Res Labs White Sands to Aberdeen 08052005.CBR
Option Pkg Name: Defense Research Service Led Labs TECH-0009B V5.0
Std Fctrs File : X:\COBRA 6.10\BRAC2005.SFF

Base: ABERDEEN, MD (24004)

RECURRINGCOSTS -----($K)-----	2006	2007	2008	2009	2010	2011	Total	Beyond
O&M								
Sustainment	0	0	63	63	63	63	252	63
Recap	0	0	132	132	132	132	529	132
BOS	0	0	0	696	696	696	2,088	696
Civ Salary	0	0	0	562	803	803	2,167	803
TRICARE	0	0	0	19	19	19	57	19
MIL PERSONNEL								
Off Salary	0	0	0	0	0	0	0	0
Enl Salary	0	0	0	0	0	0	0	0
House Allow	0	0	0	0	0	0	0	0
OTHER								
Mission Activ	0	0	0	0	0	0	0	0
Misc Recur	0	0	0	0	0	0	0	0
TOTAL RECUR	0	0	195	1,473	1,713	1,713	5,094	1,713
TOTAL COSTS	1,407	0	15,032	1,473	1,713	1,713	21,337	1,713

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

RECURRINGSAVES -----($K)-----	2006	2007	2008	2009	2010	2011	Total	Beyond
FAM HOUSE OPS	0	0	0	0	0	0	0	0
O&M								
Sustainment	0	0	0	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
MIL PERSONNEL								
Off Salary	0	0	0	0	0	0	0	0
Enl Salary	0	0	0	0	0	0	0	0
House Allow	0	0	0	0	0	0	0	0
OTHER								
Procurement	0	0	0	0	0	0	0	0
Mission Activ	0	0	0	0	0	0	0	0
Misc Recur	0	0	0	0	0	0	0	0
TOTAL RECUR	0	0	0	0	0	0	0	0
TOTAL SAVINGS	0	0	0	0	0	0	0	0

COBRA REALIGNMENT DETAIL REPORT (COBRA v6.10) - Page 9/9
Data As Of 8/5/2005 10:24:18 AM, Report Created 8/5/2005 10:24:22 AM

Department : Army
Scenario File : C:\Tasker 806 TECH-0009R\Tasker 806 TECH-0009R White Sands to Aberdeen\Tasker 806 JSC45 Def Led Res Labs White Sands to Aberdeen 08052005.CBR
Option Pkg Name: Defense Research Service Led Labs TECH-0009B V5.0
Std Fctrs File : X:\COBRA 6.10\BRAC2005.SFF

Base: ABERDEEN, MD (24004)

ONE-TIME NET -----($K)-----	2006	2007	2008	2009	2010	2011	Total
CONSTRUCTION							
MILCON	1,157	0	12,853	0	0	0	14,010
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	355	0	0	0	355
Other	0	0	0	0	0	0	0
MIL PERSONNEL							
Mil Moving	0	0	0	0	0	0	0
OTHER							
HAP / RSE	0	0	0	0	0	0	0
Environmental	250	0	0	0	0	0	250
Misn Contract	0	0	0	0	0	0	0
1-Time Other	0	0	1,628	0	0	0	1,628
TOTAL ONE-TIME	1,407	0	14,836	0	0	0	16,243

RECURRING NET -----($K)-----	2006	2007	2008	2009	2010	2011	Total	Beyond
FAM HOUSE OPS	0	0	0	0	0	0	0	0
O&M								
Sustainment	0	0	63	63	63	63	252	63
Recap	0	0	132	132	132	132	529	132
BOS	0	0	0	696	696	696	2,088	696
Civ Salary	0	0	0	562	803	803	2,167	803
TRICARE	0	0	0	19	19	19	57	19
MIL PERSONNEL								
Mil Salary	0	0	0	0	0	0	0	0
House Allow	0	0	0	0	0	0	0	0
OTHER								
Procurement	0	0	0	0	0	0	0	0
Mission Activ	0	0	0	0	0	0	0	0
Misc Recur	0	0	0	0	0	0	0	0
TOTAL RECUR	0	0	195	1,473	1,713	1,713	5,094	1,713
TOTAL NET COST	1,407	0	15,032	1,473	1,713	1,713	21,337	1,713

TOTAL COBRA MILITARY CONSTRUCTION ASSETS REPORT (COBRA v6.10)
Data As Of 8/5/2005 10:24:18 AM, Report Created 8/5/2005 10:24:22 AM

Department : Army
Scenario File : C:\Tasker 806 TECH-0009R\Tasker 806 TECH-0009R White Sands to Aberdeen\Tasker 806 JSC45 Def Led Res Labs White Sands to Aberdeen 08052005.CBR
Option Pkg Name: Defense Research Service Led Labs TECH-0009B V5.0
Std Fctrs File : X:\COBRA 6.10\BRAC2005.SFF

All values in 2005 Constant Dollars

Base Name	Total MilCon*	Milcon Cost Avoidence	Total Net Costs
WHITE SANDS	0	0	0
ABERDEEN	14,010,341	0	14,010,341
Totals:	14,010,341	0	14,010,341

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

COBRA MILITARY CONSTRUCTION ASSETS REPORT (COBRA v6.10) - Page 2
Data As Of 8/5/2005 10:24:18 AM, Report Created 8/5/2005 10:24:22 AM

Department : Army
Scenario File : C:\Tasker 806 TECH-0009R\Tasker 806 TECH-0009R White Sands to Aberdeen\Tasker 806 JSC45 Def Led Res Labs White Sands to Aberdeen 08052005.CBR
Option Pkg Name: Defense Research Service Led Labs TECH-0009B V5.0
Std Fctrs File : X:\COBRA 6.10\BRAC2005.SFF

MilCon for Base: ABERDEEN, MD (24004)

All values in 2005 Constant Dollars ($K)

FAC	Title	UM	New MilCon	New Cost*	Using Rehab	Rehab Type	Rehab Cost*	Total Cost*
8521	Vehicle Parking, Surfaced	SY	5,795	283	0	Default	0	283
6100	General Administrative Building	SF	26,720	3,980	0	Default	0	3,980
3101	RDT&E Laboratory	SF	26,000	n/a**	0	Default	n/a**	7,800
3101	RDT&E Laboratory	SF	7,000	n/a**	0	Default	n/a**	1,900
7210	Enlisted Unaccompanied Personnel Housing	SF	0	0	1,000	Amber	46	46

Total Construction Cost:	14,010
- Construction Cost Avoid:	0
Total Net Milcon Cost:	14,010

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

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

COBRA NET PRESENT VALUES REPORT (COBRA v6.10)
Data As Of 8/5/2005 10:24:18 AM, Report Created 8/5/2005 10:24:22 AM

Department : Army
Scenario File : C:\Tasker 806 TECH-0009R\Tasker 806 TECH-0009R White Sands to Aberdeen\Tasker 806 JSC45 Def Led Res Labs White Sands to Aberdeen 08052005.CBR
Option Pkg Name: Defense Research Service Led Labs TECH-0009B V5.0
Std Fctrs File : X:\COBRA 6.10\BRAC2005.SFF

Year	Cost($)	Adjusted Cost($)	NPV($)
2006	1,961,305	1,934,410	1,934,410
2007	415,866	398,991	2,333,401
2008	15,343,514	14,319,968	16,653,369
2009	11,779,734	10,694,478	27,347,847
2010	-594,482	-525,012	26,822,835
2011	-594,482	-510,712	26,312,123
2012	-594,482	-496,802	25,815,321
2013	-594,482	-483,270	25,332,050
2014	-594,482	-470,107	24,861,943
2015	-594,482	-457,303	24,404,640
2016	-594,482	-444,847	23,959,793
2017	-594,482	-432,731	23,527,063
2018	-594,482	-420,944	23,106,118
2019	-594,482	-409,479	22,696,640
2020	-594,482	-398,326	22,298,314
2021	-594,482	-387,476	21,910,838
2022	-594,482	-376,922	21,533,915
2023	-594,482	-366,656	21,167,259
2024	-594,482	-356,669	20,810,590
2025	-594,482	-346,955	20,463,635
2026	-594,482	-337,504	20,126,130
2027	-594,482	-328,312	19,797,819
2028	-594,482	-319,369	19,478,449
2029	-594,482	-310,671	19,167,779
2030	-594,482	-302,209	18,865,570
2031	-594,482	-293,977	18,571,592
2032	-594,482	-285,970	18,285,622
2033	-594,482	-278,181	18,007,441
2034	-594,482	-270,604	17,736,836
2035	-594,482	-263,234	17,473,603
2036	-594,482	-256,064	17,217,539
2037	-594,482	-249,089	16,968,449
2038	-594,482	-242,305	16,726,144
2039	-594,482	-235,705	16,490,439
2040	-594,482	-229,285	16,261,154
2041	-594,482	-223,040	16,038,114
2042	-594,482	-216,965	15,821,149
2043	-594,482	-211,055	15,610,093
2044	-594,482	-205,307	15,404,787
2045	-594,482	-199,715	15,205,072
2046	-594,482	-194,275	15,010,796
2047	-594,482	-188,984	14,821,813
2048	-594,482	-183,836	14,637,977
2049	-594,482	-178,829	14,459,148
2050	-594,482	-173,958	14,285,189
2051	-594,482	-169,220	14,115,969
2052	-594,482	-164,611	13,951,359
2053	-594,482	-160,127	13,791,231
2054	-594,482	-155,766	13,635,465
2055	-594,482	-151,523	13,483,942
2056	-594,482	-147,396	13,336,546
2057	-594,482	-143,381	13,193,164
2058	-594,482	-139,476	13,053,688
2059	-594,482	-135,677	12,918,011
2060	-594,482	-131,982	12,786,029
2061	-594,482	-128,387	12,657,643
2062	-594,482	-124,890	12,532,753
2063	-594,482	-121,488	12,411,264
2064	-594,482	-118,179	12,293,085
2065	-594,482	-114,960	12,178,125
2066	-594,482	-111,829	12,066,296

COBRA NET PRESENT VALUES REPORT (COBRA v6.10) - Page 2
Data As Of 8/5/2005 10:24:18 AM, Report Created 8/5/2005 10:24:22 AM

Department : Army
Scenario File : C:\Tasker 806 TECH-0009R\Tasker 806 TECH-0009R White Sands to Aberdeen\Tasker 806 JSC45 Def Led Res Labs White Sands to Aberdeen 08052005.CBR
Option Pkg Name: Defense Research Service Led Labs TECH-0009B V5.0
Std Fctrs File : X:\COBRA 6.10\BRAC2005.SFF

2067	-594,482	-108,783	11,957,512
2068	-594,482	-105,820	11,851,692
2069	-594,482	-102,938	11,748,754
2070	-594,482	-100,134	11,648,620
2071	-594,482	-97,407	11,551,213
2072	-594,482	-94,754	11,456,459
2073	-594,482	-92,173	11,364,286
2074	-594,482	-89,662	11,274,624
2075	-594,482	-87,220	11,187,404
2076	-594,482	-84,844	11,102,559
2077	-594,482	-82,533	11,020,026
2078	-594,482	-80,285	10,939,740
2079	-594,482	-78,099	10,861,641
2080	-594,482	-75,972	10,785,670
2081	-594,482	-73,902	10,711,767
2082	-594,482	-71,889	10,639,878
2083	-594,482	-69,931	10,569,946
2084	-594,482	-68,027	10,501,920
2085	-594,482	-66,174	10,435,746
2086	-594,482	-64,371	10,371,375
2087	-594,482	-62,618	10,308,757
2088	-594,482	-60,912	10,247,844
2089	-594,482	-59,253	10,188,591
2090	-594,482	-57,639	10,130,951
2091	-594,482	-56,069	10,074,882
2092	-594,482	-54,542	10,020,339
2093	-594,482	-53,057	9,967,283
2094	-594,482	-51,612	9,915,671
2095	-594,482	-50,206	9,865,465
2096	-594,482	-48,838	9,816,627
2097	-594,482	-47,508	9,769,118
2098	-594,482	-46,214	9,722,904
2099	-594,482	-44,955	9,677,949
2100	-594,482	-43,731	9,634,218
2101	-594,482	-42,540	9,591,678
2102	-594,482	-41,381	9,550,297
2103	-594,482	-40,254	9,510,043
2104	-594,482	-39,158	9,470,885
2105	-594,482	-38,091	9,432,794

COBRA SUSTAINMENT/RECAP/BOS/HOUSING CHANGE REPORT (COBRA v6.10)
Data As Of 8/5/2005 10:24:18 AM, Report Created 8/5/2005 10:24:22 AM

Department : Army
Scenario File : C:\Tasker 806 TECH-0009R\Tasker 806 TECH-0009R White Sands to Aberdeen\Tasker 806 JSC45 Def Led Res Labs White Sands to Aberdeen 08052005.CBR
Option Pkg Name: Defense Research Service Led Labs TECH-0009B V5.0
Std Fctrs File : X:\COBRA 6.10\BRAC2005.SFF

Net Change($K)	2006	2007	2008	2009	2010	2011	Total	Beyond
Sustain Change	0	0	63	-55	-55	-55	-102	-55
Recap Change	0	0	132	22	22	22	197	22
BOS Change	0	0	0	185	185	185	556	185
Housing Change	0	0	0	0	0	0	0	0
TOTAL CHANGES	0	0	195	152	152	152	650	152

WHITE SANDS, NM (35970)

Net Change($K)	2006	2007	2008	2009	2010	2011	Total	Beyond
Sustain Change	0	0	0	-118	-118	-118	-355	-118
Recap Change	0	0	0	-110	-110	-110	-331	-110
BOS Change	0	0	0	-511	-511	-511	-1,533	-511
Housing Change	0	0	0	0	0	0	0	0
TOTAL CHANGES	0	0	0	-740	-740	-740	-2,219	-740

ABERDEEN, MD (24004)

Net Change($K)	2006	2007	2008	2009	2010	2011	Total	Beyond
Sustain Change	0	0	63	63	63	63	252	63
Recap Change	0	0	132	132	132	132	529	132
BOS Change	0	0	0	696	696	696	2,088	696
Housing Change	0	0	0	0	0	0	0	0
TOTAL CHANGES	0	0	195	891	891	891	2,870	891

TOTAL COBRA PERSONNEL IMPACT REPORT (COBRA v6.10) - Page 1/3
Data As Of 8/5/2005 10:24:18 AM, Report Created 8/5/2005 10:24:22 AM

Department : Army
Scenario File : C:\Tasker 806 TECH-0009R\Tasker 806 TECH-0009R White Sands to Aberdeen\Tasker 806 JSC45 Def Led Res Labs White Sands to Aberdeen 08052005.CBR
Option Pkg Name: Defense Research Service Led Labs TECH-0009B V5.0
Std Fctrs File : X:\COBRA 6.10\BRAC2005.SFF

	Rate	2006	2007	2008	2009	2010	2011	Total
CIVILIAN POSITIONS REALIGNING OUT		0	0	0	145	0	0	145
Early Retirement*	8.10%	0	0	0	12	0	0	12
Regular Retirement*	1.67%	0	0	0	2	0	0	2
Civilian Turnover*	9.16%	0	0	0	13	0	0	13
Civs Not Moving (RIFs)*	6.00%	0	0	0	9	0	0	9
Civilians Moving (the remainder)		0	0	0	109	0	0	109
Civilian Positions Available		0	0	0	36	0	0	36
CIVILIAN POSITIONS ELIMINATED		0	0	0	20	0	0	20
Early Retirement	8.10%	0	0	0	2	0	0	2
Regular Retirement	1.67%	0	0	0	0	0	0	0
Civilian Turnover	9.16%	0	0	0	2	0	0	2
Civs Not Moving (RIFs)*	6.00%	0	0	0	1	0	0	1
Priority Placement#	39.97%	0	0	0	8	0	0	8
Civilians Available to Move		0	0	0	7	0	0	7
Civilians Moving		0	0	0	7	0	0	7
Civilian RIFs (the remainder)		0	0	0	0	0	0	0
CIVILIAN POSITIONS REALIGNING IN		0	0	0	145	0	0	145
Civilians Moving		0	0	0	116	0	0	116
New Civilians Hired		0	0	0	29	0	0	29
Other Civilian Additions		0	0	0	7	0	0	7
TOTAL CIVILIAN EARLY RETIREMENTS		0	0	0	14	0	0	14
TOTAL CIVILIAN RIFS		0	0	0	10	0	0	10
TOTAL CIVILIAN PRIORITY PLACEMENTS#		0	0	0	8	0	0	8
TOTAL CIVILIAN NEW HIRES		0	0	0	36	0	0	36

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

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

COBRA PERSONNEL IMPACT REPORT (COBRA v6.10) - Page 2/3
Data As Of 8/5/2005 10:24:18 AM, Report Created 8/5/2005 10:24:22 AM

Department : Army
Scenario File : C:\Tasker 806 TECH-0009R\Tasker 806 TECH-0009R White Sands to Aberdeen\Tasker 806 JSC45 Def Led Res Labs White Sands to Aberdeen 08052005.CBR
Option Pkg Name: Defense Research Service Led Labs TECH-0009B V5.0
Std Fctrs File : X:\COBRA 6.10\BRAC2005.SFF

Base: WHITE SANDS, NM (35970)	Rate	2006	2007	2008	2009	2010	2011	Total
CIVILIAN POSITIONS REALIGNING OUT		0	0	0	145	0	0	145
Early Retirement*	8.10%	0	0	0	12	0	0	12
Regular Retirement*	1.67%	0	0	0	2	0	0	2
Civilian Turnover*	9.16%	0	0	0	13	0	0	13
Civs Not Moving (RIFs)*	6.00%	0	0	0	9	0	0	9
Civilians Moving (the remainder)		0	0	0	109	0	0	109
Civilian Positions Available		0	0	0	36	0	0	36
CIVILIAN POSITIONS ELIMINATED		0	0	0	20	0	0	20
Early Retirement	8.10%	0	0	0	2	0	0	2
Regular Retirement	1.67%	0	0	0	0	0	0	0
Civilian Turnover	9.16%	0	0	0	2	0	0	2
Civs Not Moving (RIFs)•	6.00%	0	0	0	1	0	0	1
Priority Placement#	39.97%	0	0	0	8	0	0	8
Civilians Available to Move		0	0	0	7	0	0	7
Civilians Moving		0	0	0	7	0	0	7
Civilian RIFs (the remainder)		0	0	0	0	0	0	0
CIVILIAN POSITIONS REALIGNING IN		0	0	0	0	0	0	0
Civilians Moving		0	0	0	0	0	0	0
New Civilians Hired		0	0	0	0	0	0	0
Other Civilian Additions		0	0	0	0	0	0	0
TOTAL CIVILIAN EARLY RETIRMENTS		0	0	0	14	0	0	14
TOTAL CIVILIAN RIFS		0	0	0	10	0	0	10
TOTAL CIVILIAN PRIORITY PLACEMENTS#		0	0	0	8	0	0	8
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 IMPACT REPORT (COBRA v6.10) - Page 3/3
Data As Of 8/5/2005 10:24:18 AM, Report Created 8/5/2005 10:24:22 AM

Department : Army
Scenario File : C:\Tasker 806 TECH-0009R\Tasker 806 TECH-0009R White Sands to Aberdeen\Tasker 806 JSC45 Def Led Res Labs White Sands to Aberdeen 08052005.CBR
Option Pkg Name: Defense Research Service Led Labs TECH-0009B V5.0
Std Fctrs File : X:\COBRA 6.10\BRAC2005.SFF

Base: ABERDEEN, MD (24004)	Rate	2006	2007	2008	2009	2010	2011	Total
CIVILIAN POSITIONS REALIGNING OUT		0	0	0	0	0	0	0
Early Retirement*	8.10%	0	0	0	0	0	0	0
Regular Retirement*	1.67%	0	0	0	0	0	0	0
Civilian Turnover*	9.16%	0	0	0	0	0	0	0
Civs Not Moving (RIFs)*	6.00%	0	0	0	0	0	0	0
Civilians Moving (the remainder)		0	0	0	0	0	0	0
Civilian Positions Available		0	0	0	0	0	0	0
CIVILIAN POSITIONS ELIMINATED		0	0	0	0	0	0	0
Early Retirement	8.10%	0	0	0	0	0	0	0
Regular Retirement	1.67%	0	0	0	0	0	0	0
Civilian Turnover	9.16%	0	0	0	0	0	0	0
Civs Not Moving (RIFs)*	6.00%	0	0	0	0	0	0	0
Priority Placement#	39.97%	0	0	0	0	0	0	0
Civilians Available to Move		0	0	0	0	0	0	0
Civilians Moving		0	0	0	0	0	0	0
Civilian RIFs (the remainder)		0	0	0	0	0	0	0
CIVILIAN POSITIONS REALIGNING IN		0	0	0	145	0	0	145
Civilians Moving		0	0	0	116	0	0	116
New Civilians Hired		0	0	0	29	0	0	29
Other Civilian Additions		0	0	0	7	0	0	7
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	36	0	0	36

* 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 8/5/2005 10:24:18 AM, Report Created 8/5/2005 10:24:22 AM

Department : Army
Scenario File : C:\Tasker 806 TECH-0009R\Tasker 806 TECH-0009R White Sands to Aberdeen\Tasker 806 JSC45 Def Led Res Labs White Sands to Aberdeen 08052005.CBR
Option Pkg Name: Defense Research Service Led Labs TECH-0009B V5.0
Std Fctrs File : X:\COBRA 6.10\BRAC2005.SFF

Base: WHITE SANDS, NM (35970)

Year	Pers Moved In/Added Total	Percent	MilCon TimePhase	Pers Moved Out/Eliminated Total	Percent	ShutDn TimePhase
2006	0	0.00%	50.00%	0	0.00%	0.00%
2007	0	0.00%	25.00%	0	0.00%	0.00%
2008	0	0.00%	25.00%	0	0.00%	0.00%
2009	0	0.00%	0.00%	178	100.00%	100.00%
2010	0	0.00%	0.00%	0	0.00%	0.00%
2011	0	0.00%	0.00%	0	0.00%	0.00%
TOTALS	0	0.00%	100.00%	178	100.00%	100.00%

Base: ABERDEEN, MD (24004)

Year	Pers Moved In/Added Total	Percent	MilCon TimePhase	Pers Moved Out/Eliminated Total	Percent	ShutDn TimePhase
2006	0	0.00%	0.00%	0	0.00%	16.67%
2007	0	0.00%	0.00%	0	0.00%	16.67%
2008	0	0.00%	100.00%	0	0.00%	16.67%
2009	163	100.00%	0.00%	0	0.00%	16.67%
2010	0	0.00%	0.00%	0	0.00%	16.67%
2011	0	0.00%	0.00%	0	0.00%	16.67%
TOTALS	163	100.00%	100.00%	0	0.00%	100.00%

Knoepfle, Martin, WSO-BRAC

From: Dean, Ryan, CIV, WSO-BRAC
Sent: Friday, August 12, 2005 1:57 PM
To: Farrington, Lester, CIV, WSO-BRAC; Knoepfle, Martin, WSO-BRAC
Subject: FW: EMAIL 2 of 2: Advance draft response to Tasker 806 - BRAC Comm. JCS # 45
Attachments: Tasker 806JSC45 TECH-09.Def Led Res Labs Hanscom to Kirtland COBRA Realignment 08092005.pdf; Tasker 806 JSC45 TECH-09.Def Led Res Labs Wright-Patterson to Hanscom COBRA Realignment 08092005.pdf; Tasker 806 JSC45 TECH-09.Def Led Res Labs White Sands to Aberdeen COBRA Realignment 08052005.pdf; Tasker 806 JSC45 TECH-09.Def Led Res Labs Rome to Wright-Patterson COBRA Realignment 08092005.pdf; Tasker 806 JSC45 TECH-09.Def Led Res Labs Mesa to Wright-Patterson COBRA Realignment 08092005.pdf; Tasker 806 JSC45 TECH-09.Def Led Res Labs Langley to Aberdeen COBRA Realignment 08052005.pdf; Tasker 806 JSC45 TECH-09.Def Led Res Labs Hanscom to Wright-Patterson COBRA Realignment 08092005.pdf; Tasker 806 JSC45 TECH-09.Def Led Res Labs Glenn to Aberdeen COBRA Realignment 08052005.pdf

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From: Eberhart, Roy CTR BRAC , TJCSG [mailto:roy.eberhart.ctr@navy.mil]
Sent: Friday, August 12, 2005 1:54 PM
To: Frank.Cirillo@wso.whs.mil; Ryan.Dean@wso.whs.mil
Cc: Williams, Nova CTR BRAC , TJCSG
Subject: EMAIL 2 of 2: Advance draft response to Tasker 806 - BRAC Comm. JCS # 45

Mr. Cirillo: Please find an advance draft response to your request JCS # 45 (Clearinghouse Tasker 806). EMAIL 2 of 2.

The attached COBRA runs are most of the reports you requested. At this time we are unable to provide all of them because we are still waiting for NAVY input to complete them.

Please note that the attached reports are representative of the COBRA estimates for the individual pieces. Also please note that the COBRA runs we are providing will not change from these advance copies to the final copies when we eventually complete the Tasker and the response letter.

COBRA RUNS ATTACHED ARE FOR TJCSG SCENARIOS TECH-42AR, TECH-42C and for TECH-09.
THE RUNS FOR TECH-18DR WILL BE PROVIDED AS SOON AS NAVY PROVIDES THE NECESSARY INPUT.
Roy Eberhart for the TJCSG

<<Tasker 806 JSC45 TECH-09.Def Led Res Labs Glenn to Aberdeen COBRA Realignment 08052005.pdf>> <<Tasker 806 JSC45 TECH-09.Def Led Res Labs Hanscom to Wright-Patterson COBRA Realignment 08092005.pdf>> <<Tasker 806 JSC45 TECH-09.Def Led Res Labs Langley to Aberdeen COBRA Realignment 08052005.pdf>> <<Tasker 806 JSC45 TECH-09.Def Led Res Labs Mesa to Wright-Patterson COBRA Realignment 08092005.pdf>> <<Tasker 806 JSC45 TECH-09.Def Led Res Labs Rome to Wright-Patterson COBRA Realignment 08092005.pdf>> <<Tasker 806 JSC45 TECH-09.Def Led Res Labs White Sands to Aberdeen COBRA Realignment 08052005.pdf>> <<Tasker 806 JSC45 TECH-09.Def Led Res Labs Wright-Patterson to Hanscom COBRA Realignment 08092005.pdf>> <<Tasker 806JSC45 TECH-09.Def Led Res Labs Hanscom to Kirtland COBRA Realignment 08092005.pdf>>

Sec. 187: Defense Research Service Led Laboratories C5. – Cost & (Savings) for Relocation of White Sands Research Functions

COBRA DATA		
	DoD COBRA Run (Bundled)	Commission COBRA Run (Unbundled)
One Time Cost	$ 164.6 M	$ 29.4 M
Net Implementation	$ 45 M	$28.3 M
Annual Recurring	($ 41.1 M)	($ .6 M)
Payback Period	4 years	100+ years
Net Present Value at 2025	($ 357.3M)	20.4

DCN:11677

TECH-22

Farrington, Lester, CIV, WSO-BRAC

From: Lawrence C. Schuette [schuette@enews.nrl.navy.mil]
Sent: Wednesday, August 10, 2005 10:17 AM
To: lester.farrington@wso.whs.mil
Subject: Fw: Tasker 806 - TECH-0009R Individual Pieces

Hi Les

Here's an early look at the tech 9 individual pieces. On my BB they appear correct (we are still doing the full review).

We still owe you a mesa to kirtland run.

I look at the wsmr to apg piece and note that if we did it to adelphi it would be much less expensive as I believe the lab and office space already exists.

VR
Larry

Lawrence C. Schuette, Ph.D. schuette@nrl.navy.mil
Code 5707.5 (202)767-6814
Naval Research Laboratory (202)767-6767 (fax)

-----Original Message-----
From: Geith, James W CTR TJCSG <james.geith@navy.mil>
To: schuette@nrl.navy.mil <schuette@nrl.navy.mil>; carrolltb@npt.nuwc.navy.mil <carrolltb@npt.nuwc.navy.mil>
CC: Evans, Steven S Col BRAC <steven.s.evans@navy.mil>; Ceniceros, Christian G LCDR BRAC <christian.ceniceros@navy.mil>
Sent: Wed Aug 10 09:41:59 2005
Subject: Tasker 806 - TECH-0009R Individual Pieces

Here's the results when you break TECH-0009R into pieces. All numbers are in $K, except payback which is in years. If there is a costs in the columns titled savings are in parentheses.

Piece	1-time cost	Net Implementation Savings	Recurring savings	Payback	NPV Savings
Glenn to Aberdeen	2,732	1,029	1,084	3	11,429
Langley to Aberdeen	2,784	396	918	3	9,225
White Sands to Aberdeen	29,413	(28,311)	594	100+	(20,464)
total	34,929	(26,886)	2,596	190	
Recommendation	34,429	(26,423)	2,597	582	
Difference	(500)*	463	1	392	

* this is exactly the cost of charging the full environmental cost to each part of the recommendation (which is what I did).

Piece	1-time cost	Net Implementation Savings	Recurring savings	Payback	NPV Savings
Hanscom to Kirtland	51,155	(3,733)	16,738	3	158,933

Hanscom to Wright-Patterson	9,949	(3,977)	2,133	5	17,060
Mesa to Wright-Patterson	24,392	(13,832)	2,928	8	15,506
Rome to Wright-Patterson	33,009	14,039	16,417	2	172,506
Wright-Patterson to Hanscom	12,550	4,098	2,552	4	20,840
total	130,185	(3,405)	40,768		384,485
Recommendation	130,185	(18,608)	38,518		356,674
Difference	(830)	(15,203)	(2,250)		(28,171)

The difference in environmental cost is $110K.

When you compare the 2 actions for moves out of Hanscom with a combined run of the 2 actions, the differences are:

1-time cost (372), net implementation savings 453, recurring savings 26, NPV savings 670

When you compare the 3 actions going into Wright-Patterson with a combined run of the 3 actions, there is no difference between the totals for the 3 separate parts and the combined run.

When you add the Wright-Patterson to Hanscom move to the 3 actions into Wright-Patterson, some of the differences become significant; 1-time cost 1,512 net implementation savings (63) recurring savings 4,561 NPV savings 52,104

I have checked and rechecked the input data and cannot find any errors. I think the COBRA model does not handle the situation correctly when you have people moving in and out of a location in a scenario.

Tom, If you want me to, I will send you the individual COBRA runs for your review.

If you approve what I have done, I'll send the runs to Roy to prepare the cover document and get them into the sign-out process.

James Geith, CONTR
BRAC Technical JCSG Analytical Team
2511 Jefferson Davis Hwy, Suite 2200
Arlington VA 22202-3926
DSN 332-7294, Comm (703) 602-7294
james.geith@navy.mil <mailto:james.geith@navy.mil>
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TECH-22

Farrington, Lester, CIV, WSO-BRAC

From: Lawrence C. Schuette [schuette@enews.nrl.navy.mil]
Sent: Thursday, August 11, 2005 3:15 PM
To: lester.farrington@wso.whs.mil
Subject: Fw: paper for tele con

Hi Les

Here are the point papers in draft form.

VR
Larry

Lawrence C. Schuette, Ph.D. schuette@nrl.navy.mil
Code 5707.5 (202)767-6814
Naval Research Laboratory (202)767-6767 (fax)

-----Original Message-----
From: Carroll Thomas B (Tom) NPRI <CarrollTB@Npt.NUWC.Navy.Mil>
To: Lawrence C. Schuette <schuette@enews.nrl.navy.mil>
Sent: Thu Aug 11 08:44:23 2005
Subject: paper for tele con

This file contains TJCSG issue papers on:

Co-Locate Extramural Research Program Managers

Defense Research Service Led Laboratories

Create a Naval Integrated Weapons & Armaments Research, Development and Acquisition and Test an Evaluation Center

Maritime C4ISR RDAT&E

As of 11 Aug 0820, RDB

Co-Locate Extramural Research Program Managers

Commission intent : Modify the DoD recommendation to consolidate DoD research program managers at Bethesda, MD by deleting the recommended DARPA relocation

DoD Response:

KEYPOINTS:

· The DoD recommendation supports transformation, enhances force protection factors, and is financially viable. The recommendation:

o Postures the DoD for greater future flexibility in research program management and execution by creating a larger pool of managers

o Provides fiscal savings by consolidating program managers from seven sites to one site, giving economies of scale

o Allows the DoD to better leverage biological research at the National Institutes of Health

DISCUSSION: This recommendation:

· The relocation enhances technical synergy by co-locating research managers currently at commercially leased facilities in VA and NC. The end state will be one "Center of Excellence" for research program management, which should foster cooperation and coordination due to co-location

· DARPA, Office of Naval Research, Army and Air Force Research Offices, and elements of Defense Threat Reduction Agency are collocated in one physically secure location-this enhances force protection and improves technology synergy without removing separate identities of units

· The recommendation should provide $49M annual savings with $572M NPV.

· The Commission is questioning whether or not to include DARPA in the recommendation-we believe DARPA should be included. DARPA provides financial savings and including DARPA should allow DARPA's culture of innovation to positively improve the Service programs.

· There has been some Commission inquiries into using an alternate site-TJCSG position is the value comes from co-location of the personnel at a protected site.

RECOMMENDATION: The TJCSG believes that if the Commission removes DARPA from the recommendation, the entire recommendation should be cancelled

Defense Research Service Led Laboratories

Commission intent: Modify the recommendation by:

· Deleting the relocation of the Army Research Laboratory at White Sands Missile Range (ARL-WSMR), NM to Aberdeen Proving Ground (APG), MD

· Realigning Air Force Information Systems research from Wright Patterson AFB to Rome AFS, NY instead of the current Hanscom, MA AFB receiver.

· The commission key points are:

o Loss of intellectual capital of ARL-WSMR negatively impact .

o ARL-WSMR's mission is not synergistic with other missions at APG.

o Rome AFB currently houses Air Force information system research

DoD Response:

KEY POINTS:

· The DoD rationale for both actions the Commission is questioning was to create research, development and acquisition, and test and evaluation centers of excellence instead of single function centers; that principle is not supported by Commission alternatives

· There is no evidence that suggests cancellation of either action will be technically or financially positive for the DoD.

DISCUSSION:

· The concern of "brain drain" is always a consideration; however, both receiving sites in these actions (Aberdeen, MD and Boston, MA) have sufficient technical workforce to backfill any temporary losses.[AU1] <outbind://6/#_msocom_1>

o For the White Sands missile range move, two components will be relocated: battlefield environments (weather prediction and measurement) and the non-test and evaluation portion of the Survivability, Lethality Analysis Directorate (SLAD). Both functions are currently supported at Aberdeen

o For the Wright Patterson AFB move, the Boston area has sufficient IT people to backfill any losses due to attrition, more so than Rome AFS

· The original intent of the specific realignments in the DoD recommendation being questioned by the Commission was to take a small function and move it to a location with greater number of technical workers in that area, creating a "Center of Excellence" and positioning the DoD for future mission change. The Commission alternatives do not support "Centers of Excellence", but rather perpetuate small, stand-alone activities

RECOMMENDATION: Maintain the original DoD recommendation

Create a Naval Integrated Weapons & Armaments Research, Development and Acquisition and Test an Evaluation Center

Commission intent : Modify the DoD Recommendation to create a Naval Weaposn and Armaments Center of Excellence at

China Lake, CA by altering the proposed relocation of 1300 weapons technical personnel from Point Mugu, CA Naval Weapons Station to China Lake, CA Naval Weapons Center;

· The proposed alteration would leave approximately 250 technical people at Point Mugu to operate the weapons test sea range.

DoD Response:

KEYPOINTS:

· The DoD recommendation supports transformation and economies of scale by creating and strengthening a weapons center of excellence facility at China Lake

· The recommendation forwarded by the Secretary did not leave any weapons technical personnel at Pt. Mugu to operate the weapons testing sea range.

o This decision was based on certified data

o The Navy now contends they need about 250 technical people to remain to operate the sea range.

· If Commission recommends leaving a force of about 250 people at Mugu to operate the sea range, the interests of the DoD are met.

· There is no big impact cost savings or payback period if the 250 personnel are retained at Point Mugu-both scenarios would provide approximately $60M / year

DISCUSSION: The DoD recommendation:

· Creates a major Center of Excellence at China Lake, CA

· Relocates approximately 1300 weapons researchers from Pt. Mugu to China Lake; the personnel at both locations do similar work

· Based on certified data, the TJCSG did not leave any weapons researchers at Point Mugu; Navy now they need about 250 people at Pt. Mugu (Note: As of 11 Aug the Navy is still refining their estimate of the number of people needed)

· Moving the bulk of weapons researchers from Mugu to China Lake is consistent with transformation; TJCSG does not object to the Commission leaving a force behind to run the sea range.

RECOMMENDATION: Accept the altered Commission recommendation to retain technical personnel at Point Mugu if made; otherwise, retain DoD recommendation,

Maritime C4ISR RDAT&E

Commission Intent:

· Commission has questioned three movements in the subject recommendation

· Establish Pace and Warfare System Command (SPAWAR) Atlantic at Charleston, SC vice little Creek, VA

- Realign Maritime Information System RDAT&E from Dahlgren, VA and Newport, RI to Charleston, SC vice San Diego, CA

- Both of the above together

KEY POINTS:

· The original DoD recommendation sought to create Naval C4ISR Centers of Excellence by consolidating non-fleet specific research to SPAWAR, San Diego and fleet support to Norfolk (Little Creek) and San Diego.

· Commission alternatives maintain a more fragmented support structure

BACKGROUND:

- Commission based request on Charleston SC community input at a Regional Hearing

- DOD responses to Commission requests recommend no change to SECDEF Recommendations

o There were no significant COBRA differences between SECDEF Recommendations and Commission Alternatives

o SECDEF Recommendation better matches realigned mission to recipient than Commission alternatives

RECOMMENDATION:

- Continue to support SECDEF Recommendations

[AU1] <outbind://6/#_msoanchor_1> According to the Department of Labor, Maryland ranks first among the states with the highest percentage (24%) of professional and technical workers in the state's labor pool. In addition, in 2003 the US Department of Commerce found that Maryland is statistically tied with Massachusetts as the top state in the nation for educational attainment. Nearly 38% of Maryland's population 25 years of age and above have earned a bachelor's degree or higher. In the area of recruiting, there is a nationally recognized science and technology (S&T) workforce concentrated in and around Harford County, host to the APG. The testimony documented the vast market from which APG draws its skilled labor and the opportunity for employees throughout the Baltimore region, as well as from outside the State of Maryland, to commute to APG. Nearly half a million professionals working in the management, business, computer and mathematics, science and engineering sectors live within a 90 minute drive of APG. 90% of employees live in the State of Maryland - while 10% reside in nearby communities in Pennsylvania, Delaware, Virginia, Washington D.C. and even new Jersey.

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WSMR-ARL COMMUNITY RESPONSE

BRAC Commissioners Regional Meeting

Presented by

Garrey E. Carruthers

Representing

WSMR Community Response Team

Vice Provost for Economic Development, NMSU

Dean of College of Business, NMSU

Former New Mexico Governor

Clovis, New Mexico - June 24, 2005

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WSMR-ARL COMMUNITY RESPONSE

Request

Reverse the Department of Defense recommendation to realign the ARL activities from White Sands Missile Range to Aberdeen Proving Grounds

WSMR-ARL COMMUNITY RESPONSE

DOD BRAC Process Criteria

- Military Value
  - Test and Evaluation
  - Joint Service
  - Physical Assets
- Other Considerations
  - Cost
  - Environmental Impact

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WSMR-ARL COMMUNITY RESPONSE

ARL: Two Different Business Areas

WSMR

Business Areas
Electronic Warfare/Information Warfare
Supporting Test & Evaluation
- ECM, ECCM Development
- Field Support to tests conducted on range
- Signature Measurements
- Modeling & Simulation of EW and IW effects
- Verification & Validation

Customers
- Program Managers/Program Executive Officers
- Army Test & Evaluation Command

Stakeholders
- Test & Evaluation Management Agency
- Deputy Under Secretary of the Army (Operations Research)

Funding
- T&E

APG

Business Areas
- Basic/Applied Research
- Weapons & Materials Research
- Sensors & Electronic Devices Rsch
- Human Factors Engineering Rsch
- Computational & Information Sciences Research
- Vehicle Platform & Propulsion Rsch
- Ballistics Analysis supporting T&E

Customers
- Research, Development and Engineering Centers

Stakeholders
- Asst. Secretary of the Army (Acquisitions, Logistics & Technology)

Funding
- Research

Intersection

- Atmospheric Sciences Research

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WSMR-ARL COMMUNITY RESPONSE

US Army Research Laboratory at White Sands Missile Range

	Research: Battlefield Environment	Test & Evaluation Survivability/Lethality Analysis
Funding	6.1, 6.2 (Research) $12 million (FY 05)	6.6 (RDT&E Management Support) $120 million (FY 05)
Mission	Atmospheric Sciences	Survivability/Lethality Analysis
Population	42 civilians; 1 military; 8 contractors 51	117 civilians; 8 military; 38 contractors 163
Occupied Facilities (sq ft)	50,000	180,000
Office	35,000	50,000
Laboratory	15,000	60,000
Other	0	70,000
Unique facilities replacement costs	$2M	$60M
Cost of moving special equipment	$3M	$20M

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WSMR-ARL COMMUNITY RESPONSE

SLAD Organizational Synergies at WSMR

Development and insertion of communications model to Combat XXI. Development and insertion of EW/IW effects to CASTFORUM/Combat XXI.

Evolution of CM techniques from low energy lasers to high energy lasers.

Provide Electronic Counter Measure support for F-22 program.

Supporting development of Kill Assessment methodology.

SLAD
SURVIVABILITY/LETHALITY ANALYSIS DIRECTORATE

Leverage threat based ARL-developed Counter Measure, CM materiel, technology and methods for tri-service applications. Leverage ARL-planned, system-specific tests and evaluations for CM effectiveness assessment.

Assessing airborne electronic Counter Measures. Verification of air & missile defense Counter-Counter Measure algorithms.

Piggyback on tests conducted on the range.

Development of nodes for WSMR virtual test range to support vulnerability assessments of Future Combat Systems.

Provide Infra-red and Electronic Counter Measure support to developmental and operational testing of Army (and foreign national) air defense missile systems.

Development of Radio Frequency and Infra-red counter-measure models for inclusion in element/system models.

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WSMR-ARL COMMUNITY RESPONSE

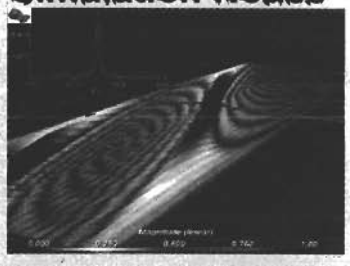
SLAD Technical Synergies at WSMR

Signature Measurements

ICE

Electro-Magnetic Vulnerability Assessment Facility

EW Modeling and Simulation Nodes



Field support to T&E

Electro-Optical Vulnerability Assessment Facility

Information Operations

Hardware-In-The-Loop

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WSMR-ARL COMMUNITY RESPONSE

Other Southwest Synergies

Physical Science Laboratory
New Mexico State University

New Mexico Tech
SCIENCE•ENGINEERING•RESEARCH•UNIVERSITY

ARMY TRANSFORMATION

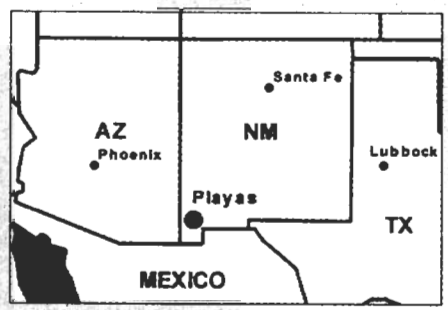
CTSF, Ft. Hood, TX

NEW MEXICO STATE UNIVERSITY

SLAD ARL
SURVIVABILITY/LETHALITY ANALYSIS DIRECTORATE

DEPARTMENT OF THE AIR FORCE
UNITED STATES OF AMERICA

Kirtland Air Force Base
Holloman Air Force Base



Playas, NM

Sandia National Laboratories

U.S. ARMY YPG

Yuma Proving Ground, AZ

Los Alamos NATIONAL LABORATORY

WSMR-ARL COMMUNITY RESPONSE

Location Characteristics Supporting the SLAD EW/IW T&E Mission

WSMR, NM	APG, MD
Test range and existing T&E infrastructure provide "real-world laboratory" supporting EW/IW analysis mission	Ballistic testing location does not support SLAD-WSMR mission
Capability for numerous systems testing (FCS, radars, missiles, etc.)	No such opportunities exist
Instrumented to support SLAD-WSMR mission	No instrumentation supporting SLAD-WSMR mission
Proximity to customers, stakeholders, and partners	No surrounding test ranges, facilities, resources to leverage
Dedicated, unrestricted airspace ←	Air space heavily restricted
Unrestricted use of electromagnetic spectrum outdoors	Restricted use of electromagnetic spectrum
No encroachment	Surrounded by growth communities
Desert and mountainous terrain	Wooded terrain
2.2 million acres	72,000 acres (26,000 are water)

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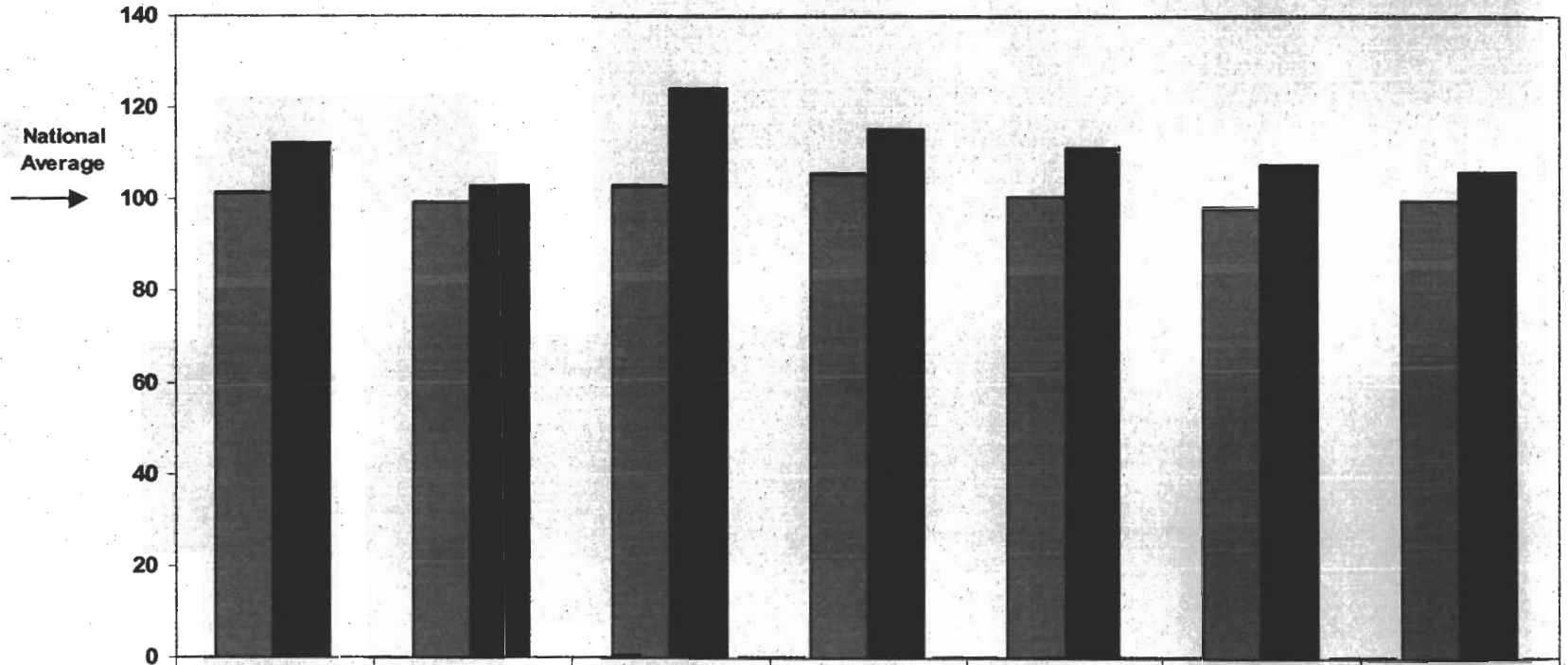
WSMR-ARL COMMUNITY RESPONSE

Community Assessment - Southern NM vs Maryland

ACCRA Cost of Living Index
1st Quarter 2005



	Composite Index	Grocery Items	Housing	Utilities	Transportation	Health Care	Misc. Goods & Services
Las Cruces	101.4	99.5	102.9	105.6	100.9	98.3	100
Baltimore	112.4	102.9	124.3	115.5	111.7	107.5	106.1

Source: American Chambers of Commerce Research Association
Summarized by Mesilla Valley Economic Development Alliance

WSMR-ARL COMMUNITY RESPONSE

SLAD-WSMR: A Business Proposition

- SLAD-WSMR meets DOD BRAC process criteria for remaining at White Sands Missile Range
- Premier T&E facility has supported and enhanced national defense capability for 52 years
- Local and regional synergies are critical to operational and cost effectiveness as well as DOD Joint Transformation objectives
- Expansiveness and lack of encroachment at White Sands Missile Range is essential to current and future mission capabilities
- Physical relocation to APG could irreparably degrade national defense capabilities

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WSMR-ARL COMMUNITY RESPONSE

Request

Reverse the Department of Defense recommendation to realign the ARL activities from White Sands Missile Range to Aberdeen Proving Grounds

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WHITE SANDS MISSILE RANGE

A PLACE FOR TESTING, EVALUATIONS & RESEARCH SYNERGY SINCE 1945

WSMR-ARMY RESEARCH LAB

REALIGNMENT

Official Report From the Community June 24, 2005

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WSMR-ARL COMMUNITY RESPONSE

WSMR-ARL BRIEFING BOOK

Table of Contents

0. Introduction PAGE 1

I. Executive Summary PAGE 2

II. WSMR-ARL – Synergy at its Best – The History of ICE PAGE 4

III. BRAC Recommendations and Criteria PAGE 6

IV. History of WSMR-ARL PAGE 9

V. a. Community Response: WSMR-ARL Asset Evaluation vs. MD PAGE 11

b. Community Response: Technical Report Analysis PAGE 15

c. Community Response: Environmental Assessment – WSMR vs. MD PAGE 16

d. Community Response: Community Assessment – Las Cruces vs. MD PAGE 19

e. Community Response: Military Value – WSMR Synergy PAGE 22

VI. Recommendation for Expansion of WSMR-ARL PAGE 28

VII. Conclusion PAGE 29

VIII. Regional Supporting Documents PAGE 32

DCN:11677

WSMR-ARL COMMUNITY RESPONSE

INTRODUCTION 0.

On May 13, 2005, the Department of Defense presented their Analysis and Recommendations for the Base Realignment and Closure Commission. Within those recommendations, White Sands Missile Range in Southern New Mexico was impacted by the following excerpt:

> *"Realign the Army Research Laboratory WSMR, NM by relocating all ARL activities except the minimum detachment required to maintain Test and Evaluation (T&E) functions at WSMR, NM to Aberdeen Proving Ground, MD." (p. 22, Section 10, The "Base Closure and Realignment Report", Volume 1, Part 2 of 2: Detailed Recommendations, May, 2005)*

Las Cruces, New Mexico, Alamogordo, New Mexico and El Paso, Texas were all impacted by this announcement which we, as community members, feel warranted a response. The following document is a culmination of the work of the WSMR Community Response Team, which formed to investigate how this specific recommendation was arrived at and communicate our community's response to the BRAC Commission and its staff.

The WSMR Community Response Team is a volunteer based committee of community leaders who have lent their time and efforts because they feel the decision to realign the activities of the Army Research Lab at WSMR is not in the best interested of the Department of Defense or the Nation as a whole. Their efforts, presented within, are a result of an analysis into the initial recommendation above and represent a review of the assets used by the Army Research Lab at WSMR and the value that they bring to both the Department of Defense and the Southern New Mexico Community.

Members of the WSMR Community Response Team include:

Dolores Archuleta	Hotch Manning
Paul K. Arthur	Bill McCamley
Jonathan Benson	Donna McClanahan
Jim Berry	Dave McCollum
Don Birx	Sherman McCorkle
Ed Carr	Fred Mobley
Garrey Carruthers	Matt Olsen
Bill Connor	Stuart Purviance
Dolores Connor	Steve Ramirez
Susie Cordero	Rebecca Rizzuti
Todd Dickson	Lonnie Sumpter
Charles Ferrell	Steve Vierck
David Gottula	David Wilson
Bill Gutman	Ben Woods
Tom Hutchinson	David Ikard

A special thanks goes out to the New Mexico Congressional Delegation, the Governor of New Mexico's Office and Hanson Scott of the New Mexico Office for Military Base Planning and Support for their support and assistance in developing the response include within these pages. Their non-partisan leadership in this endeavor represents the best of New Mexico governance.

WSMR-ARL COMMUNITY RESPONSE

EXECUTIVE SUMMARY

I.

In analyzing the Department of Defense Recommendations to the BRAC Commission, there are four important points that have helped to illustrate why the recommendation to realign Army Research Lab activities at WSMR would not be in the best interest of the Department of Defense. Those points are:

Testing and Evaluation vs Research.
WSMR – Department of Defense Synergy vs Business / Research Synergy
BRAC Criteria Evaluation
Purple - The Color of Choice for DoD's Future

Testing & Evaluation vs Research

WSMR-ARL is basically made up of two different organizations – one is the Computational & Information Sciences Directorate (CISD), which is meteorologically based research organization. The second is the Survivability/Lethality Analysis Directorate (SLAD), which is a Testing and Evaluation organization, with an emphasis on electronic and information warfare. The difference between the missions of these two organizations gets to the heart of our argument for keeping the ARL activities at WSMR. 98% of SLAD's Electronic Warfare/Information Warfare capability directly supports the Army's Test and Evaluation functions.

The SLAD testing and evaluation mission does not mesh with the mission of research for the ARL mission at Aberdeen. The type of budget funding indicates that there is not a correlation between the two organizations (SLAD is a 6.6 funded organization, ARL research is mainly funded with 6.1 or 6.2 monies). Even if the organizations were moved, the difference in the operational structure of these organizations means they could not take advantage of business synergies. In essence, they would still be operated as separate entities.

WSMR-Department of Defense Synergy vs Business/Research Synergy

The synergy in place at WSMR can be best described as a work culture developed over decades of commitment providing the best equipment for our Department of Defense personnel. It is a culture that was first established at WSMR in the 1950's and is devoted to maintaining the preeminent Electronic Warfare/ Information Warfare complex available to the Department of Defense. A move to Aberdeen Proving Grounds, MD would result in the damaging the unique military value of this WSMR culture.

Why is this culture so important? Through decades of work at the WSMR world class facilities, these engineers and scientists have developed a unique expertise and knowledge base that would be nearly impossible to replicate. The unique problem solving and critical thinking processes used by these experts are only learned through years of experience. These decades of expertise has also translated into a regional synergy through the development of working relationships with regional contractors, government organizations (i.e. Sandia National Laboratory, Los Alamos National Laboratory) and universities (i.e. New Mexico State University, New Mexico Tech). It is documented that labor cost savings from past realignments came from those who chose not to relocate, with those positions not being filled at the new locations. During the current uncertainty within the world landscape, it seems that our nation cannot afford a loss of this critical knowledge base.

This synergy at WSMR-ARL is best shown in its versatility in developing, testing and evaluating a number of countermeasure and counter countermeasure devices. Examples, such as ICE (Improvised explosive device Countermeasure Equipment) are documented to show that the existing environment at WSMR help develop devices that have saved the lives of US Marines and Soldiers in the current theatre of operations, have done

so at a relatively low cost to produce and were done so in an unprecedented timeframe. A definite win-win situation for the Department of Defense and a direct result of the synergy at WSMR. This is just one of a number of examples of the invaluable results developed by having ARL at WSMR.

BRAC Criteria

This recommendation also has the fault that it was not made consistent with the DoD's own BRAC data. The final BRAC criteria emphasized the military value and cost savings as the basis for the realignment or closure recommendations. Our analysis has shown that because of the higher cost of living standard in Maryland, as opposed to Southern New Mexico, there would be no cost savings associated with the realignment to Maryland. Also, the unique electronic warfare testing and evaluation work performed at WSMR simply cannot be done in Maryland. The absence of encroachment issues, especially as it pertains to the radio frequency spectrum, makes WSMR the ideal location for electronic and information warfare testing and evaluation. This type of testing would not be available anywhere on the east coast.

Since ARL SLAD at WSMR is a T&E entity it was submitted as such through higher headquarters for BRAC planning. It appears that a subjective decision was apparently made at some point in the process to simply declare ARL SLAD an RDA asset solely because it's parent organization is a research laboratory. This declaration is inconsistent with present practice, with ARL SLAD program planning and reporting channels, and with ARL SLAD funding.

Purple – The Color of Choice for the Future of the Department of Defense

The basis of the 2005 BRAC was to reduce excess capacity (reduce operating cost by consolidation), to transform to be more joint service orientation in daily operations in order to facilitate efficiencies and interoperable warfare, and to effect an overall transformation of the Department of Defense to address changes in threats facing the Nation today and into the future.

If taking the BRAC Criteria to heart, it would seem that WSMR should have been an overall gaining location within the BRAC. WSMR was initiated as a joint test range and is the only and the largest one with all services represented and has shown the ability for joint operations and efficiencies through share resources. Many missions and weapons systems of the Air Force, Army and Navy come to WSMR for long-range test and training. With WSMR already identified as one of the preeminent locations for the testing of the Future Combat Systems, having more of an ARL presence at WSMR would be in the best interest of the Department of Defense.

One last, but equally important point that could not have been taken into consideration when looking at individual military installations is the regional relationship already in place between WSMR, Holloman Air Force Base (HAFB) and Ft. Bliss, Texas. Together, these military installations comprise the largest area of Department of Defense controlled land and airspace. Through their continuing joint training, testing and evaluation, these three military installations have proved, over and over, that joint military exercises and cooperation can provide our military with a decided advantage of our enemies. With the already announce expansion of troops at Ft. Bliss and the announced future J-UCAS program at HAFB, an expansion (not realignment) of the ARL activities should be planned for at WSMR.

WSMR-ARL COMMUNITY RESPONSE

WSMR-ARL – SYNERGY AT ITS BEST – THE HISTORY OF ICE

II.

WSMR-ARL/SLAD's work in support of current operations is principally the development and fielding of the Improvised Explosive Device (IED) Countermeasure Equipment (ICE), which is being fielded in large quantities. The history of ICE provides an excellent example of the synergy existing at WSMR, which when exploited, is shown to provide lifesaving technology to current areas of conflict. The development of ICE was solely the result of the knowledge and expertise of the WSMR-ARL personnel. To that extent, WSMR-ARL/SLAD has become a program manager for this particular program.

ICE could not have been designed, developed, tested and fielded in unprecedented record time had it not been for SLAD's location at WSMR. Unconstrained use of the electromagnetic spectrum at WSMR allowed for unrestricted open air testing during the development of ICE. This was critical for rapid development of the system. The existing WSMR infrastructure containing facilities for environmental testing and shock & vibration testing were instrumental to getting ICE quickly certified for deployment. The local availability of engineering and field support from PSL, NMSU, was an essential component for the successful development. The system design jointly developed by WSMR-ARL/SLAD and PSL engineers is being patented. The knowledge and corporate technical expertise leveraged to develop this system is a result of the many decades that SLAD and its predecessor organizations at WSMR have been designing and developing Electronic Warfare jammers. The proximity to Yuma Proving Ground (YPG) where the Army conducts formal testing of systems such as ICE was another major factor for the rapid fielding. Additionally, two of three ICE high rate manufacturers are in the Southwest (Albuquerque, NM) so the important ties are all in the Southwest. It has been the local and regional synergy that has allowed the rapid development of a protective device that is currently saving the lives of soldiers of in current operations.

The timeline provided below indicates the rapid development and the local synergy that enabled the quick production of ICE.

Nov 2003: WSMR-ARL/SLAD begins developing ICE conceptual design.
Dec 2003: WSMR-ARL/SLAD successfully tested an initial engineering prototype. Then the program was shut down for political reasons. Army had already funded a IED counter measure project through EDO and it was erroneously thought that this was duplicate technology.
April 2004: Project revived by task force after WSMR-ARL/SLAD staff took prototype box to Pentagon for show-and-tell. USMC immediately interested.
May 2004: 6 first article prototypes tested at Yuma Proving grounds. USMC places order for 450 units.
June/July 2004: PSL of NMSU designated the Low Rate Manufacturer. WSMR-ARL/SLAD searches for High Rate Manufacturers.
Aug 2004: First HRM contracts placed. 2 of 3 HRMs are located in Albuquerque, NM.
Sep 2004: First units fielded in Iraq
Oct 2004: First HRM units successfully undergo test.
Nov 2004: HRMs begin delivering quantities of 30-50 units per week. Army orders 3000 additional units.
Feb 2005: USMC orders additional units. WSMR-ARL/SLAD, working through PEO, is actively designing upgrades for emerging threats.

Mar 2005: HRMs delivering in quantities of 100-125 per week.
May 2005: Over 2500 units fielded with only 3 returns. 2 of the 3 returns were due to combat incidents. Over $30M in high tech (engineering and manufacturing) contracts paid in the Albuquerque area since Aug 2004. $7-$8M in high tech contracts to the Las Cruces area over same time period. These contracts leveraged additional technical expansion in the Albuquerque/Rio Rancho and Las Cruces areas.
June 2005: WSMR-ARL/SLAD receives "Army Greatest Invention of the Year Award" for it's rapid response to the IED threat.

As mentioned above, several NM companies have been instrumental in the rapid deployment of ICE technologies.

The Physical Sciences Laboratory of NMSU (PSL) worked closely with ARL/SLAD on certain aspects of the design. They built the initial prototypes and continue to serve a role as WSMR-ARL/SLAD's "Low Rate Manufacturer" (LRM) for ICE. In addition, they are working closely with WSMR-ARL/SLAD on upgrades and accessories to ensure that ICE continues to meet emerging threats.

There are two New Mexico based companies that were selected by WSMR-ARL/SLAD as "High Rate Manufacturers" along with a major national defense contractor, WSMR-ARL/SLAD felt that it was critical to select HRMs within a close radius as the technology was moving so rapidly from prototype to production phases, that close collaboration and oversite were required. For example, early in the manufacturing phase, manufacturing processes and instructions were still being fine-tuned. WSMR-ARL/SLAD could request both New Mexico companies to travel to WSMR within 24 hours to attend training sessions and joint QA reviews. In this manner, production was able to proceed extremely rapidly through a normally very difficult phase of product lifecycle. It is also worth noting that, while the major national company brings considerable Defense Contractor strength to the HRM team, the New Mexico based companies are able to manufacture the units at a considerably reduced price.

Both of the New Mexico based companies are ISO 9001:2000-registered manufacturing facilities. They both bring different specialties to the table; one provides a broader range of in-house manufacturing services, such as cable assembly and Printed Wiring Board Assembly (PWAs). The other New Mexico company subcontracts the cable and PWA assemblies, but provides a broader range of engineering services to WSMR-ARL/SLAD. All of these companies have participated in a "manufacturing prototype" process for ICE upgrades that could lead to further contracts (therefore further hiring and capital improvements). Close proximity to WSMR-ARL/SLAD was key to being able to participate in the prototyping of upgrades as the designs are evolving daily.

"Realign the Army Research Laboratory White Sands Missile Range, NM, by relocating all Army Research Laboratory activities except the minimum detachment required to maintain the Test and Evaluation functions at White Sands Missile Range, NM, to Aberdeen Proving Ground, MD."

The excerpt above, from the Technical Joint Cross-Service Group (TJCSG) Recommendations to the BRAC Report for 2005.

Back in February, 2004, the Department of Defense established the BRAC Selection Criteria, in which all Department of Defense facilities would be judged on. In selecting military installation for closure or realignment, the Department of Defense, giving priority consideration to military value (the first four criteria below), will consider:

Military Value

- The current and future mission capabilities and the impact on operational readiness of the total force of the Department of Defense, including the impact on joint warfighting, training and readiness.

- The availability and condition of land, facilities, and associated airspace (including training areas suitable for maneuver by ground, naval, or air forces throughout a diversity of climate and terrain areas and staging areas for the use of the Armed Forces in homeland defense missions) at both existing and potential receiving locations.

- The ability to accommodate contingency, mobilization, surge and future total force requirements at both existing and potential receiving locations to support operations and training.

- The cost of operations and the manpower implications.

Other Considerations

- The extent and timing of potential costs and savings, including the number of years, beginning with the date of completion of the closure or realignment, for the savings to exceed the costs.

- The economic impact on existing communities in the vicinity of the military installations.

- The ability of the infrastructure of both the existing and potential receiving communities to support forces, missions and personnel.

- The environmental impact, including the impact of costs related to potential environmental restoration, waste management and environmental compliance activities.

In the Technical Joint Cross Service Groups Analyses and Recommendations Report to the BRAC Commission, the TJCSG provide a differing version of their decision criteria. The TJCSG evaluated Department of Defense installations that performed the Research; Development and Acquisition; and Test and Evaluation (RDAT&E) functions. The research function included basic research, exploratory development, and advanced development. The development/acquisition function included system development and demonstration, systems modifications, experimentation and concept demonstration, product/in-service life-cycle support and acqui-

sition. The test and evaluation function included the formal developmental test and evaluation (DT&E) and the formal operational test and evaluation (OT&E).

To guide its analysis and recommendation development, the TJCSG established two principles and an overarching strategic framework. The two principles were:

- Provide efficiency of operations by consolidating technical facilities to enhance synergy and reduce excess capacity, and;

- Maintain competition of ideas by retaining at least two geographically separated sites, each of which would have similar combination of technologies and functions. This would also provide continuity of operations in the event of an unexpected disruption.

Consistent with these two principles, the TJCSG used the strategic framework to establish multifunctional and multidisciplinary technical (RDAT&E) Centers of Excellence which should provide the scientific and technical advances to enable the Department to develop capabilities and weapons that are technologically superior to those of potential adversaries into the future. The multifunctional and multidisciplinary nature of the Centers of Excellence should allow more rapid transition of technology and enhance integration of multiple technologies. The Centers of Excellence will be complemented by the Department's existing technical facilities that have a disciplinary focus.[1]

The TJCSG also recognized that to effectively accomplish the Department's RDAT&E functions, key partners outside of the Department of Defense are essential, and include other government organizations, industry, universities, and the international community. Finally, the rapidly changing and uncertain environment of the 21st century required that the TJCSG analysis and recommendations ensure that surge capability would be available for the future Defense RDAT&E infrastructure.

TJCSG recommendations provide the Department Centers of Excellence in the following three areas: Defense Research Laboratories; RDAT&E Centers; and Integrated Command, Control, Communications, and Computers and Intelligence, Surveillance, and Reconnaissance (C4ISR) Centers.

These recommendations provide the Department Centers of Excellence in the following three areas:

- Defense Research Laboratories, whose functions include, but are not limited to, basic and applied research. Combined research laboratories are inherently multidisciplinary.

- Integrated Research (R), Development and Acquisition (D&A), and Test and Evaluation (T&E) Centers across DoD technology areas that are involved with maturing platforms and capabilities. This includes Land, Maritime, Air, and Space platforms; Weapons and Armaments; and Chemical-Biological Defense Systems.

- Integrated Command, Control, Communications, and Computers and Intelligence, Surveillance, and Reconnaissance (C4ISR) Centers intended to enable advances to joint battlespace awareness capability with a joint program management office and RDAT&E domain centers for land, maritime, air and space. This infrastructure should enable a future joint management structure.

Conclusion and Comments

The idea of bringing these two sets of criteria within this report was to highlight their differences. The Department of Defense's BRAC criteria was clearing looking at the military value, with potential cost savings being just one part of the total criteria. The criterion used by the TJCSG to develop its recommendations was based on the preconceived ideas that the combining all "like disciplines" would create a synergy of savings. They also are under the illusion of creating new "Centers of Excellence" by moving individuals to central location. This doesn't take into account that the current Testing and Evaluation directorates have already developed their own Centers of Excellence and have built the facilities that have allowed them to excel.

If the TJCSG would have used the BRAC criteria as the basis for the decision making process, they would not have considered moving a relative low cost, highly technical, encroachment free Test and Evaluation organization to a higher cost, space limited location. We feel that proper implementation of the BRAC criteria could have resulted in quite the opposite – the expansion of ARL's role at WSMR to take advantage of the excellent range capabilities, top-flight facilities and future joint operations expansion. It is apparent that the Department of Defense objectives set out by the BRAC criteria was not goal to be met by those who recommended the relocation of the WSMR-ARL activities.

[1] Multifunction refers to those activities that perform more than one function (research, development and acquisition, and test and evaluation). Thus, a center that performs research and development and acquisition (RD&A) is multifunctional. Multidisciplinary refers to activities that operate in more than one technical discipline. For example, a center that conducts electronics, materials, and human factors research is a multidisciplinary research center. The BRAC recommendations enhance the multidisciplinary nature of the research laboratories.

ARL has two basic expertises at WSMR: Meteorological & Electronic Warfare/Information Warfare (EW/IW) survivability analysis and vulnerability assessments. All of the EW/IW capability directly supports the Army's Test and Evaluation (T&E) functions.

SLAD is the Army's primary source of survivability, lethality, and vulnerability (SLV) analysis and evaluation support, adding value over the entire life cycle of an Army system (ie from cradle to grave) Its main reason for being is to ensure that our soldiers and their systems can survive and function on any defined battlefield. SLAD is committed to assisting the Army in achieving its modernization goals by helping to acquire systems to help its soldiers survive in all environments against the full spectrum of battlefield threats. SLAD's value to the Army is based upon its unique SLV scientific and engineering skills and its unique analytical tools, used to conduct SLV investigations, simulations, and lab/field experiments.

Mission and Functions

- Conduct investigations, experiments, simulations, and analyses to quantify SLV of Army and selected foreign weapon systems.
- Perform special studies and make recommendations regarding tactics, techniques, or design modifications to reduce vulnerability and enhance survivability and lethality of Army materiel.
- Provide advice/consultation on SLV issues to HQDA, PEOs/PM's, evaluators, combat developers, battle labs, intelligence activities, and selected of DA and DoD activities.
- Provide well-documented, timely technical judgments on complex SLV issues.
- Develop tools techniques, and methodologies for improving analyses.

SLAD has 6 branches at WSMR performing electronic warfare (EW) and information warfare (IW) analysis in support of Army T&E. Principal business areas for these branches are: support of current operations, Air and Missile Defense, Ground Combat Systems, and IW analysis.

SLAD's work in support of current operations is principally the development and fielding of the Improvised Explosive Device (IED) Countermeasure Equipment (ICE) which is being fielded in large quantities. ICE, which will be discussed in more detail in a following section, could not have been designed, developed, tested and fielded in unprecedented record time had it not been for SLAD's location at WSMR. Similar dynamics are also occurring on other SLAD efforts such as on Man Portable Air Defense issues.

Historically, Air and Missile Defense T&E for the Army has taken place principally at WSMR. SLAD has always provided countermeasure support, modeling, and analysis for the Army's Air and Missile Defense missions. This will continue. WSMR has been designated as joint test range that will be supporting T&E for not only the Army's Future Force to include FCS but DoD requirements as well. SLAD has postured itself to provide the necessary EW and IW countermeasure support, modeling and analysis capability for all testing being planned for WSMR. All the synergy is at WSMR for this part of SLAD's mission.

Ground Combat Systems T&E for many Army systems takes place at WSMR, particularly for the EW analysis that is SLAD's mission. Over the years, SLAD has piggybacked on many of the tests conducted at WSMR providing experimental and analytical support to this T&E mission in signatures, countermeasures, laser testing and analysis. This synergy has saved the Army millions of dollars. This support is provided not only to Army testers but also to the OSD Center for Countermeasures, WSMR, which has a mission closely related to that of SLAD. In addition, technically sophisticated modeling and simulation support on aerosols and obscu-

ration has routinely been provided to the Army's force level models at TRAC, WSMR. All the synergy for this part of SLAD's mission is at WSMR.

Information Warfare (IW). SLAD has an elaborate laboratory facility at WSMR for this work, and ground will be broken this fiscal year on a $33M anechoic chamber to support sophisticated IW and EW investigations. For several years, SLAD has been providing significant IW modeling and simulation support to TRAC, WSMR. SLAD is also principal IW T&E provider for the CTSF, Ft. Hood, TX and will be IW T&E element for WSMR's virtual proving ground. SLAD has an important feeder program to attract scarce talent in the IW area with NM Tech which is certified as IA Center of Excellence University. Finally, in Fiscal Year 2005 SLAD conducted IW testing on the FCS SOSCOE and will be supporting FCS T&E testing at White Sands beginning in FY08. The important synergies for SLAD's IW mission are at White Sands Missile Range and in the Southwest.

As WSMR plans and develops its virtual proving ground, SLAD is postured to provide important components such as an IW node, a hardware-in-the-loop node, an radio frequency directed energy node and a laser effects node. These nodes will provide countermeasure modeling and analysis capabilities to the test range that are essential for the robust evaluation of the systems that will be tested at WSMR.

The meteorological responsibility of WSMR-ARL is currently under the guidance of the Battlefield Environment Directory (BED). Originally established as the Atmospheric Sciences Laboratory in 1969, the mission today is much like it was when it was first established;

1. Perform research in support of critical Army needs with respect to missile delivery systems, artillery accuracy, communications, and intelligence;
2. Develop instrumentation and methodologies in support of Test and Evaluation;
3. Conduct tests and evaluations of atmospheric effects on Army materiel;

The current division focuses on three main thrust areas: Atmospheric Sensing, Met Modeling and Atmospheric Effects. Much of the Met Modeling is performed at WSMR and the results of the Atmospheric Effects research are tailored to fit specifically on the Army's Integrated Meteorological System (IMETS). The IMETS is the only system currently deployed with the active Army that integrates battlefield meteorological data with other intelligence products for use by Army intelligence personnel. The IMETS is highly unique amongst the services in addressing meteorological scales and resolutions, one kilometer or less, in which the Army fights. This is opposed to the much larger scales as is typical for most forecast models: national/global scales, i.e., 25 kilometers or greater!

There is no other organization within the DOD, university community, or the private sector that is working on these specific Army-centric problems. Relocating the 40 or so ARL BED scientists to ALC, MD will have a detrimental effect on this critical scientific research program. It is not that the work can't be performed there, it can. The loss will come from the expected attrition of scientists who simply will not move because it is not in their interest, professionally or financially, to do so. Their work is such that losing their expertise will require years to be rebuilt. One cannot take a recent graduate from university ranks and provide them with the experience and skills built up over the years. The net result will be a nearly complete loss of critical skills to the Army and it's ability to leverage many aspects of its intelligence technology on the battlefield.

ARL at WSMR Asset evaluation & replication potential

One of the biggest questions that must be asked in analyzing the possible realignment of the WSMR-ARL activities is what becomes of the assets and facilities used at WSMR by the ARL staff. If those assets must be moved to APG, they must be done at a great expense to DoD, must be located within the APG real estate (if possible) and must be done in such a way that minimizes the down time for the asset. The following discussion of the WSMR-ARL evaluates their uses and the challenges for attempting to replicate the asset and its functions in APG, MD.

Electro-Optical Vulnerability Analysis Facility

The ARL SLAD Electro-Optical Vulnerability Analysis Facility (EOVAF) is the premier facility in the Army and DoD for the performance of low energy laser vulnerability analyses this includes the measurement of optical augmentation signature, laser jamming and damage susceptibility, and level of eye protection where optical augmentation is the military use of the active laser signature of an optical device to locate the device and associated platform in the battlefield (the phenomena at work in optical augmentation detection is equivalent to that seen in the red-eye effect in photography). It is in this area that the EOVAF has developed highly specialized broadband measurement capabilities and expertise that does not exist elsewhere. The EOVAF has a history of performing low energy laser vulnerability evaluations that dates back over 20 years to the beginning of the Army laser hardening program. It has been instrumental in developing the measurement methodologies used in the Army and elsewhere to evaluate the level of laser hardening of optical systems. Evidence of this can be seen in the fact that significant expertise has been shared with both the Air Force and the Navy in recent years.

The EOVAF facility is currently located at a remote site at WSMR. The primary reasons for the location of the EOVAF at this remote site are:

- It allows for the convenient use of outdoor laser ranges adjacent to the laboratory facility. Location away from populated areas is critical due to safe-eye distances exceeding 40 km for some laser sources. The laser ranges, of which has a line of sight of 2.6 km, the other a line of sight of 20+ km, have been sought after both by foreign allies as well as intelligence services looking for a remote location for testing.
- Hydrogen fluoride/deuterium fluoride (HF/DF) laser used for laboratory low energy laser measurements. This laser source emits hazardous gases, which although scrubbed before venting to the atmosphere, is not suitable for operation in a populated area. Prior to initial operation of the laser, lengthy EPA and State environmental approvals were required and subsequent monitoring even in the remote location at WSMR at which the EOVAF is located.

In addition to the need for remoteness for the performance of laser evaluations, the EOVAF additionally has critical ties to WSMR including the team responsible for evaluating Small Arms Systems as wall as others. The location of the EOVAF at WSMR allows for a one-stop shop for technical testing of these assets.

Electro-Optical Countermeasure Missile Flight Simulation Facility (HWIL)

This facility was started in the early 1970's to evaluate effectiveness of Man Portable Air Defense Systems (MANPADS). From the beginning, the EOCMMFSF mission is concentrated on countermeasures, CM, (techniques to defeat the missile) and counter-countermeasures, CCM, (techniques to harden the missile against CM). In many cases, the EOCMMFSF has been in the forefront in CM and CCM and simulation techniques for hardware-in-the-loop (HWIL) missile simulations. The TIG (Target Image Generator), the SPOFC (Stinger-POST Flare Controller), the TIS (Target Image Simulator), and the UNDEGE (Unique Decoy Generator) are just a few examples of specialized electronic devices that have been innovated and have pushed the state-of-the-art in HWIL missile simulations that have been conceived, designed, and built at the EOCMMFSF at WSMR.

To properly evaluate these CM (And CCM) techniques, HWIL simulations are required -simulations that have been verified, validated, and accredited (VV&A). Verification is a process of ensuring that the simulation models correctly perform their intended task. Validation is a process that compares simulation results to actual missile live firings done at WSMR-does the simulated missile perform the same in the simulation as in actual flight including the same flight path and the same location of impact on the target. Accreditation is the process where a body of experts, after reviewing data in fine detail, declares that the simulation is correct and true and can provide good performance predictions. The EOCMMFSF at WSMR has the only VV&A'd missile simulation of Stinger-BASIC for both the benign case and the CM case with jamming and/or flares.

The EOCMMFSF has performed many simulation studies, typically involving over 100,000 simulated flights per study, for various organizations including CM developers, military aircraft developers, VIP aircraft developers, foreign governments, and other industrial and governmental organizations.

The follow-on to the Redeye missile is the Stinger-BASIC missile. This in turn was followed, with further development, with the Stinger-POST, Stinger-RMP, and Stinger-Block 1. All of these follow-ons principally occurred for advanced CCM techniques. Other foreign nations also have designed and built MANPADS which resulted in the US expending considerable efforts designing and building CM for these missiles. The EOCMMFSF has HWIL simulations for many of these systems (foreign and US) and has played a key role in evaluating many of these CMs.

In the mid 1990's, the simulations at the EOCMMFSF showed that for a special CM technique, the missile would perform in a totally unexpected behavior-a behavior that would go beyond the measured region for one of the models. In fact, after a peer review stated that the manifestation was highly unlikely, the EOCMMFSF invited the peers, other MANPADS experts, to visit the facility and show where the simulation was in error. Such a review did take place and all systems and subsystems were rechecked and found to be in VV&A compliance. So, being located on a missile range, the EOCMMFSF devised a set of live missile firings that would either demonstrate the unexpected missile behavior or show that the simulation was indeed faulty. The firings were conducted and the missile did perform as predicted by the simulation and thus beyond the valid region of one of the models. EOCMMFSF then analyzed the telemetered missile signals from the flying missiles and the date from WSMR and devised a new model to incorporate this region of unexpected behavior. This new model is now the standard model for this particular MANPADS.

Currently, the EOCMMFSF is working on a relatively low cost CM technique that perhaps could afford protection of any aircraft against MANPADS. To date, this very novel technique has been demonstrated in the laboratory and in a series of outdoor experiments on WSMR. For reasons that are too sensitive to explain here, the continued testing and development of this technique will require further testing on WSMR because of the unique environment offered by WSMR. The Department of Defense is very interested in the results of these experiments and the possibilities that this technique could provide. This technique would perhaps be even more applicable to the Department of Homeland Security during our current War on Terrorism.

Radar Target / Jammer Simulator (RTJS)

The Radar Target/Jammer Simulator (RTJS) is a mobile, reconfigurable system developed and employed by ARL/SLAD to exercise deployment-ready radar systems in the field by providing simulated radio frequency (RF) radar target signal returns along with a coordinated jammer signal environmental. It operates independently in the far field of radar under investigation, exercising the radar's complete signal chain including its antenna.

The RTJS is a cost-effective tool used in vulnerability assessments of radar performance in a repeatable, real-world field Electronic Warfare (EW) environment without requiring investigators to make simplifying assumptions about the radar's antenna or signal processing functions. Its primary usage is in conducting Electronic Warfare Vulnerability Assessments on U.S. Army weapons system radars. It can also be used to check models of radar functions and EW environments in other simulation tools.

The RTJS has grown out of a systematic development effort over a period of more than 22 years. This development effort continues as threat and radar technologies evolve. U.S. radar systems investigated using the RTJS include the Roland, Sgt. York, Hawk, DIVAD, MRSR, LOS-F-H, FAADS GBS/Sentinel, Sentinel ETRAC, Longbow missile, THAAD (brief startup use) and Patriot (exploratory ground and airborne RTFS checkouts). The SA-6 and the SA-8 foreign radar systems have also been investigated using the RTJS in dual-band mode to exercise both acquisition and track radars simultaneously in the field.

The RTJS provides dramatic added value in comparison to traditional live aircraft testing. An example is the Sentinel program that has utilized the RTJS extensively in its radar development, verification and product improvement programs. Using 128 live aircraft runs made in 1994 as the cost basis, the RTJS has provided $152 million dollars of added value in generating 7900 Target Signature Modulator (RTSM) system development to generate multi-scattering target signatures for TBM, air-breathing, rotary wing and low observable threat vehicles.

An airborne deployment of the RTJS has been field tested on a UH-1 rotary wing platform in successful proof-of-principle experiments at White Sands Missile Range. The UH-1 was provided and flown by US Army Air at Holloman Air Force Base, NM. Development of an airborne RTJS will provide many additional capabilities including target elevation and azimuth variation, enabling arbitrary target trajectory simulations. An eventual development goal of the RTJS is to provide the ability to simulate a TBM or other target with a known trajectory. Doing this requires precise knowledge of the airborne RTJS platform position using Real Time Kinematic (RTK) or differential GPS along with specialized control hardware and software in the airborne RTJS. An airborne Threats Management Initiative (TMI) has been submitted to develop an airborne platform applique with a GPS tracking antenna to facilitate this task.

Applications for the RTJS and its successors continue to grow based on past successes and the real-world system-in-the-loop experimental approach it utilizes. It augments other analysis tools in a unique away and adds value in measurable cost and timesavings. Future applications envisioned for the FTJS include THAAD, Patriot, JLENS, MEADS, MDA and other radar systems.

The RTJS is ideally suited for the open-air test environment provided at White Sands Missile Range. The vast protected air space and controlled signal environment enable carefully controlled experimentation with full-up radar systems in the field. Low cost airborne RTJS operation is enabled by nearby fixed wing and rotary wing aircraft support from US Army Air at Holloman AFB. Ongoing radar test programs and exercises at White Sands Missile Range and nearby McGregor range provide synergistic opportunities for RTJS simulation interleaved with live testing.

SLAD's Information Operations Program

SLAD's Information Operations program consists of three critical technical initiatives:

1. Information Assurance
2. Radio Frequency Directed Energy (RFDE)
3. IO Modeling & Simulation.

The Information Assurance program will be discussed later. However, SLAD's RFDE program was developed at White Sands over three decades ago in the 1970's. A critical issue that must be addressed in today's current digitized battlefield is what are the vulnerabilities associated with digital computers/systems, which are utilized throughout the battlefield, to RFDE weapons. SLAD has played a critical role in addressing this type of vulnerability to military systems since the 1970's. During that time, SLAD has had an active collaborative relationship with Los Alamos National Laboratory and Sandia National Laboratory. As developers of High Powered Directed Energy Weapons, Los Alamos and Sandia have provided SLAD with these devices that SLAD has used to test US military systems against RFDE weapons. SLAD is scheduled to break ground in August 2005 on a brand new, state-of-the art $33M Anechoic Chamber which will be the foundational facility used to support the RFDE program. Additionally, over the last 4-5 years, SLAD has been working closely with White Sands Missile Range/ATEC to assist them in developing a Directed Energy field test capability (Laser and RF) that would make the lead test Range to support Directed Energy field testing. The synergy between SLAD's Anechoic Chamber RFDE program and White Sands DE field test capability is the foundation on which this program is being built.

The third critical IO initiative SLAD supports at WSMR is in IO Modeling and Simulation. SLAD is considered an expert in identifying and mitigating both Electronic Warfare and Information Warfare Vulnerabilities on US Military systems. Because of this, TRAC-WSMR has asked SLAD to develop its next generation communications model for their next generation of force-on-force model, Combat XXI. TRAC-WSMR is the Army organization charted with developing force-on-force models for the Army to support the Army's Analysis of Alternatives (AOA) program. Their current force-on-force model is knows as CASTFOREM. CASTFOREM was developed over several decades ago and does not have the fidelity in the Network/Communication flow; hence, it also does not have the capability to represent realistic Electronic Warfare and Information Warfare threats. TRAC-WSMR requested SLAD develop the Network/Communications module, to include realistic EW and IW threats, for their next generation force-on-force model, Combat XXI. SLAD and TRAC-WSMR have been collaborating on this effort for the past two years.

The final DoD recommendations regarding the Army Research Laboratory activities currently located at White Sands Missile Range were described on page Tech-22 of Department of Defense Base Closure and Realignment Report, Volume I Part 2 of 2: Detailed Recommendations dated May 2005. This recommendation appears to have been developed in the file C TECH0009Rv2 Final Recommendation 05092005.pdf. The TECH-0009Rv2 scenario is derived, at least in part, from earlier versions of Scenario TECH-0009.

As of 6/16/05, the COBRA input file for the TECH-0009Rv2 scenario had not been posted on the BRAC websites, nor had COBRA input files associated with earlier versions of the scenario. However, some spreadsheets associated with the cost analysis had been posted.

At the present time, there is insufficient information to reproduce the COBRA analysis that was done by DoD. One potential serious underestimation has to do with moving costs. In Scenario TECH-0009B, it was estimated that:

"One-time moving cost is $6.03 M for relocating all equipment from White Sands to Aberdeen in Yr 2009. $3.73 M is for moving SLAD equipments. $2.3 M is for moving BE equipments. Because of equipment type (lab equipment etc.), COBRA would significantly underestimate the cost of moving if calculated by weight. Therefore, weight data is not provided. Instead, a one time relocation cost is used and is located on screen 5."

It seems hard to believe that BE equipment can be relocated for $2.3M, and that SLAD equipment can be relocated for $3.73M. It is also interesting that even in Scenario TECH-0009B, the destination for the equipment was Aberdeen, although the destination for the personnel was Adelphi.

Another interesting point is that it appears that early on in the analysis process, the preferred destination for ARL BE and SLAD as Adelphi. It appears that one reason for choosing Aberdeen in the end was that construction costs at Adelphi are over 50% higher at Adelphi.

In file TECH-0009B Completed Army v 5.1.xls, the Army indicated that under this scenario, 26,000 square feet of space would be required for SLAD. Army went with a price per $193 per square foot while acknowledging that the cost at Adelphi is $300 per square foot. This suggests that the Aberdeen destination was selected not because it is what the Army wants to do, but rather because of cost.

Ultimately, with the lack of data available for analysis, as a community response we can only make a few assumptions. Those assumptions include:

A true estimation of the cost of relocating equipment from WSMR to Aberdeen was not truly taken into consideration. The type of sophisticated facilities do not lend them to a simple relocation estimate and doesn't take into consideration they type of work done at these facilities. The unique environment in place at WSMR is not available at Aberdeen, so there is a distinct possibility that these facilities could not be replicated in Maryland.

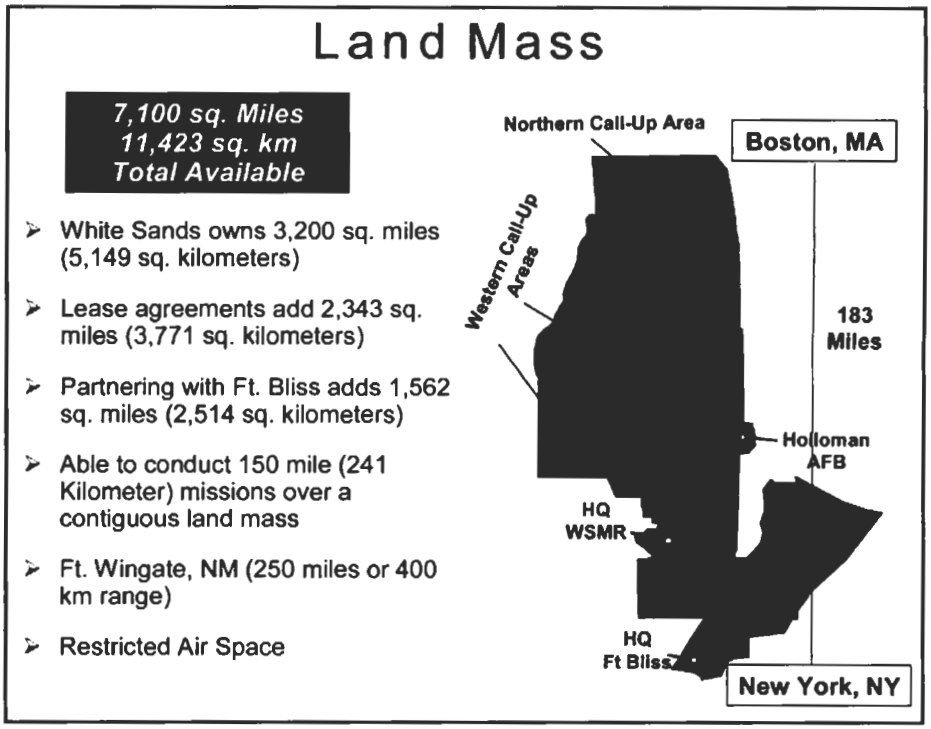
By simply looking at cost, the original thought to relocate to Adelphi, MD was not pursued. There doesn't' seem to have been any a thought process on how this realignment would be in the best interest for any military value except for a simple cost analysis between Adelphi and Aberdeen, MD. This is assumed since there is now cost analysis between leaving the operation at WSMR vs moving to APG.

During WW II, a two brigade-sized infantry formation typically could engage over only a 2 km² area. Today a single Stryker Brigade Combat Team can cover a 50 km² area and the Army's Future Combat Systems (FCS) will cover a still greater area with increasingly demanding Intelligence Surveillance Reconnaissance (ISR) requirements. Access to large and unpopulated land/air space is critical for the testing of military systems under scenarios replicating the conditions under which they will be deployed.

WSMR enjoys 11,423 square kilometers of unencumbered and unencroached-upon real estate with which to conduct free range test, evaluation and training activities. This is 39 times larger than Aberdeen Proving Ground which, at 293 square kilometers **is not** a feasible location for the testing of long-range precision guided weapons, microwave and directed-energy weapons, hypersonic aircraft, and unmanned systems such as UAVs – systems for which the ARL has had a pivotal role in their development. A principal motivation for making WSMR a focal point for Air and Missile defense testing, Joint Interoperability Testing, distributed testing, system of systems testing, and other activities characteristic of the network-centric dimension of future war, is the availability of a large land/air space at WSMR that is free from urbanization. WSMR's substantial range space and freedom from landspace, airspace, radio frequency spectrum (e.g. cellular phone or television transmitters) encroachment guarantees that WSMR's core competencies will not migrate elsewhere – ARL personnel will simply have to come to WSMR if they wish to continue their legacy of research and development excellence. What may be more compelling than the obvious increased program cost of sending personnel and equipment to WSMR is the loss of the ability to integrate in real time with Future Combat Systems and other test programs. These users may elect to fund a separate capability to furnish what was once provided by ARL thereby attenuating ARL's reimbursable base.

Among the physical characteristics critical to test missions that ARL will lose is the on-site access to:

- Land (largest overland open air Range in CONUS), Air (DoD controlled Restricted Airspace), Topography (high desert terrain, mountainous boundaries), Climate (tem perate conditions modeling world's weather), Freedom From Encroachment (restricted area with controlled access, frequency management)



- Cox Range Control Center (CRCC): State-of-the-art facility for Range management, operations control/display, real-time data processing, data control, airspace management, flight safety, air and ground target presentation/control (10 air, 25 ground)

- Mission Support Capabilities:
    1. Only DoD facility that routinely conducts Multiple Simultaneous Engagements
    2. Multiple instrumentation and stimulation suites with Live, Virtual and Constructive capabilities to stress system of system and Joint Interoperability performance of DoD's weapon systems
    3. This unique instrumentation and land/airspace is key to successful execution of exercises like Roving Sands.

- Uniquely instrumented land/air test and training range (e.g., high altitude terrain emulates other parts of the world).

- Open range RF and GPS jamming as well as electronic warfare test range.

- Over 3000 surveyed instrumentation sites, 1100 miles of internal fiber optic network and extensive external connectivity for data acquisition and distribution. Instrumentation capabilities include the entire gamut of systems-level instrumentation (thermo-couples, accelerometers, discrete, telemetry, etc.) as well as external ground truth by external standards.

- WSMR is a primary developer of advanced instrumentation technologies used throughout the DoD and funded by CTIEP.

- Fixed and mobile radar: provides 100% coverage of the flight systems both on- and off-range for flight safety, *TSPI*, training kill adjudication and management of the airspace for all services. Unique capabilities include tracking multiple objects as long ranges necessary for sub-munitions and aircraft performance measures.

- Fixed and mobile telemetry: provides data acquisition for performance measures of ground and aerial systems and systems of systems both static and moving. Large and strategically placed systems provide long range coverage critical to test.

- Fixed and mobile optics: provide TSPI data as well as event documentation and signature measurements across the visible and IR bands for validating system performance and lethality. Unique capabilities include digital high speed imagery, high tracking rates and long focal length optics.

- Data network distribution and control critical for acquiring the data from systems under test, injecting simulation wrap-arounds and stimuli and the ability to manage and evaluate test and training events in real time.

- Present actual, simulated and representative aerial, ground vehicle, ballistic missile, urban, dispersion, tunnel, deeply buried and hardened targets to systems and systems of systems under test and during training. Required for performance and capability measurements including detection, acquisition and lethality, as well as C4ISR testing and training of components, systems and systems of systems. Capabilities include precision formation control of moving targets, characterization of

signatures and measures of lethality in various terrains and backgrounds. Critical safety buffers and secure areas are free from all elements of encroachment.

• Drone Formation Control Facility: provides simulation and control of ground and aerial target formations during live fire tests, training and distributed events.

• Warhead Impact Areas: cleared ground and emulated urban areas for inert and live fire testing of warheads and sub-munitions including dispersion patterns, penetration, dud rates and mine self destruction.

• Full gamut of climatic, dynamic, electromagnetic, nuclear and laser suitability, survivability and vulnerability testing. Facilities are critical to systems and systems of systems performance characterization, safety validation and survivability measurements core to the RDT&E mission. Co-location with live fire elements critical to safety and systematic variable control. Remote location free of all elements of encroachment for hazardous testing and high precision measurements in a broad band RF quiet environment. Each of these facilities are core to multi-service, multi-agency (MDA,NASA,DOT) and joint use and have received CTIEP funding for some elements

In conclusion, a proposed realignment to Aberdeen Proving Grounds will provide ARL with reduced capabilities and constrained operations. The future of the DoD and particularly the Army research is in longer stand-off weapons, unmanned systems and directed energy (including electronic warfare). Each of these objectives and technologies require a general lack of encroachment in all areas including population and radio frequency, as well as land and airspace. Currently, the east coast is experiencing an overall crippling amount of encroachment, whereas the west is generally enjoying a lack of encroachment. With consolidation in the east, this issue is only going to get worse and is likely to drive the cost of business for the DoD higher and result in constraints in operations. ARL will be forced to increase travel to western ranges or facilities in order to accomplish developments, test and participate in training activities - an increase in the cost of doing business. ARL will loose the ability to integrate into ongoing test and training events of the FCS or be required to send personnel on more travel with the result being both constrained operations and higher cost in times when resources are few. This is wrong for the DoD and wrong for the taxpayer. Indeed, the move of the ARL capabilities to the east is not beneficial to the transformation of the Army or DoD.

Introduction

Under the direction of Secretary of Defense Donald Rumsfeld, the Department of Defense decides how to properly realign the military and its resources to cut its costs. The recent Department of Defense recommendations indicated that the Army Research Laboratory (ARL) at White Sands Missile Range (WSMR), New Mexico has been slated for realignment by the Defense Base Closure and Realignment Commission (BRAC). ARL is to relocate to Aberdeen Proving Ground, Maryland. Out of the six branches of ARL, three are to be realigned to Aberdeen by BRAC 2005, while Aberdeen, one of the current branches, will gain 5,661 civilian and 451 military members (not all for ARL). Headquarters of the ARL will be realigned from Adelphi Laboratory Center, Maryland to Aberdeen Proving Ground, as will the Army Research Offices in North Carolina. The Adelphi Laboratory Center will be moving 43 civilians, while the North Carolina offices will move 1 military member and 113 civilians.[i] The move for ARL at WSMR will result in the relocation of 13 military members and 165 civilians.[ii] This report will focus on the economic advantages of realigning ARL branches to WSMR instead of Aberdeen Proving Grounds.

Labor Costs Military Members

Military members receive a set pay based upon years in service and rank. When serving in areas of the world with higher cost of living or housing, military members are awarded a Cost of Living Allowance (COLA) and/or Basic Allowance for Housing (BAH). According to the Department of Defense, military members stationed at Aberdeen Proving Grounds do not receive COLA for fiscal year 2005, and neither do members at WSMR. They do, however receive a BAH. Table 1: Basic Allowance for Housing below shows the difference in housing allowance for the two areas. Should all military members relocate from WSMR to Aberdeen Proving Grounds, there could be up to $301 increase in each member's pay, possibly resulting in $3,913 more paid in salaries to military members each month for military members from WSMR alone. Although ARL employs few military members, the cost adds up to $46,956 by a year's end.

Table 1: Basic Allowance for Housing[iii,iv]

Location:	Aberdeen Proving Grounds, MD	White Sands Missile Range, NM
Sample Rank:	O-1 : Second Lieutenant	O-1 : Second Lieutenant
	Monthly Basic Allowance for Housing as of 2005:	
With Dependants	$1,081.00	$930.00
Without Dependants	$946.00	$644.00
	Awarded to lowest pay-grade (E-1) without dependants in 2000:	
	$453.00	$342.00
	Awarded to highest pay-grade (O-7) with dependants in 2000:	
	$1,222.00	$921.00

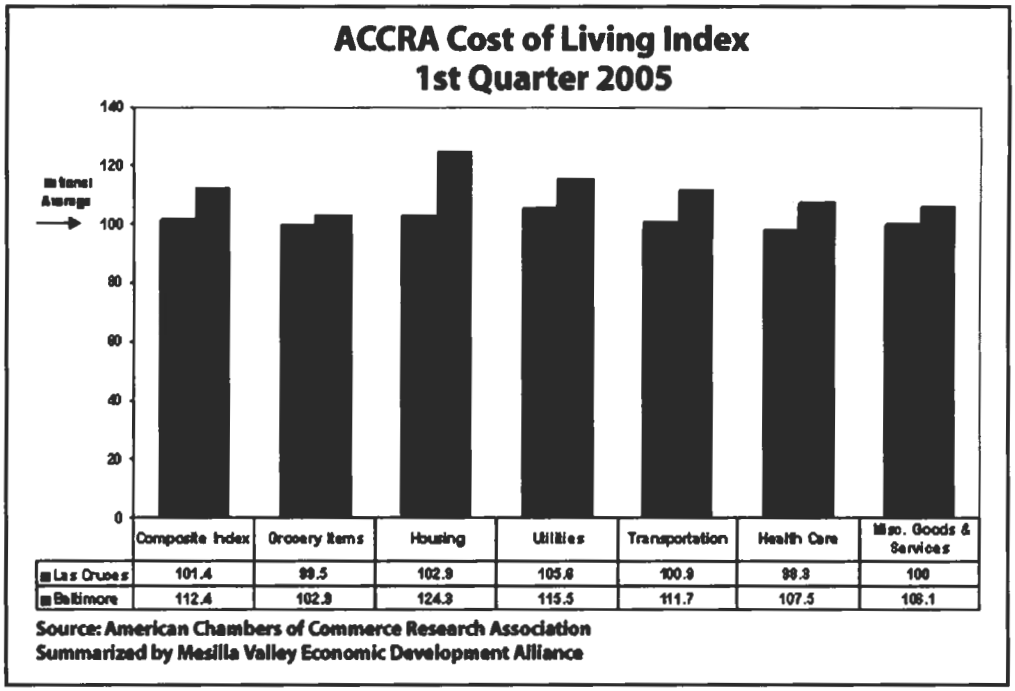
Civilian Members

Should the 165 civilian positions currently at WSMR be relocated to Aberdeen, many will not make the move, and the military will be forced to hire civilians expecting the higher salary typical of Maryland. Those who do, however, will also demand higher pay due to the cost of living changes. Homefair.com estimates that those earning $100,000 in Las Cruces should ask $135,980 in Aberdeen. This means a 36 percent increase in pay for all relocated.

Table 2: Cost of Living Differences

Cost of Living differences	Aberdeen, MD	Las Cruces, NM
State corporate income tax	7.0%[vi]	4.8 – 7.6%[vii]
State & local personal income tax (max.)	4.75%[viii] / 3.06%[ix]	6.0%[x] / 6.9%[xi]
Sales/Gross Receipts Tax	5.00%[xii]	7.00%[xiii]
Property Tax	0.55%[xiv]	0.02%[xv]
Home Insurance (avg. premium)[xvi]	$389	$450
Car Insurance ratesx[vii]	$828.22	$828.33
Car Registration Fees	$128.00[xviii]	$120.00[xix]
Average electricity bill[xx]	$83.34	$51.26
Gallon of gas	$2.12[xxi]	$2.22[xxii]
Average annual wage (2002)	$39,382[xxiii]	$28,700[xxiv]
Median Base Pay for Aerospace Engineer I[xxv]	$51,526	$43,965
Avg. Rent / Mortgage (2000)	$551 / $1,076[xxvi]	$470 / $825[xxvii]

In conclusion, labor is the dominant cost of all service organizations such as ARL. Assuming the grade structure would remain equivalent in the re-alignment, the cost of conducting ARL business will increase by virtue of the simple fact that the federal locality pay for the east coast is higher than that of New Mexico. Indeed, given the higher civilian and contractor labor in the east as well as the higher cost of operations (tax, rent, utilities), it would seem the DoD could save more if it were to do the opposite of what is proposed and to consolidate to the west. An examination of a number of economic factors indicates that it would cost about 35% more to live in northern Virginia and Maryland area than in Las Cruces and houses prices are at a higher percentage. It can be seen that civilian labor, contract labor, and facilities operations are all at a higher cost in the Aberdeen, Maryland area when compared the Southern New Mexico area.



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19 DP-4. Profile of Selected Housing Characteristics: 2000
Data Set: Census 2000 Summary File 3 (SF 3) - Sample Data U.S. Census Bureau, Census 2000 Summary File 3, Matrices H1, H7, H20, H23, H24, H30, H34, H38, H40, H43, H44, H48, H51, H62, H63, H69, H74, H76, H90, H91, and H94
[xxix] DP-4. Profile of Selected Housing Characteristics: 2000
Data Set: Census 2000 Summary File 3 (SF 3) - Sample Data U.S. Census Bureau, Census 2000 Summary File 3, Matrices H1, H7, H20, H23, H24, H30, H34, H38, H40, H43, H44, H48, H51, H62, H63, H69, H74, H76, H90, H91, and H94

Military value of organizations like ARL at installations like WSMR can not be effectively measured by the BRAC criteria. The criteria are clearly designed to evaluate the military value of war fighter, training, logistics and other operational installations. The criteria are not at all relevant to scientific and engineering work at Research, Development, Test and Evaluation (RDT&E) installations. Nor do they contain any provisions for assessing the real implications of moving RDT&E organizations from one location to another. The criteria can not measure RDT&E technical value as it does military operational value since they are clearly not designed to do so. Instead application of the BRAC criteria to RDT&E activities result in an evaluation that doesn't have a clear picture of the true synergy in place at WSMR. Such an effort is not focused on technical contributions to the nation's defense, which are the real measures of effectiveness of any RDT&E organization. Thus, decision makers must include this qualitative value to the quantitative analysis in order to make a truly informed assessment. In particular the BRAC criteria do not address the effectiveness and value issues related to technical environment and synergism, which acts as a kind of force multiplier within the RDT&E process. These do not lend themselves to pure cost analysis, but form the foundation of any effective RDT&E organization.

The history of ARL at WSMR is one of many powerful contributions to the DOD. These were, in large measure, made possible by the unique and highly synergistic technical environment afforded ARL at WSMR. The WSMR technical environment is comprised of both world class facilities and the capabilities resident therein as well as one of the most diverse and highly skilled team of engineers and scientist on the planet. Facilities and capabilities include one of a kind test beds, specialized ARL, TRAC, NASA and other tenant technical facilities, extensive laboratories, powerful range instrumentation, unique modeling and simulation capabilities, high performance and real time computational systems and of course the most advanced weapon systems in the U.S. inventory. The engineers and scientist at WSMR include every conceivable discipline and represent many government organizations, major defense contractors, specialist contractors, and universities. The combination of facilities, capabilities and a technically diverse and highly skilled workforce produces a synergistic environment that is not found anywhere else in the world. ARL is both a key element of the WSMR technical environment and a recipient of its synergism as demonstrated by its many important, even critical, technical contributions to the DOD. A few examples of how ARL has uniquely benefited from its participation within the WSMR technical environment are found in the following paragraphs.

PATRIOT Air Defense System Analysis & Fix

During the 1st Gulf War (circa a '90/'91), a problem arose whereby PATRIOT Air Defense systems were launching multiple missiles at spurious tactical ballistic missiles (TBMs). The problem was a combination of factors, which included the possibility of Blue Air friendly jamming injecting signals though the backlobe of the PATRIOT radar, which would then manifest itself as a TBM on the radar screen. When the radar is in automatic engagement mode rather than manual engagement mode, which was required due to the very short reaction times to engage a TBM, it was thought that friendly jamming received thought the PATRIOT radar backlobe at airbases in the Iraqi theater could be causing this situation. SLAD, with its inventory of ECM devices and expertise in electronic warfare, was able to recreate the phenomenon at WSMR, which led to both a short term software fix and longer term backlobe shroud hardware fix which would attenuate unintentional signal phenomenon through the backlobe thus significantly mitigating the possibility of wasting missile resources engaging spurious TMB targets while in an automatic engagement mode of operation.

WSMR is, and is expected to continue being PATRIOT's, now Lower Tier Project Office's, electronic warfare SME. The physical presence of WSMR has facilitated this 40-year relationship with the Air Defense community. The fixes were verified with search/track tests at WSMR; a launch was not specifically required; however, the PATRIOT radar backlobe shroud is now a standard piece of the PATRIOT Air Defense system and has been since the early 90'swhen this problem first surfaced.

Redeye / Stinger Countermeasures

The Electro-Optical Countermeasure Missile Flight Simulation Facility (EOCMMFSF) was developed in the early 1970's, at the dawn of MANPADS (MAN-Portable Air Defense Systems). These are relatively small, shoulder launched, single-man operated missiles that track the infrared (IR) emissions of a targeted aircraft. The Redeye missile was the first US MANPADS missile and the first missile that the EOCMMFSF simulated. These MANPADS provide the military protection against low flying enemy aircraft – helicopters, propeller driven aircraft, and jet aircraft. Today, these missiles are in the hands of terrorists and potential targets can be commercial aircraft in the US homeland! Both the Department of Defense and the Department of Homeland Security are extremely interested in defenses against MANPADS.

At the dawn of the MANPADS, in the age of Redeye, most felt that conical-scan infrared guided missiles could not be jammed. Simulations in the EOCMMFSF showed this not to be the case – a method was found. The ultimate proof was a series of live missile firings, here at WSMR, with an experimental jammer titled Hot Brick that demonstrated what the simulations showed: conical-scan infrared missiles could be jammed!

The follow-on to the Redeye missile is the Stinger-BASIC missile. This in turn was followed, with further development, with the Stinger-POST, Stinger-RMP, and Stinger-Block 1. All of these follow-ons principally occurred for advanced counter-countermeasure techniques. During this time, other foreign nations have also designed and built MANPADS, which resulted in the US expending considerable efforts designing and building countermeasures for these missiles. The EOCMMFSF has HWIL simulations for many of these systems (foreign and US) and has played a key role in evaluating many of these countermeasures.

In the mid 1990's, the simulations at the EOCMMFSF showed that for a special countermeasure technique, the missile would perform in a totally unexpected behavior-a behavior that would go beyond the measured region for one of the models. In fact, after a peer review stated that the manifestation was highly unlikely, the EOCMMFSF invited the peers, other MANPADS experts, to visit the facility and show where the simulation was in error. Such a review did take place and all systems and subsystems were rechecked and found to be in VV&A compliance. So, being located on a missile range, the EOCMMFSF devised a set of live missile firings that would either demonstrate the unexpected missile behavior or show that the simulation was indeed faulty. The firings were conducted and the missile did perform as predicted by the simulation and thus beyond the valid region of one of the models. EOCMMFSF then analyzed the telemetered missile signals from the flying missiles and the date from WSMR and devised a new model to incorporate this region of unexpected behavior. This new model is now the standard model for this particular MANPADS. Currently, the EOCMMFSF is working on a relatively low cost countermeasure technique that perhaps could afford protection of any aircraft against MANPADS. To date, this very novel technique has been demonstrated in the laboratory and in a series of outdoor experiments on WSMR. For reasons that are too sensitive to explain here, the continued testing and development of this technique will require further testing on WSMR because of

the unique environment offered by WSMR. The Department of Defense is very interested in the results of these experiments and the possibilities that this technique could provide. This technique would perhaps be even more applicable to the Department of Homeland Security during our current War on Terrorism.

Ground Penetrating Radar System

SLAD was asked by the Rapid Equipping Force (REF) commander in Iraq to help them test and procure a ground penetrating radar system. The REF as well as our other units in Iraq are in dire need of a tool to help them detect subsurface disturbances in the ground such as graves, tunnels, and weapons caches. SLAD is now in the process of surveying appropriate sites not only within WSMR but in our adjacent sister range McGregor, to find the best scenario to conduct the GPR experiments.

SLAD has identified those companies that possess working systems, which will be good candidates for the pre-selection demonstration. SLAD also conducted preliminary soil comparisons between some of the likely sites and theater. Based on extensive radar field test experience, SLAD is designing a test plan that will meet the REF's need not only technically but operationally as well. One of the members of the team (Dr. Debrous) has had extensive experience with GPR specifically. Due to the longstanding relations with WSMR and McGregor, SLAD can execute experiments in a very short period of time and thus produce a fast turn around for the units in theater. WSMR is crucial due to several factors:

- GPR is highly dependent on the soil conditions (i.e. moisture, composition, compactness) for the depth of penetration. What works in one environment will not work in a climatologically different one.
- The toughest environmental challenges facing an operational system in Iraq are the intense summer hear and the blowing sand.
- WSMR and Iraq have very similar environmental and soil conditions due to the intense summer heat, the strong winds, blowing sand, and lack of moisture (affecting ground activity).
- Checking and testing the GPR systems will involve radiating into the environment at frequencies and power levels that may affect US civilian systems. Due to WSMR's isolation, it is not a problem to conduct those exercises as opposed to another base that is co-located in an urban environment.
- GPR systems can be mounted on ground as well as airborne platforms. Radiating airborne platform exercises are routine at WSMR, all the assets (real estate, tracking, telemetry, air support, etc.) are in place to conduct such experiments.

SLAD is recognized as the preeminent organization within the Army with the capability to conduct Information Operations Network Vulnerability Assessments on military tactical systems in support of Test and Evaluation requirements. This is evident in the recent decision by the Army's Chief Information Officer G6 (DA CIO/G6) as well as PM UA (Future Combat Systems) to select ARL/SLAD as the Technical Lead Management Office (TLMO) for conducting System of Systems (SoS) network vulnerability assessments for the Army's Future Combat Systems. As the TLMO, SLAD is responsible for executing technical and management responsibilities across multiple organizations to ensure that US military technical architectures are not vulnerable to Information Warfare attacks. SLAD was selected as the FCS network vulnerability assessment TLMO based upon our history and expertise in conducting Vulnerability Assessment Test and Evaluation support on current military tactical networks to include assessing network architectures supporting our troops prior to their deployments in support of Operation Iraqi Freedom and Operation Enduring Freedom. The majority of Information Operations Network Vulnerability Assessments conducted by SLAD have been conducted at SLAD's Information Operations (IO) Laboratory at White Sands and at the Army's Central

Technical Support Facility (CTSF) at Ft. Hood, TX. The CTSF is the Army's official interoperability and Certification Facility. Until May 2005, the CTSF was controlled by the Army's Program Executive Office Command, Control and Communication Tactical (PEO C3T). The CTSF is the Army's official facility where all the Army Battle Command Systems go to conduct interoperability and certification testing In 2001, SLAD agreed to provide information assurance expertise and Vulnerability assessment testing at the CTSF. At that time, SLAD and the CTSF institutionalized Information Assurance Vulnerability Assessment testing as part of the Army's interoperability and certification process. For the first time, these allowed for the conduct of IA Vulnerability Assessment Testing on System of Systems/complete tactical architectures as they are being deployed in support of our troops. Prior to that, Vulnerability Assessment Testing was mainly being conducted on single individual systems, both there was no process of facility focused on conducting SoS vulnerability Assessments for full tactical architectures, only individual or limited systems within an architecture. SLAD currently maintains a full time staff of 4 individuals at the CTSF to support the day-to-day IA requirements at the CTSF. The IA Manager for CTSF is a SLAD employee. The SLAD IA manager at CTSF facilitates the coordination between CTSF and SLAD IA personnel aw White Sands Missile Range. SLAD conducts the majority of our IA vulnerability assessment testing at the SLADL Information Operations laboratory at White Sands (for subsets of Army Tactical Architectures) and at the CTSF, Ft. Hood (for subsets of Army Tactical Architectures). The proximity of White Sands to CTSF (short one hour flight) facilitates the SLAD White Sands IA Staff support to critical Army Vulnerability Assessment testing at CTSF whether on a planned or emergency basis.

As the selected FCS Network Vulnerability Assessment TLMO, SLAD has the lead within the Army for conducting the IA vulnerability assessment testing for the Army's Future Force, which is focused on the Army's largest and most critical program, Future combat Systems (FCS). SLAD has been working with the Army's CIO G6 to develop a strategy/methodology on how to accomplish this enormous technical effort. The current strategy for conducting IA Vulnerability Assessment Testing for FCS revolves around two critical technical initiatives. The first is to conduct experimental IA Vulnerability Assessment Testing for Joint Interoperability and FCS at the CTSF, Ft. Hood, TX. In May 2005 the CTSF transitioned fro technical control under the Army's PEO C3T to technical control under the Army CIO G6. The basic rationale behind this was that the Army's tactical systems have been integrated to encompass more than the Army Battle Command Systems (ABCS) controlled by PEO C3T, but also include all the other platforms/systems controlled by other Army PEO's. The CIO G6 transition plan for the CTSF has a three-phased process. The first phase calls for completing the interoperability, certification and vulnerability testing on the Army's current ABCS architecture supporting our troops redeploying back into the theatre in support of OIF. SLAD has technical lead for conduction the IA Vulnerability assessment testing under this phase. The second phase places a larger focus on support of the Modular Army and interoperability, certification and vulnerability testing for the modularized Army based on the Joint Network Node *JNN) network architecture. This is the initial step in assessing "Joint" network architecture requirements across the services. Again, SLAD has the technical lead in supporting the IA Vulnerability testing for the JNN equipped modular force. The third and most critical phase of this transition plan is focused on conducting interoperability, certification and vulnerability testing for FCS to include Joint Service requirements. Once again, SLAD has technical lead for conducting the IA vulnerability testing for the FCS network architecture to include Joint Service IA Vulnerability testing requirements. In support of CIO G6 phase 2 and phase 3 implementation plan for CTSF, SLAD is currently coordinating with CTSF and G6 to network the SLAD IO Laboratory at WSMR to the CTSF. This is going to allow SLAD more flexibility in supporting CTSF Vulnerability Assessment testing by allowing vulnerability assessment testing via the WSMR

IO Laboratory when practical/possible as well as continued on site Vulnerability Assessment Testing at CTSF when necessary.

The second critical phase of the FCS vulnerability assessment testing strategy/methodology being coordinated between G6 and SLAD addresses the testing for FCS is schedule to occur at White Sands Missile Range in 2008. White Sands Missile Range is the official test range of choice for testing FCS due to its uniqueness in the amount of land available to test and more importantly their owning of their air space. FCS network field testing is going to require the ability for FCS to test mobile ad hoc networks (MNNET) which are going to require that they communicate on the move with various platforms, both manned and unmanned (to include a multitude of sensors). Much of this communication will occur over wireless networks. The ability to coordinate, execute ad control this environment is unique to White Sands Missile Range and is critical to effectively test such a complex architecture in the field. A critical aspect to conducting vulnerability assessment testing for the FCS network architecture includes conducting both "wired" and "wireless" network IW attacks. The uniqueness of White Sands Missile Range and the ability to acquire the necessary electromagnetic spectrum frequency clearances will allow SLAD to conduct wireless exploit vulnerability testing at White Sands Missile Range. SLAD and White Sands/ATEC personnel are currently executing a plan to connect SLAD's IO laboratory with WSMR's Integrated Range Control Center (IRCC) as well as their internal test network in order to facilitate IA vulnerability test requirements for FCS starting in 2008. Combining SLAD's IA test capability with WSMR Range test capability is going to have tremendous benefits in WSMR attracting more FCS customer tests. The basic concept for FCS is that the network is going to be the most critical aspect of the Future Force fighting concept. The network linkage between SLAD's IO laboratory and WSMR IRDD/test networks as well as SLAD's IO laboratory network connectivity to the CTSF, is going to greatly expand WSMR's ability to attract and support future FCS network field testing initiatives.

White Sands Missile Range is the lead ATEC range responsible for networking various test ranges in support of large Army and Joint Tests and Exercises. These Tests/Exercises will be executed using a combination of live/actual systems as well as simulation/stimulation providing other necessary data. WSMR is currently connected to other test ranges such as Ft. Bliss, Ft. Huachuca, Ft. Hood (proper, not CTSF). Dialogue between WSMR staff and SLAD IA staff is on going in attempt to also bring SLAD IO Laboratory connectivity online to support these efforts. WSMR/ATEC staffs are particularly excited about the potential to gain access to the CTSF through the SLAD IO laboratory, as they understand the tremendous additional capability that would allow WSMR to leverage to support FCS and other test exercises.

Another strategic collaboration supporting SLADL LIA test and evaluation program is SLAD's collaboration with NM Tech in Socorro, NM. NM Tech is a certified as an Academic IA Center of excellence by the National Security Agency (NSA). NM Tech is the only University in NM and one of only a handful of Universities in the entire Southwest United States with this IA certification by the NSA. As a certified IA academic center of excellence, NM Tech is allowed to participate in a federal scholarship program knows as Scholarship For Service (SFS). The SFS program allows NM Tech to offer scholarships to their students through their Computer Science department with an emphasis in IA for those students who wish to study for a career in Information Assurance ((IA). As part of this program, these scholarship students are provided a stipend to attend college, are given opportunities for internships with government agencies as well as full time employment with a federal government agency upon graduation. SLAD has recently hired three full time employees who have graduated from NM Tech with a degree in Computer Science/Information Assurance and also has hired five

summer from NM Tech who are pare of the SFS program with the intent to hire them as full time staff upon their graduation. Many of these students that take advantage of this SFS program are the best and the brightest from New Mexico high schools. Prior to the NM Tech and SLAD strategic collaboration in IA, many of these students had little to no opportunity to stay within the state of NM if they wished to pursue their career in Information Assurance and many had to accept employment with agencies out of state such as the NSA. The strategic partnership between SLAD and NM Tech allows many of these students the ability to stay in the state of New Mexico in order to pursue their career goals. Additionally, SLADL has recently executed a contract with NM Tech in order to leverage and utilize the vast IA expertise of the Professors and Graduate students within the NM Tech Computer Science department. The NM Tech Computer Science Professors were responsible for developing the IA curriculum within that department as well as meeting all the criteria required by NSA in order to be certified as an IA Center of Excellence. The contract between SLAD and NM Tech will allow SLAD to take advantage of the expertise within the NM Tech Computer Science department as well as allow NM Tech to gain national visibility and highlight the strength of their Computer Science department.

The preceding paragraphs illustrate but a few of the many important technical contributions made possible by ARL's work within the unique WSMR technical environment. They also illustrate how large and complex scientific and engineering problems can be quickly addressed and resolved through the synergistic effects of the large body of diverse technical expertise available only at WSMR. The private sector would never move its engineers and scientist out of this type of environment and into one that would restrict their ability to deal with real world issues. Moving ARL scientist and engineers out of this force multiplying environment and into a distant office makes no sense either. If the recommendation were allowed to proceed, the negative implications to the future testing and evaluation process would be immeasurable.

WSMR-ARL COMMUNITY RESPONSE

RECOMMENDATION FOR EXPANSION OF WSMR – ARL

VI.

As a Community Group, we would be remiss if we didn't include a section that called for the overall expansion of the work that WSMR-ARL does in Southern New Mexico. In evaluating the initial BRAC recommendations, the criteria seemed to signal that the years of developing WSMR into the renowned tri-service base would result in expansion within the facility. It would have seemed that the Department of Defense would have used this opportunity to posture itself for the next 10-20 years where it is envisioned the service will have longer stand off weapons, directed energy weapons such as high power microwave and high energy lasers, hypersonic aircraft and weapons, and unmanned systems. All of these capabilities, seen as transformational, require larger land and airspace, as well as generally unpopulated areas for research, development, testing and training. Given this, it would seem logical to predict that there would be a shift in resources away from the congested eastern U.S. and toward the vast and open spaces of the western U.S.

WSMR was initiated as a joint test range and is the only and the largest one with all services represented and with the ability for joint operations and efficiencies through share resources. Many missions and weapons systems of the Air Force, Army and Navy come to WSMR for long-range test and training with the short range test and training being done at service specific locations such as Edwards, China Lake or Yuma. Many efficiencies and lower costs could be realized by consolidating tri-service RDT&E at WSMR yet this is not reflected in the BRAC guidance. Indeed, WSMR has the capacity to absorb the full missions of many other test and training ranges within the Department of Defense.

WSMR has already been identified as one of the preeminent locations for the testing of the Future Combat Systems. The encroachment free test areas, state of the art facilities and existing knowledge base is certainly open for expansion. The history of rapid responses to critical field problems continues to prove the military value of having the ARL-WSMR personnel located on the consummate test range. Its coordinated work with Holloman Air Force Base will continue to be important as the J-UCAS Unmanned System is tested and evaluated in Southern New Mexico. With the slated expansion of Army personnel at the adjacent Fort Bliss, Texas facility, the opportunities for our future military personnel to train on these future systems will continue to expand. Taking all of these into consideration, it would have seemed to be in the best interest of the Department of Defense to expand the presence of ARL at WSMR.

This can still be the case. A reconsideration of the published recommendation could include viewing WSMR, Ft. Bliss, Holloman Air Force Base, Kirkland Air Force Base, and Cannon Air Force Base as a huge joint national asset with synergism, linked together by the existing Inter Range Command Center (IRCC) and airspace control, and ready to take on all present and future overland missile testing, test and training exercises, UAV test and training, hypersonic test and training, and the land and airspace for standoff weapons, lasers, EO, EW, and IW test and training now and on into the future.

CONCLUSION VII.

There are many compelling reasons that the proposed realignment of the WSMR-ARL organization and subsequent move to APG is not in the best interest of the Department of Defense. These reasons include some elements that can be quantified like cost and others that can not such as technical and scientific effectiveness and innovation. The principal reasons are summarized point by point in the brief paragraphs that follow.

Flawed BRAC Evaluation

Military value of highly scientific and deeply technical organizations like ARL at installations like WSMR can not be effectively measured by application of the BRAC criteria which are oriented towards traditional military roles. The criteria are clearly designed to evaluate the military value of war fighter, training, logistics and other operational installations. The criteria are not at all relevant to scientific and engineering work at Research, Development, Test and Evaluation (RDT&E) installations. Thus any conclusions reached from evaluations based on the BRAC criteria are not likely to be useful in assessing the value of organizations like ARL-WSMR. This fact was recognized early on by several members of congress who requested, without success, that the Department of Defense add additional criteria for RDT&E organizations. As a community group, we can only assume that the Department of Defense's decision to move ARL spaces and functions from WSMR to Aberdeen was based on a flawed cost evaluation which produced a conclusion that doesn't take into account the unique joint value that having ARL at WSMR brings to our nations security.

Test and Evaluation Mission Support

About half of the ARL-WSMR work load is direct support of the Army's Test and Evaluation mission. Most of this support is at WSMR. In fact 98% of ARL-WSMR's Survivability/Lethality Analysis Directorate's Electronic Warfare/Information Warfare capability directly supports the Army's Test and Evaluation functions. It makes no logical sense to move ARL-WSMR Test and Evaluation people from the location in which they do most of their work to a sterile office environment in Aberdeen. Such a move is not in the best interest of the Department of Defense and will likely increase both the time and cost for weapons systems development since it takes ARL-WSMR people out a location where actual development and T&E work is done and locates them in an office far away from where the real work is accomplished.

One of a kind synergistic technical environment

The history of ARL at WSMR is one of many powerful, scientifically complex and deeply technical contributions to the Department of Defense. These were, in large measure, made possible by the unique and highly synergistic technical environment afforded ARL at WSMR. The WSMR technical environment is comprised of both one of a kind world class facilities and the capabilities resident therein as well as one of the most diverse and highly skilled team of engineers and scientist on the planet A few examples of ARL projects made possible by the unique WSMR technical environment are: PATRIOT Air Defense System Analysis and Fix, Redeye/Stinger Countermeasures, Ground Penetrating Radar System, and most recently development of jamming systems for Improvised Explosive Devices (IEDs) used in the Iraq war. These important weapon system developments would not have been possible if ARL was not working in the unique laboratory that is WSMR.

Joint Test and Evaluation

WSMR is a National Range and as such hosts and performs tri-service T & E functions. WSMR is co-located with Holloman Air Force Base (HAFB) and adjacent to Ft. Bliss, Texas. These facts, in conjunction with the unique technical capabilities of WSMR, make it the ideal location for joint Test and Evaluation, training and

related operations as has been demonstrated many times in the past. ARL's capabilities at WSMR have been a key element in the joint T&E activities within the WSMR, HAFB and Ft. Bliss complex. These capabilities will continue to be needed for critical upcoming T&E programs like the Future Combat Systems (FCS) and the Joint Unmanned Combat Air system (J-UCAS). Thus the interests of the Department of Defense are best served by leaving the ARL-WSMR T&E spaces where they will be the most effective – at their current home on WSMR.

ARL-WSMR Fixed Laboratory Assets

ARL-WSMR operates various specialized, fixed laboratory facilities at WSMR. Some of these are Electro-Optical Vulnerability Analysis Facility (EOVAF), Electro-Optical Countermeasure Missile Flight Simulation Facility (Hardware In The Loop) EOCMMFSF, Target/Jammer Simulator (RTJS), and SLAD's Information Operations Program. These fixed assets are located at WSMR because they are used in direct support of weapons systems testing, require the special and controlled radio frequency environment, or have hazardous output requiring them to be located in a remote and unpopulated area. This being the case if the ARL-WSMR realignment is put into effect, the Department of Defense will be faced with a serious dilemma. The realignment will move ARL-WSMR scientist and engineers out of their specialized laboratories at WSMR and into office's at Aberdeen. Thus the critical work done at the WSMR-ARL labs can no longer be accomplished unless the people just moved to Aberdeen are placed on expensive long term TDY back to the labs at WSMR. An alternative would be to move the fixed laboratories back to Aberdeen. However given the hazardous nature of some of the labs and the need for a controlled and remote environment for others it would seem that the labs could not function as intended at Aberdeen. Additionally the labs would not be available to support any joint testing at WSMR if they are moved to Aberdeen. Clearly this realignment is not in the best interest of the Department of Defense and can only result in increased cost and decreased scientific efficiency.

Cost

It does not seem likely that the propose realignment will save any money for the Department of Defense. In fact it appears that the realignment will increase cost in both the near and long term. The cost elements that accrue to the realignment are listed below and sum up to a considerable increase over time.

- Labor is the dominant cost of all organizations like ARL. Assuming the grade structure would remain equivalent in the re-alignment, the cost of conducting ARL business will increase by virtue of the simple fact that the federal locality pay for the east cost is higher than that of New Mexico

- A great deal of expensive, extended TDY back to WSMR will be required since about half of the work done by ARL-WSMR is direct support of Test and Evaluation programs on the range. The TDY cost of just one project, the ARL support to the Future Combat Systems will very likely exceed any possible savings contemplated by the proposed realignment. The same kinds of cost accrue to any work that must be accomplished in ARL's one of a kind WSMR Labs. Additionally if there is need for any rapid response innovative fixes or new systems developments, like the Patriot Gulf War Fix or the new Improvised Explosive Devices jammers even more extended TDY will be required. Systems development can't be done in an office in Aberdeen. It must be done on the test beds and in the specialized laboratories at WSMR

• Many, if not most, of the ARL-WSMR engineers and scientist will not move back to Aberdeen. Thus the Department of Defense is faced with the cost of hiring and training new engineers and scientist

• There is an additional but unquantifiable cost associated with this process. It will not be possible to replace the skills and expertise of the highly trained WSMR ARL workforce with all of its specialized experience and expertise. Some additional resources will have to be added to the mix to make up for this shortfall in capability as driven by the lost of expertise. This will be expensive and add to the cost of the realignment. Additionally the Department of Defense has a difficult time hiring qualified scientist and engineers because the Department of Defense pay scale is much lower than that f the private sector. This results in a lot of personal turnover and requires a costly process of constant hiring and training new people. This is particularly true on the east cost where the salary differences between the government and private sector are more notable

• There is a cost associated with long term loss of operational efficiency inherent in the proposed realignment. The loss in efficiency is driven by the need for constant TDY, the repeated hiring and training cycle, the cumbersome prospect of trying to get scientist and engineers to do accomplish their mission without being able to routinely work in their labs and the down time necessary to affect the move in the first place. It is not easy to quantify this loss of operational efficiency but it is fair to say it will be substantial and expensive

All in all the proposed realignment will cost the Department of Defense a great deal of money over time, produce nothing more than a loss of operational efficiency and probably preclude proper support of some critical Joint programs like the Future Combat Systems.

In summary, the proposed realignment of ARL-WSMR activities to Aberdeen is the result of a flawed evaluation, has no logical basis, will significantly reduce scientific and technical effectiveness and drive cost up as illustrated by the preceding paragraphs. The proposed realignment may have appeal for those that view having all of one organization at one location could present some cost saving. But, when you evaluate the type of work and environment needed to for the critical Electronic Warfare / Information Warfare testing and evaluation, it can be seen that moving people away from where the real world work is being done and into an academic environment will actually increase cost and decrease effectiveness. Taking that into consideration, the realignment recommendation does not put the best interest of the Department of Defense at the forefront.

RESOLUTION 05-358

A RESOLUTION SUPPORTING THE WHITE SANDS MISSILE RANGE (WSMR) COMMUNITY RESPONSE TEAM EFFORTS TO SAVE THE WSMR – ARMY RESEARCH LAB FROM REALIGNMENT TO THE ABERDEEN PROVING GROUNDS IN MARYLAND

The City Council is informed that:

WHEREAS, on May 13, 2005, the Department of Defense Report to the Defense Base Realignment and Closure Commission recommended that all but a minimum detachment of the Army Research Laboratory activities located at White Sands Missile Range, New Mexico, be relocated to the Aberdeen Proving Grounds in Maryland; and

WHEREAS, community leaders in Las Cruces, New Mexico, and Alamogordo, New Mexico, feel that the impact of such a realignment could potentially affect as much as 382 professional and technical employees in our communities, with many of these professionals providing vital community outreach and service; and

WHEREAS, the association between the WSMR Army Research Laboratory and New Mexico State University's Physical Science Laboratory has established a long history of collaboration, development and testing of Department of Defense systems that ensure that our soldiers and their systems survive and function in hostile environments; and

WHEREAS, these community leaders have banded together to form the WSMR Community Response Team and will lead the effort to respond to and challenge the recommendation of the Department of Defense's BRAC Report; and

WHEREAS, the WSMR Community Response Team will work to represent a cohesive voice for our community, presenting a straightforward argument for maintaining or expanding the work of the WSMR Army Research Laboratory, while accentuating the support our local government, organizations and its leaders have in this mission.

NOW, THEREFORE, be it resolved by the governing body of the City of Las Cruces:

(I)

THAT the City Council of the City of Las Cruces hereby endorses and supports the work of the WSMR Community Response Team and urges the Department of Defense Base Realignment and Closure Commissions reconsideration of the realignment of the WSMR Army Research Laboratory activities.

(II)

THAT City staff is hereby authorized to do all deeds necessary in the accomplishment of the above.

DONE AND APPROVED this 6th day of June, 2005.

APPROVED:

Mayor William Mattiace

ATTEST:

City Clerk

{SEAL}

Moved by: Archuleta

Seconded by: Frietze

VOTE:

Mayor Mattiace: Aye
Councillor Frietze: Aye
Councillor Connor: Aye
Councillor Archuleta: Aye
Councillor Trowbridge: Aye
Councillor Strain: Aye
Councillor Miyagishima: Aye

APPROVED AS TO FORM:

Deputy City Attorney

City of Las Cruces

COUNCIL ACTION FORM
For Meeting of June 6, 2005
(Adopted Date)

TITLE:

A RESOLUTION SUPPORTING THE WHITE SANDS MISSILE RANGE (WSMR) COMMUNITY RESPONSE TEAM EFFORTS TO SAVE THE WSMR – ARMY RESEARCH LAB FROM REALIGNMENT TO THE ABERDEEN PROVING GROUNDS IN MARYLAND

BACKGROUND:

On May 13, 2005, the Department of Defense Report to the Base Realignment and Closure Commission (BRAC) recommended that all but a minimum detachment of the Army Research Laboratory activities located at White Sands Missile Range (WSMR) be relocated to the Aberdeen Proving Grounds in Maryland. Although the number of personnel currently assigned to the Army Research Lab at WSMR that has been identified for transfer to Maryland is 178, it is estimated that the impact of this transfer could affect as many as 382 professional and technical employees in our area. In addition, a vital association and a history of collaboration exists between the WSMR Army Research Lab and New Mexico State University's Physical Science Laboratory for development and testing of Department of Defense systems that ensure that our soldiers and their support systems survive and function in hostile environments around the world.

A number of community leaders have come together to form the WSMR Community Response Team and will lead an effort to provide a response and a challenge to the recommendation of the BRAC report. This WSMR Community Response Team will work to represent a cohesive voice for our community and will present a straightforward argument for maintaining and/or expanding the work of the WSMR Army Research Lab. This team will also accentuate the support of local government and other organizations in this effort.

(Continue on additional sheets as required)

Name Of Drafter: Maryann Ustick	Department: Assistant City Manager	Phone: 541-2130

Department	Signature	Phone	Department	Signature	Phone
Originating Department			Budget	VA. MacGregor	541-2300
			Assistant City Manager		541-2271
Legal		541-2128	City Manager		541-2076

CAF Rev 6/01

Council Action Form *Page 2*

Account Number	Amount of Expenditure	Budget Amount
N/A	N/A	N/A

BACKGROUND CONTINUED:

The BRAC Commission will be meeting in Clovis on June 24, 2005. The WSMR Community Response Team has requested that the Las Cruces City Council approve the attached Resolution to assist in efforts to change the recommendation for realignment of the Army Research Lab to Aberdeen, Maryland.

SUPPORT INFORMATION:

Resolution;

COUNCIL OPTIONS:

1. Approve the Resolution.
2. Disapprove the Resolution
3. Provide direction to staff to revise the Resolution or provide additional information.

Resolution of Doña Ana County **Resolution No.** 05-49

A RESOLUTION

WHEREAS, the Doña Ana County Board of Commissioners is tasked to represent and address the needs of its residents, and

WHEREAS, on May 13, 2005, the Department of Defense Report to the Defense Base Realignment and Closure Commission recommended that all but a minimum detachment of the Army Research Laboratory activities located at White Sands Missile Range, N.M., be relocated to the Aberdeen Proving Grounds in Maryland, and

WHEREAS, community leaders in Doña Ana County and Otero County recognize that the impact of such a realignment could potentially affect as many as 382 professional and technical employees in our communities, with many of these professionals providing vital community outreach and service, and

WHEREAS, WSMR's Army Research Laboratory and New Mexico State University's Physical Science Laboratory have established a long history of collaboration, development and testing of Department of Defense systems that ensure that American soldiers and their systems survive and function in hostile environments, and

WHEREAS, Community leaders from across the region have banded together to form the WSMR Community Response Team to lead the effort to respond to and challenge the recommendation of the Department of Defense's BRAC Report, and

WHEREAS, the WSMR Community Response Team will work to develop and present a straightforward argument for maintaining or expanding the work of the WSMR Army Research Laboratory, while accentuating the support of local governments, civic organizations and other community leaders,

NOW THEREFORE, the Doña Ana County Board of Commissioners does hereby endorse and support the work of the WSMR Community Response Team and urges the Department of Defense Base Realignment and Closure Commissions to reconsider the realignment of the WSMR Army Research Laboratory activities.

PASSED, APPROVED AND ADOPTED this 14h day of June, 2005

Board of County Commissioners
Doña Ana County, New Mexico

Board of County Commissioners for Doña Ana County, New Mexico

William J. McCamley, Chairman (Aye)

Not Available for Signature
D. Kent Evans, Vice-Chairman (Aye)

Absent
Paul B. Curry, Member

Oscar Vasquez Butler, Member (Aye)

Dolores Saldaña-Caviness, Member (Aye)

Attested: Rita Torres, County Clerk

STATE OF NEW MEXICO
COUNTY CLERK
DONA ANA COUNTY

State of New Mexico
County of Dona Ana, ss
RECEPTION NO. 19174
I hereby certify that this instrument was filed for recording and duly recorded on
JUN 14 2005
at 3:25 o'clock P M
Book 1616 Page 1084-1085
of the Records of said County.
Rita Torres, County Clerk
By [signature] DEPUTY

A RESOLUTION SUPPORTING THE WHITE SANDS MISSILE RANGE (WSMR) COMMUNITY RESPONSE TEAM EFFORTS TO SAVE THE WSMR – ARMY RESEARCH LAB FROM REALIGNMENT TO THE ABERDEEN PROVING GROUNDS, MARYLAND

The Board of Directors of the Greater Las Cruces Chamber of Commerce is informed that:

Whereas, on May 13, 2005, the Department of Defense Report to the Defense Base Realignment and Closure Commission recommended that all but a minimum detachment of the Army Research Laboratory activities located at White Sands Missile Range, NM be relocated to the Aberdeen Proving Grounds, Maryland; and

Whereas, community leaders in Las Cruces, New Mexico and Alamogordo, New Mexico feel that the impact of such a realignment could potentially affect as much as 382 professional and technical employees in our communities, with many of these professionals providing vital community outreach and service; and

Whereas, the association between the WSMR Army Research Laboratory and New Mexico State University's Physical Science Laboratory have established a long history of collaboration, development and testing of Department of Defense systems that ensure that our soldiers and their systems survive and function in hostile environments; and

Whereas, these community leaders have banded together to form the WSMR Community Response Team and will lead the effort to respond to and challenge the recommendation of the Department of Defense's BRAC Report; and

Whereas, the WSMR Community Response Team will work to represent a cohesive voice for our community, presenting a straightforward argument for maintaining or expanding the work of the WSMR Army Research Laboratory, while accentuating the support our local government, organizations and its leaders have in this mission.

Now, Therefore, be it resolved by the Board of Directors of the Greater Las Cruces Chamber of Commerce:

(I)

That the Greater Las Cruces Chamber of Commerce hereby endorses and supports the work of the WSMR Community Response Team and urges the Department of Defense Base Realignment and Closure Commissions reconsideration of the realignment of the WSMR Army Research Laboratory activities.

(II)

That, staff is hereby authorized to do all deeds necessary in the accomplishment of the herein above.

Done and Approved this June 14, 1005.

APPROVED:

Fred Mobley, Chairman of the Board

ATTEST:

Jim Berry, President

RESOLUTION NO. 2005-20

A RESOLUTION SUPPORTING THE WHITE SANDS MISSILE RANGE (WSMR) COMMUNITY REPSONSE TEAM EFFORTS TO SAVE THE WSMR – ARMY RESEARCH LAB FROM REALIGNMENT TO THE ABERDEEN PROVING GROUNDS, MARYLAND

The Governing Body of the City of Alamogordo is informed that:

WHEREAS, on May 13, 2005, the Department of Defense Report to the Defense Base Realignment and closure Commission recommended that all but a minimum detachment of the Army Research laboratory activities located at White Sands Missile Range, NM be relocated to the Aberdeen Proving Grounds, Maryland; and,

WHEREAS, community leaders in Las Cruces, New Mexico and Alamogordo, New Mexico feel that the impact of such a realignment could potentially affect as much as 382 professional and technical employees in our communities, with many of these professionals providing vital community outreach and service; and,

WHEREAS, the association between the WSMR Army Research Laboratory and New Mexico State University's Physical Science Laboratory have established a long history of collaboration, development and testing of Department of Defense systems that ensure that our soldiers and their systems survive and function in hostile environments; and,

WHEREAS, these community leaders have banded together to form the WSMR Community Response Team and will lead the effort to respond to and challenge the recommendation of the Department of Defense's BRAC Report; and,

WHEREAS, the WSMR Community Response Team will work to represent a cohesive voice for our community, presenting a straightforward argument for maintaining or expanding the work of the WSMR Army Research Laboratory, while accentuating the support our local government, organizations and its leaders have in this mission.

NOW, THEREFORE BE IT RESOLVED by the City Commission of the City of Alamogordo that the City Commission hereby endorses and supports the work of the WSMR Community Response Team and urges the Department of Defense Base Realignment and Closure Commissions reconsideration of the realignment of the WSMR Army Research Laboratory activities.

BE IT FURTHER RESOLVED that staff is hereby authorized to do all deeds necessary in the accomplishment of the herein above.

DONE this 14th day of June, 2005.

CITY OF ALAMOGORDO, NEW MEXICO
a New Mexico municipal corporation

By: _____
Donald E. Carroll, Mayor

ATTEST:

_____
Angie J. Rahn-Broyles, City Clerk

APPROVED AS TO FORM:

_____
Kenneth S. McDaniel, City Attorney

P.O. Box 846 • Santa Fe, New Mexico 87504-0846
Phone (505) 982-5573 • 1-800-432-2036
FAX No. 1-505-984-1392

June 9, 2005

Honorable Anthony J. Principi, Chair
BRAC Commission
2521 South Clark Street
Ste. 600
Arlington, Virginia 220202

Mr. Chairman:

The New Mexico Municipal League's Board of Directors met on Saturday, June 4th, 2005 and the realignment of White Sands Missile Range (WSMR), Army Research Laboratory was an item for discussion on our agenda. The New Mexico Municipal League represents all 102 incorporated municipalities in New Mexico.

The association between the WSMR Army Research Laboratory and New Mexico State University's Physical Science Laboratory has established a long history of collaboration, development and testing of Department of Defense systems. Our municipal officials and the Cities of Las Cruces and Alamogordo are concerned with the potential loss of these types of jobs both in the professional and technical fields.

New Mexico municipalities, the university and the State have all made a great commitment to White Sands Missile Range and the Laboratory. The commitments, relationships and partnerships that have been forged between these entities have provided value to the accomplishment of the WSMR mission.

On behalf of all 102 municipalities in the State, the New Mexico Municipal League supports the retention of the WSMR Army Research Laboratory in maintaining or expanding its laboratory work. We in New Mexico are very proud to be part of the tradition and work of the WSMR and its mission. We respectfully request your favorable reconsideration in the retention of the Army Research Laboratory.

Sincerely,

Carol Robertson Lopez

Carol Robertson Lopez, President
New Mexico Municipal League

cc: US Senator Pete Domenici
US Senator Jeff Bingaman
US Representative Heather Wilson
US Representative Steve Pearce
US Representative Tom Udall
Mayor Don Carol - City of Alamogordo
Mayor William Mattiace – City of Las Cruces

PROCLAMATION

FOR A RESOLUTION SUPPORTING THE WHITE SANDS MISSILE RANGE (WSMR) COMMUNITY RESPONSE TEAM EFFORTS TO SAVE THE WSMR – ARMY RESEARCH LAB FROM REALIGNMENT TO THE ABERDEEN PROVING GROUNDS, MARYLAND

The BOARD OF COUNTY COMMISSIONERS OTERO COUNTY, NEW MEXICO is informed that:

Whereas, on May 13, 2005, the Department of Defense Report to the Defense Base Realignment and Closure Commission recommended that all but a minimum detachment of the Army Research Laboratory activities located at White Sands Missile Range, NM be relocated to the Aberdeen Proving Grounds, Maryland; and

Whereas, community leaders in Otero County and Doña Ana County, New Mexico feel that the impact of such a realignment could potentially affect as much as 382 professional and technical employees in our communities, with many of these professionals providing vital community outreach and service; and

Whereas, the association between the WSMR Army Research Laboratory and New Mexico State University's Physical Science Laboratory have established a long history of collaboration, development and testing of Department of Defense systems that ensure that our soldiers and their systems survive and function in hostile environments; and

Whereas, these community leaders have banded together to form the WSMR Community Response Team and will lead the effort to respond to and challenge the recommendation of the Department of Defense's BRAC Report; and

Whereas, the WSMR Community Response Team will work to represent a cohesive voice for our community, presenting a straightforward argument for maintaining or expanding the work of the WSMR Army Research Laboratory, while accentuating the support our local government, organizations and its leaders have in this mission.

Now, Therefore, be it resolved by the BOARD OF COUNTY COMMISSIONERS OTERO COUNTY, NEW MEXICO:

That the BOARD OF COUNTY COMMISSIONERS OTERO COUNTY, NEW MEXICO hereby endorses and supports the work of the WSMR Community Response Team and urges the Department of Defense Base Realignment and Closure Commissions reconsideration of the realignment of the WSMR Army Research Laboratory activities.

DCN: 11677

PROCLAIMED, during a regular meeting of the Otero County Commission Board this 14th day of June 2005.

ATTEST:

Robyn Silva, County Clerk

BOARD OF COUNTY COMMISSIONERS
OTERO COUNTY, NEW MEXICO

Clarissa McGinn, Chairperson

Doug Moore, Vice-Chairman

Michael Nivison, Member

MESILLA VALLEY
ECONOMIC DEVELOPMENT ALLIANCE

STILL RANKED the BEST
LAS CRUCES NEW MEXICO
www.las-cruces-new-mexico.org

A RESOLUTION SUPPORTING THE WHITE SANDS MISSILE RANGE (WSMR) COMMUNITY RESPONSE TEAM EFFORTS TO SAVE THE WSMR – ARMY RESEARCH LAB FROM REALIGNMENT TO THE ABERDEEN PROVING GROUNDS, MARYLAND

Whereas, on May 13, 2005, the Department of Defense Report to the Defense Base Realignment and Closure Commission recommended that all but a minimum detachment of the Army Research Laboratory activities located at White Sands Missile Range, New Mexico be relocated to the Aberdeen Proving Grounds, Maryland; and

Whereas, community leaders in Las Cruces, New Mexico and Alamogordo, New Mexico feel that the impact of such a realignment could potentially affect as much as 382 professional and technical employees in our communities, with many of these professionals providing vital community outreach and service; and

Whereas, the association between the White Sands Missile Range Army Research Laboratory and New Mexico State University's Physical Science Laboratory have established a long history of collaboration, development and testing of Department of Defense systems that ensure that our soldiers and their systems survive and function in hostile environments; and

Whereas, the location of the Army Research Laboratory at White Sands Missile Range provides immediate access to the nation's leading testing and development range resulting in process efficiencies and commensurate savings in weapons development and testing, and

Whereas, the large and diverse physical setting contained within the sizeable WSMR protected area, including a physical environment similar to the Mideast, provides a much larger and varied range of testing environments than that found in the more congested area surrounding Aberdeen Proving Grounds, and

Whereas, these community leaders have banded together to form the WSMR Community Response Team and will lead the effort to respond to and challenge the recommendation of the Department of Defense's BRAC Report; and

P.O. Box 1299 ■ Las Cruces, NM 88004-1299 ■ Loretto Towne Centre ■ 505 S. Main St., Suite 134
505.525.2852 ■ 1.800.523.6833 ■ Fax 505.523.5707 ■ http://www.mveda.com ■ sites@mveda.com

Whereas, the WSMR Community Response Team will work to represent a cohesive voice for our community, presenting a straightforward argument for maintaining or expanding the work of the WSMR Army Research Laboratory, while accentuating the support our local government, organizations and its leaders have in this mission.

Now, therefore, be it resolved by the Board of Directors of the Mesilla Valley Economic Development Alliance:

(I)

That the Mesilla Valley Economic Development Alliance hereby endorses and supports the work of the WSMR Community Response Team and urges the Department of Defense Base Realignment and Closure Commissions reconsideration of the realignment of the WSMR Army Research Laboratory activities.

(II)

That, staff is hereby authorized to do all deeds necessary in the accomplishment of the herein above.

Done and Approved this June 14, 2005.

APPROVED:

Kari Mitchell
Chair, Board of Directors
Mesilla Valley Economic Development Alliance

ATTEST:

Steven L. Vierck
President and CEO
Mesilla Valley Economic Development Alliance

SCCOG RESOLUTION NO. SCCOG 2005-1

A RESOLUTION SUPPORTING THE WHITE SANDS MISSILE RANGE (WSMR) COMMUNITY RESPONSE TEAM EFFORTS TO SAVE THE WSMR – ARMY RESEARCH LAB FROM REALIGNMENT TO THE ABERDEEN PROVING GROUNDS, MARYLAND

The South Central Council of Governments, Inc. is informed that:

Whereas, on May 13, 2005, the Department of Defense Report to the Defense Base Realignment and Closure Commission recommended that all but a minimum detachment of the Army Research Laboratory activities located at White Sands Missile Range, NM be relocated to the Aberdeen Proving Grounds, Maryland; and

Whereas, community leaders in Las Cruces, New Mexico and Alamogordo, New Mexico feel that the impact of such a realignment could potentially affect as much as 382 professional and technical employees in our communities, with many of these professionals providing vital community outreach and service; and

Whereas, the association between the WSMR Army Research Laboratory and New Mexico State University's Physical Science Laboratory have established a long history of collaboration, development and testing of Department of Defense systems that ensure that our soldiers and their systems survive and function in hostile environments; and

Whereas, these community leaders have banded together to form the WSMR Community Response Team and will lead the effort to respond to and challenge the recommendation of the Department of Defense's BRAC Report; and

Whereas, the WSMR Community Response Team will work to represent a cohesive voice for our community, presenting a straightforward argument for

maintaining or expanding the work of the WSMR Army Research Laboratory, while accentuating the support our local government, organizations and its leaders have in this mission.

Now, Therefore, be it resolved by the South Central Council of Governments, Inc.:

(I)

That the South Central Council of Governments, Inc. hereby endorses and supports the work of the WSMR Community Response Team and urges the Department of Defense Base Realignment and Closure Commissions reconsideration of the realignment of the WSMR Army Research Laboratory activities.

(II)

That, staff is hereby authorized to do all deeds necessary in the accomplishment of the herein above.

Done and Approved this May 27, 2005

APPROVED:

Gordy Hicks, SCCOG Chairman

Elizabeth A. Bernal, Executive Director

ATTEST:

Linda Crawford, Executive Assistant

DCN:11677

DCN:11677

DCN:11677

DCN:11677

Farrington, Lester, CIV, WSO-BRAC

M Congressman Says White Sands Should Keep Lab

l Paso Times (El Paso, TX)
Chris Roberts
June 30, 2005

A proposal to move the **Army Research Laboratory at White Sands Missile Range to Maryland** would probably cost taxpayers more money in the long run and could ultimately weaken the nation's defense, a New Mexico congressman said.

"I think it's going to create a higher operating expense rather than a neutral one," Republican Steve Pearce said.

The laboratory would move to Aberdeen Proving Ground in Maryland under the Pentagon's proposed Base Realignment and Closure list. The consolidation of laboratories would "provide greater synergy across technical disciplines," according to the Pentagon, and create an **annual savings of $41 million a year after moving costs are paid over four** years.

Although the number of jobs to be moved from White Sands is listed as 178, the lab's entire work force, the proposal calls for leaving "the minimum detachment required to maintain the test and evaluation functions."

Pearce said the projected savings didn't seem realistic. Estimates of the actual number of jobs that would be lost has ranged from 40 to 100, he said. The exact number is still being worked out, said Brig. Gen. Robert P. Reese, White Sands commander.

"They'll keep whatever size team here we need to continue our testing, so we don't believe that ... any programs will fail to test at White Sands or be forced to go somewhere else," Reese said. "Our goal is to change as necessary to remain levant and ready."

Pearce said living and operating costs would be higher in Maryland.

At a hearing last week in Clovis, N.M., state officials asked the BRAC Commission to change the Pentagon's recommendations. Commissioner Philip Coyle acknowledged that some of the lab's testing would require open spaces available only at White Sands, which has 2.2 million acres and all the airspace over it.

"Would moving people to Aberdeen, perhaps having them travel back to White Sands, would that increase the cost and perhaps discourage them from using White Sands?" Coyle asked.

Pearce said it would increase costs, potentially hurting projects vital to the nation's defense and the safety of its soldiers.

"Absolutely. To keep within budget, you begin to shut down your research," Pearce said, "or you wait until next month."

Keeping a unit open at White Sands means funding two operations. "If they keep a tenant unit open, there are fixed costs that will be the same for 10 people as for 50 people," Pearce said. "In a building, you have to heat and cool to the same temperatures. ... You drive the cost per employee up. The economic or fiscal sense escapes me."

Moving the lab would also cost New Mexico State University about $10 million a year in research grants, said Don Birx, director of the school's Physical Science Laboratory. That's about 7 percent of the university's total, he said.

Now, about 60 faculty and students are working on laboratory projects, Birx said.

he work that ARL (Army Research Laboratory) is doing is some of the most advanced that is going on at White Sands **issile Range," Birx** said. **"It's** a very significant part of the research at NMSU."

Birx said the research, including weather forecasting and analysis of battlefield systems' vulnerability to jamming

DCN:11677

techniques, is about half computer modeling and half field-testing. He said lab contracts account for about 95 percent of the school's involvement with White Sands.

"If that were to go away, the involvement between White Sands Missile Range and the university would be significantly decreased," Birx said. "White Sands Missile Range has been a significant component for employing students. Their research has a lot of synergy with the university. I think from our perspective, it would be a significant blow."

Reese said NMSU's participation in White Sands projects has fluctuated over the years since it began in the 1940s. He said the relationship is important and believes it will rebound if the lab is moved.

"There's a potential for them to play a bigger role in support of the Army's White Sands Test Center," Reese said.

Las Cruces, which fights for every job it gets, would feel the impact of the move, officials said.

"All of the jobs that ARL has are filled locally," Reese said. "That's one of the reasons why losing an element like ARL is difficult for a community like ours. ... They are integrated into our community not only in the testing that we do but in day-to-day activities."

Former New Mexico Gov. Garrey Carruthers told the commissioners at the Clovis hearing that about 75 percent of the lab personnel said they would rather stay in New Mexico by retiring or trying to find other jobs.

Pearce said he would continue to fight for keeping the laboratory at White Sands and would, if necessary, step up recruiting to bring more jobs to the area.

"Only 15 percent of these cases are ever reversed, so we know it's a very steep hill we have to climb," he said. "But we don't mind fighting the hard fights."

DCN:11677

TECH 22

~~GLENN LAB~~

WSMR

Farrington, Lester, CIV, WSO-BRAC

From: Huo, Chien Dr ASA(I&E) [Chien.Huo@US.ARMY.MIL]
Sent: Thursday, August 04, 2005 2:01 PM
To: Farrington, Lester CIV WSO-BRAC
Cc: Simmons, Brian
Subject: Defense Research Service Led Laboratories (UNCLASSIFIED)

Classification: **UNCLASSIFIED**
Caveats: FOUO

Mr. Farrington,

As requested, desciprtion and population data from WSMR, Glenn and Langley. One more note on WSMR: There are two components to be re-located: battlefield environments (weather prediction and measurement) and the non-test and evaluation portion of the Survivability, Lethality Analysis Directorate (SLAD).

For SLAD, ARL is still determining the required level to leave at White Sands to support the testing and evaluation mission of White Sands. This number is under review currently within HQDA (DUSA-OR) and ARL..

For the battlefield environments (40 civilians), ARL wishes to move them to Adelphi because Adelphi is a better fit than APG (Adelphi has an atmospheric Science Lab). If this change is acceptable, it will consolidate all ARL battlefield environment research at one location and provide maximum synergy and economy.

If you need further details, pls do not hesitate to call me at 696-9773.

Regards

Chien Huo

Chien Huo
Army Basing Study (TABS)
RDTE Analyst
703-696-9773, DSN 426
703-696-2195 (fax)

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

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1.Recommendation: Defense Research Service Led Laboratories- Army

2. Population Movement Table:

Transfers from WHITE SANDS, NM to ABERDEEN, MD

	2006	2007	2008	2009	2010	2011
Officer Positions:	0	0	0	1	0	0
Enlisted Positions:	0	0	0	10	0	0
Civilian Positions:	0	0	0	145*	0	0

* Including battlefield environments and SLAD. Will change after the size of WSMR detachment at WSMR is finalized and if battlefield environments move to Adelphi.

Transfers from Langley Res Ctr, VA to ABERDEEN, MD

Officer Positions:	0	0	1	0	0	0
Enlisted Positions:	0	0	2	0	0	0
Civilian Positions:	0	0	30	0	0	0

DCN:11677

Transfers from Glenn Res Ctr, OH to ABERDEEN, MD

Officer Positions:	0	0	0	0	0	0
Enlisted Positions:	0	0	0	0	0	0
Civilian Positions:	0	0	30	0	0	0

3. Description (with the proposed change to send battlefield environments to Adelphi):

Realign Army Research Laboratory (ARL), Vehicle Technology Directorate at Langley, VA and Glenn, OH to ARL, Aberdeen Proving Ground, MD. thus consolidating all ARL vehicle research for propulsion, structures, and materials at one location. Realign C4ISR related analysis and evaluation functions of ARL's Survivability/Lethality Analysis Directorate from White Sands, NM to ARL at Aberdeen Proving Ground, MD. Realign the research in battlefield environment research of ARL's Computational and Information Sciences Directorate from White Sands, NM, to ARL, Adelphi, MD.

Justification: This recommendation addresses the transformational objective of consolidating research and its associated work to as few sites as is economical in a manner to better address Joint Warfare.

It will consolidate all of ARL's vehicle related research for propulsion, structures, and materials at APG, will allow for more efficient utilization of APG facilities, and will enable the Army to conduct its research requiring the use of wind tunnels, propulsion test cells, etc., wherever the most economical rate can be achieved on an as needed basis.

The recommendation to realign ARL's analysis and evaluation functions related to C4ISR will enable significant levels of synergism and efficiency between the C4ISR research and analysis being consolidated at APG and the analysis and evaluation currently conducted at WSMR. It is anticipated that this will enhance the value of both the research and the analysis and provide for economies in the use of equipment and expertise.

The recommendation to realign ARL battlefield environment research from White Sands to Adelphi will consolidate all ARL battlefield environment research at one location and provide maximum synergy and economy.

These realignments, in conjunction with other planned realignments, will enable ARL to reduce its presence at WSMR and will allow ARL to reduce its number of locations from six to three and thus operate from a stronger position relative to attracting and retaining quality staff and conducting its mission.

Classification: **UNCLASSIFIED**
Caveats: FOUO

Farrington, Lester, CIV, WSO-BRAC

From: Lawrence C. Schuette [schuette@enews.nrl.navy.mil]
Sent: Wednesday, August 10, 2005 10:51 AM
To: lester.farrington@wso.whs.mil
Subject: Wsmr to apg

Hi Les

I spoke with the Army principal. He would prefer to move wsmr to apg or not at all.

Thanks
Larry

Lawrence C. Schuette, Ph.D. schuette@nrl.navy.mil
Code 5707.5 (202)767-6814
Naval Research Laboratory (202)767-6767 (fax)

DCN:11677

TECH-22
ARL/WSMR

Farrington, Lester, CIV, WSO-BRAC

From: Van Saun, David, CIV, WSO-BRAC
Sent: Saturday, July 09, 2005 7:46 PM
To: Delgado, George, CIV, WSO-BRAC; Farrington, Lester, CIV, WSO-BRAC
Subject: FW: Cannon notes

FYI

-----Original Message-----
From: Robertson, Kathleen, CIV, WSO-BRAC
Sent: Friday, July 08, 2005 10:10 AM
To: Breitschopf, Justin, CIV, WSO-BRAC
Cc: Combs, David, CIV, WSO-BRAC; Van Saun, David, CIV, WSO-BRAC
Subject: Cannon notes

I do not have the speakers,witnesses, but here are my notes, chronological, by subject matter

White Sands

TECH-22

Army Research Lab at White Sands

Has been there for 52 years. Well established lab for testing missiles and counter measures.
Military value will be impacted if moved to MD. What is the primary purpose and justification for this move??
Mission functions do not fit with the missiona and functions of Aberdeen.
Issues of concern:
"We build jammders to test against missiles. This testing cannot be done in MD with the population density issues."
Lasers cannot be tested in MD due to safey and environmental reasons.
Testing capability and capacity is a big issue.
Costs would increase due to the move to Abderdeen as personnel would have to travel back and forth to White Sands to perform test and evaluation.
Impact on mission as many people would not want to do that and this would impact testing.
Significant loss of human capital and expertise also an issue.

Centrifuge issue. Movement of centirfuge. AF wants to mothball one. The one at White Sands is the oldest. But does this compromise AF ability to do G force testing on pilots, who are doing fighter weapon school training at Holloman? Question raised by commissioners Newton and Coyle, is should Brooks centrifuge go to Wright Patterson, leave the one at Holloman. (This may need to be commented on by medical, education-training, technical.

Arizona

Do not want the Mesa Lab located to Wright Patterson. Center of Excellence in Modeling/Simulation and a lot of human capital would be lost. 80% of employees would not move. Gov made counter proposal of allowing Arizona State to take over the function and partner with DoD. Simulations could continue.
Newton asked if all of the lab should be kept there. The response was yes.
Note: Newton asked about the DoD corporate lab strategy to be addressed and this was answered by Clearing House questions that just came back last week.

Nevada

Hawthorne.
Loss of 30% jobs. If you add the indirect, this will be a loss of 50% of jobs in Hawthorne area.
Other uses not considered during evaluation: Marine Corps Training, Navy Special Ops Training. Joint use and functions not identified or fully evaluated during evaulation.
Closure costs: $180M. $840M cost for remediation.

DCN:11677

Armament dismantling at Hawthorne has no encroachment issues for consideration, current an future.
Will be difficult for other depots to absorb Hawthorne's mission since many of them will be at capacity(98%) by 2007. How would you recreate the capability at Hawthorne?
Hawthorne believes that important data not considered. Wants a Commissioner visit. (This is being coordinated., Commissioner Coyle will accompany George. George has put together file in anticipation of the trip (20 July))

Homeland Security Issues (I think this was the governor)

Nevada has many terrorist targets dams, resorts, etc.

C-130 airlift is vital. If current DoD plan is implemented, there will be one C-130 west of Rockies. Issue, since Active duty cannot assist.

Guard unit in Nevada flies a unique intelligence gathering mission in support of Homeland Security/Defense. Members with expertise would not move and would impact mission capability.

The Goverenors and their TAGs were excluded by DoD from the process. Governor's view is that DoD acted counter to the law in which the governors are to be consulted by DoD.

DCN:11677

DCN:11677

ABERDEEN VISIT BY ARMY

Farrington, Lester, CIV, WSO-BRAC

From: Hood, Wesley, CIV, WSO-BRAC
Sent: Sunday, June 26, 2005 1:17 PM
To: Mandzia, Lesia, CIV, WSO-BRAC; Schmidt, Carol, CIV, WSO-BRAC; Farrington, Lester, CIV, WSO-BRAC; Durso, James, CIV, WSO-BRAC
Cc: Rhody, Dean, CIV, WSO-BRAC; Dinsick, Robert, CIV, WSO-BRAC; Butler, Aaron, CIV, WSO-BRAC
Subject: Aberdeen Proving Grounds Draft Base Visit Report

Attachments: Aberdeen Visit Report.doc

Colleagues -

Attached is a draft base visit report for APG. Dean and I visited to look at recommendations USA-11, E&T-6 and H&SA-46.

Each of you has one or more of the other seven recommendations that touch APG and I want to solicit any comments or issues you may have associated with your recommendations so that I can include them in the final report and preclude each of you having to do some sort of report as well.

I am on the road this week, but if you will send me your comments I will put together the final base visit report when I return. Negative input comments would be appreciated.

Thanks . Wes

Aberdeen Visit Report.doc (64 ...

Wes Hood
Senior Army Analyst
BRAC Commission
703 699-2950

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Base Visit Report
Aberdeen Proving Ground, MD
20 June, 2005

Lead commissioner:

No commissioner visited.

Commission Staff:

Dean Rhody (Senior Analyst, Army Team)
Wes Hood (Senior Analyst, Army Team)

List of Attendees: **(Broken down by session)**

Garrison/Installation Overview Session:

1. BG(P) Vincent E. Boles, Ordnance Center and School
2. COL Kevin M. Smith, Ordnance Center and School
3. Mr. David Guzewich, Army Environmental Center
4. Mr. Tim McNamara, APG Garrison
5. Ms. Judith Wettig. APG Garrison
6. Mr. David Carter, APG Garrison
7. Mr. Tim Brandenburg, APG Garrison
8. Ms. Linda Holloway,APG Garrison
9. Mr. Andrew Murphy, Garrison BRAC Team
10. Mr. Carl Smith, Garrison BRAC Team
11. Ms. Katie McRoberts, Garrison BRAC Team
12. Mr. Farrell E. Dreisbach, Jr., Garrison BRAC Team
13. Mr. Tom Vincenti, Garrison BRAC Team
14. Mr. Bill Richardson, Harford County, MD
15. Mr. Tom Sadowski, Harford County, MD
16. Ms. Kathy Abey, staff member of Representative Gilchrest
17. Mr. Walter Gonzales, staff member of Representative Ruppersberger
18. Mr. Sean Kennedy, staff member of Senator Mikulski
19. Ms. Ellen James, staff member of Senator Mikulski
20. Ms. Brigid Smith, staff member of Senator Sarbanes
21. Mr. Jason Gleason, staff member of Senator Sarbanes

Ordnance Center and School visit:

1. BG Vincent Boles, CG, Ordnance Center & School
2. COL Kevin M. Smith, Deputy Commander/Chief of Staff
3. COL Frank Merritt, Commander 61st OD Bde
4. Dr Aileen Tobin, Deputy 61st OD Bde

5. Mrs. Carol Nye, Executive Assistant to the CG, USAOC&S
6. Mr Walter Gonzales, Deputy Chief of Staff to congressman Ruppersburger
7. Mr Jason Gleason, Legislative Assistant to Senator Sarbanes
8. Ms Ellen Janes, Projects Director to Senator Mikulski

Army Environmental Center visit:

1. COL Tony Francis, Commander, USAEC
2. Mr. David Guzewich, USAEC
3. Mr. Keith Millison, USAEC
4. Mr. Andrew Murphy, APG Garrison PAIO
5. Dr. Ken Juris, USAEC
6. LTC Ben Tozzi, USAEC
7. Mr. Randy Cerar, USAEC
8. Mr. Robert E. DiMichele, USAEC
9. Mr. Sean Kennedy, staff of Senator Mikulski
10. Mr. Walter Gonzales, staff of Representative Ruppersberger
11. Mr. Jason Gleason, staff of Senator Sarbanes

Installation Mission: DoD's Center of Excellence for Land Combat Systems supporting the Nation through efforts of 66 highly integrated resident organizations engaged in Research, Development and Engineering; Test, Evaluation and Analysis; Operations and Training on Land and Sea Systems, Warfighter Systems, Chemical and Biological Defense, and Homeland Security.

Secretary of Defense Recommendations and Justifications:

Aberdeen Proving Grounds is affected by the provisions of the ten recommendations listed below. See the appropriate sections of Department of Defense, Base Closure and Realignment Report, Volume I: Part 2 of 2, Detailed Recommendations, May 2005, for the complete text of all recommendations and justifications:

1. Army-11, Close Fort Monmouth, NJ
2. Education & Training-6, Combat Service Support Center
3. Headquarters & Support Activities-18, Consolidate Army Test and Evaluation Command (ATEC) Headquarters
4. Headquarters & Support Activities-19, Consolidate Civilian Personnel Offices (CPOs) within each Military Department and the Defense Agencies
5. Headquarters & Support Activities-46, Relocate Army Headquarters and Field Operating Agencies
6. Medical-4, Walter Reed National Miliatry Medical Center, Bethesda, MD
7. Medical-6, Brooks City Base, TX
8. Medical-15, Joint Centers of Excellence for Chemical, Biological, and Medical Research and Development and Acquisition
9. Supply and Storage-7, Depot Level Reparable Procurement Management Consolidation

DCN:11677

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TECH-22

10. Technical-22, Defense Research Service Led Laboratories

Installation gains:

Brooks City Base, TX (Med-6) – Close Brooks. Relocate the Non-Medical Chemical Biological Defense Development and Acquisition to APG. (16 mil; 12 civ)

Consolidate Army Test and Evaluation Command (H&SA-18) – Move ATEC from leased space in Alexandria to APG. (169 mil; 193 civ)

Consolidate Civilian Personnel Offices (H&SA-19) – Realign Rock Island CPOC by relocating it to Ft Riley, KS, and APG. (106 civ)

Defense Research Service Led Laboratories (Tech-22) – Move the Vehicle Technology Directorates of Army Research Laboratory Langley, VA, and Army Research Laboratory Glenn, OH, to APG. Also move the Army Research Laboratory White Sands, NM (minus a minimum detachment required to maintain Test and Evaluation at White Sands), to APG. (14 mil; 214 civ)

Depot Level Reparable (DLR) Procurement Management Consolidation (S&S-7) – Relocate procurement management, integrated material management and related support functions for Depot Level Reparable from Ft Huachuca to APG. (228 civ)

Close Ft Monmouth, NJ (USA-11) – Relocate Information Systems, Sensors, Electronic Warfare, and Electronics Research and Development and Acquisition to APG. Additionally, relocate procurement management and related support functions for DLR to APG. (187 mil; 4853 civ)

Establish Joint Centers of Excellence for Chemical, Biological, and Medical Research, Development and Acquisition (Med-15) – Consolidate several chemical and biological defense research components into the Chemical Biological Center at APG. Components will come from Ft Belvoir (Defense Threat Reduction Agency), Tyndall AFB, Naval Surface Warfare Center (Dahlgren and Crane Divisions), and leased facilities in Falls Church. (33 mil; 256 civ)

Realign Walter Reed (Med-4) – In the move of Walter Reed, send the Medical Chemical Defense Research to APG. (12 mil; 13 civ)

Installation Losses:

Move the Ordnance Center and School (E&T-6) – Move the school to Ft Lee, VA. (-1039 mil; -343 civ; -2818 students)

Move the Army Environmental Center (H&SA-46) – Move the center to Ft Sam Houston, TX (-5 mil; -175 civ)

DRAFT

Main facilities reviewed:

This visit directly addressed recommendations USA-11, H&SA-46 and E&T-6. Other analysts have been asked to provide input to this report for their recommendations, as appropriate.

Mr. Hood reviewed the requirements of recommendation H&SA-46.

Mr Hood reviewed the Army Environmental Center facility.

Mr Rhody reviewed the Ordnance Center and School facilities, including Dickson, Cohen, Rozier, Slaughter and Downer Halls. The review included the Large Artifact Rehab Facility and the museum. The tour concluded at the Edgewood Area of APG.

Key issues identified:

All issues are implementation issues.

Sufficient space exists to accommodate all activities moving onto APG

Need to provide continuity of training during the transition phase of the move.

Handling of multiple large artifacts (historical combat vehicles), including a determination on the final disposition of the museum.

Sufficient power grid and feeds for heavy electrical use in training.

Sufficient stand-off room for noise and for explosive gases used in training.

Construction requirements must include exhaust systems for vehicle maintenance training and welding training, large free-span spaces with bay doors sufficient to handle the largest vehicle in the fleet. Buildings would also require multiple ton overhead lift capability in many training bays. Fuel storage and refrigerate storage must be provided for welding and air conditioning training.

Live fire site for convoy training.

Community concerns raised:

No issues were identified outside the post gates. Review of submissions from the local and state officials indicated strong support for the overall BRAC recommendations.

DRAFT

Requests for staff as a result of the visit:

None. Army Environmental Center, APG Garrison and Ordnance Center and School personnel all viewed the move as a challenge but were already beginning the work necessary to make all moves into and out of APG successful.

C. Dean Rhody
Senior Analyst
Army Team, BRAC

Wes Hood
Senior Analyst
Army Team, BRAC

DCN:11677

BASE VISIT REPORT

DEFENSE FINANCE AND ACCOUNTING CENTER (DFAS) Cleveland, OH

and

ARMY RESEACH LAB – GLENN, OH

June 23, 2005

LEAD COMMISSIONER: General Lloyd "Fig" Newton

ACCOMPANYING COMMISSIONER: None

COMMISSION STAFF: Marilyn Wasleski

DFAS

LIST OF ATTENDEES:

Governor Bob Taft
Rep. Dennis Kucinich
Rep. Steven LaTourette
Rep. Stephanie Tubbs Jones

Kenneth Sweitzer, Site Director, (216) 522-5511 – sweitzer.kenneth@dfas.mil
Lee Krushinski, Director, Accounting Services, Cleveland, (216) 522-5511
Dennis Long, Resource Integration, DFAS
Jay Griesser, TSO, DFAS
Alan Ziliak, Accounting, DFAS
Capt. Karl Bernhardt, Director, Retired Pay, DFAS
Jim Pitt, Director, Electronic Pay, DFAS
Cheryl Catania, Acting Director, Military Pay, DFAS
Joseph Madigan, Asst Gen. Counsel, DFAS
Rodney Winn, Director, Garnishment Operations, DFAS
Zanell Osowski, Public Affairs Officer, DFAS
George Wingfield, Director, Centralized Disbursing, DFAS
Carol Wessel, Director HR Business Unit Accounting, DFAS
Victor Davis, President, AFGE 3283
Kevin Hart, Admin Officer, DFAS

Norbert Kieszkowksi, Deputy Asst. Regional Admin.- GSA (312) 353-5572
Jennifer Enhart, Dir. Real Estate Portfolio, GSA, (312) 886-5574
Jesse Ozona, Lead Asset Manager, GSA, (312) 886-4493
Valerie Grant, Regional Account Manager, GSA, (312) 886-3316

Michelle Gilleirst, Regional Director, Senator DeWine
John Stilliana, District Rep. Senator Voinovich
Louis Gomez Congressional Staff, Congressman Kucinich
Marty Gelfand, Congressional Staff, Congressman Kucinich
Joe Benny, Congressional Staff, Congressman Kucinich
Megann Eberhart, Regional Office Governor Taft
Carol Caruso, VP Advocacy, Greater Cleveland Partnership
Rachel Shatten, Greater Cleveland Partnership

PRESENT MISSION:

To provide responsive, professional accounting and vendor pay services for the people who defend America.

SECRETARY OF DEFENSE RECOMMENDATION:

Close the Defense Finance and Accounting Service (DFAS) in Cleveland, OH. Relocate and consolidate business, corporate and administrative functions to the Defense Supply Center-Columbus, OH, the Buckley Air Force Base Annex, Denver, CO, or the MG Emmett J. Bean Federal Center, Indianapolis, IN.

SECRETARY OF DEFENSE JUSTIFICATION:

This action accomplishes a major facilities reduction and business line mission realignment, transforming the current DFAS organization into an optimum facilities configuration, which includes strategic redundancy to minimize risks associated with man-made or natural disasters/challenges.

MAIN FACILITIES REVIEWED:

DFAS Facility in Cleveland, OH.

KEY ISSUES IDENTIFIED

The Director provided an overview of DFAS and their current plan under the BRAC proposal. He then provided an overview of the DFAS operations in Cleveland, OH highlighting their

current business lines and functions. A power point presentation was provided and can be found in the BRAC library.

Key issues presented during the presentation are as follows:

Mission Issues

What is unique about DFAS Cleveland's mission?

- Cleveland is one of DFAS six major centers, along with Arlington, Columbus, Denver, Indianapolis, and Kansas City. It has seven field sites under its domain.
- The site provides services in military and civilian pay for active duty military, reserve/national guard pay, customer operations (contact center and myPay), garnishments, and retired/annuitant pay.
- The retired/annuitant pay, which is a unique function to Cleveland, was contracted out under an A-76 competition. The work is still be done at the Federal building and overseen by DFAS employees at the site. It is a 10 year fixed price contract—one year renewable for up to 10 years.
- The garnishment is a unique function for this site. It is recognized as world class for garnishment automated data systems. OPM has designated this operation as the sole provider of garnishment services to the Federal Government.
- DFAS launched a reserve center of excellence at Cleveland when the Denver and Indianapolis sites were not able to keep up with the workload.
- Centralized disbursing was consolidated at Cleveland from all of its field locations.
- The site also provides accounting services, centralized disbursing, technical services, and an on-site HQ/support service group.
- While its clients are all of the services, the site primarily serves the Navy. Another uniqueness is that people have to learn the Navy way of doing business.

Force Protection Issues

- The site, which is located in Greater Downtown Cleveland in the Anthony J. Celebrezze Federal building, does not meet all of DoD force protection standards. One of the main standards it does not meet is a set back of 82 ft. on one side of the building.

Facility/Capacity Issues

- Located in Federal building. It is the anchor tenant of the building for 40 years. Co-located with other federal agencies.
- Site occupies 365,000 sq. ft. of rentable space—15 of the buildings 31 floors. They have about 300 unused workspaces scattered among the 15 floors.

Workforce Issues

- There are 1181 DFAS employees and 15 assigned military. There are approximately 650 contractor employees that perform the military retired pay/annuitant function on site.
- 383 employees are eligible for early retirement and 158 for regular retirement.

GSA Issues

- GSA owns the federal building.
- If DFAS leaves the building, it would leave a large vacancy in the building. GSA believes that they have other federal tenants that are currently in leased space in the area that they can bring into the federal building.
- Sq Ft. cost of the building is $17.65. The rent is based on market rates. Rate will be going down to $15.73 sq. ft. but not until Feb. 2010. GSA sets rates for a five year period for agency budget planning purposes.

INSTALLATION CONCERNS RAISED

- While it will take time, Cleveland management feels that the missions performed at the Cleveland site can be reconstituted elsewhere. However, he acknowledged that there will be risks. Their work is moving more to standard systems, which will help in future training. Two of the three gaining sites—Denver and Indianapolis—do military pay, so management feels that it will be easy to transition staff to learn Navy pay.
- There have been no final decision yet by DFAS management on where the functions of Cleveland will go. The site was not involved in the decision of which sites were selected.

COMMUNITY CONCERNS RAISED:

In addition to the community concerns that will be raised at the Regional Hearing in Buffalo, a community briefing was held at the Cleveland DFAS site. All of the pubic officials listed above were present at this briefing. The community was going to make its primary presentation on military value at the regional hearing, but wanted to make a presentation on an alternate proposal. The presentation was made by Carol Caruso (216) 592-2471 and Stephen Strnisha (216) 592-239-of the Greater Cleveland Partnership.
(Note: The full presentation was provided which was provided to the BRAC library.)

- The community agreed with the concept of consolidating sites, but disagreed with only three sites.
- They stressed that the private sector has tried the megacenter model and it did not work.
- The community feels that the main reason the Cleveland site was not considered as a main operating site was because the operating costs of the building are high. As such, the community in cooperation with the State has offered to build a new building on a new site in downtown Cleveland that will lower the operating costs and meet all of DoD Force

Protection standards. The building would lower the base rent to between $9.10- $9.50 plus $5.00 sq .ft. operating cost to bring the costs to between $14.10 -$14.50 per square foot. This cost would put them in line with the sites selected. The rent would be locked in for 20 years. There would be available adjacent parking.

- The community would like to see the Cleveland site be designated one of the centers of excellence.

REQUESTS FOR STAFF AS A RESULT OF VISIT: None at this time.

Prepared by: Marilyn Wasleski, Interagency Team

ARMY RESEACH LAB

LIST OF ATTENDEES

Dr. Wolf Elber, Director of Vehicle Technology Directorate (VTD), NASA Langley Research Center, (757) 864-3956
Mr. Peter Meitner, Aerospace Engineer, ARL Vehicle Technology Directorate, AMSRD-ARL-VT-SC, NASA Glenn Research Center, (216) 433-3715
Major Richard Lonardo, Military Assistant at Glenn to the VTD Director, (216) 433-8482
Dr. Robert Bill, formerly Deputy Director of VTD, in charge of affairs at Glenn, recently retired)
Mr. Robert Delgado, research engineers,VTD
Dr. Richard Christianson, Deputy Director of NASA Glenn,
Ken Zaremba, NASA protocol officer,
Mr. Marty Gelfand and Mr. Luis Gomez, Congressman Kucinich's staff
Dr. Robert Handschuh, and Dr. David Lewicki (both Army/VTD employees)--both spoke about face gears and helicopter transmission research in general (Dave Lewicki was the face gear man).
Mr. Gary Skoch (Army/VTD) joined the entourage to describe the compressor research and the work underway on the engine test stand. Also at the engine test stand was Mr. Tom Griffin (Army/VTD)

PRESENT MISSION:

Provide basic and applied multi-customer research for vehicle structures and propulsion technologies that support existing and next generation Army systems. Develop and validate aeromechanics, structures, and propulsion technologies in support of Army STOs. Collaborate with army R&D Centers in the application of new structures and propulsion technologies. Transfer new science and technology to US industries. Acquire new science and technology from NASA, OGA's academe, and foreign sources to support DoD's needs.

SECRETARY OF DEFENSE RECOMMENDATION:

This is part of an overall recommendation on the Defense Research Service Led Laborites (Tech-22 -- Section 10: Recommendation: Technical Joint Cross-Service Groups.

Realign Army Research Laboratory Langley, VA and Army Research Laboratory Glenn, OH by relocating the Vehicle Technology Directorates to Aberdeen Proving Ground, MD

SECRETARY OF DEFENSE JUSTIFICATION

The recommendation realigns and consolidates portions of the Army Research labs to provide greater synergy across technical disciplines and functions.

KEY ISSUES IDENTIFIED

- The main concern identified is that moving this research site as well as the one in Langley will break up the synergy developed between the Army and NASA. Moving these research sites together at Aberdeen, MD will only result in administrative savings and not in any scientific synergies as both sites perform different mission/functions.
- However, the NASA scientists and engineers at NASA Glenn do provide a synergy and help each other in their research on aviation propulsion technology which is furthered through their joint use and support of facilities and resources to achieve tangible economies. Army and NASA have collaborated at the NASA Centers for 40 years because it saves national resources. They are co-located because of common interests.
- NASA Langley equally shares with DoD Army rotorcraft mission responsibilities.
- While they each service their own customers, they also have joint customers.
- NASA and the Army signed an agreement so that the Army is allowed to use NASA's facilities and equipment while the Army provides administrative support. Army provides one support person for every two research personnel. Army personnel use excess facility/equipment capability towards DoD/Army mission. All services provided in that charge/agreement. Only their use of the wind tunnel carries at user charge. If move to Aberdeen, more personnel would be needed and facilities recreated at a great cost not included in the COBRA.
- The Army does not own the equipment at NASA Glenn. To replicate this equipment would cost millions or a lot of money and lost productivity (and possibly lost advances) for people to travel back and forth to NASA Glenn from Aberdeen. The director estimated that the engineers/scientist are in the lab over 80 days a year. When they come back to use the equipment, there would be a cost, which is not included in the COBRA. Sustainment funds currently are provided by NASA.
- These facilities are important to the Army's mission.
- This move would destroy 35 years of progress to build a functioning multi-agency team.

REQUESTS FOR STAFF AS A RESULT OF VISIT: Follow up on issue identified.

Prepared by: Marilyn Wasleski, Interagency Team

NASA GLENN
TECh-22

Defense Base Closure and Realignment Commission

Search Public Website Comments

Comments submitted to the 2005 BRAC Commission via the Contact Us form on this website can b using this page. The "Keyword" search will search according to the entry you provide and search thro lines and comment text. The comments can also be searched, or filtered, via the categories listed search returns more results than you anticipated, it is recommended that you narrow your search by terms or by applying additional filters. If your search returned few or no results, expand the criteria by searching.

Search Again

	DATE	COMMENT	BASE/INSTALLATION/F
1	08/17/2005	**VTD move to APG will produce simulated research** The DoD recommendation to realign the Army Research Laboratory (ARL) Vehicle Technology Directorate (VTD), located at NASA Glenn and NASA Langley, to Aberdeen Proving Ground (APG), MD does not meet the criteria of military value. The VTD contains the Army's leading researchers in aviation, particularly in the areas of propulsion and structures. These researchers are sought out as expert consultants on issues in related areas such as ground-based turbine engines for tanks and turbomachinery in general. The VTD has been located at the NASA sites since 1970 because of the existence of unique NASA facilities and the interaction with NASA researchers working in similar fields; this strong relationship has greatly benefited both agencies. The VTD was somewhat arbitrarily moved into ARL during a reorganization in 1992, and the relationship between the VTD and the rest of ARL was never as symbiotic or close as that with NASA. The proposed move to APG would permanently enshrine that capricious reorganization and ultimately destroy the very fruitful relationship that the VTD and NASA have shared. Beyond that, Aberdeen has no facilities to replace NASA's, especially in the propulsion area, so the VTD's mission will be compromised. There is a popular notion that research can all be carried out in simulation and APG does have the impressive Army High Performance Computing Research Center which is being used by some VTD researchers. However, the areas encompassed by the VTD's mission (rotorcraft propulsion and power, part life prediction, transmission diagnostics, advanced materials, performance optimization, etc., that directly impact the warfighter) must be ultimately carried out in the types of facilities currently only available at NASA; simulation cannot and will not suffice. We are at war, our soldiers risk their lives in real helicopters, not simulations. We owe them real research to improve the safety, reliability and operational readiness of their equipment. The BRAC Commission must ensure that high quality military research is maintained at the best available facilities to satisfy the BRAC process	Glenn Research Center

		criteria of military value. To guarantee that military value is preserved, take the Glenn Research Center and Langley VTD off the BRAC list.	
2	08/16/2005	**Proposed relocation of the VTD of the ARL from Cleveland, Ohio** I would like to suggest several reasons why the Vehicle Technology Directorate should remain in Cleveland. Moving it would be an unjustifiable expense to the taxpayer and would make research far more difficult. The Vehicle Technology Directorate performs research that uses many of NASA Glenn's laboratory facilities, including a state-of-the-art wind tunnel and a facility that allows researchers to study flight degradation in cold temperatures. Such equipment is extremely expensive to construct, and the duplication required by a move seems inefficient and an unnecessary expense. As the VTD and NASA Glenn do research in similar fields, it makes sense to allow them to use the same facilities. Moving the VTD while allowing it to pursue the same research would require extremely expensive duplication of equipment that already exists at NASA Glenn. Furthermore, the close contact between the Army Research Laboratory and NASA Glenn facilitates research in other ways; it provides easy contact between the two groups, allowing researchers on related projects to communicate their results. In the past, the VTD has worked with NASA to develop aviation technologies. The VTD uses NASA facilities, including extremely expensive state-of-the-art equipment that is difficult to duplicate elsewhere. Also, many of those who would be moved have worked with NASA for over two decades; moving them now would severely harm the working relationships that have already developed. The close collaboration that is enabled by the proximity of NASA Glenn and the VTD has benefited and will continue to benefit the Army. Placing the VTD in Aberdeen, Maryland, would end this cooperation and with it the positive impact it has had on aviation. I urge your Commission to reject the Defense Department's proposed relocation of the VTD to Aberdeen. Thank you for your consideration of this important matter.	Glenn Research Center
3	07/05/2005	**Move of ARL VTD from NASA Glenn to APG hurts Army Aviation** The DoD Justification Data report (F2 - TECH-0009B COBRA Realignment Report Final _6.pdf) for moving the Army Research Lab Vehicle Technology Directorate from NASA Glenn to Aberdeen Proving Ground lists no facility costs and states that Glenn is not even in the Cobra database. Thus the proposed move looks like a relatively cheap undertaking. However, the VTD uses NASA facilities, which are, therefore, not DoD-owned. Moving the VTD to APG will require duplication of these NASA-owned facilities at APG, costing at least several hundred million dollars, while destroying the synergy of the Army-NASA relationship. Since the Army Aviation work performed by the VTD is much more closely aligned with the Aeronautics research carried out at NASA Glenn than with the work performed at other Directorates of ARL, the proposed move makes neither economic nor technological sense.	Glenn Research Center
4	06/19/2005	**please don't relocate Vehicle Technology Directorate of Army Research Laboratory** I urge the Base Closure Commission to oppose the proposed relocation of the Vehicle Technology Directorate (VTD) of the Army Research Laboratory (ARL) from NASA Glenn Research Center in Cleveland, Ohio, to Aberdeen Proving Ground (APG), Maryland. The proposed relocation would lead to technical and economic inefficiencies, waste taxpayer dollars, and cause the unnecessary dislocation of numerous Army employees and their family members. First, the proposed relocation would eliminate the substantial benefits that the Army now receives from the ability of VTD personnel to work closely with NASA personnel and use NASA equipment and facilities. The VTD has been located at NASA Glenn since 1970. It has been chartered to jointly	Glenn Research Center

		work programs of mutual interest to NASA and the Army in Aeropropulsion and Power. ARLTD engineers and scientists work side by side with their NASA partners on technologies that are directly focused on aviation or leveraged toward ground vehicles. Army engineers utilize NASA Glenn facilities, take advantage of existing NASA infrastructure and technical support personnel, and benefit from close collaboration with their NASA counterparts. This interagency cooperation has resulted in the development of many important technologies that support Army aviation. Moving the VTD away from its facilities and collaborators will not help promote its mission but will, in fact, hinder it. Second, the proposed relocation would require expensive reconstruction of many facilities. The VTD utilizes many facilities that are owned exclusively by NASA – including wind tunnels, rotating component test rigs, and engine test cells – that would need to be reconstructed at APG for the VTD's mission to continue. Such reconstruction of existing facilities would be a waste of taxpayer dollars. Third, the proposed relocation would dislocate numerous Army employees and their family members. Many of the VTD's employees have worked there many years or even decades, and so the proposed move would inflict a particularly high human cost on Army personnel. In addition, the proposed move could impose significant costs on the local economy, especially because it could ultimately lead to a closure of the entire NASA Glenn facility. For these reasons, I urge the Commission to reject the Defense Department's proposed relocation of the VTD to Aberdeen. Thank you for your consideration of this important matter.	
5	06/06/2005	**Keep ARL Vehicle Technology Directorate in Cleveland** Dear Chairman Principi: The Department of Defense has recommended the realignment of the Army Research Laboratory (ARL) at NASA Glenn Research Center, Cleveland, OH, by relocating the Vehicle Technology Directorate (VTD) to Aberdeen Proving Ground (APG), MD. The justification for this recommendation is that it realigns and consolidates portions of the ARL to provide greater synergy across technical disciplines and functions. It does this by consolidating geographically separate units of the ARL. This recommendation is ill-advised both from a technical and an economic point of view. First, the VTD has been collocated at NASA Glenn since 1970 with the charter to jointly work programs of mutual interest to NASA and the Army in Aeropropulsion and Power. ARL/VTD engineers and scientists work side-by-side with their NASA partners on technologies that are directly focused on aviation or leveraged toward ground vehicles. Army engineers utilize NASA Glenn facilities, take advantage of existing NASA infrastructure and technical support personnel, and benefit from close collaboration with their NASA counterparts. This interagency cooperation has resulted in the development of many important technologies that support army aviation. Consolidating the VTD with the rest of ARL by moving it away from its facilities and collaborators will not help promote its mission but will, in fact, hinder it. Second, the BRAC process includes facility reconstruction. Since the VTD utilizes exclusively NASA-owned wind tunnels, rotating component test rigs, engine test cells, etc., these capabilities would need to be reconstructed at APG for the VTD's mission to continue. The DoD estimated that the one-time cost of moving the Defense Research Service Led Laboratories (into which the VTD is lumped) at $164.4M. The facilities reconstruction cost of the VTD Glenn site alone will be significantly higher than that figure. Therefore, the cost benefit to the DoD has been vastly overestimated, and the duplication of facilities is wasteful of taxpayer dollars. These reasons make it obvious that relocating the Army Research Laboratory Vehicle Technology Directorate from Cleveland, Ohio, falls	Glenn Research Center

		outside the criteria of the BRAC process. I urge you to use your best efforts to ensure that the BRAC Commission takes the ARL VTD off the BRAC list and keeps it at NASA Glenn Research Center. Thank you for your attention to this important matter. Sincerely, Maria Litt 3471 Lawton Lane Pepper Pike, OH 44124	

Community Infrastructure Assessment: A review of community attributes indicates no issues regarding the ability of the infrastructure of the communities 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: This recommendation is expected to impact air quality at Picatinny, which is in severe non-attainment for Ozone. This recommendation may have a minimal effect on cultural resources at Picatinny. Additional operations may further impact threatened/endangered species at Picatinny, leading to additional restrictions on training or operations. This recommendation has no impact on dredging; land use constraints or sensitive resource areas; marine mammals, resources, or sanctuaries; noise; waste management; or wetlands. This recommendation will require spending approximately $0.3M 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, 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.

Defense Research Service Led Laboratories

Recommendation: Close the Air Force Research Laboratory, Mesa City, AZ. Relocate all functions to Wright Patterson Air Force Base, OH.

Realign Air Force Research Laboratory, Hanscom, MA, by relocating the Sensors Directorate to Wright Patterson Air Force Base, OH, and the Space Vehicles Directorate to Kirtland Air Force Base, NM.

Realign Rome Laboratory, NY, by relocating the Sensor Directorate to Wright Patterson Air Force Base, OH, and consolidating it with the Air Force Research Laboratory, Sensor Directorate at Wright Patterson Air Force Base, OH.

Realign Air Force Research Laboratory, Wright Patterson Air Force Base, OH, by relocating the Information Systems Directorate to Hanscom Air Force Base, MA.

~~Realign Army Research Laboratory Langley, VA, and Army Research Laboratory Glenn, OH, by relocating the Vehicle Technology Directorates to Aberdeen Proving Ground, MD.~~

Realign the Army Research Laboratory White Sands Missile Range, NM, by relocating all Army Research Laboratory activities except the minimum detachment required to maintain the Test and Evaluation functions at White Sands Missile Range, NM, to Aberdeen Proving Ground, MD.

Justification: This recommendation realigns and consolidates portions of the Air Force and Army Research Laboratories to provide greater synergy across technical disciplines and functions. It does this by consolidating geographically separate units of the Air Force and Army Research Laboratories.

A realignment of Air Force Research Laboratory Human Factors Division from Brooks City Base, TX, research to Wright Patterson AFB was initially part of this recommendation, and still exists, but is presented in the recommendation to close Brooks City Base, TX.

This recommendation enables technical synergy, and positions the Department of the Defense to exploit a center-of-mass of scientific, technical, and acquisition expertise.

Payback: The total estimated one-time cost to the Department of Defense to implement this recommendation is $164.6M. The net of all costs and savings to the Department during the implementation period is cost of $45.0M. Annual recurring savings to the Department after implementation are $41.1M, with a payback expected in 4 years. The net present value of the costs and savings to the Department over 20 years is a savings of $357.3M.

Economic Impact on Communities: Assuming no economic recovery, this recommendation could result in a maximum potential reduction of 465 jobs (237 direct jobs and 228 indirect jobs) over the 2006-2011 period in the Phoenix-Mesa-Scottsdale, AZ Metropolitan Statistical Area, which is less than 0.1 percent of economic area employment.

Assuming no economic recovery, this recommendation could result in a maximum potential reduction of 362 jobs (201 direct jobs and 161 indirect jobs) over the 2006-2011 period in the Utica-Rome, NY Metropolitan Statistical Area, which is 0.2 percent of economic area employment.

Assuming no economic recovery, this recommendation could result in a maximum potential reduction of 362 jobs (225 direct jobs and 137 indirect jobs) over the 2006-2011 period in the Cambridge-Newton-Framingham, MA Metropolitan Statistical Area, which is less than 0.1 percent of economic area employment.

Assuming no economic recovery, this recommendation could result in a maximum potential reduction of 92 jobs (50 direct jobs and 42 indirect jobs) over the 2006-2011 period in the Cleveland-Elyria-Mentor, OH Metropolitan Statistical Area, which is less than 0.1 percent of economic area employment.

Assuming no economic recovery, this recommendation could result in a maximum potential reduction of 382 jobs (186 direct jobs and 196 indirect jobs) over the 2006-2011 period in the Las Cruces, NM Metropolitan Statistical Area, which is 0.5 percent of economic area employment.

Assuming no economic recovery, this recommendation could result in a maximum potential reduction of 118 jobs (50 direct jobs and 68 indirect jobs) over the 2006-2011 period in the Virginia Beach-Norfolk-Newport News, VA-NC Metropolitan Statistical Area, which is less than 0.1 percent of economic area employment.

The aggregate economic impact of all recommended actions on these economic regions of influence was considered and is at Appendix B of Volume I.

COBRA REALIGNMENT SUMMARY REPORT (COBRA v6.10) - Page 1/2
Data As Of 4/20/2005 3:50:57 PM, Report Created 5/5/2005 10:10:17 AM

Department : Army
Scenario File : C:\Documents and Settings\Administrator\Desktop\COBRA Runs\Tech 009\New Army 009B 2_23_05\Final Scrubbed_APG_only_4_18_05\J2 - TECH0009B (6[1].10) v 5.0. 4_18_05.CBR
Option Pkg Name: Defense Research Service Led Labs TECH-0009B V5.0
Std Fctrs File : C:\Documents and Settings\Administrator\Desktop\COBRA 6.10\BRAC2005.SFF

Starting Year : 2006
Final Year : 2009
Payback Year : 2025 (16 Years)

NPV in 2025($K): -582
1-Time Cost($K): 34,429

Net Costs in 2005 Constant Dollars ($K)

	2006	2007	2008	2009	2010	2011	Total	Beyond
MilCon	1,290	3,960	10,370	0	0	0	15,620	0
Person	0	0	-708	-1,837	-3,070	-3,070	-8,686	-3,070
Overhd	554	477	801	700	454	454	3,441	454
Moving	0	0	2,444	10,468	0	0	12,912	0
Missio	0	0	0	0	0	0	0	0
Other	250	0	2,469	378	19	19	3,136	19
TOTAL	2,094	4,436	15,377	9,709	-2,597	-2,597	26,423	-2,597

	2006	2007	2008	2009	2010	2011	Total
POSITIONS ELIMINATED							
Off	0	0	1	0	0	0	1
Enl	0	0	0	2	0	0	2
Civ	0	0	36	20	0	0	56
TOT	0	0	37	22	0	0	59
POSITIONS REALIGNED							
Off	0	0	1	1	0	0	2
Enl	0	0	2	10	0	0	12
Stu	0	0	0	0	0	0	0
Civ	0	0	60	145	0	0	205
TOT	0	0	63	156	0	0	219

Summary:

TECH-0009

Description:

This scenario realigns and co-locates the three service corporate laboratories to provide greater synergy across DTAP technical capabilities and functions. Additionally it creates a virtual "Defense Research Laboratory" by establishing a board of directors including Director of Defense Research and Engineering (DDRE), Technical Director of the Naval Research Laboratory (TD-NRL), Commanding Officer of Air Force Research Laboratory (CC-AFRL), Technical Director Army Research Laboratory (TD-ARL) and the Service S&T executives. The Board of Directors will advise and steer Research Labs to reduce duplicative efforts & foster joint centers of excellence. The purpose of this scenario is to consolidate to a smaller number of Service-centric geographic locations in order to increase the multidisciplinary collection of R&D expertise across DTAP capability areas at those locations.

Actions

* Realign all ARL/WSMR activity, including Battlespace Environment research, with the exception of the minimum detachment required to maintain T&E operations at WSMR by moving the people & their positions (government only) and the Special Equipment & Facilities from WSMR and consolidate at Aberdeen Proving Ground.

* Realign all ARL activity at NASA sites by moving the people and their positions (government only) and the special equipment & facilities from ARL/Langley Research Center (W26201), Langley VA and ARL/Glenn Research Center (W26206), Glenn, OH and consolidate at Aberdeen Proving Ground.

Source Files
1. TECH-0009 v 5.0.xls
No SDDs issued

TJCSG Assumptions.
None Applied.
Notes:

From Source File 1:
Notes:

ARL/Glenn Research Center (W26206) and ARL/Langley (W26201) are located at NASA Lewis Research Center and NASA Langley Research Center which are not in the COBRA database. The following approaches are required to provide data for Screen 2 and Screen 4:

1. Screen 2: The distances for these two sites were computed from the Defense Table of Distance (DTOD).
a. For Glenn Research Center, NASA Lewis Research Center to APG: 414.8 miles
b. For ARL/Langley, NASA Langley Research Center to APG: 255.1 miles
These data was entered by hand. Do not CLICK the "DATABASE Button" to override the data.

2. Screen 4: Population for authorized spaces: use 2003 the Army Stationing and Installation Plan (ASIP) database. Other info such as Lat/Long were approximated with data associated with Wright Patterson AFB and Langley AFB.

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COBRA ONE-TIME COST REPORT (COBRA v6.10) - Page 4/5
Data As Of 4/20/2005 3:50:57 PM, Report Created 5/5/2005 10:10:17 AM

Department : Army
Scenario File : C:\Documents and Settings\Administrator\Desktop\COBRA Runs\Tech 009\New Army 009B 2_23_05\Final Scrubbed_APG_only_4_18_05\J2 - TECH0009B (6[1].10) v 5.0. 4_18_05.CBR
Option Pkg Name: Defense Research Service Led Labs TECH-0009B V5.0
Std Fctrs File : C:\Documents and Settings\Administrator\Desktop\COBRA 6.10\BRAC2005.SFF

Base: Langley Res Ctr, VA
(All values in 2005 Constant Dollars)

Category	Cost	Sub-Total
Construction		
Military Construction	0	
Total - Construction		0
Personnel		
Civilian RIF	172,195	
Civilian Early Retirement	35,967	
Eliminated Military PCS	10,477	
Unemployment	13,353	
Total - Personnel		231,992
Overhead		
Program Management Cost	0	
Support Contract Termination	0	
Mothball / Shutdown	0	
Total - Overhead		0
Moving		
Civilian Moving	819,616	
Civilian PPP	106,488	
Military Moving	7,487	
Freight	14,911	
Information Technologies	6,400	
One-Time Moving Costs	0	
Total - Moving		954,903
Other		
HAP / RSE	104,945	
Environmental Mitigation Costs	0	
Mission Contract Startup and Termination	0	
One-Time Unique Costs	0	
Total - Other		104,945
Total One-Time Costs		1,291,840
One-Time Savings		
Military Construction Cost Avoidances	0	
Military Moving	7,385	
One-Time Moving Savings	0	
Environmental Mitigation Savings	0	
One-Time Unique Savings	0	
Total One-Time Savings		7,385
Total Net One-Time Costs		1,284,455

DCN:11677

COBRA ONE-TIME COST REPORT (COBRA v6.10) - Page 5/5
Data As Of 4/20/2005 3:50:57 PM, Report Created 5/5/2005 10:10:17 AM

Department : Army
Scenario File : C:\Documents and Settings\Administrator\Desktop\COBRA Runs\Tech 009\New Army 009B 2_23_05\Final Scrubbed_APG_only_4_18_05\J2 - TECH0009B (6[1].10) v 5.0. 4_18_05.CBR
Option Pkg Name: Defense Research Service Led Labs TECH-0009B V5.0
Std Fctrs File : C:\Documents and Settings\Administrator\Desktop\COBRA 6.10\BRAC2005.SFF

Base: Glenn Res Ctr, OH
(All Values in 2005 Constant Dollars)

Category	Cost	Sub-Total
Construction		
Military Construction	0	
Total - Construction		0
Personnel		
Civilian RIF	173,949	
Civilian Early Retirement	48,445	
Eliminated Military PCS	0	
Unemployment	13,353	
Total - Personnel		235,747
Overhead		
Program Management Cost	0	
Support Contract Termination	0	
Mothball / Shutdown	0	
Total - Overhead		0
Moving		
Civilian Moving	844,361	
Civilian PPP	141,984	
Military Moving	0	
Freight	14,057	
Information Technologies	5,800	
One-Time Moving Costs	0	
Total - Moving		1,006,202
Other		
HAP / RSE	110,479	
Environmental Mitigation Costs	0	
Mission Contract Startup and Termination	0	
One-Time Unique Costs	0	
Total - Other		110,479
Total One-Time Costs		1,352,428
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		1,352,428

DCN:11677

COBRA ONE-TIME COST REPORT (COBRA v6.10) - Page 3/5
Data As Of 4/20/2005 3:50:57 PM, Report Created 5/5/2005 10:10:17 AM

Department : Army
Scenario File : C:\Documents and Settings\Administrator\Desktop\COBRA Runs\Tech 009\New Army 009B 2_23_05\Final Scrubbed_APG_only_4_18_05\J2 - TECH0009B (6[1].10) v 5.0. 4_18_05.CBR
Option Pkg Name: Defense Research Service Led Labs TECH-0009B V5.0
Std Fctrs File : C:\Documents and Settings\Administrator\Desktop\COBRA 6.10\BRAC2005.SFF

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

Category	Cost	Sub-Total
Construction		
Military Construction	15,619,810	
Total - Construction		15,619,810
Personnel		
Civilian RIF	0	
Civilian Early Retirement	0	
Eliminated Military PCS	0	
Unemployment	0	
Total - Personnel		0
Overhead		
Program Management Cost	0	
Support Contract Termination	0	
Mothball / Shutdown	0	
Total - Overhead		0
Moving		
Civilian Moving	0	
Civilian PPP	0	
Military Moving	0	
Freight	0	
Information Technologies	490,800	
One-Time Moving Costs	0	
Total - Moving		490,800
Other		
HAP / RSE	0	
Environmental Mitigation Costs	250,000	
Mission Contract Startup and Termination	0	
One-Time Unique Costs	2,254,000	
Total - Other		2,504,000
Total One-Time Costs		18,614,610
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		18,614,610

DCN:11677

BRAC Equipment & Facility Costs

Reference #TECH015 (DoD #3014) : Replacement Cost Equipment and Days Used RD(A)T&E

ORGCODE (Text)	Function (List)	Tech Capability (List)	Equipment Name (Text)	Replacement Cost ($M)	Age	Useful life	Transportable	Not Transportable	Stand Alone	Part of System	Replace
string15	multiple choice[17]	multiple choice[18]	string50	numeric							
W26206	Research	Air Platforms	Mechanical Components, Gears and Drivetrain Test Rigs	15							
W26206	Research	Air Platforms	Magnetic Bearing Test Rigs	5							
W26206	Research	Air Platforms	Structural Mechanics Test Rigs	10							
W26206	Research	Air Platforms	Turbomachinery Test Rigs	25							
W26206	Research	Air Platforms	Turbine Engine Seals Test Rigs	5							
W26206	Research	Air Platforms	Barrier Coating Test Rigs	5							
W26206	Research	Air Platforms	Oil-Free Foil Air Bearing Test Rigs	7							
W26206	Research	Air Platforms	Aero High Performance Computing	1.2							
W26201	Research	Air Platforms	Wing & Rotor Aeroelastic Testing	5							
W26201	Research	Air Platforms	Fatigue & Fracture Testing Complex	18							
W26201	Research	Air Platforms	Nondestructive Evaluation Testing Complex	4							
W26201	Research	Air Platforms	Aeroelastic Rotor Experimental System (ARES)	4							
			Total Equipment	**104.2**							

Reference #TECH016 (DoD #3015) : Replacement Cost Facilities and Days used RD(A)T&E

ORGCODE	Function	Tech Capability	Facility Name (Text)	Replacement							
string15	multiple choice[19]	multiple choice[20]	string50	numeric							
W26206	Research	Air Platforms	Propulsion Materials Research	75							
W26206	Research	Air Platforms	Engine Research Building	250							
W26206	Research	Air Platforms	Propulsion Systems Laboratory	150							
W26206	Research	Air Platforms	Icing Research Tunnel	150							
W26206	Research	Air Platforms	Engine Components Research	25							
W26201	Research	Air Platforms	Transonic Dynamics Tunnel	138							
W26201	Research	Air Platforms	Structures & Materials Research Laboratory	29							
W26201	Research	Air Platforms	Materials Research & Light Alloy Laboratory	16							
W26201	Research	Air Platforms	Nondestructive Evaluation	3							
W26201	Research	Air Platforms	Impact Dynamics Research Facility	14							
W26201	Research	Air Platforms	Technology Applications & Structures Complex	16							
			Total Facilities	**866**							
			Total Replacement Cost	**970.2**							

REIMBURSABLE SPACE ACT AGREEMENT BETWEEN NASA GLENN RESEARCH CENTER AND UNITED STATES MATERIEL COMMAND FOR JOINT PARTICIPATION IN AERONAUTICAL TECHNOLOGY FOR THE 21ST CENTURY RELATED TO ARMY AVIATION

ARTICLE 1. AUTHORITY

This Agreement is entered into by the NASA Glenn Research Center, located at 21000 Brookpark Road, Cleveland, OH 44135 (hereinafter referred to as "NASA GLENN") pursuant to 42 U.S.C. 2473(c)(5) and (6), section 203(c) of the National Aeronautics and Space Act of 1958, as amended, and United States Materiel Command, (hereinafter referred to as "Army", or "Other Party") with a place of business at 9301 Chapel Road, Fort Belvoir, VA 22060-5527.

ARTICLE 2. PURPOSE AND AGENCY COMMITMENT

Both NASA GLENN and the Army have certain common research and development interests in aviation propulsion technology; which can be furthered through the joint use and support of facilities and resources to achieve tangible economies. These interests include computational methods, aero-component technologies, materials, structures, structural dynamics, aero-elasticity, mechanical components, power transmission and other related investigations required for advanced aircraft and other mobile systems. NASA GLENN and the Army have successfully partnered in these areas since 1970.

This agreement provides for NASA GLENN and the Army to continue this collaboration by implementing the "Agreement between the National Aeronautics and Space Administration and the United States Army Materiel Command for Joint Participation in Aeronautical Technology for the 21st Century Related to Army Aviation" dated April 10, 2003, hereinafter referred to as the "Master Agreement." This document is the Center Operating Agreement called for under the "Master Agreement."

NASA GLENN and the Army will jointly develop bi-annual plans to be negotiated between the parties once every two years, throughout the life of the agreement.

ARTICLE 3. RESPONSIBILITIES

A. The Army will use reasonable efforts to provide the following.

1. MAINTAIN THE ARMY VEHICLE TECHNOLOGY DIRECTORATE

The Army shall maintain at NASA GLENN, an Army Vehicle Technology Directorate (AVTD) as follows.

a. The Army shall designate a Deputy Director who shall be responsible for managing all aspects of the AVTD.
b. The Army shall provide staff to operate the AVTD.
c. The Army shall furnish Army technical and administrative employees in support of NASA functions to NASA GLENN at full time equivalent levels (FTE) as specified in the Biannual Plan defined in ARTICLE 4
d. The Army shall provide administrative support to all Army employees covered by the terms of this agreement.
e. The Army shall make direct payment of salaries, allowances, travel, movement of household effects, and other related costs for the technical and administrative FTE assigned to NASA GLENN under this agreement.

2. ANNUAL MEETING

The Army shall meet with NASA GLENN representatives at least once a year, in the month of January to
a. Identify technology programs appropriate for Army participation at NASA GLENN.
b. Examine the programs being pursued by the Army in facilities under the provisions of this agreement;
c. Review the programs which have been, or are planned to be, undertaken by Army employees under the operational control and direction of NASA GLENN; and
d. Develop and review Biannual Plans.

3. PLANNED ACTIVITIES

The Army shall carry out the responsibilities and obligations defined in the Biannual Plan.

4. SAFETY

The Army shall ensure that all Army personnel comply with NASA Glenn relevant facility and safety regulations, procedures, and area safety requirements, as stated in the latest revision of the NASA GLENN Safety Manual, which are in effect when a given test program is to be run. All Army test personnel shall be briefed on, understand, and sign the Facility Safety and Operations Procedures form prior to testing. The Army shall also ensure that all work areas and working conditions comply with required NASA GLENN safety and health standards.

5 REIMBURSABLE SUPPORT

The Army may request NASA GLENN to provide support on a reimbursable basis under the bi-annual plan.

6. ADDITIONAL SUPPORT

The Army may also request NASA GLENN to provide support (technical, administrative or use of facilities) not anticipated by the bi-annual plan but otherwise related to the purpose of this agreement on a reimbursable or non-reimbursable basis. The request shall be made in the form of a written proposal from Army's "Key Official" (identified in Article 15) and shall specify whether the support requested is reimbursable, partially reimbursable or non-reimbursable in nature.
Army shall ensure that NASA GLENN is paid in advance for providing any reimbursable support in accordance with Article 5.

B. NASA GLENN will use reasonable efforts to provide the following.

1. ARMY VEHICLE TECHNOLOGY DIRECTORATE SUPPORT

NASA GLENN shall provide the following support to the Army Vehicle Technology Directorate (AVTD), on a non reimbursable basis

a. NASA GLENN shall provide office furniture, computer network services, telephonic equipment, desktop computers, standard office equipment and supplies as are reasonably required by the Army personnel working in the AVTD, as reflected in the Biannual Plan.

2 ANNUAL MEETING

NASA GLENN shall meet with Army representatives at least once a year, in the month of January, for the following purpose.

a. Identify technology programs appropriate for Army participation at NASA GLENN;
b. Examine the programs being pursued by the Army in facilities under the provisions of this agreement;
c. Review the programs which have been, or are planned to be, undertaken by Army employees under the operational control and direction of NASA GLENN; and
d. Develop and review Biannual Plans.

3 PLANNED ACTIVITIES

NASA GLENN shall carry out the responsibilities and obligations defined in the Biannual plan.

4. SAFETY

NASA GLENN shall provide NASA GLENN safety equipment and protection devices to the extent available, and provide the same emergency medical care access provided to NASA GLENN employees.

5. REIMBURSABLE SUPPORT

NASA may provide support (including but not limited to technical and administrative support, and the use of facilities) on a fully or partially reimbursable basis requested by the Army under Article 3(A)(3). Reimbursable support provided under this paragraph shall be documented in the bi-annual plan as provided in Articles 4 and 5. All support provided by NASA GLENN shall be in accordance with Article 5 and the Biannual plan.

6. ADDITIONAL SUPPORT

NASA may also provide the Additional Support requested by Army pursuant to Section 3(A)(5). NASA's "Key Official" (identified in Article 15) shall respond to the Army's request in writing and within a reasonable time. NASA shall specify the scope, terms and estimate of cost reimbursement (if any) for any support it agrees to provide. Additional Support agreed to by NASA shall be provided in accordance with Article 5

ARTICLE 4. SCHEDULE AND MILESTONES

A. The scheduled major milestones for this agreement are as follows:

Approve First Biannual Plan	September 2004
Annual Meeting	January 2005,2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013
Review of Biannual Plan Complete	September 2005, 2007, 2009, 2011
Approve Biannual Plans	September 2006, 2008, 2010, 2012

B. BIANNUAL PLANS

Detailed schedules and milestones will be reflected in the biannual plan.

In even years, based on the annual meeting, the parties shall develop a bi-annual plan defining the level and scope of each party's effort and commitment over the next two fiscal years.

The biannual plan shall be consistent with the purpose of this agreement. As a minimum it shall:

1. Identify the technology programs in which Army personnel will participate.
2. Identify the Army FTE under the operational control and direction of NASA GLENN and the organizations in which they will reside.
3. Identify the Army FTE not under the operational control and direction of NASA GLENN
4. Identify the facilities to be used by the Army.
5. Identify any Army programs or projects that will be conducted at NASA GLENN and the anticipated collaborations with NASA GLENN programs/projects.
6. Provide a cost estimate of all reimbursable and non-reimbursable activities contemplated under the biannual plan.

The bi-annual plan will be in writing and signed by the Key Personnel to this agreement prior to the start of the first fiscal year addressed in the plan.

In odd years, the parties shall review the bi-annual plan for the annual meeting and amend it as necessary.

ARTICLE 5. FINANCIAL OBLIGATIONS

A. PLANNED ACTIVITIES

Generally each party agrees to pay their own expenses under this agreement. Each party's non-reimbursable consideration shall be described and estimated in the bi-annual plan. The parties agree that the non-reimbursable consideration received is available for use only until the end of the fiscal year it is authorized as provided in the bi-annual plan. This consideration shall not carry over into future fiscal years, and there shall be no refunds or consideration for not utilizing all available resources during the appropriate fiscal year. NASA may also provide reimbursable support to the Army under the Biannual Plan pursuant to 3(B)(6).

B. Cost Estimates

1. Original Estimate

NASA's cost estimate (including non-reimbursable and reimbursable costs) for providing support hereunder and performing all of its responsibilities under Article 3(B) (excluding any costs associated with Section 3(B)(6)) shall be documented in the biannual plan. This estimated cost includes, but is not limited to, all costs for civil service labor, contractors, material costs, service pools, center operating accounts, travel, center and corporate G&A, and contract administration, as applicable.

2. Good Faith Estimate

Although NASA has made a good faith attempt to accurately estimate its reimbursable costs as outlined above, it is understood that NASA provides no assurance that the proposed reimbursable effort by NASA under this Agreement will be accomplished for the estimated amount.

3. Exceeding the Estimate; Right of Termination

Should the reimbursable effort cost more than estimated, NASA will advise Army of same as soon as possible after making such determination. Army will then have the option of terminating the remaining reimbursable effort, or obtaining any necessary additional certifications of availability of funds and providing additional funding in order to continue NASA's reimbursable performance under this Agreement.

Upon notification of termination by Army, NASA will immediately discontinue all reimbursable work hereunder, and will not request reimbursement or otherwise seek payment for work performed in contravention of the notice of termination. The Parties agree that NASA GLENN shall be reimbursed for all costs incurred by NASA on reimbursable support prior to such notice of termination.

C. Advances to NASA

1. Reimbursement of Costs

Army agrees to provide advance funding to NASA for costs incurred in order to provide the reimbursable support under this Agreement.

2 Procedures for Making Advances

Advances made by Army to NASA hereunder shall be via the Interagency Payment and Collection System (IPAC) to Glenn Research Center to the Agency Location Code of 80000701. A copy of the MIPR should also simultaneously be sent with payment. The MIPR shall be sent to the following address.

NASA Glenn Research Center
Financial Management Division
Attn: Collection Agent
21000 Brookpark Road
Mail Stop 500-303
Cleveland, Ohio 44135

3. Accounting and Use of Advances

Amounts advanced to NASA by Army shall be separately accounted for by NASA, so clear accounting records can be kept for the moneys advanced by Army and used to pay costs as herein provided.

4. Right of Return of Advanced Money in Excess of Actual Costs

Should NASA's reimbursable effort hereunder actually cost less than the amounts advanced to NASA, NASA GLENN shall account for any unspent funds as soon as practicable, but in no event later than 60 days after completion of the fiscal year during which the effort was completed, and promptly thereafter return any unspent funds to Army.

D. Cost of Additional Services

Upon agreement, payment of the estimated amount of the Additional Services to be provided under Section 3(B)(6) shall be made by Army or its agent in the manner described in Section 5(C) above, before any such additional support will be provided. The provisions of Article 5 also apply to estimates and costs incurred for any such Additional Services that NASA may provide.

E. General Understandings

All activities under or pursuant to this Agreement by any Party are subject to the availability of appropriated funds. No provision in this Agreement shall be interpreted to require obligation or payment of funds in violation of the Anti-Deficiency Act, 31 U.S.C. Section 1341. Army and NASA GLENN shall use their best efforts to obtain the requisite appropriated funds, shall cooperate with each other's efforts to obtain those funds and shall expeditiously inform each other of and when appropriated funding shortfalls are anticipated which may delay or

prevent performance of its obligations. If adequate appropriations are not forthcoming, either Army or NASA may terminate this Agreement and be relieved of all further responsibilities of performance under this Agreement except as otherwise specifically stated herein. As of the effective date of this Agreement, NASA and Army are unaware of any funding shortfalls that would delay or prevent performance of their respective obligations under this Agreement.

The Parties recognize that all cost estimates for the use of NASA property and/or services and payment schedules must be consistent with applicable Federal law and NASA policy requiring payment in advance of incurrence of costs. Accordingly, prompt advance payments under this Agreement that keep pace with the rate at which NASA incurs costs is of the essence in this Agreement.

F. Restriction on Transfer of Funds

There shall be no transfer of NASA funds to Army under this Agreement.

ARTICLE 6. SCHEDULING CONFLICTS

The above schedule and milestones are estimated based upon the parties' current understanding of the projected use of NASA resources. In the event NASA GLENN's projected usage changes, Army shall be given reasonable notice of the change, so that the schedule and milestones may be adjusted accordingly. The parties agree that NASA GLENN's usage of the test facilities and equipment shall have priority over the usage planned in this Agreement should a conflict arise, and NASA GLENN, in its sole discretion, shall determine whether to exercise that priority. Likewise, should a conflict arise as between two users, NASA GLENN, in its sole discretion, shall determine the priority as between the two users.

ARTICLE 7. LIABILITY AND RISK OF LOSS

NASA and the Army each agrees to assume responsibility for its own risks associated with activities undertaken in this agreement.

ARTICLE 8. INTELLECTUAL PROPERTY AND DATA RIGHTS - RIGHTS IN DATA

It is the intent of the parties that the information and data exchanged in furtherance of the activities under this agreement will be exchanged without use and disclosure restrictions unless required by national security regulations or otherwise agreed to by the parties for specifically identified information or data.

ARTICLE 9. INTELLECTUAL PROPERTY AND DATA RIGHTS - PATENT AND INVENTION RIGHTS

All inventions made by Army employees assigned duties consonant with the directions set forth under this Agreement shall come under the initial custody and administration of NASA pursuant to 35 USC 207. Custody and administration responsibility for each such invention shall revert to the Army in the event that: (1) NASA decides not to pursue patent protection on such inventions; or (2) NASA and the Army mutually agree.

ARTICLE 10 – PUBLICATIONS

The Parties shall publish findings of research performed under this COA in formal NASA publications subject to regular NASA editorial and selection policies, with authors clearly identified with their organizations.

ARTICLE 11. TERM OF AGREEMENT

This Agreement becomes effective upon the date of the last signature below and shall remain in effect for ten (10) years from the date of signature of the Master Agreement, or April 9, 2013.

ARTICLE 12. RIGHT TO TERMINATE

Either party, upon a one-calendar year written notice to the other, may terminate this Agreement, at any time and for any reason it deems substantial. In the event of such termination, each Party shall return to the other party any data it furnished to assist the other in performance of this Agreement, but each party may retain any data generated by its partial performance under the Agreement, unless the Inventions and Data rights or other section of this Agreement provides otherwise.

This agreement will automatically terminate upon the termination of the Master Agreement.

ARTICLE 13. CONTINUING OBLIGATIONS

The obligations of the parties as set forth in the Articles entitled Liability and Risk of Loss shall continue to apply after the expiration or termination of this agreement.

ARTICLE 14. DISPUTE RESOLUTION

The NASA Key Personnel and the Army Key Personnel set forth in this Agreement, or their successors, will attempt to resolve all issues arising from the implementation of this agreement. If they are unable to come to agreement on any issue, then the dispute will be referred to the NASA and Army's manager's one level higher, or their designated representatives, for joint resolution. If the parties are unable to resolve the dispute, the matter will be referred to the Commanding General of Army Materiel Command and the Associate Administrator for Aeronautics.

DCN:11677

ARTICLE 15. KEY PERSONNEL

The following personnel are designated as the key officials for their respective party. The Technical Points of Contact are the principal points of contact between the parties in the performance of this Agreement.

NASA Glenn Research Center
Ji-Fen Lei
Acting Director, Research and
Technology Directorate
21000 Brookpark Rd.
Mail Stop 3-5
Cleveland, OH 44135
Phone: 216-433-3193
Jih-Fen.Lei-1@nasa.gov

United States Materiel Command
Robert C. Bill
Deputy Director,
Army Vehicle Technology Directorate
21000 Brookpark Rd.
Mail Stop 501-2
Cleveland, OH 44135
Phone: 216-433-3694
Robert.C.Bill@Glenn.nasa.gov

ARTICLE 16. MODIFICATION/AMENDMENTS

Any modification to this agreement shall be executed, in writing, and signed by an authorized representative of each party, possessing original or delegated authority to make such a commitment. The original signators to this agreement herby delegate signature authority for modifications to the Director of NASA GLENN and the Deputy Director of the Army Vehicle Technology Directorate.

ARTICLE 17. ANTI-DEFICIENCY ACT

All activities under or pursuant to this agreement are subject to the availability of appropriated funds, and no provision shall be interpreted to require obligation or provision of funds in violation of the Anti-deficiency Act, 31 U.S.C. 1341.

DCN:11677

ARTICLE 18. SIGNATURE BLOCK

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
GLENN RESEARCH CENTER

BY: _____
Julian M. Earls
Director
21000 Brookpark Road
Mail Stop 3-4
Cleveland, Cleveland 44135

DATE: 5/21/04

UNITED STATES MATERIEL COMMAND

BY: _____
John Miller
Acting Director
Army Research Laboratory

DATE: 13 Aug 2004

APPROVED

BY: _____
J. Victor LeBacqz
Associate Administrator for Aeronautics

DATE: 10/13/04

BY: _____
Major General John C. Doesburg
Commanding General, Research Development and Engineering Command

DATE: 7 Sep 04

Full Cost Estimate for Army Support ($K)						
	FY04	FY05	FY06	FY07	FY08	FY09
Army CS Employees:	46	46	46	46	46	46
(less) Quid Pro Quo	10	10	10	10	10	10
Accountable Army Employees to NASA	36	36	36	36	36	36
Average Salary with Benefits	$116.3	$119.8	$123.4	$127.1	$130.9	$134.8
Full Cost/FTE/WYE:						
Facilities& Related Costs	$12.0	$12.4	$12.8	$13.3	$13.7	$14.2
Information Technology Pool Cost	$6.5	$6.9	$7.3	$7.7	$8.2	$8.7
ODIN - Total personnel	37.0	37.0	37.0	37.0	37.0	37.0
ODIN Cost	$2.8	$2.8	$2.9	$2.9	$2.9	$2.9
Total ODIN Cost	$103.6	$104.6	$105.7	$106.7	$107.8	$108.9
General & Administrative Cost	$22.0	$22.6	$23.1	$23.7	$24.3	$24.9
Total Cost to NASA per Army FTE	$43.3	$44.7	$46.1	$47.6	$49.1	$50.7
Net Site Burden Born by NASA (36 Army FTE's)	$1,558.8	$1,608.3	$1,659.6	$1,712.8	$1,768.0	$1,825.3
Total Cost to Army for 46 FTE	$5,349.8	$5,510.3	$5,675.6	$5,845.9	$6,021.2	$6,201.9
Army employees performing NASA Work (30 FTE's)	$3,489.0	$3,593.7	$3,701.5	$3,812.5	$3,926.9	$4,044.7

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ARMY'S COMPENSATION TO NASA FOR ABOVE BURDEN: 10 QUID PRO QUO	$1,163.0	$1,198.0	$1,234.0	$1,271.0	$1,309.0	$1,348.0
Total Cost to Army for 46 FTE	$5,349.8	$5,510.3	$5,675.6	$5,845.9	$6,021.2	$6,201.9
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CENTER OPERATING AGREEMENT
BETWEEN
THE NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
AND
THE UNITED STATES ARMY MATERIEL COMMAND
FOR JOINT PARTICIPATION IN
AERONAUTICAL TECHNOLOGY FOR THE 21ST CENTURY
RELATED TO ARMY AVIATION
AT
NASA LANGLEY RESEARCH CENTER

The United States Army Materiel Command (the Army) and the National Aeronautics and Space Administration, Langley Research Center (NASA LaRC) (jointly referred to as "the Parties") agree to participate jointly in aeronautical technology pursuant to a document entitled "Agreement Between the National Aeronautics and Space Administration and the United States Army Materiel Command for Joint Participation in Aeronautical Technology for the 21st Century Related to Army Aviation" (the Master Agreement).

NASA LaRC and the Army have certain common research and development interests represented in the facilities and programs at NASA LaRC, the joint use and support of which would achieve tangible economies and promote efficiencies with continuing research and development of aeronautical vehicles.

THEREFORE, under the authorities set forth in the Master Agreement, the Parties agree to enter into this Center Operating Agreement (COA) in which,

The Army agrees:

1. To participate with NASA LaRC in selected aspects of the Army-related aviation technology program such as research and technology efforts in materials, structures, structural dynamics, aeroelasticity, nondestructive evaluation sciences, aerodynamics, acoustics, aircraft flight management, electromagnetics, and other related investigations required for advanced aircraft and other mobile systems. These activities shall involve developing and applying analytical and computational methods, performing simulations, and conducting ground, wind tunnel, and flight experiments;

2. As prescribed in Paragraph A.1 of the Master Agreement, to furnish Army technical and administrative employees, in support of NASA functions, to NASA LaRC at Full Time Equivalent (FTE) levels specified within the FY 2004 Table of Manpower Distribution and the FY 2004 Table of Allowances attached to this COA or as attached to future amendments to this COA;

3. As prescribed in Paragraph A.2 of the Master Agreement, to establish and maintain at NASA LaRC an Army Vehicle Technology Directorate (AVTD), which shall provide administrative support to all Army Employees furnished under the terms of the Master Agreement and this COA;

4. As prescribed in Paragraph A.3 of the Master Agreement, to staff and operate the AVTD at NASA LaRC and to designate a Director for the AVTD who shall be responsible for all aspects of the Army research and technology program at NASA LaRC, and shall administer the functions of the entire Army presence at NASA LaRC;

5. To conform to all operational regulations and practices in effect at NASA LaRC regarding such institutional matters as safety, security, work procedures, and personal conduct to NASA standards.

NASA agrees:

6. As prescribed in Paragraph B.1 of the Master Agreement, to make available to the Army, for use of its AVTD, certain facilities, as identified and described in modifications to be executed under this COA, on a non-reimbursable basis in exchange for consideration provided by the Army based upon the FTE level specified within the FY 2004 Table of Manpower Distribution and the FY 2004 Table of Allowances attached to this COA or as attached to future amendments to this COA;

7. As prescribed in Paragraph B.2 of the Master Agreement, to make available to the Army, without reimbursement, such reasonable office furniture, computer network services, telephonic equipment, desktop computers, and standard office equipment and supplies as are required by the Army personnel assigned to NASA LaRC and working in the AVTD in support of the Army under this Agreement. Standard LaRC overhead costs (for items including but not limited to office furniture, computer network services, telephonic equipment, desktop computers and

standard office equipment and supplies) attributable to the Army FTE provided in support of NASA LaRC under this Agreement shall be accounted for in determining the amount of nonreimburseable consideration (see Paragraph C.2 of the Master Agreement) provided by the Army under this Agreement;

8. To ensure that for Army personnel assigned to NASA LaRC, work areas and working conditions comply with required safety and health standards, issue NASA safety equipment and protection devices to the extent available, provide safety training and first aid or emergency medical treatment, and report accident and exposure data through NASA and Army channels;

9. To provide program assignments and supervision, with reimbursement consideration, for Army personnel assigned to NASA LaRC;

10. To publish findings of research performed under this COA in formal NASA publications subject to regular NASA editorial and selection policies, with Army authors clearly identified with their Army organizations;

11. As prescribed in Paragraph B.5 of the Master Agreement, to supply fiscal accounting information to the supporting Army Controller's Office detailing the amount of nonreimbursable consideration provided by the Army based upon the FTE levels specified in accordance with Paragraph 2 of this Agreement, after accounting for overhead costs in accordance with Paragraph 7 of this Agreement. Also to detail the costs that, except for this COA, would be chargeable to the Army as reimbursable costs arising out of Army work for Army projects in NASA LaRC facilities. To the extent such costs of Army projects exceed the amount of nonreimbursable consideration received from the Army, the Army and NASA LaRC shall negotiate the amount of such costs prior to initiation of such projects. NASA LaRC will supply such information via quarterly internal reports to the Director of the Army Vehicle Technology Directorate at NASA LaRC. Funding of reimbursable costs will be accomplished through the use of Military Interdepartmental Purchase Requests (MIPR) and SF 1080 prior to execution of reimbursable work; and

12. To identify, in its accountable property records, items that were provided by the Army or purchased with funds transferred to NASA by the Army with required formal Army property accountability. The property belongs to the Army until such time as the Army makes other written disposition of the property.

Both Parties agree:

13. As prescribed in Paragraphs C.1 and C.4 of the Master Agreement, that the Director of the AVTD, Heads of Army Joint Program Offices, and NASA LaRC representatives shall meet at least once a year in the month of January for the purposes of identifying the appropriately related technology programs of NASA LaRC, re-examining the programs being pursued by the Army in facilities under the provisions of this COA, and reviewing the programs which have been or are to be undertaken by Army employees under the operational control and direction of NASA LaRC and the adequacy of this COA. NASA LaRC shall record a summary of this meeting and provide it to the Army. Based on the results of this annual meeting, the Army and NASA LaRC shall enter into an amendment to this COA that specifies the Army FTE that the Army shall provide to NASA LaRC for the next fiscal year, the value of services that NASA LaRC will make available to the Army in recognition of that FTE support, and that may also specify particular Army programs or projects that will be conducted at NASA LaRC during the next fiscal year;

14. That the nonreimbursable consideration received from the Army under this COA shall remain available for AVTD use until the end of the fiscal year. The Army agrees that no such consideration shall carry over into future fiscal years and that the Army shall not request any refund for consideration not utilized during the current fiscal year;

15. That the Director of the AVTD shall exercise administrative control of Army resources provided under the reimbursable authority. Further, the Director of the AVTD is the Army's point of contact at NASA LaRC and shall deal directly with the Office of the Director of NASA LaRC in negotiating Army interests. Any unresolved differences concerning this COA shall be elevated for resolution as specified in Paragraph 10 of the Master Agreement;

16. That the Director of the AVTD at NASA LaRC and Heads of other Army Joint Research Program Offices shall participate with the Office of the Director of NASA LaRC to ensure that the Army Program interests and management policies are being reflected in NASA LaRC's formulation and direction of the joint Army/NASA Programs at NASA LaRC;

17. That the Director of NASA LaRC and the Director of the AVTD, or their designated representatives, shall have the authority to negotiate under the terms of this COA, and that modifications or changes to this COA shall be by mutual consent, in writing, and shall be consistent with the provisions of the Master Agreement;

18. That any Specific Use Permits subsequently entered into between the Parties for Army projects at NASA LaRC are subject to the provisions of this COA and the Master Agreement; and

19. That, in accordance with Paragraph C.2. of the Master Agreement, this COA shall become effective when approved by both Parties' Headquarters . Also, if otherwise consistent with applicable authorization and appropriations Acts of Congress, that this Agreement shall remain in effect for a period of five (5) years, unless either Party elects to terminate this COA or either Party's Headquarters terminates the Master Agreement and either Party or its respective Headquarters does so by providing written notice of such termination to the other Party/Headquarters not less than one (1) year in advance of the effective date of the termination.

Executed in duplicate originals by representatives of the Parties who are authorized to bind NASA and the Army to the terms and conditions of this COA.

BY: _____
Roy D. Bridges, Jr.
Director
NASA Langley Research Center

1-16-04
Date

BY: _____
John M. Miller
Acting Director
U.S. Army Research Laboratory

30 Jan 2004
Date

BY: _____ 2/20/04
Dr. J. Victor Lebacqz
Associate Administrator for
Office of Aeronautics
National Aeronautics and Space Administration

20 Feb 04
Date

BY: _____
John C. Doesburg
Major General, USA
Commander, RDECOM

9 Feb 04
Date

ATTACHMENTS:
FY 2004 Table of Manpower Distribution
FY 2004 Table of Allowances

FY 2004 Full Cost Estimate for Army Support[1]
($K)

	FY 04
NASA's Full Cost for Housing 60 Army CS Employees (Full Cost per FTE/WYE):	
Facility & Related Cost (excl FMA) - avg Util & Maint per person	*11.9*
Information Technology pool cost	*6.7*
ODIN Cost - Desktop & related	*3.0*
General & Administrative Cost[2]	*32.0*
Full Cost to NASA per FTE	53.7
Full Cost to NASA for 60 Army Employees (from above)	3,220
Total Cost to Army for 60 FTE's @ $110K per FTE (Sal/Ben only)	6,600
Army employees performing NASA work (32.5 FTEs x $110K)	3,575
Army employees performing Army work (27.5 FTEs x $110K)	*3,025*

For quid pro quo cost comparison,
please refer to these two lines (highlighted in green)

Notes:
(1) FY 2004 is a transition year to full cost and implementation of budget formulation. Estimates for FY 2005-2009 to be revisted after 1-year operation under full cost and implementation of IFMP budget formulation.
(2) Rationale for 25% reduction in G&A cost due to Army not needing to fully utilize NASA's G&A services in areas such as HR, FM, and Chief Counsel.

OCFO(RM)/RSS
7-15-03

DCN:11677

As of June 2003

FY2004 TABLE OF MANPOWER DISTRIBUTION

ARL & AMCOM Front Office Staff

ARL	AMCOM		
Wolf Elber, Director	Wayne Mantay, Joint Research Project Office	Front Office	11
Carol Jackson, Secretary		S&E	31
Danny Hoad, Loads & Dynamics		QPQ	18
Felton Bartlett, Structural Mechanics		TOTAL	60
David Meyer, Mangement Support Group			
Yolanda Hinton, Mechanical Engineer			
Gary Farley, Chief Scientist			
Crystal McDonald, Budget Analyst			
Rachelle Saunders, Admin Support Assistant			
Henry Russell, Management Analyst			

Army Research Laboratory (ARL)

NASA Supervisors in Bold

Howard Adelman (NASA, RCG)	Damodar Ambur (NASA, RCD)	Linda Blackburn (NASA, OAA)	Karen Credeur (NASA, SG)	Ed Generazio (NASA, RCF)	Lynda Holder (NASA, SEA)	Wayne Martin (NASA, RBND)	Mike Mastaler (NASA, RFP)	
Boitnott, Richard Fasanella, Ed Giacoman, Yolanda Jackson, Karen Pritchard, Jocelyn Taleghani, Barmac Wilkie, Keats	Baker, Don Everett, Richard Jackson, Wade Murri, Gretchen Newman, Andy O'Brien, kevin	Hawks, Tina	West, Sandy	Anastasi, Bob Zalameda, Joe	Erwin, Mary	Fossum, Curt	Bishop, Bruce	
Boyd Perry (NASA, AB)	**Lisa Oliver (NASA, SA)**	**Bill Presson (NASA, RBOD)**	**Ivatury Raju (NASA, RCC)**	**Kelly Tarkenton (NASA, RCHD)**	**Bill Alexander (NASA, RBNB)**	**Tony Trexler (NASA, RDJ)**	**Dave Jones (NASA, SDD)**	
Lake, Renee Langston, Chester Nixon, Mark Singleton, Jeffrey Wilbur, Matt Yeager, Bill Sekula, Martin	Melton, Wayne	Harvey, Ron	Chen, John Johnson, Art Smith, Steve	Churray, Rick	Staples, Jimmy	Macdonald, Bruce Haynes, Andy	Glenn, Sandra	

Aviation and Missile Command (AMCOM)

NASA Supervisors in Bold

Bill Alexander (NASA, RBNB)	Joe Posey (NASA, RBE)	Jerome Keglemam (NASA, RB)	Larry Leavitt (NASA, RBB)	Wayne Martin (NASA, RBND)	Don Porter (NASA, SCB)	Bill Sellers (NASA, RBD)	Tony Trexler (NASA, RDJ)	Ed Waggoner (NASA, RB)
McHatton, Russell	Conner, David	Hodges, Todd	Noonan, Kevin Wong, Oliver	Treier, John	Horsley, Lewis	Hepner, Tim	Carpenter, Susie Gleason, John	Jones, Henry Reis, Deane

DCN:11677

AGREEMENT BETWEEN THE NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AND THE UNITED STATES ARMY MATERIEL COMMAND

FOR JOINT PARTICIPATION

IN

AERONAUTICAL TECHNOLOGY FOR THE 21ST CENTURY RELATED TO ARMY AVIATION

WHEREAS, the United States Army Materiel Command (hereinafter called the Army) and the National Aeronautics and Space Administration (hereinafter called NASA) (jointly referred to as "the parties") have decided to enter an Agreement that supersedes and replaces the document entitled "An Agreement between the National Aeronautics and Space Administration and the United States Army Materiel Command for Joint Participation in Aeronautical Technology Related to Army Aviation" executed by the Army on 31 October 1969 and by NASA on November 12, 1969; and

WHEREAS, the Army recognizes that a continuing aviation technology effort related to Army Aviation is necessary in order to lead to the development of advanced aircraft operating within the atmosphere; that projected Army concepts and doctrine indicate a greatly increased dependence upon air mobility; that performance of aircraft currently limits concepts of air mobility; and that an accelerated technology effort will be necessary if air mobile weapons systems are to keep pace with other technological improvements; and

WHEREAS, NASA and the Army continue to have certain common interests in fostering research and development of aircraft on a continuing basis; and

WHEREAS, arrangements by NASA and the Army for the joint use, and support of, certain facilities at three NASA Research Centers (Ames Research Center, Moffett Field, California; Glenn Research Center, Cleveland, Ohio; Langley Research Center, Hampton, Virginia) would achieve tangible economies and promote efficiency with respect to continuing research and development of aeronautical vehicles;

THEREFORE, under the authority set forth in the National Aeronautics and Space Act of 1958, (the "Space Act") as amended (42 U.S.C. 2473, et seq.); and for the Army at 31 U.S.C. 1535 and DoDI 4000.19;

A. The Army agrees to the following, to be implemented through Center Operating Agreements to be negotiated with individual NASA Reseach Centers specified above:

1. to participate with NASA in selected aspects of the Army related aviation technology program underway at the NASA Research Centers (a) by furnishing technical and administrative civilian employees who shall be assigned duties at the Center consonant with the directions set forth herein, and (b) by assuming without reimbursement from NASA the direct payment of salaries, allowances, travel, movement of household effects, and other related costs for technical and administrative civilian employees so assigned;

2. to maintain at each of the designated NASA Research Centers on a nonreimbursable basis, an Army Office which shall provide administrative support to all Army employees furnished under the terms of this Agreement;

3. to staff and operate facilities assigned under Specific Use Permits by NASA, as authorized below, to the Army for the required number of technical employees under supervision of the Army Office;

4. to retain appointing, classification and performance evaluation authority for Army employees provided under the terms of this Agreement; and

5. that needed Army support may vary depending upon specific research and administrative tasks.

B. NASA agrees to:

1. make available to the Army for its exclusive use certain facilities at the Research Centers consonant with the terms and conditions to be set forth in the individual Center Operating Agreements (and Specific Use Permits, entered into pursuant to 14 C.F.R. 1204.501 or 1204.504);

2. provide as negotiated in the Center Operating Agreements, without reimbursement, office furniture, computer network services, telephonic equipment, desktop computers, and reasonable amounts of standard office equipment and supplies for use by the Army;

3. make available as negotiated in the Center Operating Agreements, without reimbursement, technical support services (i.e., shop support), apart from those

facilities assigned by Specific Use Permits for the Army in discharging the purposes of this Agreement;

4. provide at the request of the Army and without reimbursement, personnel services which are necessary for discharging the purposes of this Agreement consistent with applicable personnel policies, rules, and regulations of the Office of Personnel Management and the Army; and

5. provide, without reimbursement, the Army with information and documentation requisite for the preparation of an annual budget by the Army.

C. NASA and the Army agree that:

1. they will engage annually in joint planning to guide the investment strategy in this area. Investment strategy will focus on the achievement of technology development goals that meet the future requirements of Army Aviation. Progress toward these goals will be reviewed on an annual basis. Projects resulting from this joint planning may be Army-funded, NASA-funded, or jointly-funded. Each agency will have final approval for those projects to which they provide resources.

2. they will enter into Center Operating Agreements specifying the detailed methods of operating under the agreements at Ames, Glenn, and Langley and that such individual Center Operating Agreements shall, when approved by the parties at their respective headquarters, be deemed to be parts of this Agreement. Individual Center Operating Agreements shall define the nonreimbursable consideration provided by the Parties in terms that are measurable and satisfy full-cost accounting principles;

3. all personnel furnished by the Army for this program shall retain their identity as Army employees and shall be rated in accordance with Army Regulations;

4. for each NASA Center, representatives of the NASA Center, and of the Army Office at that NASA Center, shall meet at least once a year for purposes of defining, and reexamining when necessary, the individual Center Operating Agreement;

5. work or services, materials, supplies, or equipment not otherwise covered under companion provisions of this Agreement or under the terms and conditions set forth in the individual Center Operating Agreements and Specific Use Permits shall, when furnished by one party to the other, be furnished normally on a

nonreimburseable basis under the authority of the Space Act; however, contract costs for work or services, materials, supplies, or equipment when procurement therefore is undertaken by one party at the request of the other shall be reimbursed by the party requesting the procurement per the Economy Act, 31 U.S.C. Section 1535, or the Space Act, as applicable;

6. this Agreement supersedes and replaces the document entitled "An Agreement between the National Aeronautics and Space Administration and the United States Army Materiel Command for Joint Participation in Aeronautical Technology Related to Army Aviation" executed by the Army on 31 October 1969 and by NASA on November 12, 1969, and shall enter into force and effect when signed by both parties and, if otherwise consistent with applicable authorization and appropriations Acts of the Congress, this Agreement shall remain in force and effect for 10 years from date of last signature below, except that this Agreement can be terminated at the election of either NASA or the Army provided such termination shall be upon notice in writing forwarded by one party to the other not less than one calendar year in advance of termination. All Center Operating Agreements will terminate on the effective date of the termination or other conclusion of this Agreement;

7. modifications or changes to this Agreement shall be by mutual consent and shall be made in writing;

8. in the event of destruction by fire, the elements, Acts of God, misadventure or accident, of NASA facilities assigned to the Army the rights and obligations which can be discharged under this Agreement without recourse to, or use of, the said facilities shall remain binding upon both parties unless this Agreement is expressly terminated by either party consonant with the requirements set forth in paragraph C.6 above. NASA and the Army agree to assume liability for their own risks associated with activities undertaken in this Agreement;

9. in Center Operating Agreements, each party shall designate by name or title a person at each applicable NASA Research Center who is the authorized representative for NASA and the Army in connection with all matters pertaining to the specified Center Operating Agreement (and any Specific Use Permit);

10. all unresolvable differences concerning this Agreement and the individual Center Operating Agreements shall be elevated for resolution through each party's chain of command to the Commanding General of Army Materiel Command and the NASA Associate Administrator for Aerospace Technology;

11. all activities under or pursuant to this Agreement are subject to the availability of appropriated funds, and no provision herein shall be interpreted to require obligation or payment of funds in violation of the Anti-Deficiency Act, 31 U.S.C. Section 1341. This Agreement is not a funding document, and does not represent the obligation or transfer of funds;

12. all inventions made by Army employees assigned duties consonant with the directions set forth under this Agreement shall come under the initial custody and administration of NASA pursuant to 35 U.S.C. 207. Custody and administration responsibility for each such invention shall revert to Army in the event that: (1) NASA decides not to pursue patent protection on such invention; or (2) NASA and the Army mutually agree; and

13. in the event of any discrepancies between this Agreement and the Center Operating Agreements or Specific Use Permits, the terms of this Agreement will control.

EXECUTED IN DUPLICATE ORIGINALS BY representatives of the parties who are authorized to bind the NASA and the Army to the terms and conditions of this Agreement.

NASA	ARMY
JEREMIAH F. CREEDON Associate Administrator for Aerospace Technology	PAUL J. KERN General, USA Commander U.S. Army Materiel Command

Effective Date: 10 April 2003

Army Aviation @ NASA

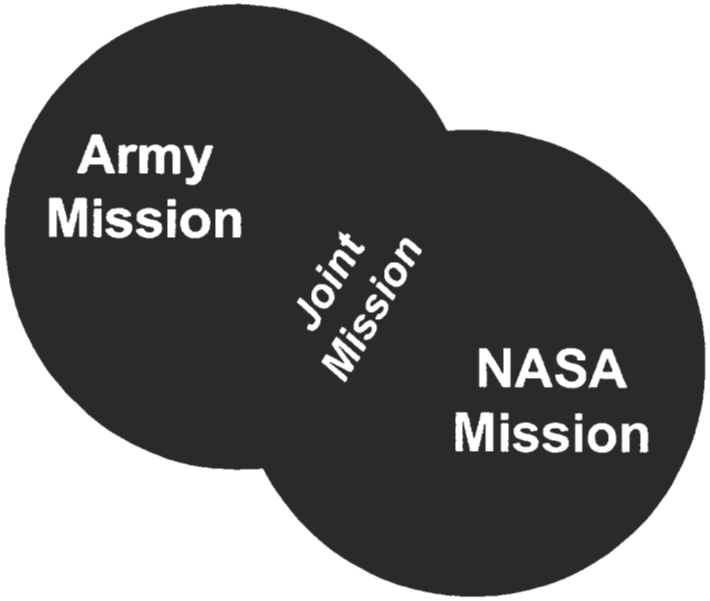
Army and NASA have collaborated at the NASA Centers for 40 years because it saves national resources

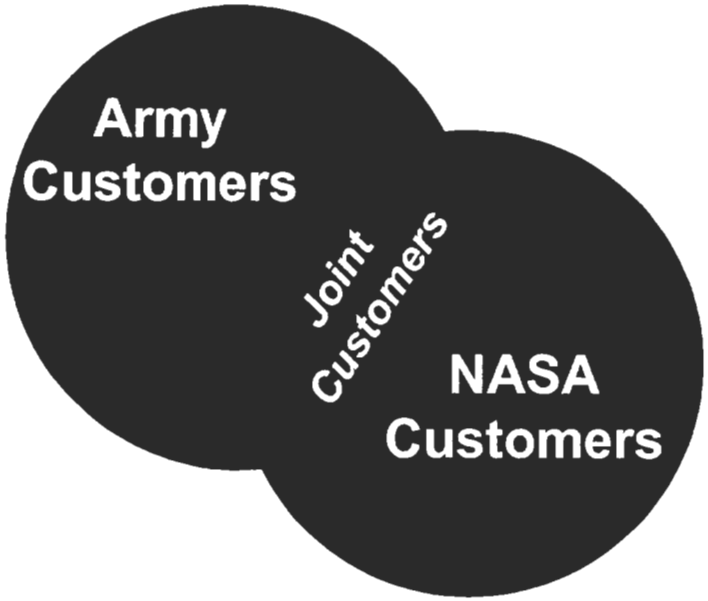
Let's not change it now for other than resource reasons

Army/NASA Synergism

VEHICLE TECHNOLOGY DIRECTORATE

The Co-Location Works Because of Our Common Interests





DCN:11677

Administration & Congress

Administration has decided to roll over military aeronautics costs for NASA to DoD to free up resources for Space Exploration

DoD is not buying in except for Ames (Air Force will take over the full-scale tunnel at Moffet Field @ $M 10 p.a.

NASA Langley equally shares DoD(Army) mission in Rotorcraft mission responsibilities

DoD(Army) is threatening to withdraw from Langley and Glenn (this BRAC), and duplicate facilities and equipment at Aberdeen, MD

Total National Costs will increase significantly at “Constant Mission”

DoD Incremental Costs at NASA Sites

- Fair incremental costs at NASA sites for DoD-residence at NASA facilities are $K 50 per person.
- U.S.Army contingent is paying that now in a “Quid-Pro_Quo” arrangement by providing one support person for every two research personnel on the field. ($M 2.5 for supporting 50 Army Scientists)
- Army personnel use excess facility/equipment capability towards DoD/Army mission. All services provided in that charge. Only Wind Tunnel use carries User Charges.
- Army efforts to duplicate Facilities/Equipment capabilities at Aberdeen, MD just add to National Debt.

DCN:11677

Cost of Same Mission at Aberdeen

	DoD Cost	National Cost
National Investment (without wind tunnels)	$M 0.000	$M 50.000
Annual Costs		
Debt Investment Cost (5% of $M 50)	$M 0.000	$M 2.500
Recurring Costs (6% of Investment)	$M 3.000	$M 3.000
G&A Costs ($ K 50K/person @ 60 S&T's)	$M 3.000	$M 3.000
Rental of equipment on customer basis	$M 1.000	$M 1.000
Rental of group office space	$M 0.500	$M 0.500
Rental of IT connections	$M 0.700	$M 0.700
Total Annual Cost	$M 8.200	$M 10.700

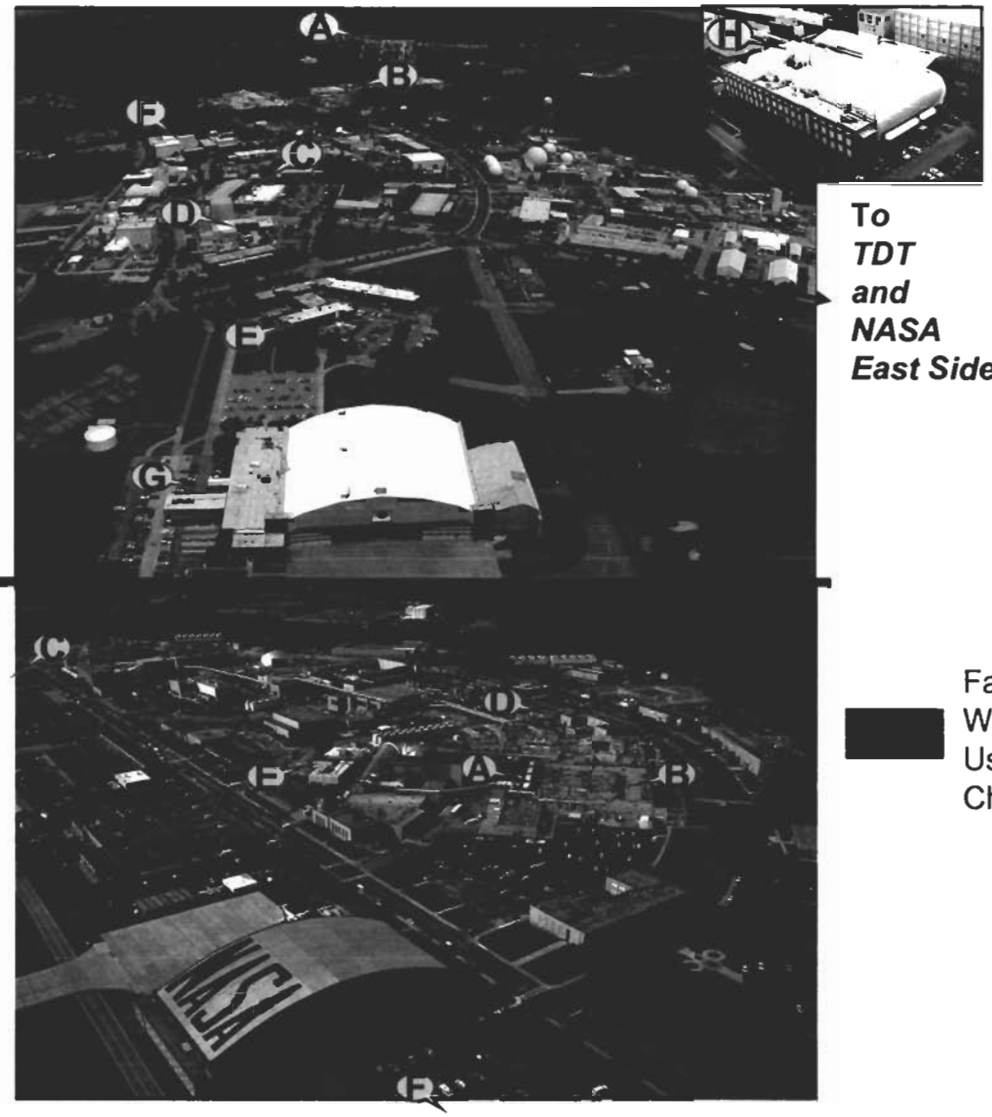
Compared to $M 2.500 to share with NASA on existing infra-structure
Blue numbers are not included in future Army budgets for VTD

DCN:11677

DCN:11677

Facilities Important to Army Mission

A - *Impact Dynamics Research Facility*
B - *Acoustic Research Lab*
C - *Structures & Materials Labs*
Fatigue & Fracture Lab
D - *Structural Dynamics Research Lab*
E - *NDE Research Labs*
F - *14X22 Foot Subsonic Tunnel*
14 x 22 Hover Cell
G - *Army Office*
H - *Transonic Dynamics Tunnel (TDT)*
Tiltrotor Hover Cell
Helicopter Hover Cell

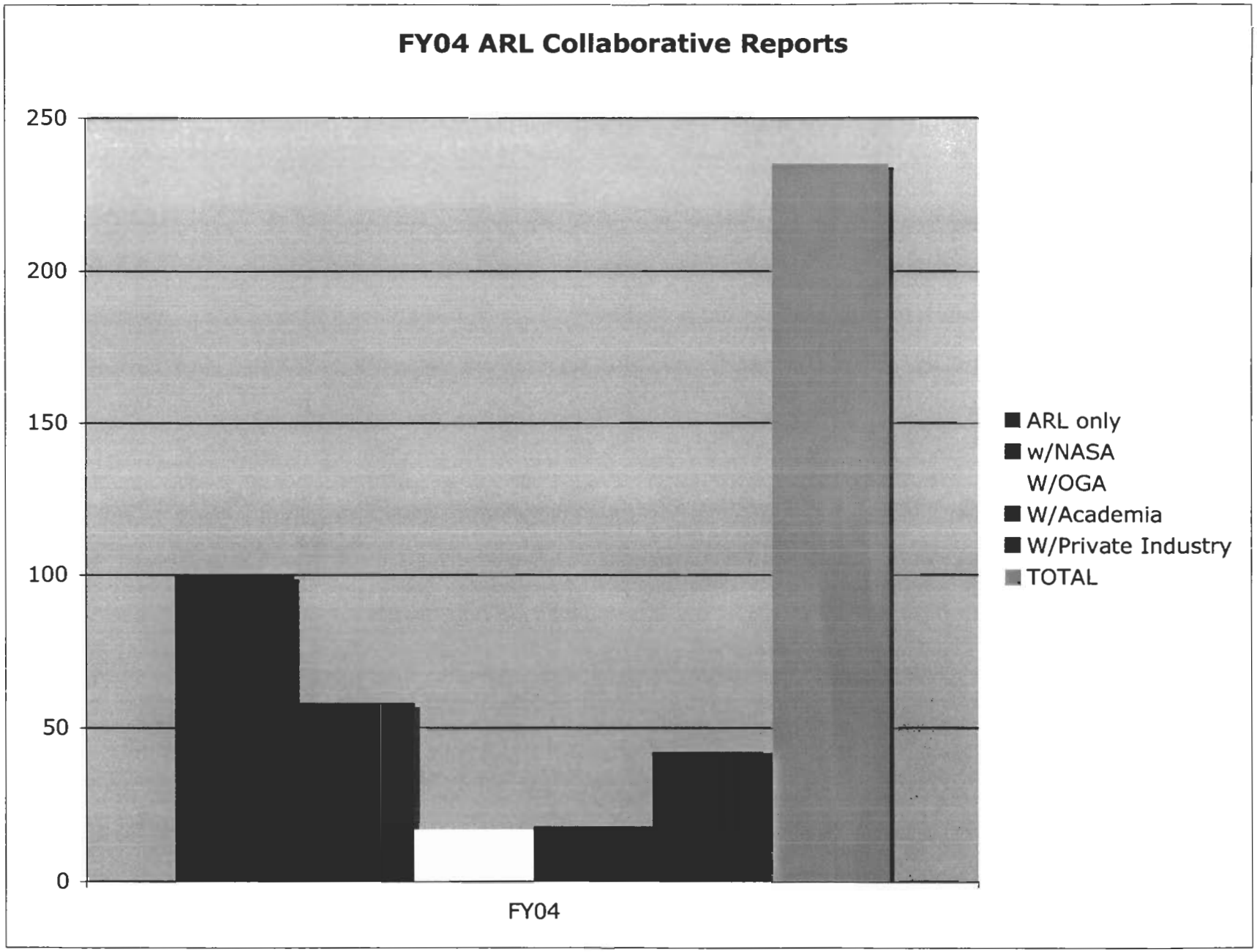


A - *Mechanical Components Research Facilities*
B - *Engine Components Research Facilities*
C - *Structures & Materials Labs*
D - *Small Engine Research Facility*
E - *Icing Research Tunnel*
F - *Army Office (off the picture)*

Facilities With User Charges

Additional Synergy Losses

- Currently NASA, Universities, OGA's, and Industry add 140% of Army output in synergistic products at no additional cost to Army.
- The move to Aberdeen would destroy that synergy because of lack of capabilities.
- Traditional loss of complement (80%) of the Army team would destroy the 35-year progress of building a functioning multi-agency team.


FY04 ARL Collaborative Reports
250
200
150
100
50
0
FY04
ARL only
w/NASA
W/OGA
W/Academia
W/Private Industry
TOTAL

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SUMMARY

- The proposed BRAC move is counter-productive, and should not be supported

- An addition of $M 5.000 per year mission funds to VTD would increase the health of both Army and NASA in military and Civilian Aeronautics

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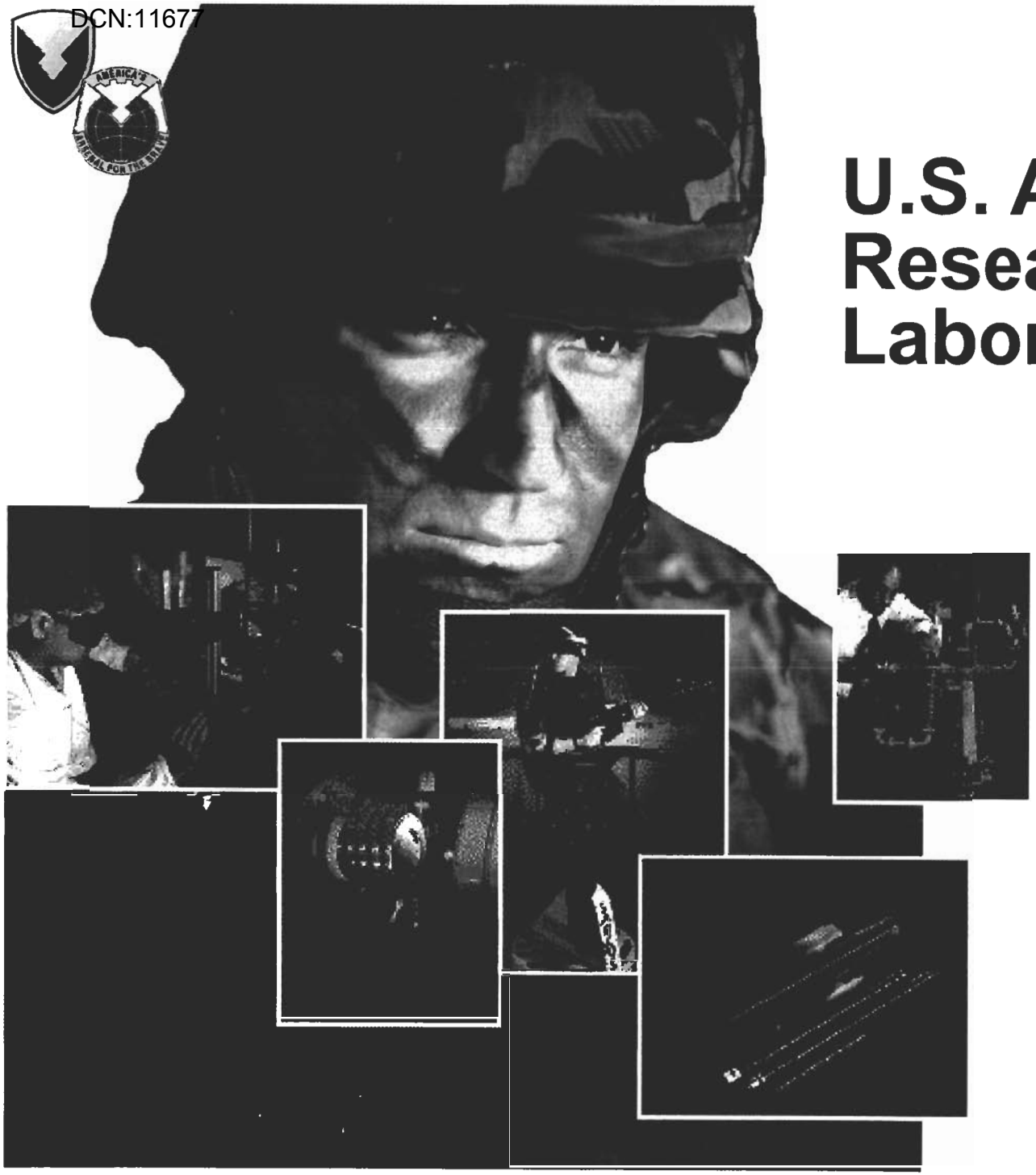


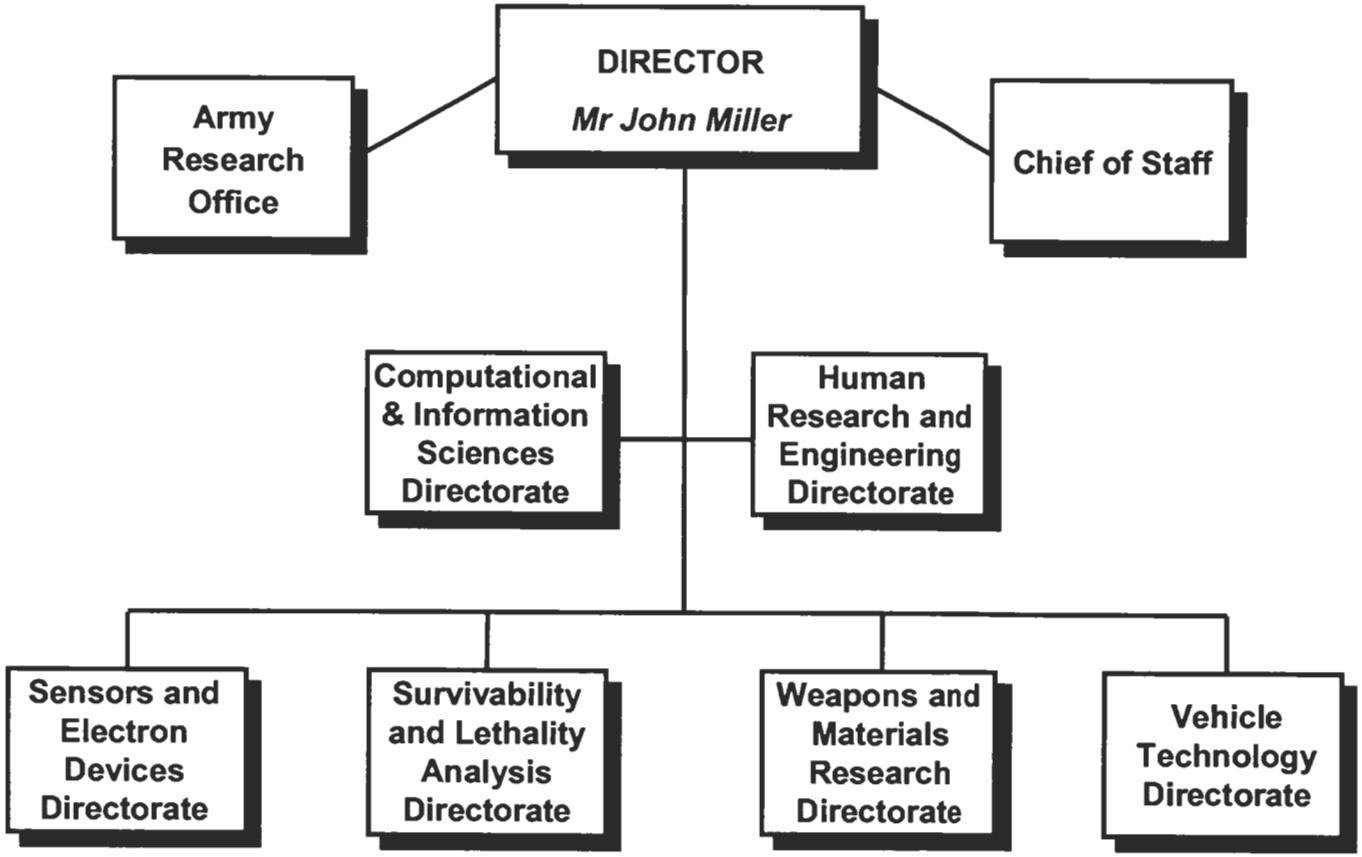
U.S. Army Research Laboratory

Vehicle Technology Overview

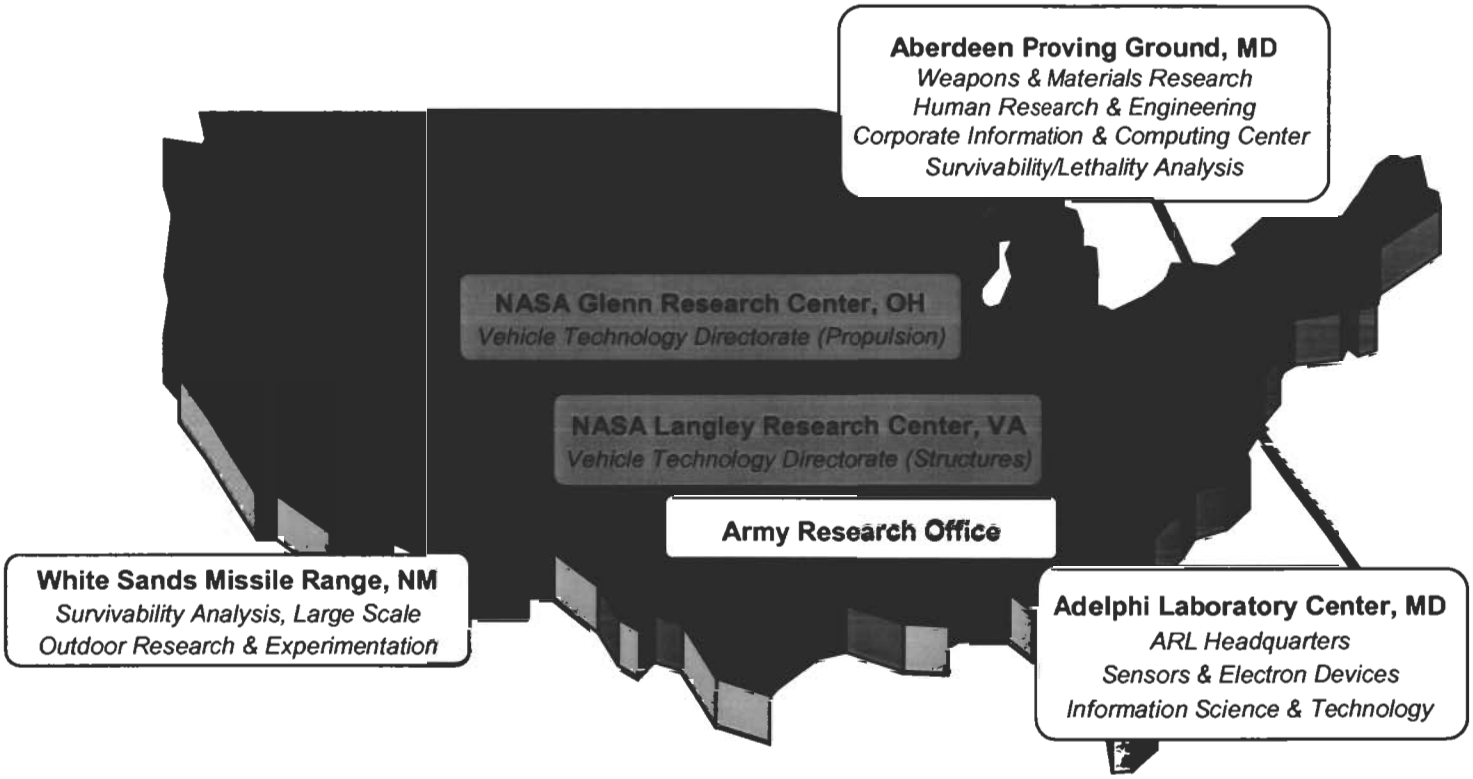
by
John M. Miller
Director (Acting)

US Army Research Laboratory

VEHICLE TECHNOLOGY DIRECTORATE



ARL Locations



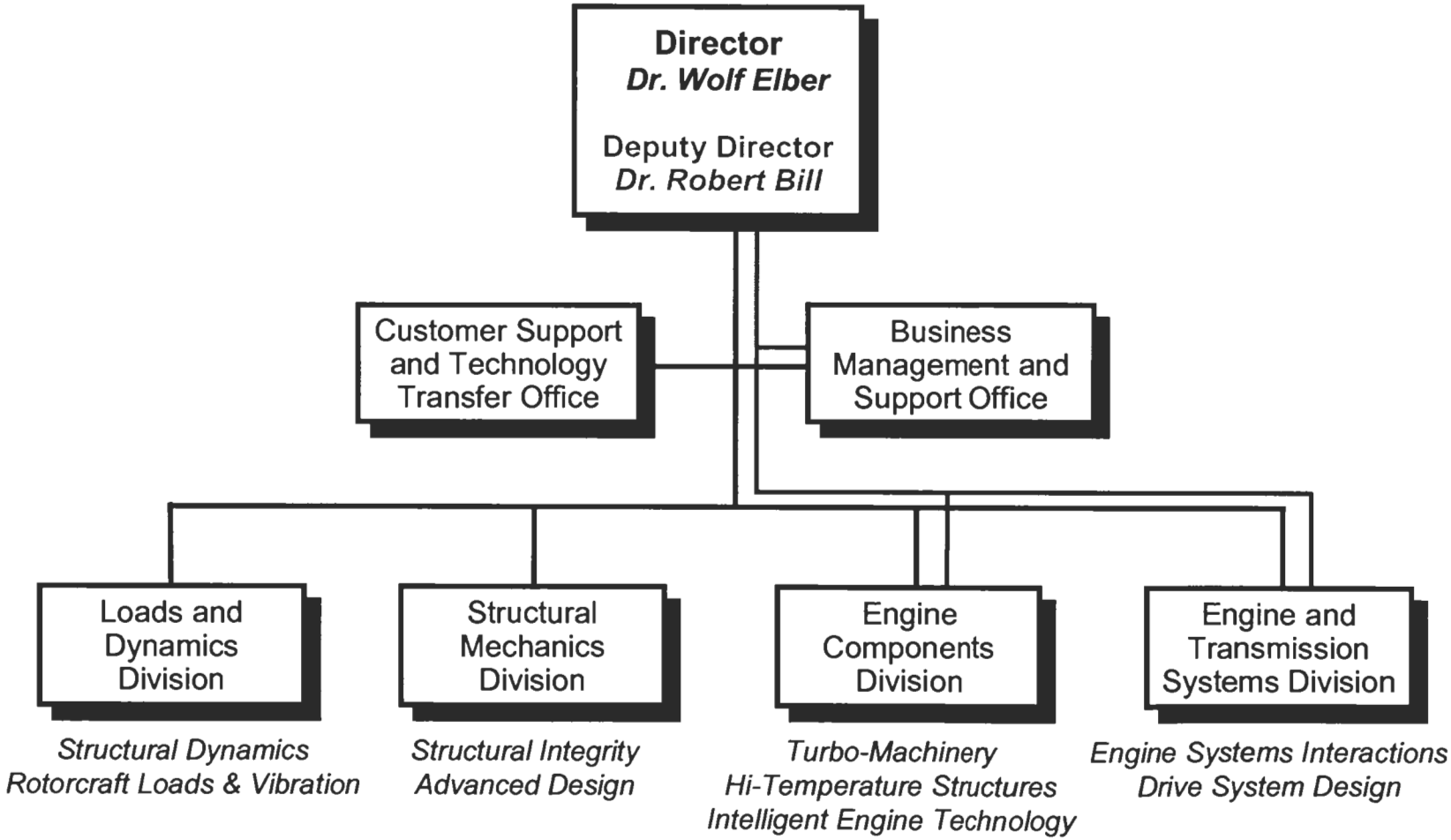
Army History at NASA Langley & Glenn

VEHICLE TECHNOLOGY DIRECTORATE

- Army Aviation Directorates were established in 1970 at NASA Langley Research Center and NASA Glenn (formerly Lewis) Research Center to leverage NASA facilities, skills, and research programs in rotorcraft structures, aeromechanics and propulsion. ARL researchers at Langley and Glenn have access to world class NASA facilities and more than 2000 NASA PhDs
  - 32 years of joint Army-NASA ***dual-use*** technology development
- Realigned in 1992 with ARL as the Vehicle Structures and Vehicle Propulsion Directorates with a broader mission of multi-customer research for all Army vehicles (air and ground)
- Part of the original Army organization at Langley was absorbed by AFDD and remained with AMRDEC
- In 1996 the Vehicle Structures Directorate and Vehicle Propulsion Directorate were combined to form the Vehicle Technology Center
- Renamed the Vehicle Technology Directorate in 1999

DCN 11677

Vehicle Technology Directorate



VTD Mission

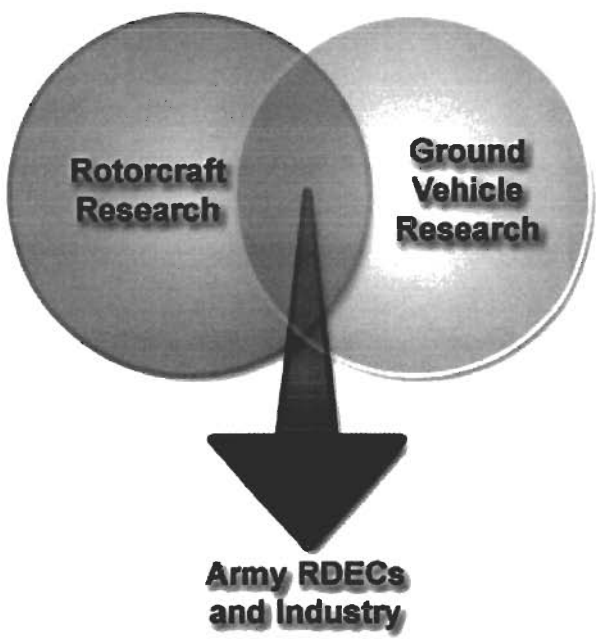
- Provide basic and applied multi-customer research for vehicle structures and propulsion technologies that support existing and next generation Army systems
  - Rotorcraft (AMRDEC)
  - Ground Vehicles (TARDEC)
  - Missiles (AMRDEC)
  - Bridges & Shelters (NRDEC)
- Develop and validate aeromechanics, structures, and propulsion technologies in support of Army STOs
- Collaborate with Army R&D Centers in the application of new structures and propulsion technologies
- Transfer new science and technology to US industries
- Acquire new science and technology from NASA, OGA's, academe, and foreign sources to support DoD needs

VTD Mission Strategy

- **Concentrate on Uniqueness**
  - structural mechanics
  - vehicle loads and dynamics
  - power generation sciences
  - power transmission technology

  Applicable to Multiple RDECs

- **Provide Long Range Multi-customer Services**



VTD Execution Strategy

Emphasis on Sophisticated Computational Analysis Research

- Turbine Engine Stall Control Program
  - Laboratory level experimentation
  - Complex computational modeling
  - Control Effects
- Crashworthiness Design Methodology
  - Laboratory level experimentation
  - Complex computational modeling
  - Low-cost vertical drop tests (allows NASA to retire the expensive crash gantry)
- Rotorcraft Structural Dynamics
  - Intensive numerical computation to replace expensive testing

VTD Resources

		1992	2003
Organization (Directorates)		2	1
Personnel Strength (Employees)		103	90
PhDs		21	29
Budget	TOTAL	$10.9M	$9.3M
	Mission	$10.2M	$8.4M
	Customer	$0.7M	$0.9M

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VTD FY04 Funding Projections

VEHICLE TECHNOLOGY DIRECTORATE

VTD Revenue Projections
FY04 ($K)

Direct Mission			
	6.1	1898	Advanced Propulsion Research
		180	Materials and Mechanics Research
		1438	Advanced Structures Research
	6.2	3770	Vehicle Propulsion and Structures Technology
		871	Materials Technology
	Other	712	SBIR
	Subtotal Mission	8869	
Customer		1200	RDECs, PMs, DARPA, OGA
	Subtotal Customer	1200	
ARL Initiatives		500	Oil Free Turbocharger (leverages $1000K from NASA)
		500	Prognostics and Diagnostics (leverages $1000K from NASA)
		350	Active Stall Control Engine Demonstration
		1255 *	To be Determined (TBD)
	Subtotal ARL Initiatives	2605	
Other NASA		3210	Joint Army/NASA projects
	Other NASA	3210	
		15884	

* This includes an ASAALT reduction of approximately 650K per year over the POM Years.

ARL/VTD Key Customers and Partners

- RDECOM RDECs
  - Aviation & Missile RDEC
  - Tank & Automotive RDEC
  - Natick RDEC
- PMs
- DARPA
- Other Services (Air Force)
- Other Government Agencies (NASA, FAA)
- U.S. Industry
- Academia

In FY03, customer funding was approximately $1M

DCN:11677

VTD Key Projects

VEHICLE TECHNOLOGY DIRECTORATE

ARL

- Engine Prognostics & Diagnostics - AMRDEC, TARDEC, Industries 2, 3
- Active Stall Control - AMRDEC, Industry 2
- Oil-Free Technology - AMRDEC, TARDEC, Industries 2, 3
- High Temperature Components - AMRDEC, Industry 2
- Ultra Safe Gear Fracture Analysis - AMRDEC, Industry 1
- Survivable, Affordable, Reparable Airframes - AMRDEC, Industry 1
- Advanced Tilt Rotor Technologies - AMRDEC, Industry 1
- Aircraft Crashworthiness - AMRDEC, Industry 1
- Active Twist Rotor - AMRDEC, Industry 1

RDEC

AMRDEC
TARDEC

INDUSTRY

1 - Rotorcraft Systems
Boeing
Sikorsky
Bell Helicopter

2 - Turbine Engines
General Electric
Allison
Honeywell

3 - Reciprocating Engines
Caterpillar
Detroit Diesel
Capstone

- Joint Heavy Lift
- Versatile Affordable Advanced Turbine Engines
- Rotorcraft Drive Systems 21
- Small Heavy Fuel Engines
- Unmanned Aerial Vehicles
- Stryker
- Future Combat Systems

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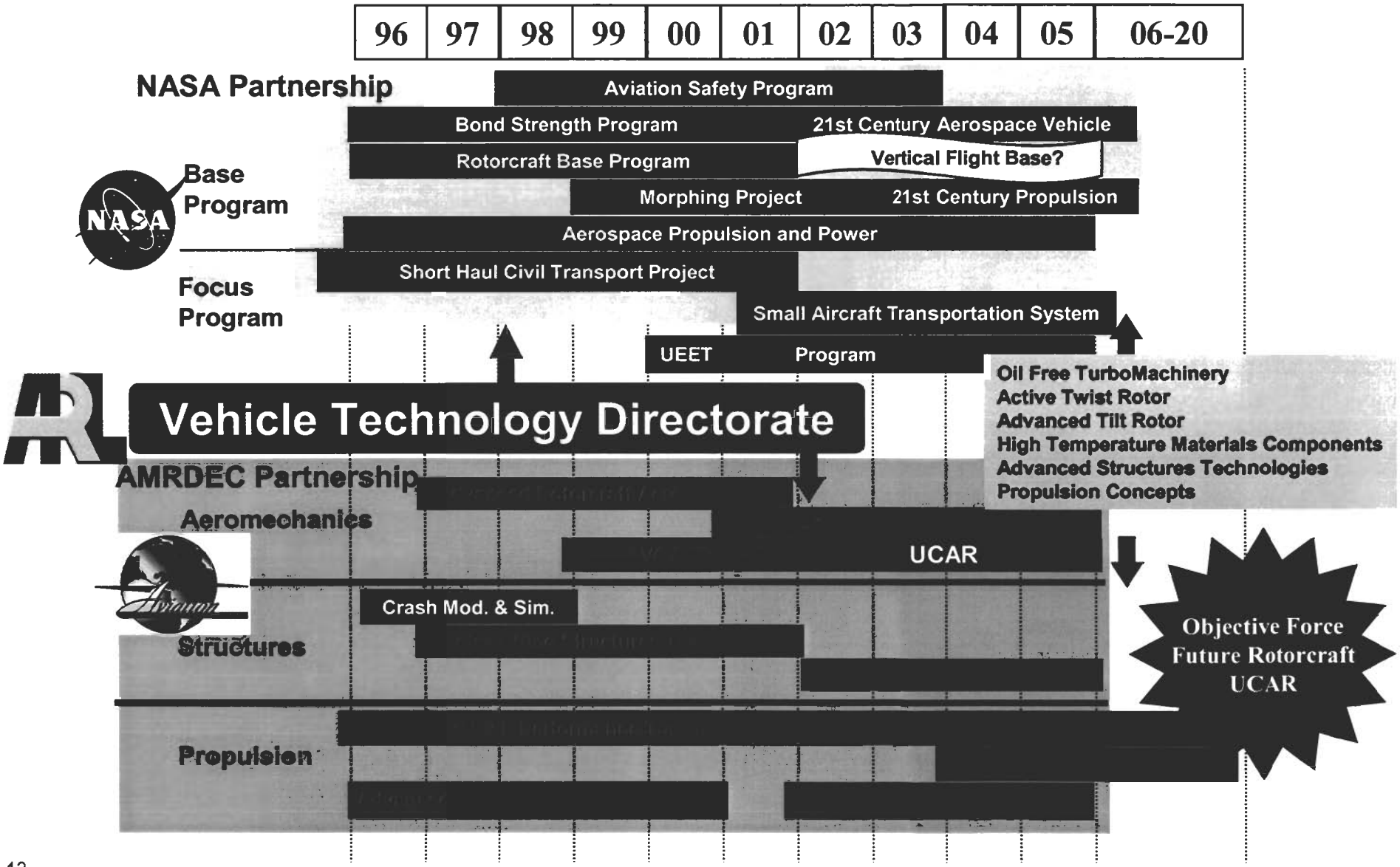
VTD-AMRDEC-NASA Connectivity

VEHICLE TECHNOLOGY DIRECTORATE



VTD Mission Strategy

- ***Structural mechanics***
- ***Vehicle loads and dynamics***
- Power generation sciences
- Power transmission technology

DCN:11677

Army Structures

NEEDS:

- Durability and Damage Tolerance
  - High cycle fatigue
  - Aging fleets
  - Weight growth
- Composites Strength and Stiffness
  - Dynamics and natural frequencies
  - Temperature and shear creep
- Composites Damage Tolerance
  - FOD and CAI
  - Crashworthiness
  - Inspectability
- Rotorcraft Dynamics
  - Stability assessments
  - Vibration control

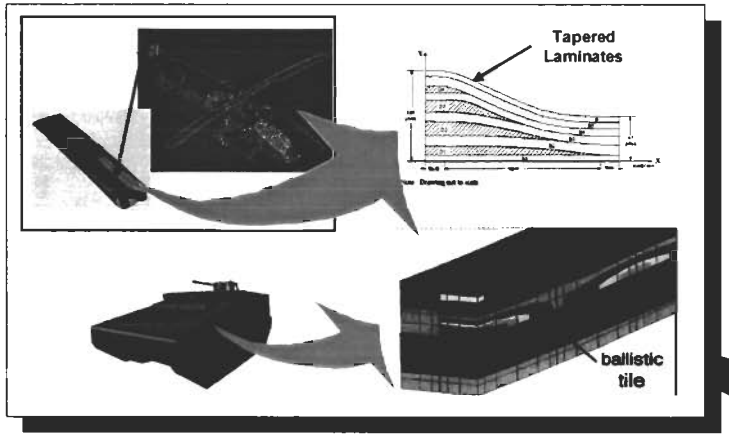
S&T Focus Areas

Structural Mechanics
Loads & Dynamics

Structural Mechanics Focus

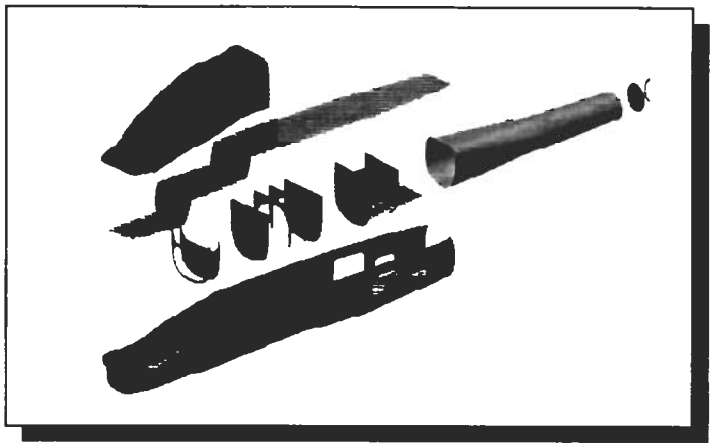
Damage Tolerant and Durable Structures

Fatigue and Stress Models



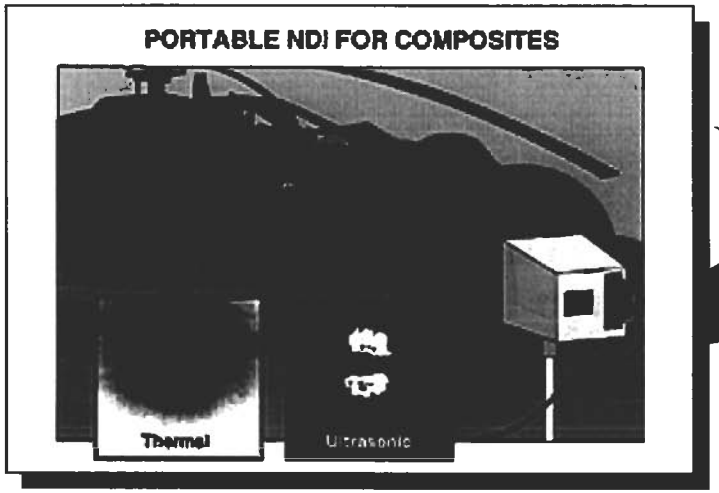
Innovative Structural Concepts/Analyses

Light Weight and Affordable Structures



Reliable Inspection Methods

Noncontacting and Portable



Develop and validate design tools and methodologies to provide an integrated stress-strength-inspection technology that will extend the life of existing platforms as well as enhance the durability and reliability of Ground and Rotorcraft future vehicles.

DCN 11677

Loads & Dynamics Focus
Aeromechanics

VEHICLE TECHNOLOGY DIRECTORATE

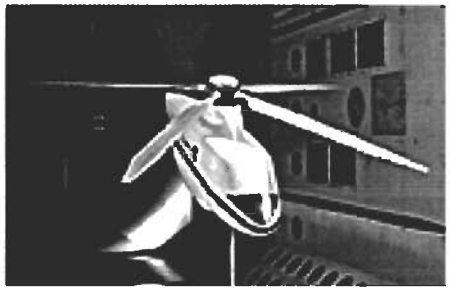
Tiltrotor Dynamics
UMARC enhancements / validation
Stability / Dynamic Loads

Wing & Rotor Aeroelastic Test System (WRATS)
Langley Transonic Dynamics Tunnel

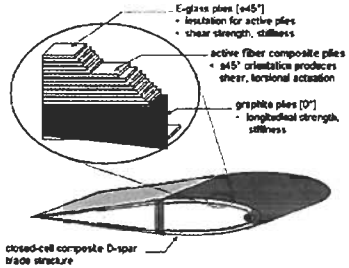
Active Swashplate Control

Soft In-plane Rotor Hub

Rotorcraft Dynamics
CAMRAD-II enhancements / validation
Dynamic Loads



Aeroelastic Rotor Experimental System (ARES)
Langley Transonic Dynamics Tunnel



Active Twist Rotor Using Piezoelectric Fiber Composites for Vibration Red.

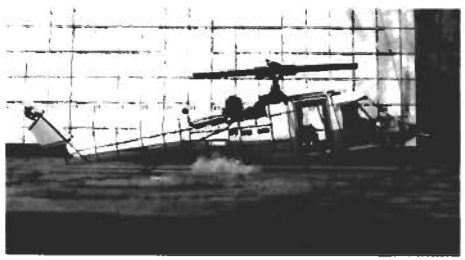
Provide improved validation tools and dynamic analyses for vibration-free rotorcraft designs, and enhanced aeroelastic stability characteristics for advanced high speed rotorcraft

Loads & Dynamics Focus
Structural Dynamics

VEHICLE TECHNOLOGY DIRECTORATE

Crash Dynamics
Test & Validation

Impact Dynamics Facility



Airframe Dynamics
Crash Dynamics
Modal Analyses

DYTRAN / LSDYNA, NASTRAN etc.

Ground Vehicle
Stryker

Provide validated technology improvements in structural dynamics analyses for applications in *air and ground vehicles* to reduce vibrations, enhance structural component control, and improve crashworthiness

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VTD Mission Strategy

- Structural mechanics
- Vehicle loads and dynamics
- ***Power generation sciences***
- ***Power transmission technology***

Army Propulsion

NEEDS:

- Improved Fuel Efficiency
- (Reduced Logistics Burden/Extended Range)
  - Lower Fuel Consumption Turbomachinery
    - Higher work turbomachinery with off design efficiency and stability with minimal stall margin
    - Higher temperature/high strength/long life materials
  - Alternative Engine Concepts
- Reduced Life Cycle Cost
  - Reduced Development Time/Cost
    - High fidelity engine simulations
    - "Hours" turnaround time
  - Life Prediction Methodologies
    - High temperature materials
    - Mechanical components

S&T Focus Areas

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Power Generation Sciences Focus
Engine Components

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Increased Component Efficiency

High Performance Turbine Compressor Systems

Attributes
- Improve the efficiency and reduce the weight, and cost
- 2-stage design effectively does the work of 5 stages of T700 vintage

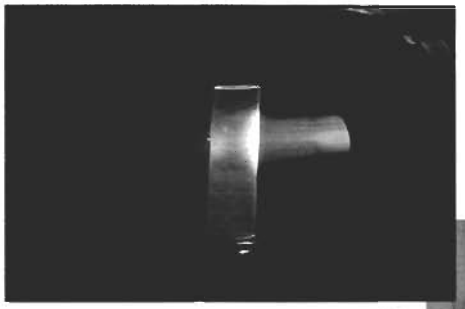
Status
- Applied emerging multistage CFD code to the design of a highly loaded 2-stage compressor
- CFD code being refined

High Temperature Magnetic Bearing Rig

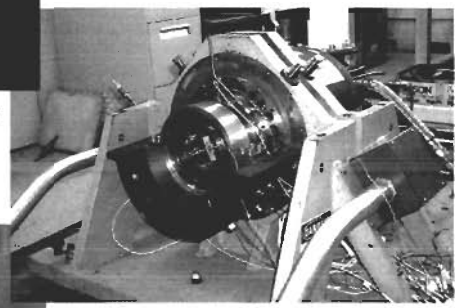
Attributes
- Reduces need for lubricant within Engine (reduced weight)
- 600-700F Improvement over mechanical bearings

Status
- 1000°F Magnetic Bearing & Test Rig Built
- Initial Testing underway to 6000 RPM & 800°F

Component Technology



High Temperature Engine Materials



Magnetic Bearings

Oil-Free Foil Bearing technology

Provide component level technology and validated advanced concepts to enable doubling of propulsion capability. Focus on highly loaded compact staging, High shaft speeds and high temperature

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Power Transmission Technology Focus
Drive Systems

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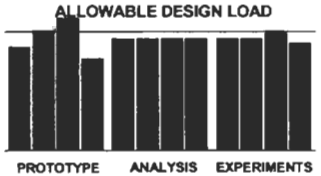
Improved Gear Efficiency

Split Torque Transmission With Application Of Indexing Theory

NET BEARING FORCE TENDS TO OVERLOAD PINION NUMBER 3

POWER CARRIED BY THE 4 SPLIT POWER PATHS



(REDESIGN WITH INDEXING)

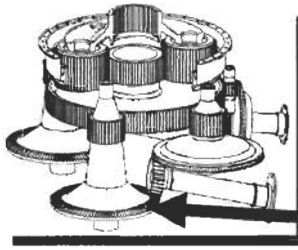
Better Power Distribution

Future Split Torque Transmissions

- Single Power Input
- Multiple Outputs with shared loading

Conventional baseline configuration (Apache-type)

Split-torque, face-gear configuration 40% wt reduction



Face Gear
- Indexed for more efficient interface
- Manufactured with special materials and coatings

Low To No Lube Gears

Thermal Behavior of High Speed Helical Gears

Approach:

- Cooperative project with Bell Helicopter
- Facility under construction at NASA Lewis
- ARL / NASA to conduct tests / analyze results

Deliverables:

- Develop an empirical data base of effects of gear design, shrouds, heat sinks, and lubricant delivery on thermal performance
- Analytical simulation of minimized or loss-of lubricant operation
- Minimize aircraft emergency lube system weight

High-Speed Helical Gear Test Facility

Improved Fatigue Life

Superfinishing for Gearing

Objective

- Compare surface fatigue lives of ground vs. super finished steel spur gears and develop engineering tools for implementation

Approach

- Complete a thorough evaluation of gear metrology involving definitive fatigue tests, statistical analysis, and analytically characterization

Develop and demonstrate advanced drive system technologies that improve rotorcraft performance and cost of ownership

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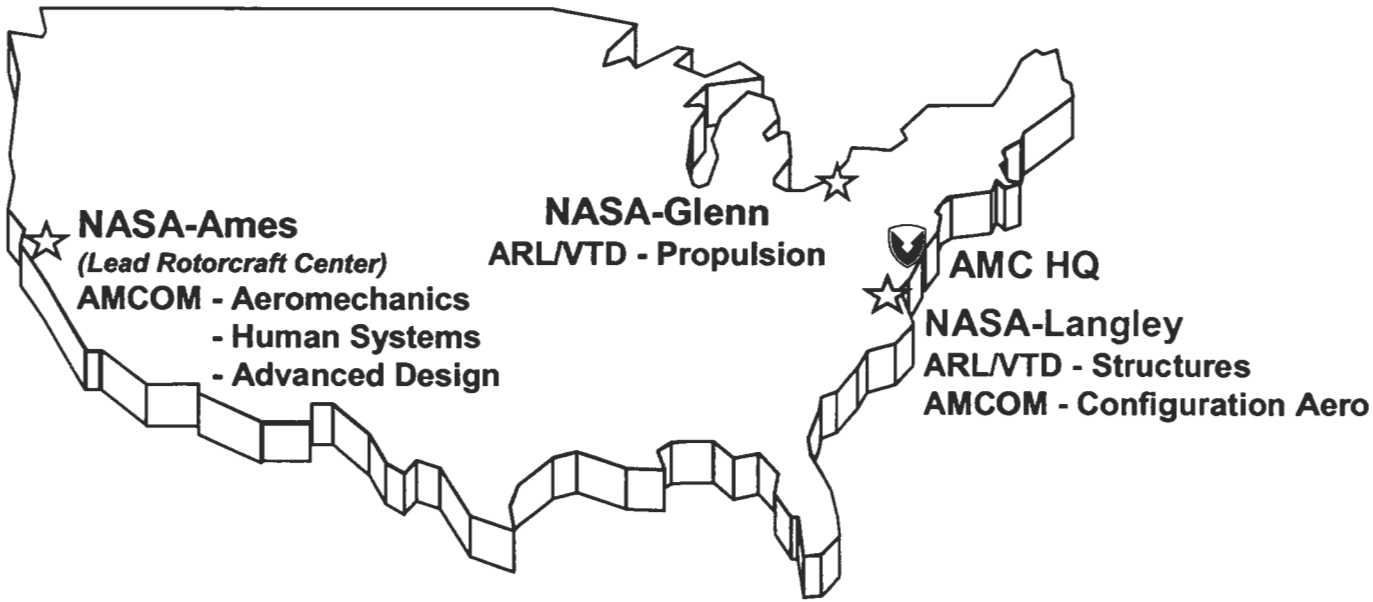
The NASA / Army Joint Agreement

- *Established at Ames Research Center in 1965*
- *Extended to Glenn (formerly Lewis) and Langley Research Centers in 1970*



Unique Joint Agreement signed by Commander AMC and NASA Headquarters

NASA provides research facilities and services, office space, & equipment

Priority access to NASA expertise and facilities

S&E Work Force highly integrated, benefits dual-use (military and civil) programs

Army support personnel embedded in the NASA structure in lieu of base ops payments

DoD / NASA model for interagency reliance

Leveraging Army and NASA Resources and Expertise

NASA Langley Research Center

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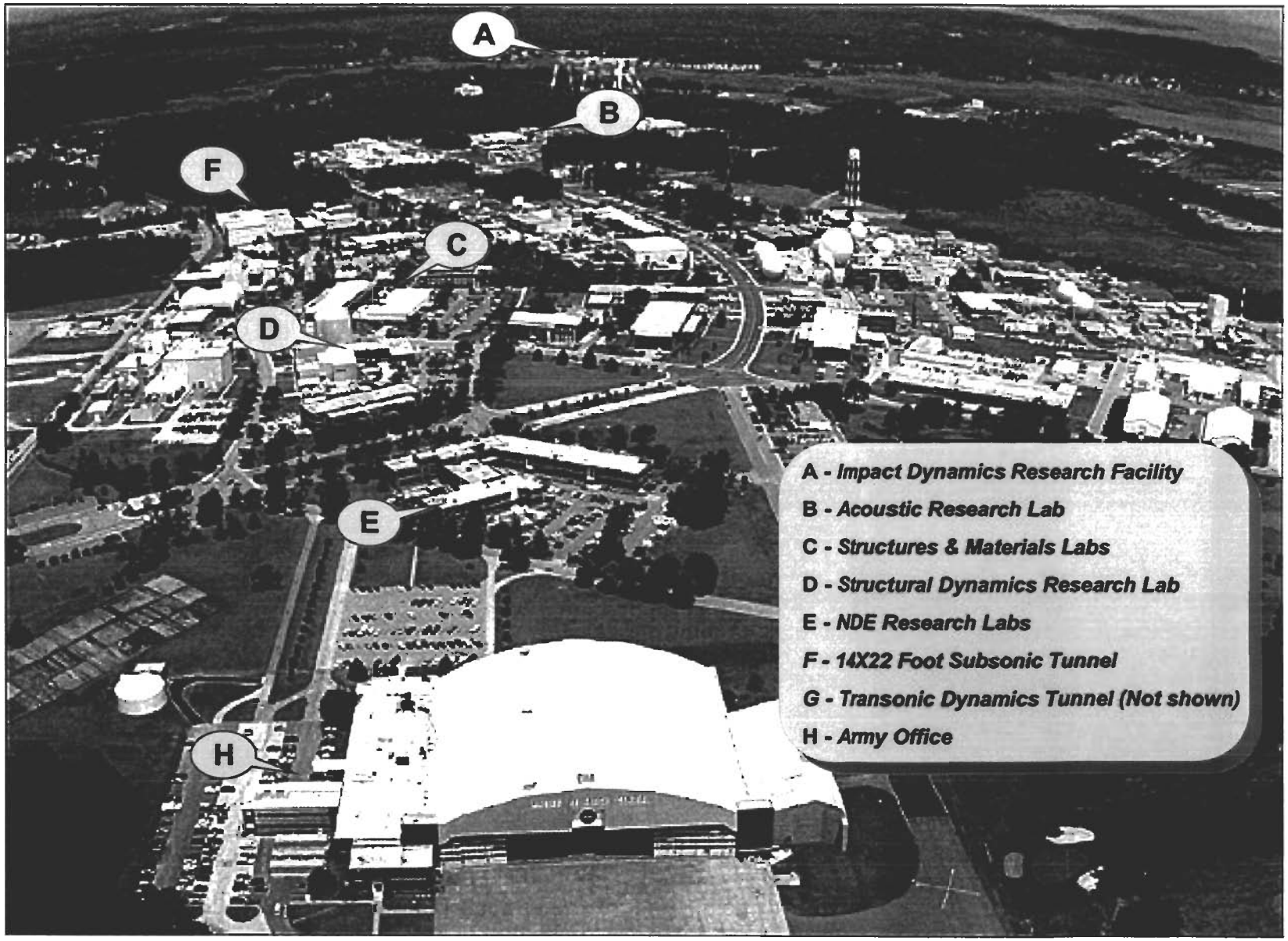

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NASA Glenn Research Center

DCN 11677

US Army/NASA Co-Location
at NASA Langley

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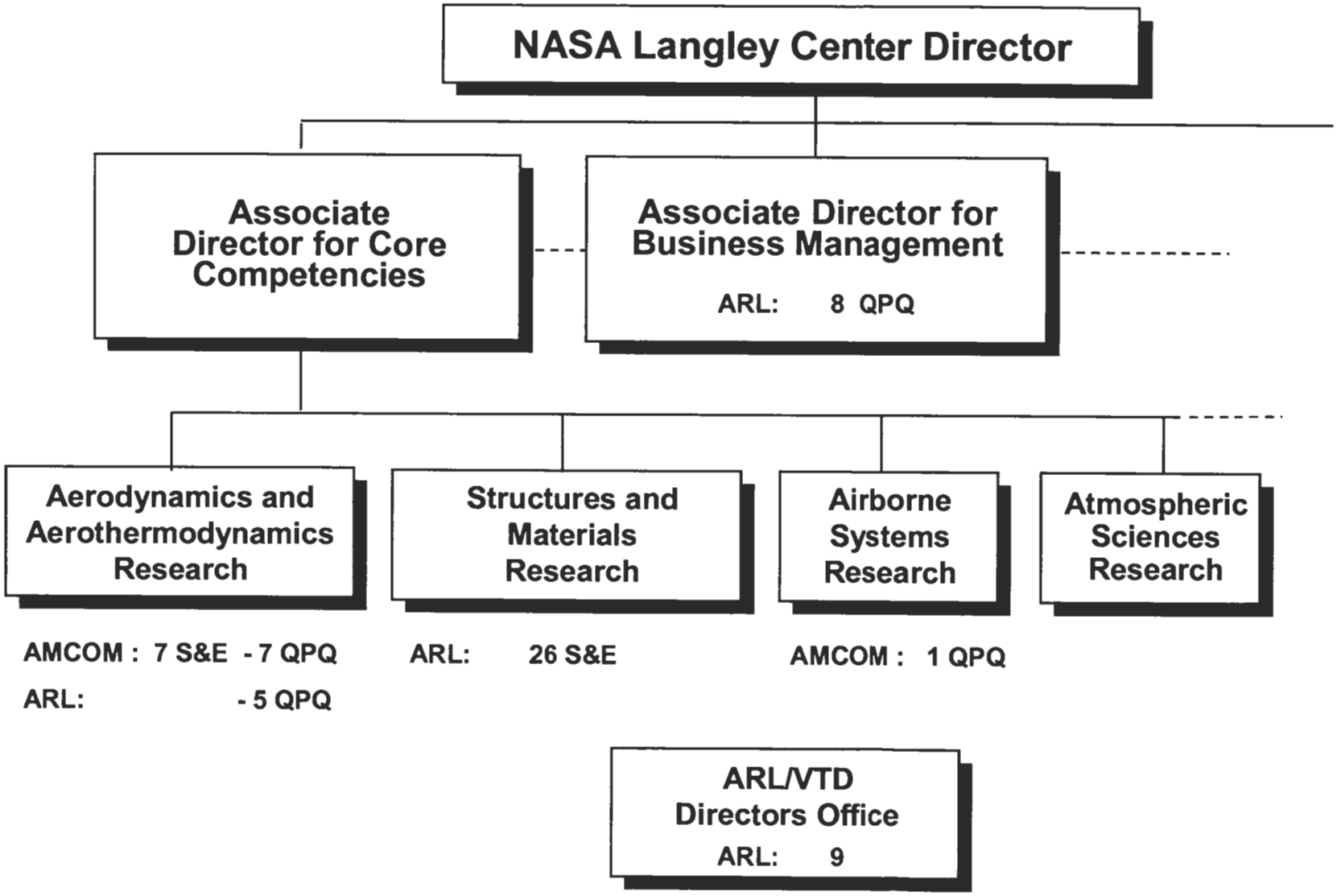

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US Army/NASA Co-Location
at NASA Glenn

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NASA Glenn Center Director

Aeronautics Directorate
ARL: 3 S&E 1QPQ

- Propulsion Program Mgt Office
- Propulsion System Analysis Office
- Computing and Interdisciplinary Systems Office

Research and Technology Directorate
ARL: 23 S&E/2 Techs 1QPQ

- Tubomachinery and Propulsion
- Materials
- Structures
- Instruments and Controls

Engineering and Technical Services Directorate
ARL: 2 S&E 8QPQ

- Computer Services
- Technicians
- Facility and test Engineering

VTD Deputy Directors Office
ARL: 7

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Army/NASA Co-Management
at NASA Langley

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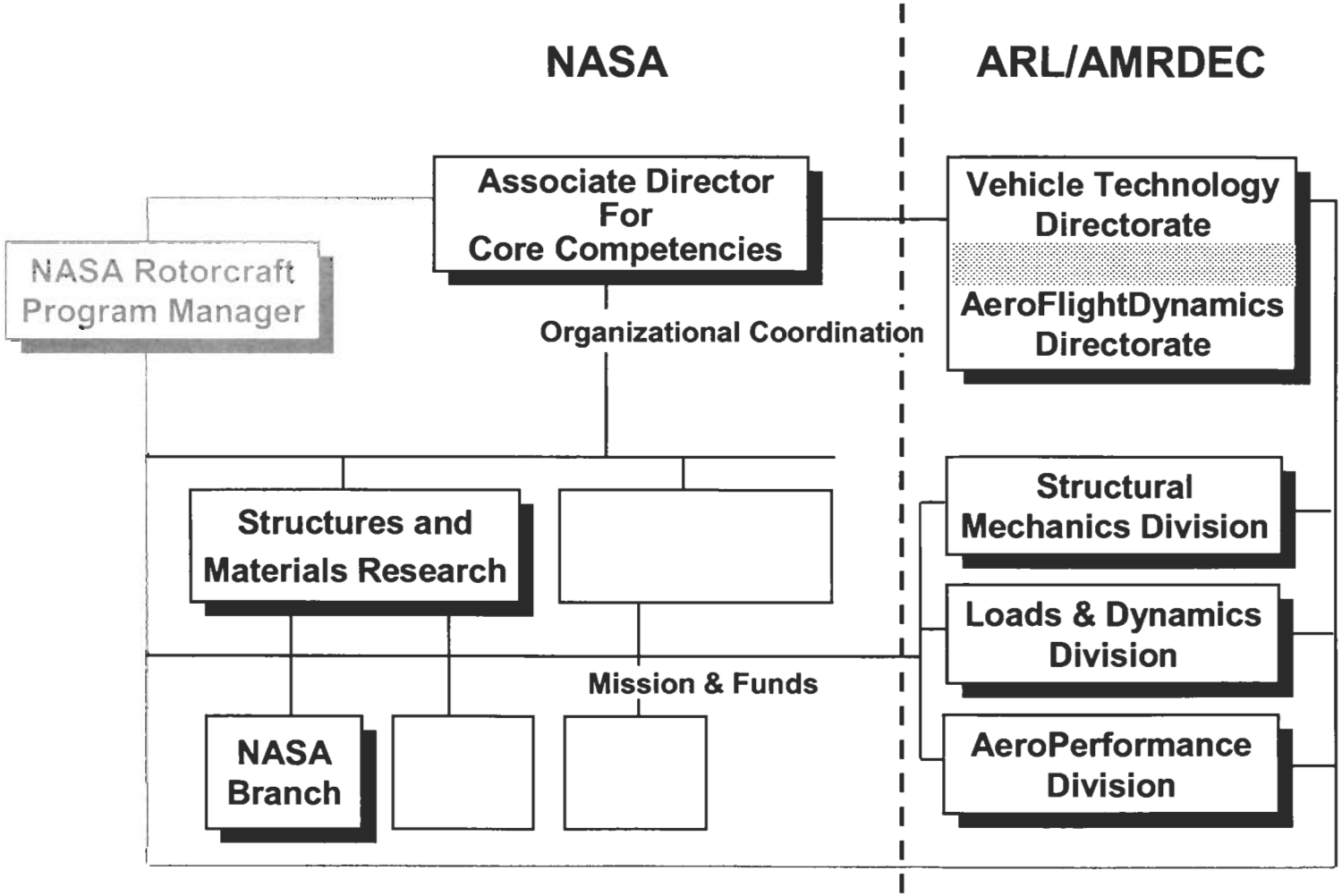

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Army/NASA Co-Management
at NASA Glenn

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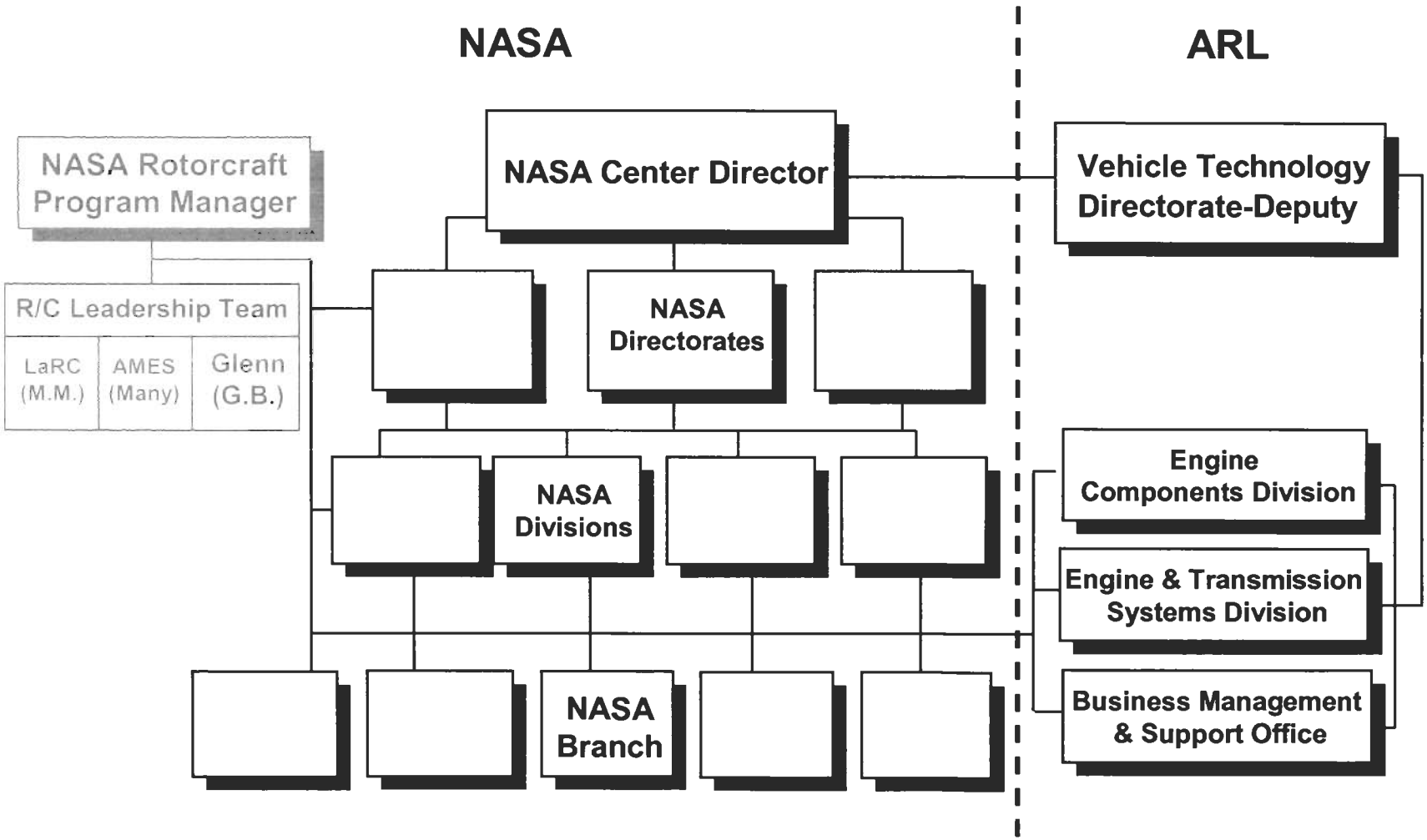

Summary

- Over 30 years of Army/NASA collaborative research.
- Focused aeromechanics, structures, and propulsion emphasizing sophisticated "modeling and simulation."
- The co-location works because of our common interests.
- ARL is committed to optimizing the S&T investment in Structures and Propulsion technologies.
- ARL is investing in new initiatives, such as Oil-Free Technologies, that will build upon the aviation resource base and attract future support for Army/NASA co-investments.
- Restoration of the ASAALT reduction in our 6.1 program.