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DEPARTMENT OF THE ARMY
OFFICE OF THE DEPUTY CHIEF OF STAFF FOR PERSONNEL
WASHINGTON, DC 20310-0300

REPLY TO
ATTENTION OF

DAPE-MBB-P

08 AUG 1994

MEMORANDUM FOR Major Charles Fletcher, The Army Basing Study

SUBJECT: Standard Factors for the Cost of Base Realignment Actions (COBRA) Model (BRAC 95 Data call #9)

1. We have examined the standard factors for which we have proponency. These factors have been completely documented and certified.

2. ODCSPER POC for this action is the undersigned at x56775, Rm 2D683.

FOR THE DEPUTY CHIEF OF STAFF FOR PERSONNEL:

Carrie M. Johnson-Clark
CARRIE M. JOHNSON-CLARK
CPT, GS
DCSPER Engineer

Encls

ENCL #2

Extra Cost of Early Retirement

These figures for the cost of early retirement are based on the population of all employees who retired under voluntary early outs between 1975 and 1989. This population was projected over their expected future lifetime assuming both normal and early retirement under CSRS.

The average age at time of early retirement was 53.2. Voluntary retirement was projected to occur, on the average, at age 58.8 although first eligibility for normal retirement was attained at age 57.0.

The present value of early retirement benefits was divided by the payroll at the time of early retirement to get an average cost of early retirement of $9.262 per dollar of final salary.

The present value of the normal retirement benefits, determined as of the date of early retirement, resulted in a cost factor of $9.517 per dollar of final salary.

Thus the present value of early retirement benefits were less than the present value of normal retirement benefits by a factor of .255 (.255 = 9.517 - 9.262), or about 25 percent of final salary.

In determining the cost of early retirement, the present value of benefits under normal retirement should also be reduced by the present value of the 7 percent employee contributions payable from early to normal retirement. This present value was .343, and so the extra cost of early retirement is .088 (.088 = 9.262 - (9.517-.343)), or about 9 percent of final salary.

These cost estimates assume no replacement of the employees who retire early.

The Extra Cost of Early Retirement

The extra cost of early retirement is equal to the difference in the present value of benefits for early vs. normal retirement plus the value of the missing employee contributions.

The difference in the present value of benefits primarily depends on whether or not the increase in the amount of the annuity due to the extra service credit is offset by the reduction in the number of years the annuity is payable. Although the amount of the annuity under normal retirement is also increased by the general schedule increases during the period from early to normal retirement, the annuity under early retirement is increased by COLAs, so there is no net effect, since both increases are assumed to be 5 percent. The annuity under normal retirement is also increased by merit and longevity pay increases but these are relatively small at the applicable ages. In addition, the present value of benefits for early retirement is reduced because of the 2 percent reduction for each year under age 55.

The relative impact of receiving an annuity for a shorter period of time is greater for older ages at commencement, because the remaining lifespan is less, i.e., a reduction of 1 year in annuity payments has a greater relative impact for a 15-year expected payout than for a 20 year expected payout. Similarly 1 year of additional service is worth more, proportionately, if the total service is less. Thus, ignoring the age reduction, the cost of retiring 1 year early would be greater for older ages at retirement with higher amounts of service, and less for younger ages at retirement with lesser amounts of total service.

To illustrate this, the following table shows the present value of benefits as of the beginning of 1992 for a group of employees who are all age 50 with 20 years service in 1992. In the first case, they are assumed to retire immediately.* This is compared to cases where they all retire in 1 year at age 51 with 21 years service, and in 2 years, at age 52 with 22 years service, etc. The present values were determined as of age 50, using the valuation program and so they take into account such things as withdrawal rates, survivor benefits, disability benefits, merit and longevity pay increases, etc.

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*Retirement is actually assumed to occur in the middle of the year, so even in the case of immediate retirement, employees continue to work for one-half year.

Retirement At		Present Value of Benefits Expressed as a Multiple of Final Salary	
Age	Service	Assuming No Age Reduction	With the Age Reduction
50	20	7.751	7.062
51	21	7.923	7.380
52	22	8.066	7.673
53	23	8.182	7.945
54	24	8.275	8.196
55	25	8.365	8.365
56	26	8.394	8.394
57	27	8.388	8.388
58	28	8.357	8.357
59	29	8.310	8.310
60	30	8.282	8.282
61	31	8.239	8.239
62	32	8.179	8.179

This table shows that, even assuming no age reduction, the present values of benefits are actually less for earlier retirement, up to age 56, and then become greater for older ages.

The actual cost of early retirement, taking the present value of the missing employee contributions into account, is shown in the following table:

Retirement At		Present Value of Retirement Benefits Reduced by the Value of the Missing Employee Contributions, Expressed as a Multiple of Final Salary	
Age	Service	Assuming No Age Reduction	With the Age Reduction
50	20	7.717	7.028
51	21	7.820	7.277
52	22	7.896	7.503
53	23	7.946	7.709
54	24	7.975	7.896
55	25	8.002	8.002
56	26	7.969	7.969
57	27	7.903	7.903
58	28	7.814	7.814
59	29	7.711	7.711
60	30	7.629	7.629
61	31	7.533	7.533
62	32	7.420	7.420

This table shows that, even taking the missing employee contributions into account, it still costs less to retire a 50 year old employee with 20 years service early, up to age 55. There is even a small reduction in the present value of benefits in the case where no age reduction is assumed.

The following example shows a simplified calculation of the present value of retirement benefits for an employee who retirees at age 50 with 20 years service vs. age 51 with 21 years service using the present value factors for the alternative form of annuities. This calculation uses the present value factors that are used in the alternative annuity calculation. Although this methodology ignores survivor benefits and is not as precise as that done by the valuation program, it does show that the cost of early retirement is less at age 50.

Retirement at Age 50 with 20 Years Service

$40,000	High Three
x .3625	Factor for 20 Years Service
x .9	Age Reduction for Age 50
/12	Conversion to Monthly Annuity
x 257.6	Present Value of Annuity Factor
= $280,140	Present Value of Annuity for Age 50

Retirement at Age 51 with 21 Years Service

$40,000 x 1.059	High Three Increased by 5 Percent General Schedule Increase Plus .9 Percent Individual Merit and Longevity Increase
x .3825	Factor for 21 Years Service
x .92	Age Reduction for Age 51
/12	Conversion to Monthly Annuity
x 251.2	Present Value Factor for Age 51
/1.07	Discount for 1 Year's Interest
= $291,628	Present Value of Annuity Starting in 1 Year at Age 51

The present value of the 7 percent employee contributions payable from age 50 to age 51 would be about $3,036.

Present value of benefits minus present value of employee contributions.

= $291,628 - $3,036 = $288,592

AVERAGE MILITARY TOUR LENGTH

1. DESCRIPTION: The average length of military assignments. This is used to adjust the moving population to account for those personnel who would move each year, independent of the closure/realignment action. (Allowed entries 1 to 20 years)

2. VALIDATED VALUE: As of May 1994, the aggregate Time On Station (TOS) is approximately 2.9 years. Current OCONUS tour length is approximately 2.5 years and the CONUS TOS is 3.1 years.

3. DATA SOURCE: The calculations used data from the following databases (DB) within PERSCOM; The Personnel DB (PERDB), the Requisition DB (REQDB), and the 905-ORG-COR (a data table extract for the PMAD).

a. DATE LAST UPDATED: May 1994

b. DATE OF NEXT UPDATE: October 1994

4. METHODOLOGY: The overall TOS was calculated by weighing the OCONUS tour length and the CONUS TOS by their respective number of authorizations (auths) and dividing by the total number of auths in the Army. The average OCONUS tour length algorithm accounts for the distribution of auths in various OCONUS geographic locations, weights the auths by the tour length for the geographic location and then derives the overall OCONUS tour length by adding the weighted auths together and dividing by the total number of auths. The OCONUS TOS is a snapshot of TOS for a group of soldiers on orders in May 94. The algorithm considered soldiers on orders, excluded first termers, MSG(P), SGM and soldiers with blank date last PCS on the database. The algorithm simply took the difference from the date last PCS and the scheduled date of arrival at the next duty station for each soldier and calculated an average TOS for the group. Efforts are under way to establish a more robust algorithm for calculating the TOS. In the future, an in-house program will be used to derive the most current TOS for the Army population as a whole.

5. VALIDATION PROCEDURE: Validation doesn't apply. The element is a mathematical calculation, based on data from established databases, resulting in a deterministic solution. No probabilities, simulations or predictive modelling were incorporated.

STATEMENT OF CERTIFICATION: The information supplied is accurate and complete to the best of my knowledge and belief.

MICHAEL J. SHANE
Colonel, GS
Chief, Enlisted Division

DEPARTMENT OF THE ARMY
UNITED STATES ARMY INFORMATION SYSTEMS COMMAND
BASE REALIGNMENT AND CLOSURE OFFICE
312 ARGONNE AVENUE
FORT RITCHIE, MARYLAND 21719-3100

REPLY TO
ATTENTION OF

27 JUL 1994

ASSD-SS-R (5-10c)

MEMORANDUM THRU Commander, HQ, USAISC, ATTN: ASSD-SS, Fort Huachuca, Arizona 85613-5000

FOR Headquarters, Department of the Army, ATTN: SAIS-PPG, Washington, DC 20310-0107

SUBJECT: Standard Factors for the Cost of Base Realignment Actions (COBRA) Model (BRAC 95 Data Call #9)

1. References.

a. Memorandum, DACS-TABS, 7 Jul 94, Subject as above.

b. Memorandum, HQDA, SAIS-PPG, undated, Subject as above.

2. In response to references, we have analyzed planning data and actual data, where available, from the BRAC Construction Army program for the BRAC 1, 91 and 93 programs. Based on this analysis, we have concluded that the Information Mission Area (IMA) standard factor (#63) of 15% is a fair average, if no other considerations can be evaluated.

3. However, an average standard factor of 13% is more accurate for new construction, and an average of 17% is more accurate for renovation. Typically, the absolute cost of IMA will be the same for new construction or renovation because the IMA cabling and systems upgrades are newly installed to bring the facility to IMA standards. However, because the cost of renovation work is less per square foot than new construction, the ratio of IMA to renovation is a higher percentage of the total project cost. It follows then that, since the cost of new construction is higher, the ratio of IMA to new construction is a lower percentage of the total project cost.

4. The type of facility and the condition and capacity of the existing information systems infrastructure will also impact on the actual IMA percentage. If this criteria is known, the IMA factor should be adjusted, as recommended in the enclosed certification. These percentages are averages, based on our experience with the BRAC construction program, to date. We can

provide the detailed documentation which was used to derive these percentages, if required. Our certification statement is enclosed.

5. We are anticipating your need for our support associated with a particular COBRA scenario. Therefore, we are prepared to do detailed IMA cost estimates to support your analysis, if funding can be provided to support this requirement.

6. USAISC - Voice of America's Army.

Catherine A. Michalga

CATHERINE A. MICHALGA
Chief
USAISC BRAC Office-
Fort Ritchie

Encl

CF:
HQDA, ATTN: DAIM-BO
HQDA, ATTN: DAEN-ZCI-A

INFORMATION MANAGEMENT ACCOUNT PERCENTAGE

1. DESCRIPTION: The average percent of project cost required to provide communications; only used for projects measured in square feet.

2. VALIDATED VALUE: 15% on the average; 13% for new construction and 17% for renovation work

3. DATA SOURCE: BRAC 1, 91, and 93 planning estimates and actual costs, where available.

a. DATE LAST UPDATED: 30 Jul 94

b. DATE OF NEXT UPDATE: As Required

4. METHODOLOGY: For analysis purposes, the average cost of information systems associated with military construction or renovation projects is estimated to be an additional 15% of the total project cost. A more precise percentage depends upon the type of facility to be constructed, whether the project is new work or renovation work, and the communications infrastructure that is in place to support the finished facility. However, 15% is reasonable when viewed across the entire spectrum.

The cost of information systems associated with a project to construct an Information Systems Facility (ISF) could be as high as 50% of the total project cost. In such an example, the information systems costs would be severely underestimated using 15%. A barracks or warehouse would be significantly over estimated using 15%. To refine the analysis, the IMA factor should be applied in accordance with the type of facility being considered and whether it is new construction or renovation, as suggested below.

Also, when considering a renovation project, versus a new construction, the IMA percentage factor should be increased by 30%. [The ratio of IMA cost to the lower renovation cost per SF of space is a higher percentage than for new construction.]

a. Instructional Facilities: 10% new
13% renovation

b. Administrative Facilities: 20% new
26% renovation

Note: This assumes state-of-the-art technology, high volume of personal computers, local area networks, provision for fiber optic distribution systems, and expansion or placement of Local Switching Nodes.

c. Troop Facilities (barracks/dining): 6% new
8% renovation

d. Industrial Facilities:

Laboratory: 12% new
16% renovation

Note: This assumes a high tech facility with computer based research/analysis type equipment requiring high speed data transfer.

Non-Lab (Warehouse/storage facilities, vehicle maintenance, etc.): 2%

5. VALIDATION PROCEDURE: Actual experience with BRAC projects and analysis of historical data.

STATEMENT OF CERTIFICATION:

I am the proponent for the data element specified in the information above and certify that the information supplied is accurate and complete to the best of my knowledge and belief.

Catherine A. Michaliga
CATHERINE A. MICHALIGA
Chief
USAISC BRAC Office-
Fort Ritchie

DEPARTMENT OF THE ARMY
ASSISTANT CHIEF OF STAFF FOR INSTALLATION MANAGEMENT
600 ARMY PENTAGON
WASHINGTON DC 20310-0600

REPLY TO
ATTENTION OF

3 August 1994

DAIM-FDP-A

MEMORANDUM FOR DIRECTOR, THE ARMY BASING STUDY

SUBJECT: Standard Factors for the Cost of Base Realignment Actions (COBRA) Model (BRAC 95 Data Call #9)

1. Reference: DACS-TABS Memorandum dated 7 July 1994, SAB.

2. The COBRA Standard Factor Certificates for the factors for which this division has proponency are forwarded IAW reference.

3. The following factors require additional staffing outside this organization and will be forwarded as soon as possible:

Enlisted Housing MILCON
Civilian Homeowning Rate
Caretaker Admin Space
Caretaker RPMA Costs
Mothball Costs

4. POCs are Ms. Maureen Wylie at X44313 or Mr. Chip Larouche @ 43988.

FOR THE ASSISTANT CHIEF OF STAFF FOR INSTALLATION MANAGEMENT

Attachment

DAVID A. YENTZER
Chief,
Installation Planning Division

Cobra Standard Factor 33 Mothball Cost

1. Description.

The average cost to mothball facilities.(Allowed entries 0.00 to 100.00 $/SF)

2. Validated Value. $1.00/SF

3. Data Sources.

a. USACERL Tech Report M-91/23, Layaway Procedures for U.S. Army Facilities, Volume 1: Decision Criteria and Economics, dated July 1991.

b. Memorandum for Record, dated 1 October 1992, Subject: TABS 93 -- Data for COBRA, PSF Input.

c. DAIM-FDP-A study dated 13 October 1993, that estimates the mothballing costs for a notional heavy brigade.

a. Date last updated: As Stated

b. Date of next update: N/A

4. Methodology.

Reference 3a. is a study performed by the Construction Engineering Research Laboratory which described the facility layaway procedures for U.S. Army facilities, with an emphasis on Fort Dix, New Jersey. This reference uses a mothball cost of $.58/SF factor, but 70% of the 3.6MSF in the study is WWII Wood.

Reference 3b. documents the factors used by the Presidio of San Francisco to layaway permanent buildings, maintaining outer envelope heat and fire protection (water, alarms) to protect the interior. The factor used for this level of mothballing was $2.62.

Reference 3c. documents a DAIM-FDP-A study to determine mothball costs for a notional heavy brigade. This study cites references 3a: and 3b. and also documents the Fort Hood 2d AD mothball experience with a factor of $.20/SF and the Fort Sheridan AFH deactivating costs factor of $.35/SF. This study selected $1.00/SF as a professionally sound estimate.

5. Validation Procedures.

BRAC 93 mothballing costs were left at $0.00. Professional judgement and the references suggest that the correct number is somewhere between the low of $.20 and the high of $2.62. The low numbers were based on either very short term mothballing or the

mothballing of temporary wood structures. The high of $2.62 were based on maintaining heat and water in buildings which may not be necessary for the mothballing that will be required in BRAC 95. A cost of $1.00 /SF seems to be a logical breakpoint between the high and low estimates contained in the references.

STATEMENT OF CERTIFICATION:

I am the proponent for the data element specified in the information above and certify that the information supplied is accurate and complete to the best of my knowledge and belief.

DAVID A. YENTZER
Chief,
Installation Planning Division

Cobra Standard Factor 31 Caretaker Admin Space

1. Description.

The average administrative space required for each caretaker. (Allowed entries 0 to 1MSF)

2. Validated Value. 162 SF

3. Data Source. July 1994 HQRPLANS space planning criteria. R&K Engineering uses the most recent Corps of Engineers publications, based upon DOD guidance, for unit space planning criteria. Caretaker admin space requirement is the same factor used for HQRPLANS space planning for typical US Army space requirements.

a. Date last updated: July 1994

b. Date of next update: September 1994

4. Methodology.

Caretaker Admin requirement is equal to Army Standard used in HQRPLANS.

5. Validation Procedures.

BRAC 93 caretaker admin space need was also 162 SF. Army Standard has not changed since BRAC 93.

STATEMENT OF CERTIFICATION:

I am the proponent for the data element specified in the information above and certify that the information supplied is accurate and complete to the best of my knowledge and belief.

DAVID A. YENTZER
Chief,
Installation Planning Division

Cobra Standard Factor 32 Caretaker RPMA Costs

1. Description.

The average percent of original RPMA costs which apply to facilities under caretaker status. (Allowed entries 0.0 to 100.0 percent)

2. Validated Value. 33.3%

3. Data Sources.

a. USACERL Tech Report M-91/23, Layaway Procedures for U.S. Army Facilities, Volume 1: Decision Criteria and Economics, dated July 1991.

b. Memorandum for Record, dated 1 October 1992, Subject: TABS 93 -- Data for COBRA, PSF Input.

c. DAIM-FDP-A study dated 13 October 1993, that estimates the mothballing costs for a notional heavy brigade.

a. Date last updated: As Stated

b. Date of next update: N/A

4. Methodology.

Reference 3a. documents the factors used by the Presidio of San Francisco to layaway permanent buildings, maintaining outer envelope heat and fire protection (water, alarms) to protect the interior. The factor used for caretaker RPMA is 1/3 of full RPMA.

Reference 3b. documents a DAIM-FDP-A study to determine mothball costs for a notional heavy brigade. This study cites references 3a. and also used 1/3 full RPMA for Fort Riley to determine the notional brigade costs.

5. Validation Procedures.

BRAC 93 caretaker RPMA costs were 23.6%. Red Book Analysis for Fort Dix and Fort Sheridan supports the argument that RPMA costs approach 1/3 of full RPMA as the majority of the facility assumes caretaker status.

STATEMENT OF CERTIFICATION:

I am the proponent for the data element specified in the information above and certify that the information supplied is accurate and complete to the best of my knowledge and belief.

DAVID A. YENTZER
Chief,
Installation Planning Division

Cobra Standard Factor 64 Planning and Design

1. Description.

The average percentage of construction project cost that must be allowed to accomplish planning and design.

2. Validated Value. 10 percent

3. Data Sources.

1) MCA Planning and Design briefing to ACE 30 Jan 92 CEMP-MA Mr. Phil Hunt, (202) 272-1995

2) LMI MCA Planning and Design Funding Requirements, Nov 90

a. Date last updated: FY 94/97 P&D programmed on the basis of the formula in source 1 and was accepted by OSD.

b. Date of next update: unknown

4. Methodology.

Army MCA uses an assumption that P&D is 9 percent of project cost. This assumption is based upon historical Army, Navy, and AF costs as analyzed by Logistics Management Institute. Based on professional judgement, an additional one percent is added to that figure to fund a compressed design schedule.

5. Validation Procedures.

Planning and Design factor has not changed from the AAA validated factor used in BRAC 91 & BRAC 93. BRAC design and construction schedules are often compressed due to the need to complete an action within a statutory time limit or to quickly generate savings. An additional one percent of planning and design gives the decision maker flexibility to choose to pay a premium for speed.

STATEMENT OF CERTIFICATION:

I am the proponent for the data element specified in the information above and certify that the information supplied is accurate and complete to the best of my knowledge and belief.

DAVID A. YENTZER
Chief,
Installation Planning Division

Cobra Standard Factor 65 SIOH.

1. Description.

The average percentage of construction cost which must be added to project cost to cover project Supervision, Inspection, and Overhead (SIOH). (Allowed entries 0.0 to 100.0 percent)

2. Validated Value. 6.0 percent

3. Data Sources.

All CONUS FY 94/97 projects have SIOH of 6.0 percent. This cost is standard in the 1391 processor. Only projects built OCONUS have a different value.

a. Date last updated: Projects are updated continuously. Cost is governed by AR 415-15, dated 1 December 1983.

b. Date of next update: N/A

4. Methodology.

All current FY 94/97 projects were reviewed for the SIOH percentage. All CONUS projects had a SIOH value of 6.0 percent.

5. Validation Procedures.

HQUSACE confirms that SIOH is a standard factor used in the DD1391 processor, with limited opportunity for change. This is the same percentage used for BRAC 91 & BRAC 93, validated by AAA at that time.

STATEMENT OF CERTIFICATION:

I am the proponent for the data element specified in the information above and certify that the information supplied is accurate and complete to the best of my knowledge and belief.

DAVID A. YENTZER
Chief,
Installation Planning Division

Cobra Standard Factor 66 Contingency

1. Description.

Percentage added to the estimated contract cost, to cover unforeseen construction problems which could increase the cost of a project.

2. Validated Value.

New Construction	5%
Renovation	10%
COBRA Value	7%

3. Data Sources.

All CONUS FY 94/97 projects have a contingency of either 5 or 10 percent. These are standard factors in the 1391 processor.

a. Date last updated: Projects are updated continuously. Cost is governed by AR 415-15, dated 1 December 1983.

b. Date of next update: N/A

4. Methodology.

Current FY94/97 projects were reviewed for the Contingency percentages. All CONUS projects had a contingency percentage of either 5 percent for new construction or 10 percent for renovation. Renovation is higher since once demolition occurs, the contractor may find more significant and costly problems than when building new. An average of the two factors, rounding down to allow for preponderance of new construction over renovation results in the validated value.

5. Validation Procedures.

HQUSACE confirms that contingency is a standard factor used in the DD1391 processor, with limited opportunity for change. This is the same percentage used for BRAC 91 & BRAC 93, validated by AAA at that time. An average is used since the standard factor must apply to both new construction and to renovations.

STATEMENT OF CERTIFICATION:

I am the proponent for the data element specified in the information above and certify that the information supplied is accurate and complete to the best of my knowledge and belief.

DAVID A. YENTZER
Chief,
Installation Planning Division

Cobra Standard Factor # 67 "Site Prep/Supporting Facilities"

1. Definition. The average percent of construction cost which must be added to to project cost to cover site preparation of the construction area and supporting facilities. Allowed entries 0.0 to 100.0 percent.

2. Validated Value: 24 percent

3. Data Source. HQRPLANS Construction Cost Factor Report.

   a. Date last updated: July 1994

   b. Date of next update: December 1994

4. Methodology.

The methodology to determine this factor is to take the average project cost factor found in HQRPLANS for all FCG with unit measure (UM) of SF, subtract 11% for SIOH and contingency, then add in 6% for MCA support to IMA. The result is a 24% Site Prep/Support Facilities factor.

The MCA unit cost factors for FCGs with a UM of SF include $10/SF to account for the costs of demolition generally required before a new building may be constructed. The $10/SF includes costs of physical demolition as well as an average level of asbestos/lead paint removal. FCG project cost factors include supervision, inspection and overhead (SIOH), Contingency and Support Facilities factors. Pre-construction planning and design is not included.

The FCG that follow were included in the above calculations:

HQRPLANS FCG CONSTRUCTION COST FACTORS Database
FY 1994 Ver 4.10

FCG	FCG DESCRIPTION	UM	MCA UNIT COST FACTOR	PROJECT COST FACTOR
14110	AF OPS BLDG	SF	135.67	1.33
14112	AV UNIT OPS BLD	SF	129.35	1.33
14182	BDE HQ BLDG	SF	112.53	1.33
14183	BN HQ BLDG	SF	112.53	1.33
14185	CO HQ BLDG	SF	112.53	1.33
+14310	MISC SHIP OPS	SF	97.80	1.33
+17112	FLIGT SIM BLGD	SF	121.99	1.28
17115	BAND TRAIN FAC	SF	107.27	1.28
17120	GEN INST BLDGS	SF	97.80	1.28
17121	INDOOR FIRE RG	SF	99.91	1.28
17130	APPL INST BLDG	SF	107.27	1.28
+17140	AR CENTER	SF	91.50	1.28
+17142	NG CENTER	SF	91.50	1.28

17160	TASC	SF	106.21	1.28
+17182	TRGT MOV SIM BD	SF	107.27	1.28
21110	MNT HANGAR AVUM	SF	106.21	1.28
21111	MNT HANGAR AVIM	SF	139.87	1.28
+21120	MISC ACFT MAINT	SF	139.87	1.28
+21210	GM MAINT BLDG	SF	152.49	1.28
+21407	NG MAINT FAC	SF	100.95	1.28
+21409	AR MAINT FAC	SF	100.95	1.28
21410	VEH MNT SH ORG	SF	108.32	1.28
21420	VEH MNT SH DS	SF	102.01	1.28
+21435	VEH REBUILD FAC	SF	106.21	1.28
+21510	GUN/WPN REPAIR	SF	102.01	1.28
+21610	AMMO MAINT FAC	SF	97.80	1.28
21800	SP PURP MNT SHP	SF	94.65	1.28
+21810	PAR/ABN EQP REP	SF	123.04	1.28
+21830	MISC MAINT BLDG	SF	94.65	1.28
21900	MNT INST O&R	SF	97.80	1.28
+22110	AC PROD BLDG	SF	94.65	1.28
+22210	GM PROD BLDG	SF	94.65	1.28
+22310	SHIP PROD BLDG	SF	94.65	1.28
+22410	TANK/AUTO PROD	SF	94.65	1.28
+22510	WEAPON PROD BLD	SF	94.65	1.28
+22610	EXPLOSIVE PROD	SF	94.65	1.28
+22710	COMMO PROD BLDG	SF	94.65	1.28
+22810	LTHR & TEX PLNT	SF	94.65	1.28
+22820	CONST EQP PLANT	SF	94.65	1.28
+22830	RR EQP PLANT	SF	94.65	1.28
+22840	PRINT PLANT	SF	94.65	1.28
+22890	MISC PROD BLDG	SF	94.65	1.28
+31010	RDT&E LABS	SF	165.11	1.33
+31110	AC RDT&E	SF	131.46	1.33
+31210	MSL SPACE RDT&E	SF	131.46	1.33
+31310	MAR RDT&E	SF	131.46	1.33
+31410	TANK/AUTO RDT&E	SF	131.46	1.33
+31510	WEAPON RDT&E	SF	131.46	1.33
+31610	EXPLOSIVE RDT&E	SF	131.46	1.33
+31710	ELEC RDT&E	SF	131.46	1.33
+31810	PROP RDT&E	SF	131.46	1.33
+31910	NON-METAL RDT&E	SF	131.46	1.33
+32010	UND-WAT EQU RDT	SF	131.46	1.33
+32110	TECH SERVICE	SF	131.46	1.33
+42100	AMMO STOR-DEP	SF	148.28	1.17
42200	AMMO STOR-INST	SF	148.28	1.17
43200	COLD STOR-INST	SF	103.06	1.17
+44100	GEN P WH-DEP	SF	67.31	1.28
44200	GEN P WH-INST	SF	57.84	1.28
44230	CONT HUM WH	SF	59.95	1.28
44240	INFL MATLS WH	SF	102.01	1.28
44260	VEH STOR SHED	SF	42.07	1.17
51010	HOSPITAL	SF	158.79	1.33
+53040	VET FACILITY	SF	133.56	1.28
54010	DENTAL CLINIC	SF	167.22	1.28
55010	HEALTH CLINIC	SF	145.13	1.28
61050	GEN PURP ADMIN	SF	99.91	1.33
72200	UPH DINE FAC	SF	170.37	1.33
+73010	FIRE STATION	SF	126.20	1.28
+73015	CONFINEMENT FAC	SF	92.54	1.33
73020	CHAPEL CTR FAC	SF	136.71	1.28
+73028	DRUG ABUSE CTR	SF	99.91	1.28
+73030	LNDRY/DRYCL FAC	SF	167.22	1.28
+73048	DEPN GR SCH	SF	89.39	1.33

+73049	DEPN HIGH SCH	SF	99.91	1.33
+73073	POST OFFICE	SF	99.91	1.28
74006	BANK	SF	115.68	1.28
74010	AUDTM GEN PURP	SF	117.79	1.28
74011	BOWLING CTR	SF	136.71	1.28
74014	CHILD SPT CTR	SF	113.58	1.33
74021	COMMISSARY	SF	102.01	1.33
74022	SKILL DEV CTR	SF	102.01	1.28
74024	SKILL CTR AUTO	SF	102.01	1.28
74025	ACES FACILITY	SF	115.68	1.28
74028	PHYS FIT CTR	SF	120.94	1.33
74032	TRANS HSG FAC	SF	96.75	1.33
74033	COMMUNITY CTR	SF	97.80	1.28
74041	LIBRARY CTR	SF	102.01	1.28
74046	OPEN DINING FAC	SF	147.23	1.33
74052	EXCH SVC STA	SF	184.04	1.28
74053	EXCH MAIN RETL	SF	90.44	1.33
74064	REST/CAFE	SF	147.23	1.33
74066	YOUTH CENTER	SF	108.32	1.28
74069	RECREATION BLDG	SF	100.95	1.28
+76010	MUSEUM	SF	148.28	1.22
	AVERAGE		113.79	1.29(-11+6=1.24)

+ = HQRPLANS/RPLANS Allowances = Total Installation Assets.

5. Validation Procedures.

The factors are modified to delete SIOH and Contingency, since these are separate factors in COBRA. A six percent MCA factor in support of Info Systems has been added, since HQRPLANS does not calculate that cost. The 6% factor was used by TABS in BRAC 91 & BRAC 93. This requirement differs from OPA in support of IMA, which is a separate factor provided by the DISC4.

Costs for demolition vary widely depending upon region, environmental regulations, whether troop, contract, or in house labor is used. $10 per SF was deemed by the SME to be the best factor for all costs associated with demolition for use in planning/decision support analysis such as HQRPLANS or COBRA. This planning factor is not intended for use in budget formulation or execution. Specific requirements must be analyzed on a by-installation basis.

STATEMENT OF CERTIFICATION:

I am the proponent for the data element specified in the information above and certify that the information supplied is accurate and complete to the best of my knowledge and belief.

DAVID A. YENTZER
Chief,
Installation Planning Division

Cobra Standard Factor 68 Rehab Cost

1. Description.

The average percent of new construction costs required to rehabilitate a space of equal size. This factor is used to adjust project costs for rehabilitation rather than new construction. (Allowed entries 0.0 to 100.0 percent)

2. Validated Value 59%

3. Data Sources. July 1994 BRAC Construction Database (DAIM-FDP-A)

a. Date last updated: July 1994

b. Date of next update: Monthly

4. Methodology.

BRAC 91 used a rehab factor of 60%. The AAA audit of BRAC 91 specified that 60% was too low and that 75% should be used. For BRAC 93, 75% was used based on the AAA comments during BRAC 91. However, during BRAC 93, the Army was cited by the AAA for using 75% without adequate documentation in a draft finding that was not published. In an effort to improve the documentation of this factor more research was done.

Ms Beth Baden and Mr Bob Long from HQUSACE were contacted as subject matter experts. The reference HQUSACE uses to determine renovation costs is TM 5-800-4, Programming Cost Estimates for Military Construction. This is a complex cost estimating Technical Manual that is not conducive for use with the COBRA Standard Factor process.

Mr Robert Suchan of the U.S. Army Cost & Economic Analysis Center was also called as a subject matter expert. He is managing the cost factors that are being used for the Installation Status Report (ISR). Among those factors is a factor by FCG that represents the percent of new construction cost to upgrade a facility from "RED" status to "GREEN" status. The listing of those percentages for facilities measured in square feet is attached.

Review of these factors shows that rehabilitation costs vary by FCG from a low of 18% for FCG 43200, Cold Storage-Installation, to a high of 85% for FCG 17120, General Instructional Buildings.

Since the COBRA model is not currently designed to handle multiple percentages based on FCG, a strategy was developed to use the average of the existing BRAC renovation projects by FCG weighted by total project square footage.

The table titled BRAC RENOVATION PROJECTS attached shows the summation of the 25 BRAC projects by FCG & BRAC round. The weighted average of the ISR FCG Cost Factors is calculated to be 59%.

5. Validation Procedures.

The factors used in ISR have good credibility, are easy to audit and, according to Mr Bob Conte, Project Manger for the ISR project, these factors were validated twice against actual DD Form 1483 (Work Orders) at 25 Installations with an "error" rate of only 15%, which would be covered by the "contingency" factor normally included in the COBRA model.

STATEMENT OF CERTIFICATION:

I am the proponent for the data element specified in the information above and certify that the information supplied is accurate and complete to the best of my knowledge and belief.

DAVID A. YENTZER
Chief,
Installation Planning Division

05/05/94

RENOVATION COSTS BY FCG

FCG	DESCRIPTION	% OF NEW CONSTRUCTION
14110	AF OPS BLDG	0.71
14112	AV UNIT OPS BLD	0.65
14182	BDE HQ BLDG	0.71
14183	BN HQ BLDG	0.40
14185	CO HQ BLDG	0.41
14310	MISC SHIP OPS	0.71
17112	FLIGT SIM BLGD	0.58
17115	BAND TRAIN FAC	0.72
17120	GEN INST BLDGS	0.85
17121	INDOOR FIRE RG	0.72
17130	APPL INST BLDG	0.58
17140	AR CENTER	0.72
17142	NG CENTER	0.72
17160	TASC	0.72
17182	TRGT MOV SIM BD	0.58
21110	MT HNGR AVUM	0.68
21111	MT HNGR AVIM	0.71
21120	MISC ACFT MAINT	0.71
21210	GM MAINT BLDG	0.71
21407	NG MAINT FAC	0.67
21409	AR MAINT FAC	0.67
21410	VEH MNT SH ORG	0.54
21420	VEH MNT SH DS	0.50
21435	VEH REBUILD FAC	0.71
21510	GUN/WPN REPAIR	0.71
21610	AMMO MAINT FAC	0.71
21800	SP PURP MNT SHP	0.71
21810	PAR/ABN EQP REP	0.71
21830	MISC MAINT BLDG	0.55
21900	MNT INST O&R	0.71
22110	AC PROD BLDG	0.76
22210	GM PROD BLDG	0.76
22310	SHIP PROD BLDG	0.76
22410	TANK/AUTO PROD	0.76
22510	WEAPON PROD BLD	0.76
22610	EXPLOSIVE PROD	0.76
22710	COMMO PROD BLDG	0.76
22810	LTHR & TEX PLNT	0.76
22820	CONST EQP PLANT	0.76
22830	RR EQP PLANT	0.69
22840	PRINT PLANT	0.76
22890	MISC PROD BLDG	0.76
31010	RDT&E LABS	0.71
31110	AC RDT&E	0.71
31210	MSL SPACE RDT&E	0.71
31310	MAR RDT&E	0.71
31410	TANK/AUTO RDT&E	0.71
31510	WEAPON RDT&E	0.71
31610	EXPLOSIVE RDT&E	0.71
31710	ELEC RDT&E	0.71
31810	PROP RDT&E	0.71
31910	NON-METAL RDT&E	0.55
32010	UND-WAT EQU RDT	0.71
32110	TECH SERVICE	0.71
42100	AMMO STOR-DEP	0.36
42200	AMMO STOR-INST	0.36
43200	COLD STOR-INST	0.18
44100	GEN P WH-DEP	0.52
44200	GEN P WH-INST	0.38
44230	CONT HUM WH	0.52
44240	INFL MATLS WH	0.35
44260	VEH STOR SHED	0.52
51010	HOSPITAL	0.82
53040	VET FACILITY	0.40
54010	DENTAL CLINIC	0.83
55010	HEALTH CLINIC	0.83
61050	GEN PURP ADMIN	0.47
72100	ENL UPH	0.41
72114	EN BKS AT/MOB	0.64
72170	SR ENL QTRS	0.55
72181	ENL BKS TRAINEE	0.39
72200	UPH DINE FAC	0.38
72400	OFF UPH	0.28
73010	FIRE STATION	0.76
73015	CONFINEMENT FAC	0.37
73020	CHAPEL CTR FAC	0.29
73028	DRUG ABUSE CTR	0.49
73030	LNDRY/DRYCL FAC	0.39
73048	DEPN GR SCH	0.54
73049	DEPN HIGH SCH	0.54
73073	POST OFFICE	0.39
74006	BANK	0.39
74010	AUDTM GEN PURP	0.48
74011	BOWLING CTR	0.68
74014	CHILD SPT CTR	0.61
74021	COMMISSARY	0.25
74022	SKILL DEV CTR	0.50
74024	SKILL CTR AUTO	0.50
74025	ACES FACILITY	0.50
74028	PHYS FIT CTR	0.39
74032	TRANS HSG FAC	0.33
74033	COMMUNITY CTR	0.43
74041	LIBRARY CTR	0.43
74046	OPEN DINING FAC	0.64
74052	EXCH SVC STA	0.60
74053	EXCH MAIN RETL	0.71
74064	REST/CAFE	0.69
74066	YOUTH CENTER	0.48
74069	RECREATION BLDG	0.43
76010	MUSEUM	0.75

BRAC RENOVATION PROJECTS

	BRAC	Data									
	BRAC 1		BRAC 91		BRAC93		Total SF SUM	Total PROJ CNT	FCG	ISR FCG	SF*FACTOR
CATCD	SF SUM	PROJ CNT	SF SUM	PROJ CNT	SF SUM	PROJ CNT				COST FACTOR	PRODUCT
14184	16365	1	0	0	0	0	16365	1	14182	0.71	11619.15
17120	0	0	44295	1	0	0	44295	1	17120	0.85	37650.75
17130	31613	1	141486	2	0	0	173099	3	17130	0.58	100397.42
17140	28160	1	388504	1	0	0	416664	2	17140	0.72	299998.08
21210	0	0	0	0	150188	2	150188	2	21210	0.71	106633.48
31220	0	0	4794	1	0	0	4794	1	31210	0.71	3403.74
31740	0	0	118292	1	0	0	118292	1	31710	0.71	83987.32
51010	34589	2	0	0	0	0	34589	2	51010	0.82	28362.98
51090	0	0	12980	1	0	0	12980	1	51010	0.82	10643.6
61018	0	0	280000	2	0	0	280000	2	61050	0.47	131600
61031	14185	1	0	0	0	0	14185	1	61050	0.47	6666.95
61041	6136	1	0	0	0	0	6136	1	61050	0.47	2883.92
61050	238789	4	125071	2	0	0	363860	6	61050	0.47	171014.2
72111	0	0	192855	1	0	0	192855	1	72100	0.41	79070.55
Grand Total	369837	11	1308277	12	150188	2	1828302	25			1073932.1
ISR-FCG COST FACTOR WEIGHTED AVERAGED BASED ON TOTAL SF=										0.59	

Source: July 94 BRAC Construction Database

Cobra Standard Factor 61 EUH Average Size Factor.
Cobra Standard Factor 62 Family Housing Average Unit Size Factor.

1. Description.

61. The average square feet of unaccompanied enlisted housing (UEH). This is used to calculate the number of UEH spaces a construction project will produce. (Allowed entries 0 to 500 SF)

62. The average square feet of family quarters. This is used to calculate the number of family quarters a construction project will produce. (Allowed entries 0 to 2000 SF)

2. Validated Values. UEH: 388 SF
Family Housing : 1819 SF

3. Data Sources.

July 1994 HQRPLANS Cost Factor and Escalation tables, US Army Corps of Engineers Architectural and Engineering Instructions (AEI), and Jun 1994 Personnel Management Authorization Document (PMAD). R&K Engineering uses most recent Corps of Engineers publications, based upon DOD guidance, for unit cost and inflation factors use in HQRPLANS.

a. Date last updated:
HQRPLANS: July 1994
AEI: December 1991
PMAD June 1994

b. Date of next update:
HQRPLANS: December 1994
AEI: unknown
PMAD: September 1994

4. Methodology.

61. UEH Average size GSF 388 SF based upon new 1 plus 1 standard design for Grades E-1 to E-4.

62. Family Quarters Avg size GSF 1819. NSF from 10 USC 2826

total	13100
average	1456

5. Validation Procedures.

Gross Square Footage for UEPH is based on a 388 GSF standard for the 1 plus 1 design for E1-E4.

Gross Square Footage for Army Family Housing is based upon the Net Square Feet allowances in 10 USC. sec. 2826. The highest and lowest NSF allowances (General Officer and two bedroom units) were eliminated as unlikely to be built. The remaining by grade allowances were averaged to derive 1456 NSF. This figure was then inflated by 25 percent to reflect gross square feet. OSD Housing recommended reference to sec. 2826 to get an average; Army housing stated that they did not use averages, but rather programmed by bedroom requirements. Local housing markets are DODs first source of housing, and are likely to best respond to small unit (2-3 bedrooms) demands quickly. On-post requirements tend to be in the 4-5 bedroom range.

STATEMENT OF CERTIFICATION:

I am the proponent for the data element specified in the information above and certify that the information supplied is accurate and complete to the best of my knowledge and belief.

DAVID A. YENTZER
Chief,
Installation Planning Division

Cobra Standard Factors 50-60 Construction Factors

1. Description.

The average cost per unit of measure ($/UM) for new construction of each of the military construction categories listed. (Allowed entries 0.00 to 99,999.99 $/UM)

2. Validated Value. See Below.

3. Data Sources.

July 1994 2 HQRPLANS Cost Factor and Escalation tables. R&K Engineering uses most recent Corps of Engineers publications, based upon DOD guidance, for unit cost and inflation factors.

a. Date last updated: July 1994

b. Date of next update: December 1994

4. Methodology.

FCG Construction Cost factors from the July 1994 HQRPLANS database are listed in the column labeled FY94 FACTOR. The escalation factor for FY1996 is 1.0588. The product of the FCG Construction Cost factor with the escalation factor is the result in the column labeled FY 96 FACTOR. The average of the FY96 FACTOR for the listed FCGs is the standard factor used in COBRA, labeled COBRA FACTOR.

MCA unit cost factors for FCGs with a UM of SF include $10/SF to account for the costs of demolition generally required before a new building may be constructed. Costs reflected are FY 94 dollars, then inflated to FY 96. Specific factors shown in the following table:

##	Construction Factor FCG	Description	UM	FY94 FACTOR	FY96 FACTOR	COBRA FACTOR
50.	Horizontal					
	45200	VEH HARDSTAND	SY	36.02	38.14	38.14
51.	Waterfront		SY	(not used)		
52.	Air Ops					130.28
	21110	MT HNGR AVUM	SF	106.21	112.46	
	21111	MT HNGR AVIM	SF	139.87	148.09	

##	Construction Factor FCG	Description	UM	FY94 FACTOR	FY96 FACTOR	COBRA FACTOR
53.	Operations					119.15
	14182	BDE HQ BLDG	SF	112.53	119.15	
	14183	BN HQ BLDG	SF	112.53	119.15	
	14185	CO HQ BLDG	SF	112.53	119.15	
54.	Administrative					
	61050	GEN PURP ADMIN	SF	99.91	105.78	105.78
55.	School Buildings					
55a	17120	GEN INST BLDGS	SF	97.80	103.55	103.55
55b	17130	APPL INST BLDG	SF	107.27	113.58	113.58
56.	Maintenance Shops					107.64
	21410	VEH MNT SH ORG	SF	108.32	114.69	
	21420	VEH MNT SH DS	SF	102.01	108.01	
	21800	SPEC PURP MT	SF	94.65	100.22	
57.	UEPH					
	7210S	ENL UPH (PLNG)	PN	43660*	46227*	46227*
	* Source: SEP 94 HQRPLANS					
58.	Family Housing					
	71100	FAMILY HOUSING	SF	83764	88689	88689
59.	Covered Storage					60.13
	44200	GEN P WH-INST	SF	57.84	61.24	
	44230	CONT HUM WH	SF	59.95	63.47	
	44100	GEN P WH-DEP	SF	67.31	71.27	
	44260	VEH STOR SHED	SF	42.07	44.54	
60.	Recreation					
	74028	Phys Fit Ctr	SF	120.94	128.05	128.05

The follwing items are not in Standard Factors datacall but should be added:

74014	Child Spt Ctr	SF	113.58	120.26	120.26
72200	Dinning Fac	SF	170.37	180.39	180.39
31010	RDTE Labs	SF	165.11	174.82	174.82
31X10	RDTE non-lab	SF	131.46	139.19	139.19
22X10	Production Fac	SF	94.65	100.22	100.22

5. Validation Procedures.

MCA unit cost factors are based upon the most recent USACE publication on Area and Unit Cost Factors. Inflation factor was extracted from HQRPLANS Escalation Factor table.

STATEMENT OF CERTIFICATION:

I am the proponent for the data element specified in the information above and certify that the information supplied is accurate and complete to the best of my knowledge and belief.

DAVID A. YENTZER
Chief,
Installation Planning Division

DEPARTMENT OF THE ARMY
ASSISTANT CHIEF OF STAFF FOR INSTALLATION MANAGEMENT
600 ARMY PENTAGON
WASHINGTON DC 20310-0600

REPLY TO
ATTENTION OF

DAIM-FDP-A

25 August 1994

MEMORANDUM FOR DIRECTOR, THE ARMY BASING STUDY

SUBJECT: Standard Factors for the Cost of Base Realignment Actions (COBRA) Model (BRAC 95 Data Call #9)

1. References

a. DACS-TABS Memorandum dated 7 July 1994, SAB.

b. DAIM-FDP-A Memorandum dated 3 August 1994, SAB.

2. The COBRA standard factors described in para 3 of reference b. are attached.

3. POCs are Ms. Maureen Wylie at X44313 or Mr. Chip Larouche @ 43988.

FOR THE ASSISTANT CHIEF OF STAFF FOR INSTALLATION MANAGEMENT

Attachment

DAVID A. YENTZER
Chief,
Installation Planning Division

DACS-TABS 26 Sep 1994

MEMORANDUM FOR THE RECORD

SUBJECT: COBRA Inflation Assumptions for BRAC 95.

1. This document describes the assumptions made by The Army Basing Study regarding inflation of monetary factors used in the Cost of Base Realignment Actions (COBRA) model.

2. References:

a. National Defence Budget Estimates for FY 1995, Office of the Comptroller of the Department of Defense, March 1994.

b. Inflation and Real Growth Overview, Office, Director of the Army Budget, Assistant Secretary of the Army (Financial Management), June 1989.

c. Circular No. A-94, SUBJECT: 1994 Discount Rates for benefit-cost Analysis of Federal Programs, Executive Office of the President, Office of Management and Budget, dated February 10, 1994.

d. Memorandum, SUBJECT: Base Closure Policy Memorandum One, Under Secretary of Defense, dated 31 May 1994.

e. Memorandum, SUBJECT: Base Closure Policy Memorandum Two, TBP.

3. Data dollar elements required by the COBRA model are listed at enclosure 1.

4. Base closure policy memorandum one requires all dollar inputs to the COBRA model to be in FY 1996 constant dollars. The Army Basing Study (TABS) has designated the National Defense Estimates for FY 1995 as the source document for all escalation factors used to produce FY 1996 constant dollars.

DACS-TABS
Subject: COBRA Assumptions

5. The standard methodology for establishing correct escalation factors for each category of dollar input to COBRA is as follows:

a. Determine the current year dollars of all COBRA inputs. Document the current year with the data element.

1) Historic Data. The current year is the year that the dollars were **SPENT**.

2) Policy Data (Professional Judgement). This data is obtained from current regulations as applicable, and is not generally subject to increase at the rate of current inflation. Policy data will be analyzed on a case by case basis with the proponent source to determine unique escalation factors. The establishment of these unique escalation factors will be documented inn enclosure 1.

b. Categorize the data using Tables 5-4 (Department of Defense Deflators - TOA) from the National Defense Budget Estimates for FY 1995.

c. Apply the escalation factors derived from the National Defense Budget estimates by category (enclosure 2) to the current year dollars.

d. Document the FY 1996 constant year dollars for use in the COBRA model.

2 encl

Charles V. Fletcher
MAJ, GS
OPERATIONS ANALYST

DACS-TABS
Subject: COBRA Assumptions

ENCLOSURE 1.

COBRA STANDARD FACTORS ESCALATION TABLE

SF #STANDARD FACTOR	UNITS	TYPE ESCALATION
FACTOR		
4 Officer Salary	$/YEAR	Table 5-4 TOA - MIL PER
5 Officer BAQ w/Dependents	$/MONTH	Table 5-4 TOA - MIL PER
6 Enlisted Salary	$/YEAR	Table 5-4 TOA - MIL PER
7 Enlisted BAQw/Dependents	$/MONTH	Table 5-4 TOA - MIL PER
8 Average unemployment cost	$/WEEK	Table 5-5 TOA - GRAND TOTAL
10 Civilian Salary	$/YEAR	Table 5-5 TOA - GRAND TOTAL
18 Civilian PCS Cost	$/FAMILY	Table 5-5 TOA - GRAND TOTAL
19 New Hire Cost	$/PERSON	Table 5-5 TOA - GRAND TOTAL
20 National Median Home Price	$/HOME	Table 5-5 TOA - GRAND TOTAL
22 Max Home Sale Reimbursement	$	Table 5-5 TOA - GRAND TOTAL
24 Max Home Purc Reimburse	$	Table 5-5 TOA - GRAND TOTAL
34 Mothball Cost	$/SQFT	UNIQUE*
51 Total HHG Packing Cost	$/100LBS	Table 5-5 TOA - GRAND TOTAL
52 Equipment Packing and Crating	$/TON	Table 5-5 TOA - GRAND TOTAL
53 Military Lt Vehicle Cost	$/MILE	Table 5-5 TOA - GRAND TOTAL
53 Heavy/Special Vehicle Cost	$/TON-MILE	Table 5-5 TOA - GRAND TOTAL
55 POV Reimbursement Cost	$/MILE	UNIQUE*
56 Air Transport Cost	$/MILE	Table 5-5 TOA - GRAND TOTAL
57 Miscellaneous Expenses	$/PERSON	UNIQUE**
59 Routine PCS Costs	$/PERSON	Table 5-5 TOA - GRAND TOTAL
60 One-time PCS Costs- Off	$/PERSON	Table 5-5 TOA - GRAND TOTAL
61 One-time PCS Costs- Enl	$/PERSON	Table 5-5 TOA - GRAND TOTAL
62 CONSTRUCTION FACTORS:	$/UM	UNIQUE MILCON FACTOR-1.0588***

NOTES:

* Unique escalation based on the professional judgement used when interpreting data from several distinct studies.

** NO ESCALATION EXPECTED - These factors have remained constant for several years and are not expected to increase with the rate of inflation.

** UNIQUE MILCON FACTOR PROVIDED BY THE ACSIM.

DACS-TABS
Subject: COBRA Assumptions

ENCLOSURE 2.

TABLE 5-4 **ESCALATION FACTORS**

	YEAR	DEFLATOR	FACTOR
MILPERS	1990	86.53	1.1805
	1991	90.33	1.1309
	1992	93.06	1.0977
	1993	97.08	1.0522
	1994	98.14	1.0409
	1995	100	1.0215
	1996	102.15	1.0

	YEAR	DEFLATOR	FACTOR
MILCON	1994		1.0588

	YEAR	DEFLATOR	FACTOR
GRAND TOTAL	1990	86.40	1.1878
	1991	90.60	1.1328
	1992	92.56	1.1088
	1993	95.64	1.0731
	1994	97.84	1.0490
	1995	100	1.0216
	1996	102.63	1.0

STANDARD FACTOR #1
OFFICERS MARRIED
Change 1 - 26 Sep 1994

1. DESCRIPTION: The percent of total officers who are married. Dual military officers should each be counted as one married officer. This is used to calculate HAP, HHG and demand for Family Housing. (Allowed entries 0.00 to 100.00 percent)

2. VALIDATED VALUE: 74%

3. DATA SOURCE: Family Demographic System (Factors). See attached documentation.

   a. DATE LAST UPDATED: Mar 1994

   b. DATE OF NEXT UPDATE: Oct 1994

4. METHODOLOGY: 74% was derived from the total married officer (80.19%) minus the Percent Dual Military (6.31%).

PERCENT MARRIED OFFICERS = 80.19%
PERCENT OFFICERS MARRIED TO ANOTHER SERVICE MEMBER = 6.31%

80.19% - 6.31% = 73.88% round up to ~~74%~~ 77

5. VALIDATION PROCEDURE: ATTACHED

I certify that the information supplied is accurate and complete to the best of my knowledge and belief.

Charles V. Fletcher
CHARLES V. FLETCHER
MAJ, GS
OPERATIONS ANALYST

STANDARD FACTOR #1
OFFICERS MARRIED

1. DESCRIPTION: The percent of total officers who are married. Married officer couples, assigned to the same base should each be counted as one married officer (i.e. Do not double-count two officers who are married to each other). This is used to calculate demand for Family Housing. (Allowed entries 0.00 to 100.00 percent)

2. VALIDATED VALUE: 74%

3. DATA SOURCE: Family Demographic System (Factors). See attached documentation.

   a. DATE LAST UPDATED: Mar 1994

   b. DATE OF NEXT UPDATE: Oct 1994

4. METHODOLOGY: 74% was derived from the total married officer (80.19%) minus the Percent Dual Military (6.31%).

PERCENT MARRIED OFFICERS = 80.19%
PERCENT OFFICERS MARRIED TO ANOTHER SERVICE MEMBER = 6.31%

80.19% - 6.31% = 73.88% round up to 74%

5. VALIDATION PROCEDURE: ATTACHED

I certify that the information supplied is accurate and complete to the best of my knowledge and belief.

Charles V. Fletcher
CHARLES V. FLETCHER
MAJ, GS
OPERATIONS ANALYST

a. Effective with the end of the second quarter Fy 88, this data is the official reportable data for use by the Army Personnel community.

The responsible agency is U.S.Army Community and Family Support Center (CFSC), action office CFSC-PNA, telephone Autovon 221-4353, Civilian (703) 325-4353. Address: 2461 EISENHOWER AVE., ALEXANDRIA, VA. 22331-0507 and the POC is MR. TIM WHYTE (ID WHYTE).

c. The primary source of data is the Defense Enrollment Eligibility Reporting System(DEERS) data base, DEFENSE MANPOWER DATA CENTER (DMDC) MONTEREY, CA.

d. Prior to using any data, users must review the users manual to understand the composition, content, and use of this file. A current users manual can be obtained by contacting CFSC-PNA, (userid WHYTE).

Press ENTER To Proceed

PF: 1/13 Help 2/14 HQDA Menu 3/15 Return

4/16 Printer Selection

Service ACTIVE ARMY Location: CONUS Data from 9403

Total ALL Soldiers 424966

Rank	Pcnt	Pcnt Marr	Pcnt Marr W/C	Pcnt Singl	Pcnt Singl W/C	Pcnt Du Mil	Pcnt Du Mil W/C
PV1	6.79	29.20	52.78	70.79	3.53	.74	17.20
PV2	5.95	22.49	46.17	77.50	2.23	1.32	7.44
PFC	10.99	32.55	46.52	67.44	4.05	2.61	17.86
CPL	21.79	53.25	57.95	46.74	9.36	6.37	36.52
SGT	14.99	80.61	74.39	19.38	23.43	9.37	50.25
SSG	12.36	88.97	82.83	11.02	41.69	8.73	57.54
SFC	8.21	91.02	86.34	8.97	51.13	7.58	62.00
MSG	2.11	93.33	86.70	6.66	48.57	5.74	62.13
SGM	.61	94.02	80.19	5.97	45.16	3.81	63.63
WO1	.34	79.80	72.69	20.19	12.02	4.85	48.57
CW2	.93	87.29	79.44	12.70	27.59	4.37	51.74
CW3	.60	93.52	85.65	6.47	56.09	3.94	52.00
CW4	.33	94.72	77.10	5.27	47.29	2.28	56.25
2LT	1.35	45.95	37.41	54.04	3.22	5.36	15.25
1LT	1.74	60.26	45.65	39.73	6.47	6.98	15.89
CPT	5.22	79.77	66.70	20.22	10.01	7.62	30.27
MAJ	2.91	89.91	82.02	10.08	21.23	7.51	41.01
LTC	1.87	92.83	84.23	7.16	25.52	5.56	44.89
COL	.79	94.65	77.49	5.34	27.22	2.16	52.05
BG	.03	96.99	58.13	3.00		1.50	
MG	.02	97.00	37.11	3.00			
LTG	.01	100.00	38.23				
GEN	.05	100.00	42.85				
ENLST	83.80	61.58	71.27	38.42	10.06	6.03	47.00
OFFCR	16.20	80.19	72.87	19.81	11.06	6.31	33.49
TOTAL	100.00	64.59	71.59	35.41	10.15	6.08	44.73

STANDARD FACTOR #2
ENLISTED MARRIED
Change 1 - 26 Sep 1994

1. DESCRIPTION: The percent of total enlisted personnel who are married. Dual military officers should each be counted as one married officer. This is used to calculate HAP, HHG and demand for Family Housing. (Allowed entries 0.00 to 100.00 percent)

2. VALIDATED VALUE: 55.5%

3. DATA SOURCE: Family Demographics System (Factors) database. Documentation attached.

a. DATE LAST UPDATED: Mar 1994

b. DATE OF NEXT UPDATE: Oct 1994

4. METHODOLOGY: 55.5% was derived from total enlisted married (61.58%) minus the percent dual Military (6.03%).

PERCENT MARRIED ENLISTED = 61.58%
PERCENT ENLISTED MARRIED TO ANOTHER SERVICE MEMBER = 6.03%

$61.58\% - \frac{6.03\%}{2} = 55.55\%$, round to ~~55.5~~ 59%

6. VALIDATION PROCEDURE: ATTACHED

I certify that the information supplied is accurate and complete to the best of my knowledge and belief.

Charles V. Fletcher
CHARLES V. FLETCHER
MAJ, GS
OPERATIONS ANALYST

STANDARD FACTOR #2
ENLISTED MARRIED

1. DESCRIPTION: The percent of total enlisted personnel who are married. Married enlisted couples, assigned to the same base should be each counted as one married member (i.e. Do not double-count two enlisted members who are married to each other). This is used to calculate demand for Family Housing. (Allowed entries 0.00 to 100.00 percent)

2. VALIDATED VALUE: 55.5%

3. DATA SOURCE: Family Demographics System (Factors) database. Documentation attached.

a. DATE LAST UPDATED: Mar 1994

b. DATE OF NEXT UPDATE: Oct 1994

4. METHODOLOGY: 55.5% was derived from total enlisted married (61.58%) minus the percent dual Military (6.03%).

PERCENT MARRIED ENLISTED = 61.58%
PERCENT ENLISTED MARRIED TO ANOTHER SERVICE MEMBER = 6.03%

61.58% - 6.03% = 55.55% , round to 55.5%

6. VALIDATION PROCEDURE: ATTACHED

I certify that the information supplied is accurate and complete to the best of my knowledge and belief.

Charles V. Fletcher
CHARLES V. FLETCHER
MAJ, GS
OPERATIONS ANALYST

a. Effective with the end of the second quarter Fy 88, this data is t official reportable data for use by the Army Personnel community.

The responsible agency is U.S.Army Community and Family Support Ce (CFSC), action office CFSC-PNA, telephone Autovon 221-4353, Civili (703) 325-4353. Address: 2461 EISENHOWER AVE., ALEXANDRIA, VA. 223 and the POC is MR. TIM WHYTE (ID WHYTE).

c. The primary source of data is the Defense Enrollment Eligibility Reporting System(DEERS) data base, DEFENSE MANPOWER DATA CENTER (D MONTEREY, CA.

d. Prior to using any data, users must review the users manual to understand the composition, content, and use of this file. A currer users manual can be obtained by contacting CFSC-PNA, (userid WHYTE)

Press ENTER To Proceed

PF: 1/13 Help 2/14 HQDA Menu 3/15 Return

4/16 Printer Selectio

Service ACTIVE ARMY Location: CONUS Data from 9403
Total ALL Soldiers 424966

Rank	Pcnt	Pcnt Marr	Pcnt Marr W/C	Pcnt Singl	Pcnt Singl W/C	Pcnt Du Mil	Pcnt Du Mil W/C
PV1	6.79	29.20	52.78	70.79	3.53	.74	17.20
PV2	5.95	22.49	46.17	77.50	2.23	1.32	7.44
PFC	10.99	32.55	46.52	67.44	4.05	2.61	17.86
CPL	21.79	53.25	57.95	46.74	9.36	6.37	36.52
SGT	14.99	80.61	74.39	19.38	23.43	9.37	50.25
SSG	12.36	88.97	82.83	11.02	41.69	8.73	57.54
SFC	8.21	91.02	86.34	8.97	51.13	7.58	62.00
MSG	2.11	93.33	86.70	6.66	48.57	5.74	62.13
SGM	.61	94.02	80.19	5.97	45.16	3.81	63.63
WO1	.34	79.80	72.69	20.19	12.02	4.85	48.57
CW2	.93	87.29	79.44	12.70	27.59	4.37	51.74
CW3	.60	93.52	85.65	6.47	56.09	3.94	52.00
CW4	.33	94.72	77.10	5.27	47.29	2.28	56.25
2LT	1.35	45.95	37.41	54.04	3.22	5.36	15.25
1LT	1.74	60.26	45.65	39.73	6.47	6.98	15.89
CPT	5.22	79.77	66.70	20.22	10.01	7.62	30.27
MAJ	2.91	89.91	82.02	10.08	21.23	7.51	41.01
[illegible]	1.87	92.83	84.23	7.16	25.52	5.56	44.89
COL	.79	94.65	77.49	5.34	27.22	2.16	52.05
BG	.03	96.99	58.13	3.00		1.50	
MG	.02	97.00	37.11	3.00			
LTG	.01	100.00	38.23				
GEN	.05	100.00	42.85				
ENLST	83.80	61.58	71.27	38.42	10.06	6.03	47.00
OFFCR	16.20	80.19	72.87	19.81	11.06	6.31	33.49
TOTAL	100.00	64.59	71.59	35.41	10.15	6.08	44.73

ENLISTED HOUSING MILCON

15 AUG 1994

1. DESCRIPTION: The percent of new family housing quarters construction to be assigned to enlisted soldiers.

2. VALIDATED VALUE: 82%

3. DATA SOURCE: FY 96/97 AFH Construction Program

a. DATE LAST UPDATED: July 1994

b. DATE OF NEXT UPDATE: July 1995

4. METHODOLOGY: Divide the number of units to be designated as enlisted by the total number of units in the program.

5. VALIDATION PROCEDURE: See 4 above.

STATEMENT OF CERTIFICATION:

I am the proponent for the data element specified in the information above and certify that the information supplied is accurate and complete to the best of my knowledge and belief.

DEAN STEFANIDES
Chief, Army Housing Division

STANDARD FACTOR #4
OFFICER SALARY
Change 3 - 14 Oct 94

1. DESCRIPTION: The average officer annual salary. This is used to calculate the savings of elimination of officer positions. (Allowed entries 0.00 to 99,999.99 $/Yr)

2. VALIDATED VALUE: $67,948. FY 96 dollars.

3. DATA SOURCE: See attached documentation. Office of the Deputy Chief of Staff for Personnel. Chief, Program, Budget and Compensation Policy Division, POC: COL Edgar E. Stanton.

a. DATE LAST UPDATED: February 1994.

b. DATE OF NEXT UPDATE: September 1994.

4. METHODOLOGY: Used the estimated average salary for FY 96.

5. VALIDATION PROCEDURE: None taken.

I certify that the information supplied is accurate and complete to the best of my knowledge and belief.

Charles V. Fletcher
CHARLES V. FLETCHER
MAJ, GS
OPERATIONS ANALYST

STANDARD FACTOR #4
OFFICER SALARY
Change 1 - 26 Sep 1994

1. DESCRIPTION: The average officer annual salary. This is used to calculate the savings of elimination of officer positions. (Allowed entries 0.00 to 99,999.99 $/Yr)

2. VALIDATED VALUE: ~~$77,068~~. 67,948 FY 96 dollars.

3. DATA SOURCE : See attached documentation. Office of the Deputy Chief of Staff for Personnel. Chief, Program, Budget and Compensation Policy Division, POC: COL Edgar E. Stanton.

a. DATE LAST UPDATED : February 1994.

b. DATE OF NEXT UPDATE : September 1994.

4. METHODOLOGY : Used the submitted salary ($74,104) as the baseline for 1994 dollars, then inflated to 1996 using the MIL PER escalation factor from Table 5-4 , National Defense Budget Estimates for FY 1995. FY 95 = 100, FY 96 = 102.15, escalation factor =

102.15/98.14 = 1.0409 round to 1.04

74104 * 1.04 = $77,068.

5. VALIDATION PROCEDURE : None taken.

I certify that the information supplied is accurate and complete to the best of my knowledge and belief.

Charles V. Fletcher
CHARLES V. FLETCHER
MAJ, GS
OPERATIONS ANALYST

STANDARD FACTOR #4
OFFICER SALARY

1. DESCRIPTION: The average officer annual salary. This is used to calculate the savings of elimination of officer positions. (Allowed entries 0.00 to 99,999.99 $/Yr)

2. VALIDATED VALUE: $77,152. FY 96 dollars.

3. DATA SOURCE: See attached documentation. Office of the Deputy Chief of Staff for Personnel. Chief, Program, Budget and Compensation Policy Division, POC: COL Edgar E. Stanton.

a. DATE LAST UPDATED: February 1994.

b. DATE OF NEXT UPDATE: September 1994.

4. METHODOLOGY: Used the submitted salary ($74,104) as the baseline for 1994 dollars, then inflated to 1996 using the MIL PER escalation factor from Table 5-4, National Defense Budget Estimates for FY 1995. FY 94 = 98.14, FY 96 = 102.15, escalation factor =
102.15/98.14 = ~~1.0410~~ 1.0409 → R TO 1.04

74104 * 1.04~~11~~ = $77,152. 77,068

5. VALIDATION PROCEDURE: None taken.

I certify that the information supplied is accurate and complete to the best of my knowledge and belief.

Charles V. Fletcher
CHARLES V. FLETCHER
MAJ, GS
OPERATIONS ANALYST

OFFICER SALARY

1. DESCRIPTION: Represents the average annual cost of military pay and allowances for an officer. It is used to calculate cost avoidance in the Military Personnel, Army appropriation.

2. VALIDATED VALUE: $74,104

3. DATA SOURCE: Ultimately the data source is the joint service military pay system (JSS) for cost data and the Enlisted Loss Inventory Model/Computer Linear Program(ELIM COMPLIP) for manpower data. This data is used to develop individual factors incorporated into the Military Personnel, Army appropriation justification book. The factor provided is an aggregate developed from the justification book.

a. DATE LAST UPDATED: FEBRUARY 1994

b. DATE OF NEXT UPDATE: SEPTEMBER 1994

4. METHODOLOGY: Factors are developed by grade, by type of pay, and knowledge of future events that affect rates such as pay raises, inflation, and trends in average years of service for military personnel.

5. VALIDATION PROCEDURE: This office is accountable for all funds spent in this appropriation world wide. It is a centrally managed open allotment. For this reason rates are checked and updated monthly by comparison to actual performance.

6. STATEMENT OF CERTIFICATION: I am the proponent for the data element specified in the information above and certify that the information supplied is accurate and complete to the best of my knowledge and belief.

EDGAR E. STANTON, III
Colonel, GS
Chief, Program, Budget and
Compensation Policy Division

STANDARD FACTOR #5
OFFICER BAQ W/DEPENDENTS
Change 1 - 26 Sep 1994

1. DESCRIPTION: The average Basic Allowance for Quarters for officers, with dependents. This is used to calculate costs/savings of changes in the officer population living off-post. (Allowed entries 0.00 to 20,000.00 $/month)

2. VALIDATED VALUE: $7,717. FY 96 dollars.

3. DATA SOURCE: See attached documentation. Office of the Deputy Chief of Staff for Personnel. Chief, Program, Budget and Compensation Policy Division, POC: COL Edgar E. Stanton.

a. DATE LAST UPDATED: February 1994.

b. DATE OF NEXT UPDATE: September 1994.

4. METHODOLOGY: Used the submitted BAQ ($7,566) as the baseline for 1995 dollars, then inflated to 1996 using the MIL PER escalation factor from Table 5-4, National Defense Budget Estimates for FY 1995. FY 94 = 98.14, FY 96 = 102.15, escalation factor =

102.15/100 = 1.0215. round to 1.02

7566 * 1.02 = 7,717.

5. VALIDATION PROCEDURE: See attached documentation.

I certify that the information supplied is accurate and complete to the best of my knowledge and belief.

Charles V. Fletcher
CHARLES V. FLETCHER
MAJ, GS
OPERATIONS ANALYST

STANDARD FACTOR #5
OFFICER BAQ W/DEPENDENTS

1. DESCRIPTION: The average Basic Allowance for Quarters for officers, with dependents. This is used to calculate costs/savings of changes in the officer population living off-post. (Allowed entries 0.00 to 20,000.00 $/month)

2. VALIDATED VALUE: $7,520. FY 96 dollars.

3. DATA SOURCE: See attached documentation. Office of the Deputy Chief of Staff for Personnel. Chief, Program, Budget and Compensation Policy Division, POC: COL Edgar E. Stanton.

a. DATE LAST UPDATED: February 1994.

b. DATE OF NEXT UPDATE: September 1994.

7566 95

4. METHODOLOGY: Used the submitted BAQ ($7,223) as the baseline for 1994 dollars, then inflated to 1996 using the MIL PER escalation factor from Table 5-4, National Defense Budget Estimates for FY 1995. FY 94 = 98.14, FY 96 = 102.15, escalation factor =

102.15/98.14 = 1.0411.

7223 * 1.0411 = 7,520.

5. VALIDATION PROCEDURE: See attached documentation.

I certify that the information supplied is accurate and complete to the best of my knowledge and belief.

Charles V. Fletcher
CHARLES V. FLETCHER
MAJ, GS
OPERATIONS ANALYST

OFFICER BAQ W/DEPENDENTS

1. DESCRIPTION: Represents the average annual cost of Officer BAQ with dependents payments for an officer. It is used to calculate cost avoidance in the Military Personnel, Army appropriation.

2. VALIDATED VALUE: $7,223

3. DATA SOURCE: The data source is rates provided by Office, Secretary of Defense (C) for cost data and the Enlisted Loss Inventory Model/Computer Linear Program (ELIM COMPLIP) for manpower data. This data is used to develop individual factors incorporated into the Military Personnel, Army appropriation justification book. The factor provided is an aggregate developed from the justification book.

a. DATE LAST UPDATED: FEBRUARY 1994

b. DATE OF NEXT UPDATE: SEPTEMBER 1994

4. METHODOLOGY: Factors are developed by grade, by type of pay, and knowledge of future events that affect rates such as pay raises, inflation, and availability of family housing.

5. VALIDATION PROCEDURES: This office is accountable for all funds spent in this appropriation world wide. It is a centrally managed open allotment. For this reason rates are checked and updated monthly by comparison to actual performance.

6. STATEMENT OF CERTIFICATION: I am the proponent for the data element specified in the information above and certify that the information supplied is accurate and complete to the best of my knowledge and belief.

EDGAR E. STANTON, III
Colonel, GS
Chief, Program, Budget and
Compensation Policy Division

STANDARD FACTOR #6
ENLISTED SALARY
Change 3 - 14 Oct 1994

1. DESCRIPTION: The average enlisted annual salary. This is used to calculate the savings of elimination of enlisted positions. (Allowed entries 0.00 to 99,999.99 $/Yr)

2. VALIDATED VALUE: $30,860. FY 96 dollars.

3. DATA SOURCE: See attached documentation. Office of the Deputy Chief of Staff for Personnel, Program, Budget and Compensation Policy Division, POC: COL Edgar E. Stanton.

a. DATE LAST UPDATED: February 1994.

b. DATE OF NEXT UPDATE: September 1994.

4. METHODOLOGY: Used the estimated average salary for FY 96.

5. VALIDATION PROCEDURE: See attached documentation.

I certify that the information supplied is accurate and complete to the best of my knowledge and belief.

Charles V. Fletcher
CHARLES V. FLETCHER
MAJ, GS
OPERATIONS ANALYST

STANDARD FACTOR #6
ENLISTED SALARY
Change 1 - 26 Sep 1994

1. DESCRIPTION: The average enlisted annual salary. This is used to calculate the savings of elimination of enlisted positions. (Allowed entries 0.00 to 99,999.99 $/Yr)

2. VALIDATED VALUE: $34,120. FY 96 dollars.

3. DATA SOURCE: See attached documentation. Office of the Deputy Chief of Staff for Personnel, Program, Budget and Compensation Policy Division, POC: COL Edgar E. Stanton.

a. DATE LAST UPDATED: February 1994.

b. DATE OF NEXT UPDATE: September 1994.

4. METHODOLOGY: Used the submitted salary ($32,808) as the baseline for 1994 dollars, then inflated to 1996 using the MIL PER escalation factor from Table 5-4, National Defense Budget Estimates for FY 1995. FY 94 = 98.14, FY 96 = 102.15, escalation factor =

102.15/98.14 = 1.0409. round to 1.04

32808 * 1.04 = 34,120.

5. VALIDATION PROCEDURE: See attached documentation.

I certify that the information supplied is accurate and comp to the best of my knowledge and belief.

Charles V. Fletcher
CHARLES V. FLETCHER
MAJ, GS
OPERATIONS ANALYST

STANDARD FACTOR #6
ENLISTED SALARY

1. DESCRIPTION: The average enlisted annual salary. This is used to calculate the savings of elimination of enlisted positions. (Allowed entries 0.00 to 99,999.99 $/Yr)

2. VALIDATED VALUE: ~~$34,156.~~ FY 96 dollars.
$30,800 FY 96

3. DATA SOURCE: See attached documentation. Office of the Deputy Chief of Staff for Personnel, Program, Budget and Compensation Policy Division, POC: COL Edgar E. Stanton.

a. DATE LAST UPDATED: February 1994.

b. DATE OF NEXT UPDATE: September 1994.

4. METHODOLOGY: Used the submitted salary ($32,808) as the baseline for 1994 dollars, then inflated to 1996 using the MIL PER escalation factor from Table 5-4 , National Defense Budget Estimates for FY 1995. FY 94 = 98.14, FY 96 = 102.15, escalation factor =

102.15/98.14 = 1.0411.

32808 * 1.0411 = 34,156.

5. VALIDATION PROCEDURE: See attached documentation.

I certify that the information supplied is accurate and complete to the best of my knowledge and belief.

Charles V. Fletcher
CHARLES V. FLETCHER
MAJ, GS
OPERATIONS ANALYST

ENLISTED SALARY

1. DESCRIPTION: Represents the average annual cost of military pay and allowances for an officer. It is used to calculate cost avoidance in the Military Personnel, Army appropriation.

2. VALIDATED VALUE: $32,808

3. DATA SOURCE: Ultimately the data source is the joint service military pay system (JSS) for cost data and the Enlisted Loss Inventory Model/Computer Linear Program (ELIM COMPLIP) for manpower data. The factor provided is an aggregate developed from the justification book.

a. DATE LAST UPDATED: FEBRUARY 1994

b. DATE OF NEXT UPDATE: SEPTEMBER 1994

4. METHODOLOGY: Factors are developed by grade, by type of pay, and knowledge of future events that affect rates such as pay raises, inflation, and trends in average years of service for military personnel.

5. VALIDATION PROCEDURE: This office is accountable for all funds spent in this appropriation world wide. It is a centrally managed open allotment. For this reason rates are checked and updated monthly by comparison to actual performance.

6. STATEMENT OF CERTIFICATION: I am the proponent for the data element specified in the information above and certify that the information supplied is accurate and complete to the best of my knowledge and belief.

EDGAR E. STANTON, III
Colonel, GS
Chief, Program, Budget and
Compensation Policy Division

STANDARD FACTOR #7
ENLISTED BAQ W/DEPENDENTS
Change 1 - 26 Sep 1994

1. DESCRIPTION: The average Basic Allowance for Quarters for enlisted, with dependents. This is used to calculate costs/savings of changes in the enlisted population living off-post. (Allowed entries 0.00 to 20,000.00 $/month)

2. VALIDATED VALUE: $5,223 96 dollars.

3. DATA SOURCE : See attached documentation. Office of the Deputy Chief of Staff for Personnel. Chief, Program, Budget and Compensation Policy Division, POC: COL Edgar E. Stanton.

a. DATE LAST UPDATED : February 1994.

b. DATE OF NEXT UPDATE : September 1994.

4. METHODOLOGY : Used the submitted BAQ ($5,121) as the baseline for 1995 dollars, then inflated to 1996 using the MIL PER escalation factor from Table 5-4 , National Defense Budget Estimates for FY 1995. FY 95 = 100, FY 96 = 102.15, escalation factor =

102.15/100 = 1.0215. Round to 1.02

5121 * 1.02 = 5,223

5. VALIDATION PROCEDURE : See attached documentation.

I certify that the information supplied is accurate and complete to the best of my knowledge and belief.

Charles V. Fletcher
CHARLES V. FLETCHER
MAJ, GS
OPERATIONS ANALYST

STANDARD FACTOR #7
ENLISTED BAQ W/DEPENDENTS

1. DESCRIPTION: The average Basic Allowance for Quarters for enlisted, with dependents. This is used to calculate costs/savings of changes in the enlisted population living off-post. (Allowed entries 0.00 to 20,000.00 $/month)

2. VALIDATED VALUE: $5,092 FY 96 dollars.

3. DATA SOURCE: See attached documentation. Office of the Deputy Chief of Staff for Personnel. Chief, Program, Budget and Compensation Policy Division, POC: COL Edgar E. Stanton.

a. DATE LAST UPDATED: February 1994.

b. DATE OF NEXT UPDATE: September 1994.

4. METHODOLOGY: Used the submitted BAQ ($4,891) as the baseline for 1994 dollars, then inflated to 1996 using the MIL PER escalation factor from Table 5-4, National Defense Budget Estimates for FY 1995. FY 94 = 98.14, FY 96 = 102.15, escalation factor =

102.15/98.14 = 1.0411.

5121 FY95

4891 * 1.0411 = 5,092.

5. VALIDATION PROCEDURE: See attached documentation.

I certify that the information supplied is accurate and complete to the best of my knowledge and belief.

Charles V. Fletcher
CHARLES V. FLETCHER
MAJ, GS
OPERATIONS ANALYST

ENLISTED BAQ W/DEPENDENTS

1. DESCRIPTION: Represents the average annual cost of Enlisted BAQ with dependents payments for an enlisted soldier. It is used to calculate cost avoidance in the Military Personnel, Army appropriation.

2. VALIDATED VALUE: $4,891

3. DATA SOURCE: The data source is rates provided by Office, Secretary of Defense (C) for cost data and the Enlisted Loss Inventory Model/Computer Linear Program (ELIM COMPLIP) for manpower data. This data is used to develop factors incorporated into the Military Personnel, Army appropriation justification book. The factor provided is an aggregate developed from the justification book.

a. DATE LAST UPDATED: FEBRUARY 1994

b. DATE OF NEXT UPDATE: SEPTEMBER 1994

4. METHODOLOGY: Factors are developed by trade by grade, by type of pay, and knowledge of future events that affect rates such as pay raises, inflation, and availability of family housing.

5. VALIDATION PROCEDURE: This office is accountable for all funds spent in this appropriation world wide. It is a centrally managed open allotment. For this reason rates are check and updated monthly by comparison to actual performance.

6. STATEMENT OF CERTIFICATION: I am the proponent for the data element specified in the information above and certify that the information supplied is accurate and complete to the best of my knowledge and belief.

EDGAR E. STANTON, III
Colonel, GS
Chief, Program, Budget and
Compensation Policy Division

STANDARD FACTOR #8
AVERAGE UNEMPLOYMENT COSTS

1. DESCRIPTION: The average unemployment cost. This is used to calculate unemployment costs over the period of unemployment eligibility. (Allowed entries 0.00 to 2,000.00 $/week)

2. VALIDATED VALUE: $174. FY 96 dollars.

3. DATA SOURCE: See attached documentation. Office of the Deputy Chief of Staff for Personnel. Chief, Technical Services Branch. POC: Mr Remer W. Griner.

a. DATE LAST UPDATED: 31 March 1994.

b. DATE OF NEXT UPDATE: 30 June 1994.

4. METHODOLOGY: Used the submitted number ($167.20) as the baseline for 1994 dollars, then inflated to 1996 using the MIL PER escalation factor from Table 5-4, National Defense Budget Estimates for FY 1995. FY 94 = 98.14, FY 96 = 102.15, escalation factor =

102.15/98.14 = 1.0411.

167.20 * 1.0411 = $174.

5. VALIDATION PROCEDURE: See attached documentation.

I certify that the information supplied is accurate and complete to the best of my knowledge and belief.

Charles V. Fletcher
CHARLES V. FLETCHER
MAJ, GS
OPERATIONS ANALYST

AVERAGE UNEMPLOYMENT COSTS

1. DESCRIPTION: The average unemployment cost. This is used to calculate unemployment costs over the period of unemployment eligibility.

2. VALIDATED VALUE: Average weekly benefit $167.20

3. DATA SOURCE: Department of Labor

   a. DATE LAST UPDATED: 31 March 1994

   b. DATE OF NEXT UPDATE: 30 June 1994

4. METHODOLOGY: Formula: Total Benefits Paid divided by Total Number of Weeks Paid for 12 months ending 31 March 1994.

5. VALIDATION PROCEDURE: In accordance with accepted accounting procedures.

STATEMENT OF CERTIFICATION:

The information supplied is accurate and complete to the best of my knowledge and belief.

REMER W. GRINER
Chief, Technical Services
Branch

STANDARD FACTOR #9
UNEMPLOYMENT ELIGIBLE

1. DESCRIPTION: The period of time over which unemployment payments are paid. Used in conjunction with Average Unemployment Costs and personnel positions lost to calculate unemployment costs. (Allowed entries 0 to 52 weeks)

2. VALIDATED VALUE: 18 WEEKS.

3. DATA SOURCE: See attached documentation. Office of the Deputy Chief of Staff for Personnel. Chief, Technical Services Branch. POC: Mr Remer W. Griner.

a. DATE LAST UPDATED: 31 March 1994.

b. DATE OF NEXT UPDATE: 30 June 1994.

4. METHODOLOGY: See attached documentation.

5. VALIDATION PROCEDURE: See attached documentation.

STATEMENT OF CERTIFICATION:

I certify that the information supplied is accurate and complete to the best of my knowledge and belief.

Charles V. Fletcher
CHARLES V. FLETCHER
MAJ, GS
OPERATIONS ANALYST

UNEMPLOYMENT ELIGIBILITY

1. DESCRIPTION: The period to time over which unemployment payments are paid.

2. VALIDATED VALUE: Average number of weeks paid: 18.2.

3. DATA SOURCE: Department of Labor

a. DATE LAST UPDATED: 31 March 1994

b. DATE OF NEXT UPDATE: 30 June 1994

4. METHODOLOGY: Formula: Total Number of Weeks Paid divided by Number of First Week Payments for 12 months ending 31 March 1994.

5. VALIDATION PROCEDURE: The charges are (should be) validated by the components and payment made to the DOL within 30 days of billings. Unless the bills are challenged the DOL accepts the payments as billed.

STATEMENT OF CERTIFICATION:

The information supplied is accurate and complete to the best of my knowledge and belief.

REMER W. GRINER
Chief, Technical Services
Branch

STANDARD FACTOR #10
CIVILIAN SALARY
Change 1 - 26 Sep 1994

1. DESCRIPTION: The average annual salary, for government civilian employees. This is used to calculate costs/savings of changes in the size of the civilian workforce. (Allowed entries 0.00 to 99,999.99 $/Yr)

2. VALIDATED VALUE: $45,998. FY 96 dollars.

3. DATA SOURCE: See attached documentation. BRAC 93 Standard Factors. Average civilian salary from the FY 94 appropriations accounts, Direct U.S. Hire - subtotal U.S. Rate, This factor includes costs under the heading 'Total Military Function'. Included costs: Total Compensation
Basic Pay
Annualized Overtime Pay
Holiday Pay
Other Pay
Total Benefits

a. DATE LAST UPDATED: September 1992

b. DATE OF NEXT UPDATE: Unk

4. METHODOLOGY: Used the submitted number ($44,229) as the baseline for 1994 dollars, then inflated to 1996 using the MIL PER escalation factor from Table 5-4 , National Defense Budget Estimates for FY 1995. FY 94 = 98.14, FY 96 = 102.15, escalation factor = 102.15/98.14 = 1.0409. Round to 1.04

44,229 * 1.04 = $45,998.

5. VALIDATION PROCEDURE: See attached documentation.

I certify that the information supplied is accurate and complete to the best of my knowledge and belief.

Charles V. Fletcher
CHARLES V. FLETCHER
MAJ, GS
OPERATIONS ANALYST

STANDARD FACTOR #10
CIVILIAN SALARY

1. DESCRIPTION: The average annual salary, for government civilian employees. This is used to calculate costs/savings of changes in the size of the civilian workforce. (Allowed entries 0.00 to 99,999.99 $/Yr)

2. VALIDATED VALUE: $46,047. FY 96 dollars.

3. DATA SOURCE: See attached documentation. BRAC 93 Standard Factors. Average civilian salary from the FY 94 appropriations accounts, Direct U.S. Hire - subtotal U.S. Rate, This factor includes costs under the heading 'Total Military Function'. Included costs: Total Compensation
Basic Pay
~~Annualized~~ Overtime Pay
Holiday Pay
Other Pay
Total Benefits

a. DATE LAST UPDATED: September 1992

b. DATE OF NEXT UPDATE: Unk

1.0409

4. METHODOLOGY: Used the submitted number ($44,229) as the baseline for 1994 dollars, then inflated to 1996 using the MIL PER escalation factor from Table 5-4, National Defense Budget Estimates for FY 1995. FY 94 = 98.14, FY 96 = 102.15, escalation factor = 102.15/98.14 = 1.0411.

44,229 * 1.0411 = $46,047.

45,998

5. VALIDATION PROCEDURE: See attached documentation.

I certify that the information supplied is accurate and complete to the best of my knowledge and belief.

Charles V. Fletcher
CHARLES V. FLETCHER
MAJ, GS
OPERATIONS ANALYST

HQDADSS/CMOA S
CIVILIAN PERSONNEL COSTS
FY94-95 BUDGET ESTIMATE SUBMSN
(DOLLARS IN THOUSANDS)

OTAL MILITARY FUNCTION

All Appls

RUN DATE: 09/26/92
Version: 7

FY 1994

	***** STRENGTH ***** FTE BEGIN	FTE END	FTP	* WORKYEARS * TOTAL	FTP	BASIC COMP OC 11	OTIME PAY OC 11	HOLID PAY OC 11	OTHER OC 11	TOTAL VARIABLE	TOTAL COMP OC 11	TOTAL BENEFITS OC 12	TOTAL COMP + BENEFITS
. DIRECT HIRE CIVILIAN:													
A. U.S. EMPLOYEES:													
(1) CLASSIFIED & ADMIN													
(A) SENIOR EXECUTIVE	356	356	353	350	347	36600	0	0	1185	1185	37785	4812	42597
(B) GENERAL MERIT	12895	12989	12937	13062	13015	861361	4483	180	19452	24115	885476	136689	1022165
(C) GENERAL SCHEDULE	206047	201788	194279	202985	196008	6826671	189989	10472	144162	344623	7171294	1579327	8750621
(D) SPECIAL SCHEDULE	0	0	0	0	0	0	0	0	0	0	0	0	0
SUBTOTAL	219298	215133	207569	216397	209370	7724632	194472	10652	164799	369923	8094555	1720828	9815383
(RATE)						35.69656				0.04788	37.40603	0.22277	45.35821
(2) WAGE BOARD	49434	50190	49803	50829	50478	1540830	118741	3686	17507	139934	1680764	323111	2003875
(RATE)						30.31398				0.09081	33.06701	0.20969	39.42384
(3) OTHER	0	0	0	0	0	0	0	0	0	0	0	0	0
(RATE)						0.00000				0.00000	0.00000	0.00000	0.00000
SUBTOTAL U.S.	268732	265323	257372	267226	259848	9265462	313213	14338	182306	509857	9775319	2043939	11819258
(RATE)						34.67274				0.05502	36.58070	0.22059	44.22943
B. DH FOREIGN NATL	11807	11223	1232	11023	1183	187752	9240	1829	54934	66003	253755	59139	312894
(RATE)						17.03274				0.35154	23.02049	0.31498	28.38554
C. TOTAL DIRECT HIRE	280539	276546	258604	278249	261031	9453214	322453	16167	237240	575860	10029074	2103078	12132152
(RATE)						33.97392				0.06093	36.04351	0.22247	43.60177
D. DISADVANTAGED EMPL	0	0	0	0	0	0	0	0	0	0	0	0	0
(RATE)						0.00000				0.00000	0.00000	0.00000	0.00000
INDH FOREIGN NATIONAL	27490	22649	0	22362	0	797983	0	0	0	0	797983	0	797983
(RATE)						35.68476				0.00000	35.68476	0.00000	35.68476
FOR NAT SEP LIAB ACCU	0	0	0	0	0	0	0	0	0	0	0	47924	47924
A. DH FOREIGN NATIONAL	0	0	0	0	0	0	0	0	0	0	0	34457	34457
B. INDH FOREIGN NATIONA	0	0	0	0	0	0	0	0	0	0	0	13467	13467
BENE FORM EMPL(OC-13)	0	0	0	0	0	0	0	0	0	0	0	53736	53736
A. U.S. DIRECT HIRE	0	0	0	0	0	0	0	0	0	0	0	53736	53736
B. FOREIGN NATIONAL DH	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL CIVILIANS	308029	299195	258604	300611	261031	10251197	322453	16167	237240	575860	10827057	2204738	13031795
(RATE)						34.10119				0.05617	36.01683	0.21507	43.35101
REIMBURSABLE FUNDING													
A. US DIRECT HIRES	104330	102825	101557	104182	102957	3720151	183846	9718	85763	279327	3999478	747890	4747368
(HOST NATION CONTRIB)	( )	( )	( )	( )	( )	( )	( )	( )	( )	( )	( )	( )	( )
B. FOREIGN NATIONAL DH	3990	4604	88	4485	84	68495	3423	814	25456	29693	98188	37719	135907
(HOST NATION CONTRIB)	(2131)	(2603)	( )	(2603)	( )	(32575)	(1299)	(380)	( )	(1679)	(34254)	(15321)	(49575)
C. TOTAL DIRECT HIRES	108320	107429	101645	108667	103041	3788646	187269	10532	111219	309020	4097666	785609	4883275
(HOST NATION CONTRIB)	(2617)	(3248)	( )	(3220)	( )	(61911)	(2468)	(724)	( )	(3192)	(65103)	(29118)	(94221)
D. FOREIGN NATLS INDH	6265	6787	0	6748	0	212401	0	0	0	0	212401	6471	218872
(HOST NATION CONTRIB)	(3008)	(4361)	( )	(4255)	( )	(85824)	( )	( )	( )	( )	(85824)	(5927)	(91751)
E. TOTAL REIMB FUNDING	114585	114216	101645	115415	103041	4001047	187269	10532	111219	309020	4310067	792080	5102147
CIV PERS DIR FUNDING	193444	184979	156959	185196	157990	6250150	135184	5635	126021	266840	6516990	1412658	7929648
(RATE)						33.74882				0.04269	35.18968	0.22601	42.81759

EXHIBIT OP-8

STANDARD FACTOR #11
CIVILIAN TURNOVER

1. DESCRIPTION: The average percent of government civilian employees who normally leave their positions for reasons **not related to closure/realignment actions**. This is used to adjust the size of the civilian workforce for normal turnovers. (Allowed entries 0.00 to 100.00 percent/Yr)

2. VALIDATED VALUE: 15 Percent

3. DATA SOURCE: See attached documentation. BRAC 95 Policy Memo #1.

a. DATE LAST UPDATED: 31 May 1994.

b. DATE OF NEXT UPDATE: Unk

4. METHODOLOGY: BRAC 95 DoD Standard Factor used for all Military Departments.

5. VALIDATION PROCEDURE: See attached documentation.

I certify that the information supplied is accurate and complete to the best of my knowledge and belief.

Charles V. Fletcher
CHARLES V. FLETCHER
MAJ, .GS
OPERATIONS ANALYST

STANDARD FACTOR #12
CIVILIAN EARLY RETIREMENT

1. DESCRIPTION: The average percent of government civilian employees who retire early **as a result of closure/realignment actions**. This is used to adjust the size of the civilian workforce for early retirements, and to calculate early retirement costs. (Allowed entries 0.00 to 100.00 percent)

2. VALIDATED VALUE: 10%

3. DATA SOURCE: See attached documentation. BRAC 95 Policy Memo #1.

a. DATE LAST UPDATED: 31 May 1994

b. DATE OF NEXT UPDATE: Unk

4. METHODOLOGY: BRAC 95 DoD Standard Factor used for all Military Departments.

5. VALIDATION PROCEDURE: See attached documentation.

I certify that the information supplied is accurate and complete to the best of my knowledge and belief.

Charles V. Fletcher
CHARLES V. FLETCHER
MAJ, GS
OPERATIONS ANALYST

THE UNDER SECRETARY OF DEFENSE

3010 DEFENSE PENTAGON
WASHINGTON, DC 20301-3010

ACQUISITION AND TECHNOLOGY

MAY 31 1994

MEMORANDUM FOR SECRETARIES OF THE MILITARY DEPARTMENTS
CHAIRMAN OF THE JOINT CHIEFS OF STAFF
UNDER SECRETARIES OF DEFENSE
COMPTROLLER
DIRECTOR, DEFENSE RESEARCH AND ENGINEERING
ASSISTANT SECRETARIES OF DEFENSE
GENERAL COUNSEL
INSPECTOR GENERAL
DIRECTOR, OPERATIONAL TEST AND EVALUATION
ASSISTANTS TO THE SECRETARY OF DEFENSE
DIRECTOR OF ADMINISTRATION AND MANAGEMENT
DIRECTORS OF THE DEFENSE AGENCIES

SUBJECT: 1995 Base Realignments and Closures (BRAC 95) -- Policy Memorandum One

Background

Deputy Secretary of Defense memorandum of January 7, 1994, (attached) established policy, procedures, authorities, and responsibilities for selecting bases for realignment or closure under Public Law (P.L.) 101-510, as amended, for the 1995 base closure process (BRAC 95). This memorandum is the first in a series of Under Secretary of Defense for Acquisition and Technology (USD(A&T)) policy memoranda implementing the Deputy Secretary's BRAC 95 guidance.

Application of P.L. 101-510 Thresholds

This guidline amplifies the DepSecDef January 7, 1994, policy guidance on P.L. 101-510 numerical thresholds.

In determining whether the Act's numerical closure or realignment thresholds are met, independent actions that result in closures or realignments shall be considered separately. In other words, independent actions affecting an individual installation need not be aggregated to apply the numerical thresholds of the Act. However, closure or realignment actions shall not be broken into smaller increments for the purpose of avoiding application of the Act. Subject to the foregoing, independent closure or realignment actions that do not exceed the numerical thresholds set forth in the Act may proceed outside the established BRAC 95 process. Questions regarding whether or not proposed actions are independent should be referred to DoD Components' General Counsel.

Conversely, as the DoD Components review their base structure or conduct functional studies with base closure or realignment impacts, a determination must be made as to whether a comprehensive review or study impacting more than one installation should be considered a single action under P.L. 101-510. To be considered a single action, the review or study must:

(1) Result in the closure or realignment of at least one installation which would trigger the numerical thresholds of P.L. 101-510; and

(2) Involve inextricably linked elements, in that failure to proceed with any one element of the action would require reevaluation of the entire action.

Capacity/Military Value Analyses

An early step in BRAC 95 evaluations is determining whether a category/subcategory has potential excess capacity for the end state force levels contained in the Force Structure Plan. Should no excess capacity be found in a category/subcategory, there is no need to continue analyzing that portion of the base structure, unless there is a military value or other reason to continue the analysis (such as a cross-category opportunity to look at installations with similar capabilities, but in different categories). Bases in such categories/subcategories shall remain subject to joint cross-service review and remain available as potential receivers of missions or functions.

Conversely, if a DoD Component recommends a base for closure or realignment, the supporting analysis must have considered all bases within that category/subcategory, as well as cross-category opportunities. If, in applying the military value criteria, you find bases that are militarily/geographically unique or mission-essential (such that no other base could substitute for them) you may justify that fact and exclude these bases from further analysis. Bases so excluded shall remain subject to joint cross-service review and remain available as potential receivers of missions or functions.

Return on Investment (ROI)

Return on investment must be calculated, considered and reported with DoD Components' justifications for each recommended installation closure or realignment package. All costs and savings attributable over time to a closure or realignment package, subject to the below guidance, should be calculated, including costs or savings at receiving locations. Costs or savings elements that are identified, but determined to be insignificant, need not be calculated. However, DoD Component records should indicate that determination.

[redacted]

[redacted]

[redacted]

STANDARD FACTOR #12
CIVILIAN EARLY RETIREMENT

1. DESCRIPTION: The average percent of government civilian employees who retire early **as a result of closure/realignment actions**. This is used to adjust the size of the civilian workforce for early retirements, and to calculate early retirement costs. (Allowed entries 0.00 to 100.00 percent)

2. VALIDATED VALUE: 10%

3. DATA SOURCE: See attached documentation. BRAC 95 Policy Memo #1.

a. DATE LAST UPDATED: 31 May 1994

b. DATE OF NEXT UPDATE: Unk

4. METHODOLOGY: BRAC 95 DoD Standard Factor used for all Military Departments.

5. VALIDATION PROCEDURE: See attached documentation.

I certify that the information supplied is accurate and complete to the best of my knowledge and belief.

Charles V. Fletcher
CHARLES V. FLETCHER
MAJ, GS
OPERATIONS ANALYST

THE UNDER SECRETARY OF DEFENSE

3010 DEFENSE PENTAGON
WASHINGTON, DC 20301-3010

ACQUISITION AND TECHNOLOGY

MAY 31 1994

MEMORANDUM FOR SECRETARIES OF THE MILITARY DEPARTMENTS
CHAIRMAN OF THE JOINT CHIEFS OF STAFF
UNDER SECRETARIES OF DEFENSE
COMPTROLLER
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Conversely, as the DoD Components review their base structure or conduct functional studies with base closure or realignment impacts, a determination must be made as to whether a comprehensive review or study impacting more than one installation should be considered a single action under P.L. 101-510. To be considered a single action, the review or study must:

(1) Result in the closure or realignment of at least one installation which would trigger the numerical thresholds of P.L. 101-510; and

(2) Involve inextricably linked elements, in that failure to proceed with any one element of the action would require reevaluation of the entire action.

Capacity/Military Value Analyses

An early step in BRAC 95 evaluations is determining whether a category/subcategory has potential excess capacity for the end state force levels contained in the Force Structure Plan. Should no excess capacity be found in a category/subcategory, there is no need to continue analyzing that portion of the base structure, unless there is a military value or other reason to continue the analysis (such as a cross-category opportunity to look at installations with similar capabilities, but in different categories). Bases in such categories/subcategories shall remain subject to joint cross-service review and remain available as potential receivers of missions or functions.

Conversely, if a DoD Component recommends a base for closure or realignment, the supporting analysis must have considered all bases within that category/subcategory, as well as cross-category opportunities. If, in applying the military value criteria, you find bases that are militarily/geographically unique or mission-essential (such that no other base could substitute for them) you may justify that fact and exclude these bases from further analysis. Bases so excluded shall remain subject to joint cross-service review and remain available as potential receivers of missions or functions.

Return on Investment (ROI)

Return on investment must be calculated, considered and reported with DoD Components' justifications for each recommended installation closure or realignment package. All costs and savings attributable over time to a closure or realignment package, subject to the below guidance, should be calculated, including costs or savings at receiving locations. Costs or savings elements that are identified, but determined to be insignificant, need not be calculated. However, DoD Component records should indicate that determination.

The Cost of Base Realignment Actions (COBRA) model calculates return on investment. DepSecDef's January 7, 1994, policy memorandum requires the DoD Components to use the most current COBRA version, in order to ensure consistency in methodology. Although the model does not produce budget quality data, it uses standard cost factors and algorithms to estimate costs and savings over time which permit a consistent comparison of bases in a functional or installation category.

We recognize that DoD Component planning and accounting mechanisms are sufficiently different to warrant some Department/Agency specific standard cost factors in the COBRA model. DoD Component documentation must justify the use of such cost factors, particularly when performing cross-service analysis.

Specific instructions follow for the calculation of discount and inflation rates, health care costs, Homeowners Assistance Program, and savings for input to the COBRA model.

o Discount and Inflation Rates OMB Circular A-94 specifies the discount and inflation rates to be used in ROI calculations.

o Health Care Costs

oo CHAMPUS Costs Base closures and realignments can have an impact on CHAMPUS costs DoD-wide. These net cost impacts must be included in analysis of closures or realignments involving Military Treatment Facilities.

o Homeowners Assistance Program (HAP) The Secretary of the Army will provide each DoD Component with a list of installations that have a reasonable probability of having a HAP program approved, should the installations be selected for closure or realignment. HAP costs will be included for each of the installations so identified by the Secretary of the Army.

o Land Value Given existing law and practice regarding the disposal of real property, especially public benefit and economic development transfers, proceeds from the sale of land and facilities generally may not be realized. In cases where some proceeds can be expected, DoD Components must estimate the amount to be received for such real property. Estimated land and facility proceeds will generally be based on the anticipated reuse of the land and facilities, assuming appropriate zoning. Also, where an installation has unique contamination problems, a portion of the installation may have to be segregated from disposal so that community reuse may proceed on the balance. Estimated proceeds should be adjusted: for any such parceling, including discounting proceeds when sale of contaminated property is possible only after the cleanup remedy has been installed and

approved; for reduced prices where property is likely to be sold for restricted uses; or, when significant public benefit or economic development transfers are anticipated.

o Force Structure Savings The savings associated with force structure drawdowns shall not be included in the return on investment calculations. While declining force structure, as depicted in the required Force Structure Plan, will often be the underlying reason for recommending base closures or realignments, the savings associated with closing bases should generally be founded on the elimination of base operating support (BOS), infrastructure and related costs.

o Military Construction DoD Components will describe anticipated construction requirements (barracks square feet, etc.) to implement a BRAC recommendation and not actual projects. These requirements only become projects during the implementation phase after the 1995 Commission reports to the President and after installation site surveys are conducted and formal project documents (DD 1391s) are prepared.

o Construction Cost Avoidances Closing and realigning bases can result in construction cost avoidances. Cost avoidances should include FY96-01 programmed military and family housing construction that can be avoided at the closing or realigning bases, other than new-mission construction.

COBRA Model Assumptions

The following statements clarify certain cost assumptions written into the COBRA model:

o Local Moves Moves of less than 50 miles will not incur PCS moving costs.

o Priority Placement System Costs. Sixty percent of all employees will be placed in other jobs through the DoD Priority Placement Program. Fifty percent of all employees placed in other jobs through the Program will be relocated at government expense. These percentages are based on historical data.

o Employee Attrition and Turnover. Fifteen Percent of all employees will not need to be placed or severed due to normal attrition and turnover.

o Retirement Factors. Fifteen percent of all employees are eligible for retirement. Five percent of those are eligible for normal retirement and ten percent are eligible for early retirement.

o Homeowner's Assistance Program (HAP). The HAP home value rate is 22.9 percent. The HAP receiving rate is 5 percent.

o Students For the purposes of return on investment calculations, relocation of students will only impact the COBRA model's calculation of overhead costs, and as appropriate, estimates of military construction requirements.

Receiving Bases

DoD Components must identify receiving bases for large units or activities, including tenants, which are to be relocated from closing or realigning bases. Such relocations must be included in DoD Component's recommendations to the Secretary of Defense. The COBRA model will calculate the costs for relocating such units or activities. DoD Components do not need to identify specific receiving bases for units or tenants with less than 100 civilian/military employees. Finding homes for these activities can be left to execution. However, DoD Components should establish a generic "base x" within the COBRA model to act as the surrogate receiving base for the aggregation of these smaller units or activities, in order to ensure completeness of cost and savings calculations.

Reserve Enclaves

This expands on the DepSecDef January 7, 1994, policy guidance on Reserve Component impacts.

On each base designated for closure or realignment, the future of guard and reserve units of all Military Departments residing on or receiving support from that base must be considered. Once a decision has been made to include an enclave or to relocate guard and reserve units, the affected unit identifications must be included in the DoD Components' recommendations to the Secretary of Defense. Military construction and repair costs of fitting out an enclave for reserve component or guard use will be estimated and included as part of the return on investment calculations.

Noel Longuemare

R. Noel Longuemare
Principal Deputy Under Secretary of
Defense (Acquisition & Technology)

STANDARD FACTOR #13
CIVILIANS REGULAR RETIRE

1. DESCRIPTION: The average percent of government civilian employees expected to retire **as a result of closure/realignment actions**. This is used to adjust the size of the civilian workforce for personnel who take regular retirement. (Allowed entries 0.00 to 100.00 percent)

2. VALIDATED VALUE: 5 Percent

3. DATA SOURCE: See attached documentation. BRAC 95 Policy Memo #1.

a. DATE LAST UPDATED: 31 May 1994

b. DATE OF NEXT UPDATE: Unk

4. METHODOLOGY: BRAC 95 DoD Standard Factor used for all Military Departments.

5. VALIDATION PROCEDURE: See attached documentation.

I certify that the information supplied is accurate and complete to the best of my knowledge and belief.

Charles V. Fletcher
CHARLES V. FLETCHER
MAJ, GS
OPERATIONS ANALYST

ACQUISITION AND TECHNOLOGY

THE UNDER SECRETARY OF DEFENSE

3010 DEFENSE PENTAGON
WASHINGTON, DC 20301-3010

MAY 31 1994

MEMORANDUM FOR SECRETARIES OF THE MILITARY DEPARTMENTS
CHAIRMAN OF THE JOINT CHIEFS OF STAFF
UNDER SECRETARIES OF DEFENSE
COMPTROLLER
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SUBJECT: 1995 Base Realignments and Closures (BRAC 95) -- Policy Memorandum One

Background

Deputy Secretary of Defense memorandum of January 7, 1994, (attached) established policy, procedures, authorities, and responsibilities for selecting bases for realignment or closure under Public Law (P.L.) 101-510, as amended, for the 1995 base closure process (BRAC 95). This memorandum is the first in a series of Under Secretary of Defense for Acquisition and Technology (USD(A&T)) policy memoranda implementing the Deputy Secretary's BRAC 95 guidance.

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This guidline amplifies the DepSecDef January 7, 1994, policy guidance on P.L. 101-510 numerical thresholds.

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Conversely, as the DoD Components review their base structure or conduct functional studies with base closure or realignment impacts, a determination must be made as to whether a comprehensive review or study impacting more than one installation should be considered a single action under P.L. 101-510. To be considered a single action, the review or study must:

(1) Result in the closure or realignment of at least one installation which would trigger the numerical thresholds of P.L. 101-510; and

(2) Involve inextricably linked elements, in that failure to proceed with any one element of the action would require reevaluation of the entire action.

Capacity/Military Value Analyses

An early step in BRAC 95 evaluations is determining whether a category/subcategory has potential excess capacity for the end state force levels contained in the Force Structure Plan. Should no excess capacity be found in a category/subcategory, there is no need to continue analyzing that portion of the base structure, unless there is a military value or other reason to continue the analysis (such as a cross-category opportunity to look at installations with similar capabilities, but in different categories). Bases in such categories/subcategories shall remain subject to joint cross-service review and remain available as potential receivers of missions or functions.

Conversely, if a DoD Component recommends a base for closure or realignment, the supporting analysis must have considered all bases within that category/subcategory, as well as cross-category opportunities. If, in applying the military value criteria, you find bases that are militarily/geographically unique or mission-essential (such that no other base could substitute for them) you may justify that fact and exclude these bases from further analysis. Bases so excluded shall remain subject to joint cross-service review and remain available as potential receivers of missions or functions.

Return on Investment (ROI)

Return on investment must be calculated, considered and reported with DoD Components' justifications for each recommended installation closure or realignment package. All costs and savings attributable over time to a closure or realignment package, subject to the below guidance, should be calculated, including costs or savings at receiving locations. Costs or savings elements that are identified, but determined to be insignificant, need not be calculated. However, DoD Component records should indicate that determination.

The Cost of Base Realignment Actions (COBRA) model calculates return on investment. DepSecDef's January 7, 1994, policy memorandum requires the DoD Components to use the most current COBRA version, in order to ensure consistency in methodology. Although the model does not produce budget quality data, it uses standard cost factors and algorithms to estimate costs and savings over time which permit a consistent comparison of bases in a functional or installation category.

We recognize that DoD Component planning and accounting mechanisms are sufficiently different to warrant some Department/Agency specific standard cost factors in the COBRA model. DoD Component documentation must justify the use of such cost factors, particularly when performing cross-service analysis.

Specific instructions follow for the calculation of discount and inflation rates, health care costs, Homeowners Assistance Program, and savings for input to the COBRA model.

o Discount and Inflation Rates OMB Circular A-94 specifies the discount and inflation rates to be used in ROI calculations.

o Health Care Costs

oo CHAMPUS Costs Base closures and realignments can have an impact on CHAMPUS costs DoD-wide. These net cost impacts must be included in analysis of closures or realignments involving Military Treatment Facilities.

o Homeowners Assistance Program (HAP) The Secretary of the Army will provide each DoD Component with a list of installations that have a reasonable probability of having a HAP program approved, should the installations be selected for closure or realignment. HAP costs will be included for each of the installations so identified by the Secretary of the Army.

o Land Value Given existing law and practice regarding the disposal of real property, especially public benefit and economic development transfers, proceeds from the sale of land and facilities generally may not be realized. In cases where some proceeds can be expected, DoD Components must estimate the amount to be received for such real property. Estimated land and facility proceeds will generally be based on the anticipated reuse of the land and facilities, assuming appropriate zoning. Also, where an installation has unique contamination problems, a portion of the installation may have to be segregated from disposal so that community reuse may proceed on the balance. Estimated proceeds should be adjusted: for any such parceling, including discounting proceeds when sale of contaminated property is possible only after the cleanup remedy has been installed and

approved; for reduced prices where property is likely to be sold for restricted uses; or, when significant public benefit or economic development transfers are anticipated.

o Force Structure Savings The savings associated with force structure drawdowns shall not be included in the return on investment calculations. While declining force structure, as depicted in the required Force Structure Plan, will often be the underlying reason for recommending base closures or realignments, the savings associated with closing bases should generally be founded on the elimination of base operating support (BOS), infrastructure and related costs.

o Military Construction DoD Components will describe anticipated construction requirements (barracks square feet, etc.) to implement a BRAC recommendation and not actual projects. These requirements only become projects during the implementation phase after the 1995 Commission reports to the President and after installation site surveys are conducted and formal project documents (DD 1391s) are prepared.

o Construction Cost Avoidances Closing and realigning bases can result in construction cost avoidances. Cost avoidances should include FY96-01 programmed military and family housing construction that can be avoided at the closing or realigning bases, other than new-mission construction.

COBRA Model Assumptions

The following statements clarify certain cost assumptions written into the COBRA model:

o Local Moves Moves of less than 50 miles will not incur PCS moving costs.

o Priority Placement System Costs. Sixty percent of all employees will be placed in other jobs through the DoD Priority Placement Program. Fifty percent of all employees placed in other jobs through the Program will be relocated at government expense. These percentages are based on historical data.

o Employee Attrition and Turnover. Fifteen Percent of all employees will not need to be placed or severed due to normal attrition and turnover.

o Retirement Factors. Fifteen percent of all employees are eligible for retirement. Five percent of those are eligible for normal retirement and ten percent are eligible for early retirement.

o Homeowner's Assistance Program (HAP). The HAP home value rate is 22.9 percent. The HAP receiving rate is 5 percent.

o Students For the purposes of return on investment calculations, relocation of students will only impact the COBRA model's calculation of overhead costs, and as appropriate, estimates of military construction requirements.

Receiving Bases

DoD Components must identify receiving bases for large units or activities, including tenants, which are to be relocated from closing or realigning bases. Such relocations must be included in DoD Component's recommendations to the Secretary of Defense. The COBRA model will calculate the costs for relocating such units or activities. DoD Components do not need to identify specific receiving bases for units or tenants with less than 100 civilian/military employees. Finding homes for these activities can be left to execution. However, DoD Components should establish a generic "base x" within the COBRA model to act as the surrogate receiving base for the aggregation of these smaller units or activities, in order to ensure completeness of cost and savings calculations.

Reserve Enclaves

This expands on the DepSecDef January 7, 1994, policy guidance on Reserve Component impacts.

On each base designated for closure or realignment, the future of guard and reserve units of all Military Departments residing on or receiving support from that base must be considered. Once a decision has been made to include an enclave or to relocate guard and reserve units, the affected unit identifications must be included in the DoD Components' recommendations to the Secretary of Defense. Military construction and repair costs of fitting out an enclave for reserve component or guard use will be estimated and included as part of the return on investment calculations.

Noel Longuemare

R. Noel Longuemare
Principal Deputy Under Secretary of
Defense (Acquisition & Technology)

STANDARD FACTOR #14
CIVILIAN RIF PAY FACTOR

1. DESCRIPTION: The average percent of government civilian employee annual pay that will be paid as severance pay to those losing their jobs **as a result of Reduction In Force associated with the closure/realignment action**. (Allowed entries 0.00 to 100.00 percent)

2. VALIDATED VALUE: 34%

3. DATA SOURCE: See attached documentation. Air Force analysis of Department of Defense Manpower Data Center information. Civilian separation pay regulations as per Federal Personnel Guide. POC: Mr Steve Scovel, Air Force Cost Analysis Agency - 697-9406.

FACTORS GIVEN: Average Age of Population = 44 years.
Average Time of Service = 16 years.

a. DATE LAST UPDATED: June 1994.

b. DATE OF NEXT UPDATE: Unk

4. METHODOLOGY: See attached documentation.

I certify that the information supplied is accurate and complete to the best of my knowledge and belief.

Charles V. Fletcher
CHARLES V. FLETCHER
MAJ, GS
OPERATIONS ANALYST

Civilian RIF pay factor:

Only those not eligible for regular or discontinued service retirement (DSR) can be RIF'ed. RIF pay is capped at 52 weeks. The first step in calculation should be to eliminate all of the retirement eligibles in the population, 15-20%. If the total population average is 44, and the 20% who are eligible for some type of retirement average 52 years of age, the remaining population would average only 42.25. If the total population averages 16 years of service and the retirement eligibles average 24, the remaining population averages 14 years. Figuring a RIF percentage based on the remaining population will yeild:

Credit for first ten years, one week per year	10
additional service, two weeks per year, times 4	8
Basic Allowance (subtotal)	18
Times age adjustment (10% for every year after 40)	1.2
Total	21.6 weeks
Reduction (no benefits)	/1.206
Total RIF pay	34%

We should look at some actual demographics to determine the factors, but they will be much less than 50%. The above doesn't consider that those in the first three years of federal service have no eligiblility, or that the higher graded personnel with the greatest longevity are most likely to relocate, if given the opportunity.

STANDARD FACTOR #15
CIVILIAN RETIREMENT PAY

1. DESCRIPTION: The average percent of increase in government civilian retirement pay as a result of early retirements. This is used to calculate the costs of early retirements. (Allowed entries 0.00 to 100.00 percent)

2. VALIDATED VALUE: 9%

3. DATA SOURCE: See attached documentation. U.S. Office of Personnel Management, Office of the Actuaries (202) 606-2922.

   a. DATE LAST UPDATED: 22 July 1992.

   b. DATE OF NEXT UPDATE: Unk

4. METHODOLOGY: See attached documentation.

5. VALIDATION PROCEDURE. None Taken.

I certify that the information supplied is accurate and complete to the best of my knowledge and belief.

Charles V. Fletcher
CHARLES V. FLETCHER
MAJ, GS
OPERATIONS ANALYST

Extra Cost of Early Retirement

These figures for the cost of early retirement are based on the population of all employees who retired under voluntary early outs between 1975 and 1989. This population was projected over their expected future lifetime assuming both normal and early retirement under CSRS.

The average age at time of early retirement was 53.2. Voluntary retirement was projected to occur, on the average, at age 58.8 although first eligibility for normal retirement was attained at age 57.0.

The present value of early retirement benefits was divided by the payroll at the time of early retirement to get an average cost of early retirement of $9.262 per dollar of final salary.

The present value of the normal retirement benefits, determined as of the date of early retirement, resulted in a cost factor of $9.517 per dollar of final salary.

Thus the present value of early retirement benefits were less than the present value of normal retirement benefits by a factor of .255 (.255 = 9.517 - 9.262), or about 25 percent of final salary.

In determining the cost of early retirement, the present value of benefits under normal retirement should also be reduced by the present value of the 7 percent employee contributions payable from early to normal retirement. This present value was .343, and so the extra cost of early retirement is .088 (.088 = 9.262 - (9.517-.343)), or about 9 percent of final salary.

These cost estimates assume no replacement of the employees who retire early.

The Extra Cost of Early Retirement

The extra cost of early retirement is equal to the difference in the present value of benefits for early vs. normal retirement plus the value of the missing employee contributions.

The difference in the present value of benefits primarily depends on whether or not the increase in the amount of the annuity due to the extra service credit is offset by the reduction in the number of years the annuity is payable. Although the amount of the annuity under normal retirement is also increased by the general schedule increases during the period from early to normal retirement, the annuity under early retirement is increased by COLAs, so there is no net effect, since both increases are assumed to be 5 percent. The annuity under normal retirement is also increased by merit and longevity pay increases but these are relatively small at the applicable ages. In addition, the present value of benefits for early retirement is reduced because of the 2 percent reduction for each year under age 55.

The relative impact of receiving an annuity for a shorter period of time is greater for older ages at commencement, because the remaining lifespan is less, i.e., a reduction of 1 year in annuity payments has a greater relative impact for a 15-year expected payout than for a 20 year expected payout. Similarly 1 year of additional service is worth more, proportionately, if the total service is less. Thus, ignoring the age reduction, the cost of retiring 1 year early would be greater for older ages at retirement with higher amounts of service, and less for younger ages at retirement with lesser amounts of total service.

To illustrate this, the following table shows the present value of benefits as of the beginning of 1992 for a group of employees who are all age 50 with 20 years service in 1992. In the first case, they are assumed to retire immediately.* This is compared to cases where they all retire in 1 year at age 51 with 21 years service, and in 2 years, at age 52 with 22 years service, etc. The present values were determined as of age 50, using the valuation program and so they take into account such things as withdrawal rates, survivor benefits, disability benefits, merit and longevity pay increases, etc.

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*Retirement is actually assumed to occur in the middle of the year, so even in the case of immediate retirement, employees continue to work for one-half year.

Retirement At		Present Value of Benefits Expressed as a Multiple of Final Salary	
Age	Service	Assuming No Age Reduction	With the Age Reduction
50	20	7.751	7.062
51	21	7.923	7.380
52	22	8.066	7.673
53	23	8.182	7.945
54	24	8.275	8.196
55	25	8.365	8.365
56	26	8.394	8.394
57	27	8.388	8.388
58	28	8.357	8.357
59	29	8.310	8.310
60	30	8.282	8.282
61	31	8.239	8.239
62	32	8.179	8.179

This table shows that, even assuming no age reduction, the present values of benefits are actually less for earlier retirement, up to age 56, and then become greater for older ages.

The actual cost of early retirement, taking the present value of the missing employee contributions into account, is shown in the following table:

Retirement At		Present Value of Retirement Benefits Reduced by the Value of the Missing Employee Contributions, Expressed as a Multiple of Final Salary	
Age	Service	Assuming No Age Reduction	With the Age Reduction
50	20	7.717	7.028
51	21	7.820	7.277
52	22	7.896	7.503
53	23	7.946	7.709
54	24	7.975	7.896
55	25	8.002	8.002
56	26	7.969	7.969
57	27	7.903	7.903
58	28	7.814	7.814
59	29	7.711	7.711
60	30	7.629	7.629
61	31	7.533	7.533
62	32	7.420	7.420

This table shows that, even taking the missing employee contributions into account, it still costs less to retire a 50 year old employee with 20 years service early, up to age 55. There is even a small reduction in the present value of benefits in the case where no age reduction is assumed.

The following example shows a simplified calculation of the present value of retirement benefits for an employee who retirees at age 50 with 20 years service vs. age 51 with 21 years service using the present value factors for the alternative form of annuities. This calculation uses the present value factors that are used in the alternative annuity calculation. Although this methodology ignores survivor benefits and is not as precise as that done by the valuation program, it does show that the cost of early retirement is less at age 50.

Retirement at Age 50 with 20 Years Service

$40,000	High Three
x .3625	Factor for 20 Years Service
x .9	Age Reduction for Age 50
/12	Conversion to Monthly Annuity
x 257.6	Present Value of Annuity Factor
= $280,140	Present Value of Annuity for Age 50

Retirement at Age 51 with 21 Years Service

$40,000 x 1.059	High Three Increased by 5 Percent General Schedule Increase Plus .9 Percent Individual Merit and Longevity Increase
x .3825	Factor for 21 Years Service
x .92	Age Reduction for Age 51
/12	Conversion to Monthly Annuity
x 251.2	Present Value Factor for Age 51
/1.07	Discount for 1 Year's Interest
= $291,628	Present Value of Annuity Starting in 1 Year at Age 51

The present value of the 7 percent employee contributions payable from age 50 to age 51 would be about $3,036.

Present value of benefits minus present value of employee contributions.

= $291,628 - $3,036 = $288,592

STANDARD FACTOR #16
PRIORITY PLACEMENT

1. DESCRIPTION: The average percent of government civilian employees who receive other government jobs as a result of the Priority Placement System. (Allowed entries 0.00 to 100.00 percent)

2. VALIDATED VALUE: 60%

3. DATA SOURCE: See attached documentation. BRAC 95 Policy Memo #1.

   a. DATE LAST UPDATED: 31 May 1994

   b. DATE OF NEXT UPDATE: Unk

4. METHODOLOGY: BRAC 95 DoD Standard Factor used for all Military Departments.

5. VALIDATION PROCEDURE: See attached documentation.

STATEMENT OF CERTIFICATION:

I certify that the information supplied is accurate and complete to the best of my knowledge and belief.

Charles V. Fletcher
CHARLES V. FLETCHER
MAJ, GS
OPERATIONS ANALYST

STANDARD FACTOR #17
PPS INVOLVING PCS

1. DESCRIPTION: The percent of personnel who receive jobs through the Priority Placement System who must move more that 50 miles. This is used to calculate moving costs. (Allowed entries 0.00 to 100.00 percent)

2. VALIDATED VALUE: 50%

3. DATA SOURCE : See attached documentation. BRAC 95 Policy Memo #1.

   a. DATE LAST UPDATED : 31 May 1994

   b. DATE OF NEXT UPDATE : Unk

4. METHODOLOGY : BRAC 95 DoD Standard Factor used for all Military Departments.

5. VALIDATION PROCEDURE : See attached documentation.

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MAJ, GS
OPERATIONS ANALYST

THE UNDER SECRETARY OF DEFENSE

3010 DEFENSE PENTAGON
WASHINGTON, DC 20301-3010

ACQUISITION AND TECHNOLOGY

MAY 31 1994

MEMORANDUM FOR SECRETARIES OF THE MILITARY DEPARTMENTS
CHAIRMAN OF THE JOINT CHIEFS OF STAFF
UNDER SECRETARIES OF DEFENSE
COMPTROLLER
DIRECTOR, DEFENSE RESEARCH AND ENGINEERING
ASSISTANT SECRETARIES OF DEFENSE
GENERAL COUNSEL
INSPECTOR GENERAL
DIRECTOR, OPERATIONAL TEST AND EVALUATION
ASSISTANTS TO THE SECRETARY OF DEFENSE
DIRECTOR OF ADMINISTRATION AND MANAGEMENT
DIRECTORS OF THE DEFENSE AGENCIES

SUBJECT: 1995 Base Realignments and Closures (BRAC 95) -- Policy Memorandum One

Background

Deputy Secretary of Defense memorandum of January 7, 1994, (attached) established policy, procedures, authorities, and responsibilities for selecting bases for realignment or closure under Public Law (P.L.) 101-510, as amended, for the 1995 base closure process (BRAC 95). This memorandum is the first in a series of Under Secretary of Defense for Acquisition and Technology (USD(A&T)) policy memoranda implementing the Deputy Secretary's BRAC 95 guidance.

Application of P.L. 101-510 Thresholds

This guidline amplifies the DepSecDef January 7, 1994, policy guidance on P.L. 101-510 numerical thresholds.

In determining whether the Act's numerical closure or realignment thresholds are met, independent actions that result in closures or realignments shall be considered separately. In other words, independent actions affecting an individual installation need not be aggregated to apply the numerical thresholds of the Act. However, closure or realignment actions shall not be broken into smaller increments for the purpose of avoiding application of the Act. Subject to the foregoing, independent closure or realignment actions that do not exceed the numerical thresholds set forth in the Act may proceed outside the established BRAC 95 process. Questions regarding whether or not proposed actions are independent should be referred to DoD Components' General Counsel.

Conversely, as the DoD Components review their base structure or conduct functional studies with base closure or realignment impacts, a determination must be made as to whether a comprehensive review or study impacting more than one installation should be considered a single action under P.L. 101-510. To be considered a single action, the review or study must:

(1) Result in the closure or realignment of at least one installation which would trigger the numerical thresholds of P.L. 101-510; and

(2) Involve inextricably linked elements, in that failure to proceed with any one element of the action would require reevaluation of the entire action.

Capacity/Military Value Analyses

An early step in BRAC 95 evaluations is determining whether a category/subcategory has potential excess capacity for the end state force levels contained in the Force Structure Plan. Should no excess capacity be found in a category/subcategory, there is no need to continue analyzing that portion of the base structure, unless there is a military value or other reason to continue the analysis (such as a cross-category opportunity to look at installations with similar capabilities, but in different categories). Bases in such categories/subcategories shall remain subject to joint cross-service review and remain available as potential receivers of missions or functions.

Conversely, if a DoD Component recommends a base for closure or realignment, the supporting analysis must have considered all bases within that category/subcategory, as well as cross-category opportunities. If, in applying the military value criteria, you find bases that are militarily/geographically unique or mission-essential (such that no other base could substitute for them) you may justify that fact and exclude these bases from further analysis. Bases so excluded shall remain subject to joint cross-service review and remain available as potential receivers of missions or functions.

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Specific instructions follow for the calculation of disc and inflation rates, health care costs, Homeowners Assistance Program, and savings for input to the COBRA model.

o <u>Discount and Inflation Rates</u> OMB Circular A-94 specifies the discount and inflation rates to be used in ROI calculations.

o <u>Health Care Costs</u>

oo <u>CHAMPUS Costs</u> Base closures and realignments c have an impact on CHAMPUS costs DoD-wide. These net cost impa must be included in analysis of closures or realignments involving Military Treatment Facilities.

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The following statements clarify certain cost assumptions written into the COBRA model:

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o Employee Attrition and Turnover. Fifteen Percent of all employees will not need to be placed or severed due to normal attrition and turnover.

o Retirement Factors. Fifteen percent of all employees are eligible for retirement. Five percent of those are eligible for normal retirement and ten percent are eligible for early retirement.

o Homeowner's Assistance Program (HAP). The HAP home value rate is 22.9 percent. The HAP receiving rate is 5 percent.

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Noel Longuemare

R. Noel Longuemare
Principal Deputy Under Secretary of
Defense (Acquisition & Technology)

STANDARD FACTOR #18
CIVILIAN PCS COST

1. DESCRIPTION: The average cost of relocating a government civilian employee to a new location, who has received a job through the Priority Placement System (if the move is over 50 miles). An average Permanent Change of Station cost is used since PPS placements will result in relocations to undetermined locations. (Allowed entries 0.00 to 99,999.99 $).

2. VALIDATED VALUE: $28,576 FY 96 dollars.

3. DATA SOURCE:

   a. DATE LAST UPDATED: 28 July 1994.

   b. DATE OF NEXT UPDATE: Unk

4. METHODOLOGY: Used the submitted DARSE total expenses ($25,226.02)as the baseline for 1991 dollars, then inflated to 1996 using the GRAND TOTAL factor from Table 5-4 , National Defense Budget Estimates for FY 1995. FY 9 = 90.60, FY 96 = 102.63, escalation factor =

102.63/90.60 = 1.1328.

25,226.02 * 1.1328 = $28,576.

5. VALIDATION PROCEDURE: See attached documentation.

I certify that the information supplied is accurate and complete to the best of my knowledge and belief.

Charles V. Fletcher
CHARLES V. FLETCHER
MAJ, GS
OPERATIONS ANALYST

[redacted]

[redacted]

[redacted]

$28,800

COBRA REALIGNMENT SUMMARY (COBRA v5.0A*P)
Data As Of 07:25 09/13/1994, Report Created 10:05 10/03/1994

Department : ARMY
Option Package : CIV PCS
Scenario File : C:\COBRA\CIVMOV.CBR
Std Fctrs File : C:\COBRA\CIVMOV.SFF

Starting Year : 1996
Final Year : 1996
ROI Year : Never

NPV in 2015($K): 51,133
1-Time Cost($K): 28,880

Net Costs ($K) Constant Dollars

	1996	1997	1998	1999	2000	2001	Total	Beyond
MilCon	0	0	0	0	0	0	0	0
Person	0	0	0	0	0	0	0	0
Overhd	1,467	1,467	1,467	1,467	1,467	1,467	8,802	1,467
Moving	27,295	0	0	0	0	0	27,295	0
Missio	0	0	0	0	0	0	0	0
Other	1,584	0	0	0	0	0	1,584	0
TOTAL	30,347	1,467	1,467	1,467	1,467	1,467	37,681	1,467

	1996	1997	1998	1999	2000	2001	TOTAL
POSITIONS ELIMINATED							
Officers	0	0	0	0	0	0	0
Enlisted	0	0	0	0	0	0	0
Civilians	0	0	0	0	0	0	0
TOTAL	0	0	0	0	0	0	0
POSITIONS REALIGNED							
Officers	0	0	0	0	0	0	0
Enlisted	0	0	0	0	0	0	0
Students	0	0	0	0	0	0	0
Civilians	1,000	0	0	0	0	0	1,000
TOTAL	1,000	0	0	0	0	0	1,000

Summary:

CALCULATION OF PCS EXPENSES FOR CIVILIANS MOVING TO BASE X.

COBRA REALIGNMENT SUMMARY (COBRA v5.0A*P) - Page 2
Data As Of 07:25 09/13/1994, Report Created 10:05 10/03/1994

Department : ARMY
Option Package : CIV PCS
Scenario File : C:\COBRA\CIVMOV.CBR
Std Fctrs File : C:\COBRA\CIVMOV.SFF

Costs ($K) Constant Dollars

	1996	1997	1998	1999	2000	2001	Total	Beyond
MilCon	0	0	0	0	0	0	0	0
Person	0	0	0	0	0	0	0	0
Overhd	1,467	1,467	1,467	1,467	1,467	1,467	8,802	1,467
Moving	27,295	0	0	0	0	0	27,295	0
Missio	0	0	0	0	0	0	0	0
Other	1,584	0	0	0	0	0	1,584	0
TOTAL	30,347	1,467	1,467	1,467	1,467	1,467	37,681	1,467

Savings ($K) Constant Dollars

	1996	1997	1998	1999	2000	2001	Total	Beyond
MilCon	0	0	0	0	0	0	0	0
Person	0	0	0	0	0	0	0	0
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	0	0	0	0	0	0

PERSONNEL YEARLY PERCENTAGES (COBRA v5.0A*P)
Data As Of 07:25 09/13/1994, Report Created 10:05 10/03/1994

Department : ARMY
Option Package : CIV PCS
Scenario File : C:\COBRA\CIVMOV.CBR
Std Fctrs File : C:\COBRA\CIVMOV.SFF

Base: NOTIONAL BASE #1, US

	Moving In		MilCon	Move Out/Elim		ShutDn
Year	Total	Percent	TimPhas	Total	Percent	TimPhas
1996	0	0.00%	33.33%	1,000	100.00%	100.00%
1997	0	0.00%	16.67%	0	0.00%	0.00%
1998	0	0.00%	16.67%	0	0.00%	0.00%
1999	0	0.00%	16.67%	0	0.00%	0.00%
2000	0	0.00%	16.67%	0	0.00%	0.00%
2001	0	0.00%	0.00%	0	0.00%	0.00%
TOTALS	0	0.00%	100.00%	1000	100.00%	100.00%

Base: BASE X, US

	Moving In		MilCon	Move Out/Elim		ShutDn
Year	Total	Percent	TimPhas	Total	Percent	TimPhas
1996	1,000	100.00%	100.00%	0	0.00%	16.67%
1997	0	0.00%	0.00%	0	0.00%	16.67%
1998	0	0.00%	0.00%	0	0.00%	16.67%
1999	0	0.00%	0.00%	0	0.00%	16.67%
2000	0	0.00%	0.00%	0	0.00%	16.67%
2001	0	0.00%	0.00%	0	0.00%	16.67%
TOTALS	1000	100.00%	100.00%	0	0.00%	100.00%

TOTAL APPROPRIATIONS DETAIL REPORT (COBRA v5.0A*P)
Data As Of 07:25 09/13/1994, Report Created 10:05 10/03/1994

Department : ARMY
Option Package : CIV PCS
Scenario File : C:\COBRA\CIVMOV.CBR
Std Fctrs File : C:\COBRA\CIVMOV.SFF

ONE-TIME COSTS -----($K)-----	1996	1997	1998	1999	2000	2001	Total
CONSTRUCTION							
MILCON	0	0	0	0	0	0	0
Fam Housing	0	0	0	0	0	0	0
Land Purch	0	0	0	0	0	0	0
O&M							
CIV SALARY							
Civ RIF	0	0	0	0	0	0	0
Civ Retire	0	0	0	0	0	0	0
CIV MOVING							
Per Diem	2,398	0	0	0	0	0	2,398
POV Miles	180	0	0	0	0	0	180
Home Purch	10,195	0	0	0	0	0	10,195
HHG	7,110	0	0	0	0	0	7,110
Misc	700	0	0	0	0	0	700
House Hunt	2,077	0	0	0	0	0	2,077
PPS	0	0	0	0	0	0	0
RITA	4,354	0	0	0	0	0	4,354
FREIGHT							
Packing	248	0	0	0	0	0	248
Freight	32	0	0	0	0	0	32
Vehicles	0	0	0	0	0	0	0
Driving	0	0	0	0	0	0	0
Unemployment	0	0	0	0	0	0	0
OTHER							
Program Plan	0	0	0	0	0	0	0
Shutdown	0	0	0	0	0	0	0
New Hire	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	1,584	0	0	0	0	0	1,584
Environmental	0	0	0	0	0	0	0
Info Manage	0	0	0	0	0	0	0
1-Time Other	0	0	0	0	0	0	0
TOTAL ONE-TIME	28,880	0	0	0	0	0	28,880

TOTAL APPROPRIATIONS DETAIL REPORT (COBRA v5.0A*P) - Page 2
Data As Of 07:25 09/13/1994, Report Created 10:05 10/03/1994

Department : ARMY
Option Package : CIV PCS
Scenario File : C:\COBRA\CIVMOV.CBR
Std Fctrs File : C:\COBRA\CIVMOV.SFF

RECURRINGCOSTS -----($K)-----	1996	1997	1998	1999	2000	2001	Total	Beyond
FAM HOUSE OPS	0	0	0	0	0	0	0	0
O&M								
RPMA	0	0	0	0	0	0	0	0
BOS	1,467	1,467	1,467	1,467	1,467	1,467	8,802	1,467
Unique Operat	0	0	0	0	0	0	0	0
Civ Salary	0	0	0	0	0	0	0	0
CHAMPUS	0	0	0	0	0	0	0	0
Caretaker	0	0	0	0	0	0	0	0
MIL PERSONNEL								
Off Salary	0	0	0	0	0	0	0	0
Enl Salary	0	0	0	0	0	0	0	0
House Allow	0	0	0	0	0	0	0	0
OTHER								
Mission	0	0	0	0	0	0	0	0
Misc Recur	0	0	0	0	0	0	0	0
Unique Other	0	0	0	0	0	0	0	0
TOTAL RECUR	1,467	1,467	1,467	1,467	1,467	1,467	8,802	1,467
TOTAL COST	30,347	1,467	1,467	1,467	1,467	1,467	37,681	1,467

ONE-TIME SAVES -----($K)-----	1996	1997	1998	1999	2000	2001	Total
CONSTRUCTION							
MILCON	0	0	0	0	0	0	0
Fam Housing	0	0	0	0	0	0	0
O&M							
1-Time Move	0	0	0	0	0	0	0
MIL PERSONNEL							
Mil Moving	0	0	0	0	0	0	0
OTHER							
Land Sales	0	0	0	0	0	0	0
Environmental	0	0	0	0	0	0	0
1-Time Other	0	0	0	0	0	0	0
TOTAL ONE-TIME	0	0	0	0	0	0	0

RECURRINGSAVES -----($K)-----	1996	1997	1998	1999	2000	2001	Total	Beyond
FAM HOUSE OPS	0	0	0	0	0	0	0	0
O&M								
RPMA	0	0	0	0	0	0	0	0
BOS	0	0	0	0	0	0	0	0
Unique Operat	0	0	0	0	0	0	0	0
Civ Salary	0	0	0	0	0	0	0	0
CHAMPUS	0	0	0	0	0	0	0	0
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	0	0	0	0	0	0	0	0
Misc Recur	0	0	0	0	0	0	0	0
Unique Other	0	0	0	0	0	0	0	0
TOTAL RECUR	0	0	0	0	0	0	0	0
TOTAL SAVINGS	0	0	0	0	0	0	0	0

TOTAL APPROPRIATIONS DETAIL REPORT (COBRA v5.0A*P) - Page 3
Data As Of 07:25 09/13/1994, Report Created 10:05 10/03/1994

Department : ARMY
Option Package : CIV PCS
Scenario File : C:\COBRA\CIVMOV.CBR
Std Fctrs File : C:\COBRA\CIVMOV.SFF

ONE-TIME NET -----($K)-----	1996	1997	1998	1999	2000	2001	Total
CONSTRUCTION							
MILCON	0	0	0	0	0	0	0
Fam Housing	0	0	0	0	0	0	0
O&M							
Civ Retir/RIF	0	0	0	0	0	0	0
Civ Moving	27,295	0	0	0	0	0	27,295
Other	0	0	0	0	0	0	0
MIL PERSONNEL							
Mil Moving	0	0	0	0	0	0	0
OTHER							
HAP / RSE	1,584	0	0	0	0	0	1,584
Environmental	0	0	0	0	0	0	0
Info Manage	0	0	0	0	0	0	0
1-Time Other	0	0	0	0	0	0	0
Land	0	0	0	0	0	0	0
TOTAL ONE-TIME	28,880	0	0	0	0	0	28,880

RECURRING NET -----($K)-----	1996	1997	1998	1999	2000	2001	Total	Beyond
FAM HOUSE OPS	0	0	0	0	0	0	0	0
O&M								
RPMA	0	0	0	0	0	0	0	0
BOS	1,467	1,467	1,467	1,467	1,467	1,467	8,802	1,467
Unique Operat	0	0	0	0	0	0	0	0
Caretaker	0	0	0	0	0	0	0	0
Civ Salary	0	0	0	0	0	0	0	0
CHAMPUS	0	0	0	0	0	0	0	0
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	0	0	0	0	0	0	0	0
Misc Recur	0	0	0	0	0	0	0	0
Unique Other	0	0	0	0	0	0	0	0
TOTAL RECUR	1,467	1,467	1,467	1,467	1,467	1,467	8,802	1,467
TOTAL NET COST	30,347	1,467	1,467	1,467	1,467	1,467	37,681	1,467

Data As Of 07:25 09/13/1994, Report Created 10:05 10/03/1994

Department : ARMY
Option Package : CIV PCS
Scenario File : C:\COBRA\CIVMOV.CBR
Std Fctrs File : C:\COBRA\CIVMOV.SFF

Base: NOTIONAL BASE #1, US

ONE-TIME COSTS -----($K)-----	1996	1997	1998	1999	2000	2001	Total
CONSTRUCTION							
MILCON	0	0	0	0	0	0	0
Fam Housing	0	0	0	0	0	0	0
Land Purch	0	0	0	0	0	0	0
O&M							
CIV SALARY							
Civ RIFs	0	0	0	0	0	0	0
Civ Retire	0	0	0	0	0	0	0
CIV MOVING							
Per Diem	2,398	0	0	0	0	0	2,398
POV Miles	180	0	0	0	0	0	180
Home Purch	10,195	0	0	0	0	0	10,195
HHG	7,110	0	0	0	0	0	7,110
Misc	700	0	0	0	0	0	700
House Hunt	2,077	0	0	0	0	0	2,077
PPS	0	0	0	0	0	0	0
RITA	4,354	0	0	0	0	0	4,354
FREIGHT							
Packing	248	0	0	0	0	0	248
Freight	32	0	0	0	0	0	32
Vehicles	0	0	0	0	0	0	0
Driving	0	0	0	0	0	0	0
Unemployment	0	0	0	0	0	0	0
OTHER							
Program Plan	0	0	0	0	0	0	0
Shutdown	0	0	0	0	0	0	0
New Hires	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	1,584	0	0	0	0	0	1,584
Environmental	0	0	0	0	0	0	0
Info Manage	0	0	0	0	0	0	0
1-Time Other	0	0	0	0	0	0	0
TOTAL ONE-TIME	28,880	0	0	0	0	0	28,880

Data As Of 07:25 09/13/1994, Report Created 10:05 10/03/1994

Department : ARMY
Option Package : CIV PCS
Scenario File : C:\COBRA\CIVMOV.CBR
Std Fctrs File : C:\COBRA\CIVMOV.SFF

Base: NOTIONAL BASE #1, US

RECURRINGCOSTS -----($K)-----	1996	1997	1998	1999	2000	2001	Total	Beyond
FAM HOUSE OPS	0	0	0	0	0	0	0	0
O&M								
RPMA	0	0	0	0	0	0	0	0
BOS	0	0	0	0	0	0	0	0
Unique Operat	0	0	0	0	0	0	0	0
Civ Salary	0	0	0	0	0	0	0	0
CHAMPUS	0	0	0	0	0	0	0	0
Caretaker	0	0	0	0	0	0	0	0
MIL PERSONNEL								
Off Salary	0	0	0	0	0	0	0	0
Enl Salary	0	0	0	0	0	0	0	0
House Allow	0	0	0	0	0	0	0	0
OTHER								
Mission	0	0	0	0	0	0	0	0
Misc Recur	0	0	0	0	0	0	0	0
Unique Other	0	0	0	0	0	0	0	0
TOTAL RECUR	0	0	0	0	0	0	0	0
TOTAL COSTS	28,880	0	0	0	0	0	28,880	0

ONE-TIME SAVES -----($K)-----	1996	1997	1998	1999	2000	2001	Total
CONSTRUCTION							
MILCON	0	0	0	0	0	0	0
Fam Housing	0	0	0	0	0	0	0
O&M							
1-Time Move	0	0	0	0	0	0	0
MIL PERSONNEL							
Mil Moving	0	0	0	0	0	0	0
OTHER							
Land Sales	0	0	0	0	0	0	0
Environmental	0	0	0	0	0	0	0
1-Time Other	0	0	0	0	0	0	0
TOTAL ONE-TIME	0	0	0	0	0	0	0

RECURRINGSAVES -----($K)-----	1996	1997	1998	1999	2000	2001	Total	Beyond
FAM HOUSE OPS	0	0	0	0	0	0	0	0
O&M								
RPMA	0	0	0	0	0	0	0	0
BOS	0	0	0	0	0	0	0	0
Unique Operat	0	0	0	0	0	0	0	0
Civ Salary	0	0	0	0	0	0	0	0
CHAMPUS	0	0	0	0	0	0	0	0
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	0	0	0	0	0	0	0	0
Misc Recur	0	0	0	0	0	0	0	0
Unique Other	0	0	0	0	0	0	0	0
TOTAL RECUR	0	0	0	0	0	0	0	0
TOTAL SAVINGS	0	0	0	0	0	0	0	0

Data As Of 07:25 09/13/1994, Report Created 10:05 10/03/1994

Department : ARMY
Option Package : CIV PCS
Scenario File : C:\COBRA\CIVMOV.CBR
Std Fctrs File : C:\COBRA\CIVMOV.SFF

Base: NOTIONAL BASE #1, US

ONE-TIME NET -----($K)-----	1996	1997	1998	1999	2000	2001	Total
CONSTRUCTION							
MILCON	0	0	0	0	0	0	0
Fam Housing	0	0	0	0	0	0	0
O&M							
Civ Retir/RIF	0	0	0	0	0	0	0
Civ Moving	27,295	0	0	0	0	0	27,295
Other	0	0	0	0	0	0	0
MIL PERSONNEL							
Mil Moving	0	0	0	0	0	0	0
OTHER							
HAP / RSE	1,584	0	0	0	0	0	1,584
Environmental	0	0	0	0	0	0	0
Info Manage	0	0	0	0	0	0	0
1-Time Other	0	0	0	0	0	0	0
Land	0	0	0	0	0	0	0
TOTAL ONE-TIME	28,880	0	0	0	0	0	28,880

RECURRING NET -----($K)-----	1996	1997	1998	1999	2000	2001	Total	Beyond
FAM HOUSE OPS	0	0	0	0	0	0	0	0
O&M								
RPMA	0	0	0	0	0	0	0	0
BOS	0	0	0	0	0	0	0	0
Unique Operat	0	0	0	0	0	0	0	0
Caretaker	0	0	0	0	0	0	0	0
Civ Salary	0	0	0	0	0	0	0	0
CHAMPUS	0	0	0	0	0	0	0	0
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	0	0	0	0	0	0	0	0
Misc Recur	0	0	0	0	0	0	0	0
Unique Other	0	0	0	0	0	0	0	0
TOTAL RECUR	0	0	0	0	0	0	0	0
TOTAL NET COST	28,880	0	0	0	0	0	28,880	0

Data As Of 07:25 09/13/1994, Report Created 10:05 10/03/1994

Department : ARMY
Option Package : CIV PCS
Scenario File : C:\COBRA\CIVMOV.CBR
Std Fctrs File : C:\COBRA\CIVMOV.SFF

Base: BASE X, US

ONE-TIME COSTS -----($K)-----	1996	1997	1998	1999	2000	2001	Total
CONSTRUCTION							
MILCON	0	0	0	0	0	0	0
Fam Housing	0	0	0	0	0	0	0
Land Purch	0	0	0	0	0	0	0
O&M							
CIV SALARY							
Civ RIFs	0	0	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
PPS	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
Driving	0	0	0	0	0	0	0
Unemployment	0	0	0	0	0	0	0
OTHER							
Program Plan	0	0	0	0	0	0	0
Shutdown	0	0	0	0	0	0	0
New Hires	0	0	0	0	0	0	0
1-Time Move	0	0	0	0	0	0	0
MIL PERSONNEL							
MIL MOVING							
Per Diem	0	0	0	0	0	0	0
POV Miles	0	0	0	0	0	0	0
HHG	0	0	0	0	0	0	0
Misc	0	0	0	0	0	0	0
OTHER							
Elim PCS	0	0	0	0	0	0	0
OTHER							
HAP / RSE	0	0	0	0	0	0	0
Environmental	0	0	0	0	0	0	0
Info Manage	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

Data As Of 07:25 09/13/1994, Report Created 10:05 10/03/1994

Department : ARMY
Option Package : CIV PCS
Scenario File : C:\COBRA\CIVMOV.CBR
Std Fctrs File : C:\COBRA\CIVMOV.SFF

Base: BASE X, US

RECURRINGCOSTS -----($K)-----	1996	1997	1998	1999	2000	2001	Total	Beyond
FAM HOUSE OPS	0	0	0	0	0	0	0	0
O&M								
RPMA	0	0	0	0	0	0	0	0
BOS	1,467	1,467	1,467	1,467	1,467	1,467	8,802	1,467
Unique Operat	0	0	0	0	0	0	0	0
Civ Salary	0	0	0	0	0	0	0	0
CHAMPUS	0	0	0	0	0	0	0	0
Caretaker	0	0	0	0	0	0	0	0
MIL PERSONNEL								
Off Salary	0	0	0	0	0	0	0	0
Enl Salary	0	0	0	0	0	0	0	0
House Allow	0	0	0	0	0	0	0	0
OTHER								
Mission	0	0	0	0	0	0	0	0
Misc Recur	0	0	0	0	0	0	0	0
Unique Other	0	0	0	0	0	0	0	0
TOTAL RECUR	1,467	1,467	1,467	1,467	1,467	1,467	8,802	1,467
TOTAL COSTS	1,467	1,467	1,467	1,467	1,467	1,467	8,802	1,467

ONE-TIME SAVES -----($K)-----	1996	1997	1998	1999	2000	2001	Total
CONSTRUCTION							
MILCON	0	0	0	0	0	0	0
Fam Housing	0	0	0	0	0	0	0
O&M							
1-Time Move	0	0	0	0	0	0	0
MIL PERSONNEL							
Mil Moving	0	0	0	0	0	0	0
OTHER							
Land Sales	0	0	0	0	0	0	0
Environmental	0	0	0	0	0	0	0
1-Time Other	0	0	0	0	0	0	0
TOTAL ONE-TIME	0	0	0	0	0	0	0

RECURRINGSAVES -----($K)-----	1996	1997	1998	1999	2000	2001	Total	Beyond
FAM HOUSE OPS	0	0	0	0	0	0	0	0
O&M								
RPMA	0	0	0	0	0	0	0	0
BOS	0	0	0	0	0	0	0	0
Unique Operat	0	0	0	0	0	0	0	0
Civ Salary	0	0	0	0	0	0	0	0
CHAMPUS	0	0	0	0	0	0	0	0
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	0	0	0	0	0	0	0	0
Misc Recur	0	0	0	0	0	0	0	0
Unique Other	0	0	0	0	0	0	0	0
TOTAL RECUR	0	0	0	0	0	0	0	0
TOTAL SAVINGS	0	0	0	0	0	0	0	0

Data As Of 07:25 09/13/1994, Report Created 10:05 10/03/1994

Department : ARMY
Option Package : CIV PCS
Scenario File : C:\COBRA\CIVMOV.CBR
Std Fctrs File : C:\COBRA\CIVMOV.SFF

Base: BASE X, US

ONE-TIME NET -----($K)-----	1996	1997	1998	1999	2000	2001	Total
CONSTRUCTION	0	0	0	0	0	0	0
MILCON	0	0	0	0	0	0	0
Fam Housing	0	0	0	0	0	0	0
O&M	0	0	0	0	0	0	0
Civ Retir/RIF	0	0	0	0	0	0	0
Civ Moving	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0
MIL PERSONNEL	0	0	0	0	0	0	0
Mil Moving	0	0	0	0	0	0	0
OTHER	0	0	0	0	0	0	0
HAP / RSE	0	0	0	0	0	0	0
Environmental	0	0	0	0	0	0	0
Info Manage	0	0	0	0	0	0	0
1-Time Other	0	0	0	0	0	0	0
Land	0	0	0	0	0	0	0
TOTAL ONE-TIME	0	0	0	0	0	0	0

RECURRING NET -----($K)-----	1996	1997	1998	1999	2000	2001	Total	Beyond
FAM HOUSE OPS	0	0	0	0	0	0	0	0
O&M	0	1,467	1,467	1,467	1,467	1,467	8,802	1,467
RPMA	1,467	0	0	0	0	0	0	0
BOS	0	0	0	0	0	0	0	0
Unique Operat	0	0	0	0	0	0	0	0
Caretaker	0	0	0	0	0	0	0	0
Civ Salary	0	0	0	0	0	0	0	0
CHAMPUS	0	0	0	0	0	0	0	0
MIL PERSONNEL	0	0	0	0	0	0	0	0
Mil Salary	0	0	0	0	0	0	0	0
House Allow	0	0	0	0	0	0	0	0
OTHER	0	0	0	0	0	0	0	0
Procurement	0	0	0	0	0	0	0	0
Mission	0	0	0	0	0	0	0	0
Misc Recur	0	1,467	1,467	1,467	1,467	1,467	8,802	1,467
Unique Other	1,467	1,467	1,467	1,467	1,467	1,467	8,802	1,467
TOTAL RECUR	1,467							
TOTAL NET COST								

INPUT DATA REPORT (COBRA v5.0A*P)
Data As Of 07:25 09/13/1994, Report Created 10:05 10/03/1994

Department : ARMY
Option Package : CIV PCS
Scenario File : C:\COBRA\CIVMOV.CBR
Std Fctrs File : C:\COBRA\CIVMOV.SFF

INPUT SCREEN ONE - GENERAL SCENARIO INFORMATION

Model Year One : FY 1996

Model does Time-Phasing of Construction/Shutdown: Yes

Base Name	Strategy:
NOTIONAL BASE #1, US	Realignment
BASE X, US	Realignment

Summary:

CALCULATION OF PCS EXPENSES FOR CIVILIANS MOVING TO BASE X.

INPUT SCREEN TWO - DISTANCE TABLE

From Base:	To Base:	Distance:
NOTIONAL BASE #1, US	BASE X, US	1,000 mi

INPUT SCREEN THREE - MOVEMENT TABLE

Transfers from NOTIONAL BASE #1, US to BASE X, US

	1996	1997	1998	1999	2000	2001
Officer Positions:	0	0	0	0	0	0
Enlisted Positions:	0	0	0	0	0	0
Civilian Positions:	1,000	0	0	0	0	0
Student Positions:	0	0	0	0	0	0
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: NOTIONAL BASE #1, US

Total Officer Employees:	0	RPMA Non-Payroll ($K/Year):	0
Total Enlisted Employees:	0	Communications ($K/Year):	0
Total Student Employees:	0	BOS Non-Payroll ($K/Year):	0
Total Civilian Employees:	1,000	BOS Payroll ($K/Year):	0
Mil Families Living On Base:	0.0%	Family Housing ($K/Year):	0
Civilians Not Willing To Move:	0.0%	Area Cost Factor:	1.00
Officer Housing Units Avail:	0	CHAMPUS In-Pat ($/Visit):	0
Enlisted Housing Units Avail:	0	CHAMPUS Out-Pat ($/Visit):	0
Total Base Facilities(KSF):	0	CHAMPUS Shift to Medicare:	20.9%
Officer VHA ($/Month):	0	Activity Code:	
Enlisted VHA ($/Month):	0		
Per Diem Rate ($/Day):	0	Homeowner Assistance Program:	No
Freight Cost ($/Ton/Mile):	0.07	Unique Activity Information:	No

Department : ARMY
Option Package : CIV PCS
Scenario File : C:\COBRA\CIVMOV.CBR
Std Fctrs File : C:\COBRA\CIVMOV.SFF

INPUT SCREEN FOUR - STATIC BASE INFORMATION

Name: BASE X, US

Total Officer Employees:	892	RPMA Non-Payroll ($K/Year):	4,653
Total Enlisted Employees:	5,166	Communications ($K/Year):	1,080
Total Student Employees:	1,169	BOS Non-Payroll ($K/Year):	13,943
Total Civilian Employees:	3,014	BOS Payroll ($K/Year):	16,252
Mil Families Living On Base:	36.0%	Family Housing ($K/Year):	6,670
Civilians Not Willing To Move:	0.0%	Area Cost Factor:	1.02
Officer Housing Units Avail:	0	CHAMPUS In-Pat ($/Visit):	0
Enlisted Housing Units Avail:	0	CHAMPUS Out-Pat ($/Visit):	0
Total Base Facilities(KSF):	7,276	CHAMPUS Shift to Medicare:	0.0%
Officer VHA ($/Month):	108	Activity Code:	
Enlisted VHA ($/Month):	89		
Per Diem Rate ($/Day):	73	Homeowner Assistance Program:	No
Freight Cost ($/Ton/Mile):	0.09	Unique Activity Information:	No

INPUT SCREEN FIVE - DYNAMIC BASE INFORMATION

Name: NOTIONAL BASE #1, US

	1996	1997	1998	1999	2000	2001
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 ($K):	0	0	0	0	0	0
Misc Recurring Cost($K):	0	0	0	0	0	0
Misc Recurring Save($K):	0	0	0	0	0	0
Land (+Buy/-Sales) ($K):	0	0	0	0	0	0
Construction Schedule(%):	0%	0%	0%	0%	0%	0%
Shutdown Schedule (%):	0%	0%	0%	0%	0%	0%
MilCon Cost Avoidnc($K):	0	0	0	0	0	0
Fam Housing Avoidnc($K):	0	0	0	0	0	0
Procurement Avoidnc($K):	0	0	0	0	0	0
CHAMPUS In-Patients/Yr:	0	0	0	0	0	0
CHAMPUS Out-Patients/Yr:	0	0	0	0	0	0
Facil ShutDown(KSF):	0	Perc Family Housing ShutDown:				0.0%

Name: BASE X, US

	1996	1997	1998	1999	2000	2001
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 ($K):	0	0	0	0	0	0
Misc Recurring Cost($K):	0	0	0	0	0	0
Misc Recurring Save($K):	0	0	0	0	0	0
Land (+Buy/-Sales) ($K):	0	0	0	0	0	0
Construction Schedule(%):	0%	0%	0%	0%	0%	0%
Shutdown Schedule (%):	0%	0%	0%	0%	0%	0%
MilCon Cost Avoidnc($K):	0	0	0	0	0	0
Fam Housing Avoidnc($K):	0	0	0	0	0	0
Procurement Avoidnc($K):	0	0	0	0	0	0
CHAMPUS In-Patients/Yr:	0	0	0	0	0	0
CHAMPUS Out-Patients/Yr:	0	0	0	0	0	0
Facil ShutDown(KSF):	0	Perc Family Housing ShutDown:				0.0%

Data As Of 07:25 09/13/1994, Report Created 10:05 10/03/1994

Department : ARMY
Option Package : CIV PCS
Scenario File : C:\COBRA\CIVMOV.CBR
Std Fctrs File : C:\COBRA\CIVMOV.SFF

STANDARD FACTORS SCREEN ONE - PERSONNEL

Percent Officers Married:	74.00%	Civ Early Retire Pay Factor:	0.00%
Percent Enlisted Married:	55.50%	Priority Placement Service:	0.00%
Enlisted Housing MilCon:	82.00%	PPS Actions Involving PCS:	0.00%
Officer Salary($/Year):	77,068.00	Civilian PCS Costs ($):	0.00
Off BAQ with Dependents($):	7,717.00	Civilian New Hire Cost($):	1,109.00
Enlisted Salary($/Year):	34,120.00	Nat Median Home Price($):	114,600.00
Enl BAQ with Dependents($):	5,223.00	Home Sale Reimburse Rate:	5.00%
Avg Unemploy Cost($/Week):	174.00	Max Home Sale Reimburs($):	22,385.00
Unemployment Eligibility(Weeks):	18	Home Purch Reimburse Rate:	5.00%
Civilian Salary($/Year):	45,998.00	Max Home Purch Reimburs($):	11,919.00
Civilian Turnover Rate:	0.00%	Civilian Homeowning Rate:	64.00%
Civilian Early Retire Rate:	0.00%	HAP Home Value Reimburse Rate:	22.90%
Civilian Regular Retire Rate:	0.00%	HAP Homeowner Receiving Rate:	5.00%
Civilian RIF Pay Factor:	0.00%	RSE Home Value Reimburse Rate:	18.00%
SF File Desc:	brac95.sff	RSE Homeowner Receiving Rate:	12.00%

STANDARD FACTORS SCREEN TWO - FACILITIES

RPMA Building SF Cost Index:	1.00	Rehab vs. New MilCon Cost:	59.00%
BOS Index (RPMA vs population):	1.00	Info Management Account:	15.00%
(Indices are used as exponents)		MilCon Design Rate:	10.00%
Program Management Factor:	10.00%	MilCon SIOH Rate:	6.00%
Caretaker Admin(SF/Care):	162.00	MilCon Contingency Plan Rate:	7.00%
Mothball Cost ($/SF):	1.25	MilCon Site Preparation Rate:	24.00%
Avg Bachelor Quarters(SF):	388.00	Discount Rate for NPV.RPT/ROI:	2.75%
Avg Family Quarters(SF):	1,819.00	Inflation Rate for NPV.RPT/ROI:	0.00%

APPDET.RPT Inflation Rates:
1996: 2.90% 1997: 3.00% 1998: 3.00% 1999: 3.00% 2000: 3.00% 2001: 3.00%

STANDARD FACTORS SCREEN THREE - TRANSPORTATION

Material/Assigned Person(Lb):	710	Equip Pack & Crate($/Ton):	284.00
HHG Per Off Family (Lb):	14,500.00	Mil Light Vehicle($/Mile):	0.10
HHG Per Enl Family (Lb):	9,000.00	Heavy/Spec Vehicle($/Mile):	0.10
HHG Per Mil Single (Lb):	6,400.00	POV Reimbursement($/Mile):	0.18
HHG Per Civilian (Lb):	18,000.00	Avg Mil Tour Length (Years):	3.10
Total HHG Cost ($/100Lb):	35.00	Routine PCS($/Pers/Tour):	4,503.00
Air Transport ($/Pass Mile):	0.20	One-Time Off PCS Cost($):	6,202.00
Misc Exp ($/Direct Employ):	700.00	One-Time Enl PCS Cost($):	4,174.00

STANDARD FACTORS SCREEN FOUR - MILITARY CONSTRUCTION

Category	UM	$/UM	Category	UM	$/UM
Horizontal	(SY)	38	APPLIED INSTR	(SF)	114
Waterfront	(LF)	0	LABS (RDT&E)	(SF)	175
Air Operations	(SF)	130	CHILD CARE CENTER	(SF)	120
Operational	(SF)	119	PRODUCTION FAC	(SF)	100
Administrative	(SF)	106	PHYSICAL FITNESS FAC	(SF)	128
School Buildings	(SF)	104	Optional Category F	( )	0
Maintenance Shops	(SF)	108	Optional Category G	( )	0
Bachelor Quarters	(EA)	46,227	Optional Category H	( )	0
Family Quarters	(EA)	88,689	Optional Category I	( )	0
Covered Storage	(SF)	60	Optional Category J	( )	0
Dining Facilities	(SF)	180	Optional Category K	( )	0
Recreation Facilities	(SF)	0	Optional Category L	( )	0
Communications Facil	(SF)	0	Optional Category M	( )	0
Shipyard Maintenance	(SF)	0	Optional Category N	( )	0
RDT & E Facilities	(SF)	139	Optional Category O	( )	0
POL Storage	(BL)	0	Optional Category P	( )	0
Ammunition Storage	(SF)	0	Optional Category Q	( )	0
Medical Facilities	(SF)	0	Optional Category R	( )	0
Environmental	( )	0			

STANDARD FACTOR #18
CIVILIAN PCS COST
Change 1 - 26 Sep 1994

1. DESCRIPTION: The average cost of relocating a government civilian employee to a new location, who has received a job through the Priority Placement System (if the move is over 50 miles). An average Permanent Change of Station cost is used since PPS placements will result in relocations to undetermined locations. (Allowed entries 0.00 to 99,999.99 $).

2. VALIDATED VALUE: $20,947 96 dollars.

3. DATA SOURCE : BRAC 95 COBRA RUN

   a. DATE LAST UPDATED : 26 SEP 1994

   b. DATE OF NEXT UPDATE : Unk

4. METHODOLOGY : SEE ATTACHED DOCUMENTATION.

5. VALIDATION PROCEDURE : See attached documentation.

I certify that the information supplied is accurate and complete to the best of my knowledge and belief.

Charles V. Fletcher
CHARLES V. FLETCHER
MAJ, GS
OPERATIONS ANALYST

CIVILIAN FACTOR # 18
CIVILIAN PCS COST

1. DESCRIPTION: The average cost of relocating a government civilian employee to a new location, who has received a job through the Priority Placement System (if the move is over 50 miles). An average Permanent Change of Station cost is used since PPS placements will result in relocations to undetermined locations. (Allowed entries 0.00 to 99,999.99)

2. VALIDATED VALUE : $25,000 TO $26,000 Precise information on the average cost to move a civilian employee is not available.

3. DATA SOURCE : The validated value presented here is an estimate based on information derived from a Relocation Services Cost Model provided by the National Relocations Program Office in the Baltimore District of the Corps of Engineers. That office is responsible for management of the Relocation Services Program for all of the Department of Defense.

a. DATE LAST UPDATED : 1991

b. DATE OF NEXT UPDATE : 1996

4. METHODOLOGY : See attached.

5. VALIDATION PROCEDURE : See attached.

I certify that the information supplied is accurate and complete to the best of my knowledge and belief.

REMER W. GRINER
CHIEF, TECHNICAL SERVICES
BRANCH TAPC-CPF-O

DARSE COST MODEL

AVERAGE DARSE APPRAISED VALUE: $93,506.00
AVERAGE DARSE SALE PRICE: $91,687.00

AVERAGE PCS SALE PRICE: $87,297.79

EXPENSE	DARSE PROGRAM: CONTRACTOR EXPENSES	DARSE PROGRAM: GOV'T EXPENSES	PCS REIMBURSEMENT: GOV'T EXPENSES	PCS REIMBURSEMENT: EMPLOYEE EXPENSES [F]
SALES EXPENSES:				
APPRAISALS	included		included	
INSPECTIONS	included		included	
TITLE	included		included	
COMMISSION	included		included	
CLOSING	included		included	
BUYER CONCESSIONS	included			$300.00
POINTS	included			$1,746.00
MORTGAGE PAYMENT	included			$800.00
UTILITIES/MAINTENANCE	included			$200.00
PROPERTY TAX	included			$200.00
INSURANCE	included			$150.00
REPAIRS/IMPROVEMENTS	included			$200.00
LOSS ON SALE:	included [A]			$4,108.00
OVERHEAD/PROFIT:	included [B]			
REAL ESTATE SALE COST:	$16,601.06 [C]	$16,601.06	$7,061.01 [D]	$7,704.00
CANCELED/DELETED ORDERS:		$466.04		
NRFO ADMINISTRATIVE FEE:		$800.00	[E]	
TOTAL:		$17,867.10	$7,061.01	$7,704.00
TQ		$5,195.47	$6,426.92	
SIT		$787.68	$2,370.05	
RITA		$1,375.77	$2,077.63	
TOTAL COST:		**$25,226.02**	**$17,935.61**	**$7,704.00**

[A]Loss on sale is the average difference between appraised value and saleprice.
[B]Overhead/Profit is specified by contract for each price range.
[C]"Contractor Expenses" is average of random sample which results in a rate for this sample of 17.74% ($16,601.06)
[D]Average of expenses paid ($7,061.01) based on sample cases.
[E]PCS Reimbursement Administrative Cost unknown.
[F]Employee expenses using PCS reimbursement method are estimated.

SUBJECT: DARSE Cost Model

The Cost Comparison Model examines the difference between the cost of moving an employee with PCS entitlement and the cost of moving an employee with DARSE.

In the initial year of Relocation Services' Contract No. DACA31-91-D-0038, 83 Corps of Engineers employees relocated using DARSE. The breakdown of these employees is on the enclosed Chart 1. The NRPO selected 19 employees to use in the comparison; they were from various parts of the country and correspond to the percentages represented in Chart 1.

A copy of the DARSE Move Information Form completed with the employee name, appraised value, days in inventory, and payment to the contractor was sent to the CPO. We also sent a blank copy of the PCS Move Information Form to the CPO and asked them to select a PCS move comparable to the DARSE move in house sale price, location and date. After selecting the PCS employee the CPO sent both forms to FAO for the amount paid the employee for real estate expenses, temporary quarters/subsistence, storage in transit and relocation income tax allowance.

To determine the average DARSE Sale Price we divided the sum of the sale price of each of the 19 sample orders to get $91,487.00. Five houses were amended sales and did not have appraisals, therefore, we discarded them and determined the average DARSE Appraised Value by dividing the sum of the appraised value of each of the remaining 14 sample DARSE houses to get $93,596.00.

To determine the Loss on Sale of each house in inventory we subtracted the sale price from the appraised value, then divided this by the number of houses in the sample. This gave us an average Loss on Sale of $4,108.00.

The Overhead/Profit was determined by the contract. The results were as follows:

5	amended	3.31%
8	less than 90 days	5.41%
3	91 to 120 days	6.32%
1	121 to 150 days	7.52%
1	151 to 180 days	6.99%
1	more than 180 days	6.77%

The total Overhead/Profit is $4,932.51 (5.27% of the average appraised value of $93,596.00).

During the initial year of the contract there were twenty-two canceled, deleted, or expired orders. The total amount invoiced for these orders was $27,081.43. We then added $17,600 for the $800 administrative fee for each of the 22 orders. The total amount spent on

	rate		number	% of total	# in sample
Amended	12.5%	=	17	20%	5
0-90 days	19%	=	35	42%	8
91-120 days	23%	=	15	18%	3
121-150 days	27%	=	5	6%	1
151-180 days	28.75%	=	2	2%	1
180+ days	39%	=	9	11%	1
			83		19

(22 cancellations, deletions, or expirations)

PCS MOVE INFORMATION

	Sale Price	Real Estate Sale Expenses 1	Temporary Quarters/ Subsistence 2	Storage in Transit 3	RITA 4
1. ADAMS, P.	$68,500	$5,258.50	$2,000	0	$760
2. IRWIN, W.	$68,500	$4,806.05	$8,006.35	0	$1,460.06
3. HARRINGTON, J	$69,500	$5,168.40	$3,788.88	$106.00	$918.00
4. KELLY, M.	$65,000	$5,132.00	$3,654.81	$5,457.10	239.42
5. PARRY, V.	$90,000	$7,108.75	$4,778.32	$6,183.15	$1,896.81
6. BRIDGESTOCK,G	$185,000	$12,182.75	$6,980.13	$155.00	$2,621.48
7. MOLINA, T.	$140,000	$11,083.14	$949.81	0	$143.00
8. WEATHERBY, S	$69,000	$5,427.38	$6,425.57	0	$3,137.09
9. STELTS, C.	$68,500	$5,298.50	$11,618.67	$3,781.10	$3,973.48
10. MCNULTY, J.	$66,950	$10,953.50	$3,423.75	$7,066.09	$3,736.08
11. STOKES, D.	$65,000	$4,804.30	$3,028.85	$2,072.46	$4,080.88
12. COPPERTHITE,P	$100,000	$12,187.50	$6,418.57	0	$2,988.60
13. BRETT, D.	$67,900	$7,288.08	$6,438.00	$3,223.44	$1,312.85
14. CONNER, J.	$160,000	$10,189	$7,537	$4,886	$2,172
15. SILLIVANT, S	$65,000	$6,487.48	$4,898.00	0	$3,247.11
16. PEARCE, K.	$64,000	$4,474	$8,595.46	$150	$2,186.31
17. LEKSON, D.	$83,508	$5,411.48	$1,701.48	$110	$1,895.84
18. NOLAN, J.	$72,000	$5,824.00	$34,201.28	$8,719.78	$8,543.16
19. LANTZ, A.	$70,300	$5,132.25	$2,582.22	0	$1,404.03
AVERAGE	$87,297.79	$7,081.10	$6,426.92	$2,370.05	$2,077.63

PCS MOVE INFORMATION

	TOTAL	AVERAGE (of 19)
real estate sale expenses	$134,161.06	$7,061.10
temporary quarters/subsistence	122,111.50	6,426.92
storage in transit	45,030.93	2,370.05
relocation income tax allowance	39,475.04	2,077.63
		17,935.70

average appraised value $87,297.79

DARSE MOVE INFORMATION

	TOTAL	AVERAGE (of 19)
Payment to contractor	$316,560.23	$16,661.06
Temporary quarters/subsistence	98,713.95	5,195.47
Storage in transit	14,966.00	787.68
Relocation income tax allowance	26,139.59	1,375.77

average appraised value $93,595.58

DARSE MOVE INFORMATION

	Appraised Value	Payment to Contractor	Temporary Quarters/ Subsistence	Storage in Transit	RITA
1. Dunleany, M.	$ 62,116	$ 7,764.50	$ 1,856.25	0	$ 521.84
2. Clark, R.	132,500	16,562.50	13,301.49	0	0
3. Moore, B.	91,000	11,418.75	426.00	0	475.68
4. Barter, M.	128,850	16,106.25	492.50	0	370.76
5. Carr, P.	60,500	11,495.00	0	0	0
6. Lane, R.	73,500	9,187.50	23,100.00	4,008	8,062.33
7. Brummel, E.	104,500	13,062.50	5,020.61	837	658.12
8. Middleton, D.	206,400	30,216.00	2,592.21	1,238	3,025.44
9. Pearson, P.	152,450	28,968.50	2,475.00	0	5,191.13
10. Riesler, D.	98,750	13,062.50	2,483.95	0	446.15
11. Kelley, T.	142,000	26,950.00	4,475.00	5,832	1,040.00
12. Figgins, B.	58,500	11,115.00	18,554.30	357	5,410.75
13. Schjodt, S.	56,750	12,682.50	0	0	0
14. Testterman, S.	84,250	19,377.50	10,725.00	0	1,264.78
15. Marshall, R.	90,000	5,978.75	3,555.71		11.78
16. Chapin, S.	86,000	20,585.00	0	0	80.92
17. Waddle, J.	80,650	16,375.50	3,000.14	0	0
18. Archer, E.	46,000	13,225.00	3,177.79	3,003	944.93
19. Wojna, M.	60,000	23,400.00	3,455.00	0	638.01
AVERAGE	$95,565.55	$16,861.06	$5,195.47	$787.66	$1,375.77

STANDARD FACTOR #19
NEW HIRE COST
Change 1 - 26 Sep 1994

1. DESCRIPTION: The average cost to hire a new civilian employee. (Allowed entries 0.00 to 10,000.00 $)

2. VALIDATED VALUE: $1,109 FY 96 DOLLARS

3. DATA SOURCE : General Accounting Office, April 1993. MILITARY BASES: Analysis of DOD's Recommendations and Selection Process for Closures and Realignments.

a. DATE LAST UPDATED : Mar 1993

b. DATE OF NEXT UPDATE : NA

4. METHODOLOGY : The cost of hiring, training and placing new civilian employees is provided for by the current installation Civilian Personnel Offices. The Army is not able to isolate a seperate cost to hire civilians for BRAC actions or to break out a per capitia cost for hiring. In BRAC 93, the General Accounting ~~Agency~~ Office used $1,056 (in FY 94 dollars) to "check" the recommendations provided by the Services.

used $1,056 FY 94 * 1.05 (escalation factor) = $ 1,109.

5. VALIDATION PROCEDURE : See attached documentation.

I certify that the information supplied is accurate and complete to the best of my knowledge and belief.

Charles V. Fletcher

CHARLES V. FLETCHER
MAJ, IN
OPERATIONS ANALYST

Table 4.3: Recalculation of Components' Savings for Major Closure Recommendations

Service	DOD estimate	GAO estimate
Army NPV	$996,393,000	$967,751,000
Air Force NPV	2,043,602,000	1,854,401,000
Navy NPV	8,214,044,000	8,122,440,000
DLA NPV	1,570,290,000	941,407,000
Total NPV	$12,824,329,000	$11,885,999,000

Note: To estimate the one-time costs of these actions, we assumed that all civilian employees would receive 50 percent of their salary if subject to a reduction in force, that none of these employees would find positions in DOD or other federal agencies, and that any civilian hired due to a realignment would cost $1,056.

CERTAIN SAVINGS ESTIMATES ARE VERY SENSITIVE TO CHANGES IN CONSTRUCTION PROJECTIONS

We also tested the sensitivity of closure and realignment costs and savings to increases in military construction by reviewing the effect on estimates if construction costs were increased 100 percent. We found that while most estimates were not sensitive to this increase, a few were. Table 4.4 lists the closure and realignment estimates that were sensitive to the cost increase.

→ PROPONENT

STANDARD FACTOR #19
NEW HIRE COST

1. DESCRIPTION: The average cost to hire a new civilian employee. (Allowed entries 0.00 to 10,000.00 $)

2. VALIDATED VALUE: 0.0

3. DATA SOURCE : NONE

   a. DATE LAST UPDATED : NA

   b. DATE OF NEXT UPDATE : NA

4. METHODOLOGY : Except under unusual conditions (when bonuses are offered as an incentive to move), the cost of hiring, training and placing new civilian employees is already provided for by the current installation Civilian Personnel Offices. No increase in personnel or funding of CPOs is expect due to BRAC actions.

5. VALIDATION PROCEDURE : None taken.

I certify that the information supplied is accurate and complete to the best of my knowledge and belief.

Charles V. Fletcher
CHARLES V. FLETCHER
MAJ, IN
OPERATIONS ANALYST

?

1. DESCRIPTION: New Hire Cost: The average cost to hire a new civilian employee.

2. VALIDATED VALUE: Precise information on the average cost to hire a new civilian employee is not available. Our best estimate is that the average cost falls between $4,000 and $7,000.

3. DATA SOURCE:

a. DATE LAST UPDATED: UNKNOWN

b. DATE OF NEXT UPDATE: UNKNOWN

4. METHODOLOGY: Costs not available. We would have to gather data from all MACOMs and CPO's for a minimum of one fiscal quarter to provide an accurate figure. (1 day was not enough).

5. VALIDATION PROCEDURE: We sought better figures from a variety of sources, including the Office of Personnel Management, but discovered none.

STATEMENT OF CERTIFICATION:

The information supplied is accurate and complete to the best of my knowledge and belief.

JOHN J. FORD
Chief, Staffing Branch

STANDARD FACTOR #20
NATIONAL MEDIAN HOME PRICE

1. DESCRIPTION: The median home cost over the entire United States. This is adjusted by the base Area Cost Factor, and then used to calculate HAP and DARSE costs. (Allowed entries 0.00 to 2,500.00 $K)

2. VALIDATED VALUE: $ 114.6 (in thousands).

3. DATA SOURCE: Home Sales Prices for United States, 1993, National Association of Realtors, Research Division. POC: Glenn Crellin, phone (202) 383-1276. See attached documentation.

a. DATE LAST UPDATED: 1 July 1994.

b. DATE OF NEXT UPDATE: Unk

4. METHODOLOGY: Used the 1993 MEDIAN UNITED STATES value ($106,800) as the baseline for 1993 dollars, then inflated to 1996 using the GRAND TOTAL factor from Table 5-4, National Defense Budget Estimates for FY 1995. FY 93 = 95.64, FY 96 = 102.63, escalation factor =

102.63/95.64 = 1.0731.

106800 * 1.0731 = $114,607.

5. VALIDATION PROCEDURE: See attached documentation.

STATEMENT OF CERTIFICATION:

I certify that the information supplied is accurate and complete to the best of my knowledge and belief.

Charles V. Fletcher
CHARLES V. FLETCHER
MAJ, GS
OPERATIONS ANALYST

Existing Single-Family Home Sales

r		United States	Northeast	Midwest	South	West	United States	Northeast	Midwest	South	West	# of homes available for sales	Mos supply of homes on market
1991		3,220,000	479,000	840,000	1,199,000	702,000	•	•	•	•	•	2,140,000	•
1992		3,520,000	534,000	939,000	1,292,000	755,000	•	•	•	•	•	1,760,000	•
1993		3,802,000	571,000	1,007,000	1,416,000	808,000	•	•	•	•	•	1,520,000	•
		Seasonally Adjusted Annual Rate					Not Seasonally Adjusted						
1993	Jul	3,850,000	560,000	1,020,000	1,460,000	810,000	355,000	58,000	95,000	133,000	69,000	2,020,000	6.3
	Aug	3,860,000	600,000	970,000	1,460,000	830,000	370,000	64,000	93,000	137,000	77,000	2,070,000	6.6
	Sep	3,990,000	600,000	1,050,000	1,490,000	840,000	327,000	57,000	80,000	114,000	76,000	1,890,000	5.7
	Oct	4,030,000	590,000	1,070,000	1,470,000	900,000	337,000	55,000	84,000	114,000	83,000	2,000,000	5.9
	Nov	4,120,000	620,000	1,110,000	1,510,000	880,000	320,000	43,000	74,000	139,000	65,000	1,870,000	5.4
	Dec	4,350,000	650,000	1,160,000	1,590,000	950,000	313,000	42,000	78,000	123,000	70,000	1,520,000	4.0
1994	Jan	4,250,000	650,000	1,090,000	1,570,000	940,000	235,000	38,000	59,000	92,000	46,000	1,710,000	4.8
	Feb	3,840,000	590,000	920,000	1,420,000	900,000	240,000	32,000	67,000	87,000	53,000	1,800,000	5.6
	Mar	4,070,000	580,000	1,010,000	1,560,000	920,000	360,000	43,000	98,000	136,000	82,000	1,900,000	5.6
	Apr	4,120,000	570,000	1,040,000	1,540,000	970,000	372,000	48,000	102,000	139,000	82,000	1,930,000	5.6
	May	4,110,000	650,000	1,040,000	1,570,000	850,000	396,000	61,000	103,000	147,000	84,000	1,930,000	5.6
	Jun r	3,960,000	630,000	1,040,000	1,460,000	830,000	415,000	63,000	112,000	146,000	94,000	1,830,000	5.5
	Jul p	3,950,000	600,000	1,050,000	1,450,000	850,000	354,000	60,000	94,000	129,000	71,000	1,810,000	5.5

Sales Price of Existing Single-Family Homes

(Not Seasonally Adjusted)

Year		United States	Northeast	Midwest	South	West	United States	Northeast	Midwest	South	West
		Median					Average (Mean)				
1991		$100,300	$141,900	$77,800	$88,900	$147,200	$128,400	$166,800	$90,800	$112,300	$175,000
1992		103,700	140,000	81,700	92,100	143,800	130,900	165,100	95,200	116,500	175,100
1993		106,800	139,500	85,200	95,000	142,600	133,500	165,900	100,100	119,900	174,700
1993	Jul	$108,400	$142,500	$85,000	$98,100	$142,700	$135,800	$171,700	$99,600	$124,000	$175,700
	Aug	108,800	141,500	85,400	98,000	142,400	135,400	170,100	100,900	123,700	174,000
	Sep	107,200	138,100	84,700	95,800	143,100	133,600	164,300	100,800	120,000	175,300
	Oct	106,600	138,000	84,900	95,100	143,400	133,000	164,000	98,300	120,200	175,300
	Nov	107,100	140,700	85,500	95,700	140,400	133,100	165,900	101,000	119,400	172,600
	Dec	107,400	137,000	85,700	95,700	143,700	133,700	163,100	100,000	120,400	176,800
1994	Jan	107,900	139,500	85,600	95,800	144,400	134,600	167,200	100,500	122,400	174,700
	Feb	107,200	138,200	85,200	95,400	143,100	133,300	165,500	100,400	120,000	173,500
	Mar	107,600	140,600	85,600	94,100	145,700	134,400	166,600	100,100	119,200	179,300
	Apr	108,900	139,600	87,400	96,000	145,800	135,500	166,000	103,100	120,500	178,900
	May	109,800	138,400	87,000	97,100	148,600	136,600	164,600	102,100	122,600	182,300
	Jun r	112,800	141,800	89,300	100,300	150,000	140,900	170,700	105,600	126,600	187,000
	Jul p	111,500	140,200	89,000	97,200	149,200	138,600	168,000	105,900	123,100	183,700

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STANDARD FACTOR #21
HOME SALE REIMBURSEMENT RATE

1. DESCRIPTION: The maximum percent of home value allowed as a reimbursement for sale of a home due to PCS. (Allowed entries 0.00 to 100.00 percent)

2. VALIDATED VALUE: 10%

3. DATA SOURCE: JTR, VOL 2, CHAPTER 14, "Department of Defense Civilian Personnel".

   a. DATE LAST UPDATED: 1 OCT 1993

   b. DATE OF NEXT UPDATE: Unk

4. METHODOLOGY: See attached documentation.

5. VALIDATION PROCEDURE: None taken.

STATEMENT OF CERTIFICATION:

I certify that the information supplied is accurate and complete to the best of my knowledge and belief.

Charles V. Fletcher
CHARLES V. FLETCHER
MAJ, GS
OPERATIONS ANALYST

reimbursement may not exceed 3 months' interest on the loan balance.)

8. mortgage title insurance policy paid for by the employee on a residence purchased by the employee for the protection of, and required by, the lender;
9. owner's title insurance policy, provided it is a prerequisite to financing or the transfer of property; or the cost of the owner's title insurance policy is inseparable from the cost of other insurance, which is a prerequisite to financing or the transfer of property; and
10. expenses in connection with construction of a residence, which are comparable to expenses that are reimbursable in connection with the purchase of an existing residence.

(2) Nonreimbursable Items. Except as otherwise provided in subpar. (1), the following items of expense are not reimbursable:

1. owner's title insurance policy, "record title" insurance policy, mortgage insurance or insurance against loss or damage of property, and optional insurance paid for by the employee in connection with the purchase of a residence for the protection of the employee;
2. interest on loans, points, and mortgage discounts;
3. property taxes;
4. operating or maintenance costs;
5. no fee, cost, charge or expense determined to be part of the finance charge under the Truth in Lending Act, Title I, P.L. 90-321, and Regulation Z issued in accordance with P.L. 90-321 by the Board of Governors of the Federal Reserve System, unless specifically authorized in subpar. (1);
6. expenses that result from construction of a residence; and
7. VA funding fee (64 Comp. Gen. 674 (1985)).

e. Losses Due to Prices or Market Conditions at Old and New Duty Stations. Losses due to failure to sell a residence at the old duty station at the price asked, or at its current appraised value, or at its dwelling at the new duty station at a price comparable to the selling price of the residence at the old duty station, and any similar losses, are not reimbursable.

f. Other Expenses of Sale and Purchase of Residences. Incidental charges made for required services in selling and purchasing residences are reimbursable if they are customarily paid by the seller of a residence at the old duty station or if customarily paid by the purchaser of a residence at the new duty station, to the extent that they do not exceed amounts customarily charged in the locality of the residence.

g. Procedure and Claim Requirements. For procedure and claim requirements incident to reimbursement in connection with sale and/or purchase of a residence, see par. C14004.

Effective for those employees whose effective date of transfer is on or after 1 October 1993.

★ 2. LIMITATION OF REIMBURSEMENT. The total amount of expenses that may be reimbursed is as follows:

1. In connection with the sale of the residence at the old permanent duty station, reimbursement shall not exceed 10 percent of the actual sale price or $21,340, whichever is the lesser amount.
2. In connection with the purchase of a residence at the new permanent duty station, reimbursement shall not exceed 5 percent of the purchase price or $10,669, whichever is the lesser amount.

C14003 ALLOWABLE EXPENSES FOR SETTLEMENT OF UNEXPIRED LEASE

Expenses incurred for settling an unexpired lease (including month-to-month rental) on residence quarters occupied by the employee at the old duty station may include broker's fees for obtaining a sublease or charges for advertising an unexpired lease. Such expenses are reimbursable when:

1. applicable laws or the terms of the lease provide for payment of settlement expenses.

STANDARD FACTOR #22
HOME SALE REIMBURSEMENT
Change 1 - 26 Sep 1994

1. DESCRIPTION: The maximum reimbursement for home sales. (Allowed entries 0.00 to 25,000.00 $)

2. VALIDATED VALUE: $ 22,407 FY 96 dollars

3. DATA SOURCE : JTR, VOL 2, CHAPTER 14, "Department of Defense Civilian Personnel".

a. DATE LAST UPDATED : 1 OCT 1993.

b. DATE OF NEXT UPDATE : Unk

4. METHODOLOGY : Used the 1994 JTR value ($21,340) as the baseline for 1994 dollars, then inflated to 1996 using the GRAND TOTAL factor from Table 5-4 , National Defense Budget Estimates for FY 1995. FY 94 = 97.84, FY 96 = 102.63, escalation factor =

102.63/97.84 = 1.0490. ~~round to 1.05~~ No Rounding CHK 2

21340 * 1.05 = $22,407.

1.049 = $22,385

6. VALIDATION PROCEDURE : See attached documentation.

STATEMENT OF CERTIFICATION:

I certify that the information supplied is accurate and complete to the best of my knowledge and belief.

Charles V. Fletcher
CHARLES V. FLETCHER
MAJ, GS
OPERATIONS ANALYST

interest on the loan balance.)

8. mortgage title insurance policy paid for by the employee on a residence purchased by the employee for the protection of, and required by, the lender;
9. owner's title insurance policy, provided it is a prerequisite to financing or the transfer of property; or the cost of the owner's title insurance policy is inseparable from the cost of other insurance, which is a prerequisite to financing or the transfer of property; and
10. expenses in connection with construction of a residence, which are comparable to expenses that are reimbursable in connection with the purchase of an existing residence.

(2) Nonreimbursable Items. Except as otherwise provided in subpar. (1), the following items of expense are not reimbursable:

1. owner's title insurance policy, "record title" insurance policy, mortgage insurance or insurance against loss or damage of property, and optional insurance paid for by the employee in connection with the purchase of a residence for the protection of the employee;
2. interest on loans, points, and mortgage discounts;
3. property taxes;
4. operating or maintenance costs;
5. no fee, cost, charge or expense determined to be part of the finance charge under the Truth in Lending Act, Title I, P.L. 90-321, and Regulation Z issued in accordance with P.L. 90-321 by the Board of Governors of the Federal Reserve System, unless specifically authorized in subpar. (1);
6. expenses that result from construction of a residence; and
7. VA funding fee (64 Comp. Gen. 674 (1985)).

e. Losses Due to Prices or Market Conditions at Old and New Duty Stations. Losses due to failure to sell a residence at the old duty station at the price asked, or at its current appraised value, or at its [illegible] to the selling price of the residence at the old duty station, and any similar losses, are not reimbursable.

f. Other Expenses of Sale and Purchase of Residences. Incidental charges made for required services in selling and purchasing residences are reimbursable if they are customarily paid by the seller of a residence at the old duty station or if customarily paid by the purchaser of a residence at the new duty station, to the extent that they do not exceed amounts customarily charged in the locality of the residence.

g. Procedure and Claim Requirements. For procedure and claim requirements incident to reimbursement in connection with sale and/or purchase of a residence, see par. C14004.

Effective for those employees whose effective date of transfer is on or after 1 October 1993.

★ 2. LIMITATION OF REIMBURSEMENT. The total amount of expenses that may be reimbursed is as follows:

1. In connection with the sale of the residence at the old permanent duty station, reimbursement shall not exceed 10 percent of the actual sale price or $21,340, whichever is the lesser amount.
2. In connection with the purchase of a residence at the new permanent duty station, reimbursement shall not exceed 5 percent of the purchase price or $10,669, whichever is the lesser amount.

C14003 ALLOWABLE EXPENSES FOR SETTLEMENT OF UNEXPIRED LEASE

Expenses incurred for settling an unexpired lease (including month-to-month rental) on residence quarters occupied by the employee at the old duty station may include broker's fees for obtaining a sublease or charges for advertising an unexpired lease. Such expenses are reimbursable when:

1. applicable laws or the terms of the lease provide for payment of settlement expenses.

STANDARD FACTOR #22
HOME SALE REIMBURSEMENT

1. DESCRIPTION: The maximum reimbursement for home sales. (Allowed entries 0.00 to 25,000.00 $)

2. VALIDATED VALUE: $ 22,900 FY 96 dollars

3. DATA SOURCE: JTR, VOL 2, CHAPTER 14, "Department of Defense Civilian Personnel".

a. DATE LAST UPDATED: 1 OCT 1993.

b. DATE OF NEXT UPDATE: Unk

4. METHODOLOGY: Used the 1993 JTR value ($21,340) as the baseline for 1993 dollars, then inflated to 1996 using the GRAND TOTAL factor from Table 5-4 , National Defense Budget Estimates for FY 1995. FY 93 = 95.64, FY 96 = 102.63, escalation factor =

102.63/95.64 = 1.0731.

21340 * 1.0731 = $22,900.

6. VALIDATION PROCEDURE: See attached documentation.

STATEMENT OF CERTIFICATION:

I certify that the information supplied is accurate and complete to the best of my knowledge and belief.

Charles V. Fletcher
CHARLES V. FLETCHER
MAJ, GS
OPERATIONS ANALYST

STANDARD FACTOR #23
HOME SALE REIMBURSEMENT RATE

1. DESCRIPTION: The maximum percent of home purchase price that can be reimbursed for a PCS move. (Allowed entries 0.00 to 100.00 percent)

2. VALIDATED VALUE: 5%

3. DATA SOURCE: JTR, VOL 2, CHAPTER 14, "Department of Defense Civilian Personnel".

   a. DATE LAST UPDATED: 1 OCT 1993

   b. DATE OF NEXT UPDATE: Unk

5. METHODOLOGY: See attached documentation.

6. VALIDATION PROCEDURE: None taken.

STATEMENT OF CERTIFICATION:

I certify that the information supplied is accurate and complete to the best of my knowledge and belief.

Charles V. Fletcher
CHARLES V. FLETCHER
MAJ, GS
OPERATIONS ANALYST

interest on the loan balance.)

8. mortgage title insurance policy paid for by the employee on a residence purchased by the employee for the protection of, and required by, the lender;
9. owner's title insurance policy, provided it is a prerequisite to financing or the transfer of property; or the cost of the owner's title insurance policy is inseparable from the cost of other insurance, which is a prerequisite to financing or the transfer of property; and
10. expenses in connection with construction of a residence, which are comparable to expenses that are reimbursable in connection with the purchase of an existing residence.

(2) Nonreimbursable Items. Except as otherwise provided in subpar. (1), the following items of expense are not reimbursable:

1. owner's title insurance policy, "record title" insurance policy, mortgage insurance or insurance against loss or damage of property, and optional insurance paid for by the employee in connection with the purchase of a residence for the protection of the employee;
2. interest on loans, points, and mortgage discounts;
3. property taxes;
4. operating or maintenance costs;
5. no fee, cost, charge or expense determined to be part of the finance charge under the Truth in Lending Act, Title I, P.L. 90-321, and Regulation Z issued in accordance with P.L. 90-321 by the Board of Governors of the Federal Reserve System, unless specifically authorized in subpar. (1);
6. expenses that result from construction of a residence; and
7. VA funding fee (64 Comp. Gen. 674 (1985)).

e. Losses Due to Prices or Market Conditions at Old and New Duty Stations. Losses due to failure to sell a residence at the old duty station at the price asked, or at its current appraised value, or at its to the selling price of the residence at the old duty station, and any similar losses, are not reimbursable.

f. Other Expenses of Sale and Purchase of Residences. Incidental charges made for required services in selling and purchasing residences are reimbursable if they are customarily paid by the seller of a residence at the old duty station or if customarily paid by the purchaser of a residence at the new duty station, to the extent that they do not exceed amounts customarily charged in the locality of the residence.

g. Procedure and Claim Requirements. For procedure and claim requirements incident to reimbursement in connection with sale and/or purchase of a residence, see par. C14004.

Effective for those employees whose effective date of transfer is on or after 1 October 1993.

★ 2. LIMITATION OF REIMBURSEMENT. The total amount of expenses that may be reimbursed is as follows:

1. In connection with the sale of the residence at the old permanent duty station, reimbursement shall not exceed 10 percent of the actual sale price or $21,340, whichever is the lesser amount.
2. In connection with the purchase of a residence at the new permanent duty station, reimbursement shall not exceed 5 percent of the purchase price or $10,669, whichever is the lesser amount.

C14003 ALLOWABLE EXPENSES FOR SETTLEMENT OF UNEXPIRED LEASE

Expenses incurred for settling an unexpired lease (including month-to-month rental) on residence quarters occupied by the employee at the old duty station may include broker's fees for obtaining a sublease or charges for advertising an unexpired lease. Such expenses are reimbursable when:

1. applicable laws or the terms of the lease provide for payment of settlement expenses.

STANDARD FACTOR # 24
HOME SALE REIMBURSEMENT
Change 1 - 26 Sep 1994

1. DESCRIPTION: The maximum reimbursement for home purchase. (Allowed entries 0.00 to 25,000.00 $)

2. VALIDATED VALUE: $11,202 FY 96 Dollars.

3. DATA SOURCE : JTR, VOL 2, CHAPTER 14, "Department of Defense Civilian Personnel".

a. DATE LAST UPDATED : 1 OCT 1993

b. DATE OF NEXT UPDATE : Unk

5. METHODOLOGY : Used the 1994 JTR value ($10,669) as the baseline for 1994 dollars, then inflated to 1996 using the GRAND TOTAL factor from Table 5-4 , National Defense Budget Estimates for FY 1995. FY 94 = 97.84, FY 96 = 102.63, escalation factor =

102.63/97.84 = 1.049, ~~Round to 1.05~~ NO ROUNDING CHG 2

10669 * ~~1.05~~ = $11,202.

1.049 = $11,191.

6. VALIDATION PROCEDURE : See attached documentation.

STATEMENT OF CERTIFICATION:

I certify that the information supplied is accurate and complete to the best of my knowledge and belief.

Charles V. Fletcher
CHARLES V. FLETCHER
MAJ, GS
OPERATIONS ANALYST

STANDARD FACTOR # 24
HOME SALE REIMBURSEMENT

1. DESCRIPTION: The maximum reimbursement for home purchase. (Allowed entries 0.00 to 25,000.00 $)

2. VALIDATED VALUE: $11,449 FY 96 Dollars.

3. DATA SOURCE : JTR, VOL 2, CHAPTER 14, "Department of Defense Civilian Personnel".

a. DATE LAST UPDATED : 1 OCT 1993

b. DATE OF NEXT UPDATE : Unk

5. METHODOLOGY : Used the 1993 JTR value ($10,669) as the baseline for 1993 dollars, then inflated to 1996 using the GRAND TOTAL factor from Table 5-4 , National Defense Budget Estimates for FY 1995. FY 93 = 95.64, FY 96 = 102.63, escalation factor =

102.63/95.64 = 1.0731.

10669 * 1.0731 = $11,449.

6. VALIDATION PROCEDURE : See attached documentation.

STATEMENT OF CERTIFICATION:

I certify that the information supplied is accurate and complete to the best of my knowledge and belief.

Charles V. Fletcher
CHARLES V. FLETCHER
MAJ, GS
OPERATIONS ANALYST

reimbursement may not exceed 3 months' interest on the loan balance.)

8. mortgage title insurance policy paid for by the employee on a residence purchased by the employee for the protection of, and required by, the lender;
9. owner's title insurance policy, provided it is a prerequisite to financing or the transfer of property; or the cost of the owner's title insurance policy is inseparable from the cost of other insurance, which is a prerequisite to financing or the transfer of property; and
10. expenses in connection with construction of a residence, which are comparable to expenses that are reimbursable in connection with the purchase of an existing residence.

(2) Nonreimbursable Items. Except as otherwise provided in subpar. (1), the following items of expense are not reimbursable:

1. owner's title insurance policy, "record title" insurance policy, mortgage insurance or insurance against loss or damage of property, and optional insurance paid for by the employee in connection with the purchase of a residence for the protection of the employee;
2. interest on loans, points, and mortgage discounts;
3. property taxes;
4. operating or maintenance costs;
5. no fee, cost, charge or expense determined to be part of the finance charge under the Truth in Lending Act, Title I, P.L. 90-321, and Regulation Z issued in accordance with P.L. 90-321 by the Board of Governors of the Federal Reserve System, unless specifically authorized in subpar. (1);
6. expenses that result from construction of a residence; and
7. VA funding fee (64 Comp. Gen. 674 (1985)).

e. Losses Due to Prices or Market Conditions at Old and New Duty Stations. Losses due to failure to sell a residence at the old duty station at the price asked, or at its current appraised value, or at its dwelling at the new duty station at a price comparable to the selling price of the residence at the old duty station, and any similar losses, are not reimbursable.

f. Other Expenses of Sale and Purchase of Residences. Incidental charges made for required services in selling and purchasing residences are reimbursable if they are customarily paid by the seller of a residence at the old duty station or if customarily paid by the purchaser of a residence at the new duty station, to the extent that they do not exceed amounts customarily charged in the locality of the residence.

g. Procedure and Claim Requirements. For procedure and claim requirements incident to reimbursement in connection with sale and/or purchase of a residence, see par. C14004.

Effective for those employees whose effective date of transfer is on or after 1 October 1993.

★ 2. LIMITATION OF REIMBURSEMENT. The total amount of expenses that may be reimbursed is as follows:

1. In connection with the sale of the residence at the old permanent duty station, reimbursement shall not exceed 10 percent of the actual sale price or $21,340, whichever is the lesser amount.
2. In connection with the purchase of a residence at the new permanent duty station, reimbursement shall not exceed 5 percent of the purchase price or $10,669, whichever is the lesser amount.

C14003 ALLOWABLE EXPENSES FOR SETTLEMENT OF UNEXPIRED LEASE

Expenses incurred for settling an unexpired lease (including month-to-month rental) on residence quarters occupied by the employee at the old duty station may include broker's fees for obtaining a sublease or charges for advertising an unexpired lease. Such expenses are reimbursable when:

1. applicable laws or the terms of the lease provide for payment of settlement expenses.

STANDARD FACTOR #25
CIVILIAN HOMEOWNING RATE

1. DESCRIPTION: The average percent of government civilian employees who own their homes. (Allowed entries 0.00 to 100.00 percent)

2. VALIDATED VALUE: 64 %

3. DATA SOURCE: U.S. Census Bureau Report H-111, 94-Q2, Housing Vacancies and Homeownership Rates for the United States.

   a. DATE LAST UPDATED: Second Quarter 1994

   b. DATE OF NEXT UPDATE: Third Quarter 1994

4. METHODOLOGY: Used information based on second quarter 1994 statistics. See attached documentation.

5. VALIDATION PROCEDURE: See attached documentation.

STATEMENT OF CERTIFICATION:

I certify that the information supplied is accurate and complete to the best of my knowledge and belief.

Charles V. Fletcher
CHARLES V. FLETCHER
MAJ, GS
OPERATIONS ANALYST

FAX Transmittal
The Divsion of Housing and Demographic Analysis
Office of Economic Affairs
Office of Policy Development and Research

To: MAJOR CHUCK FLETCHER

FAX No. 703 693 9322
Phone No. 703 692 6262

From: DUANE McGOUGH

FAX No. 202-619-8000
Phone No. 202-708-1060

Message: DATA FROM CENSUS BUREAU REPORT H-111, 94-Q2
HOUSING VACANCIES AND HOMEOWNERSHIP RATES
FOR THE UNITED STATES

Room 8218 451 Seventh Street, SW Washington, DC 20410

During the second quarter 1994, 63.8 percent (±0.3) of all households in the United States were owner-occupied. The homeownership rate was not significantly different from the revised rate last quarter or the revised second quarter 1993 rate.

Table 4. HOMEOWNERSHIP RATES FOR THE UNITED STATES: 1980 to 1994

Year	Homeownership Rates[1]			
	First quarter	Second quarter	Third quarter	Fourth quarter
1994	63.8	63.8		
1993[r]	63.7	63.9	64.2	64.2
1993	64.2	64.4	64.7	64.6
1992	64.0	63.9	64.3	64.4
1991	63.9	63.9	64.2	64.2
1990	64.0	63.7	64.0	64.1
1989[r]	63.9	63.8	64.1	63.8
1989	63.9	63.9	64.0	63.8
1988	63.7	63.7	64.0	63.8
1987	63.8	63.8	64.2	64.1
1986	63.6	63.8	63.8	63.9
1985	64.1	64.1	63.9	63.5
1984	64.6	64.6	64.6	64.1
1983	64.7	64.7	64.8	64.4
1982	64.8	64.9	64.9	64.5
1981	65.6	65.3	65.6	65.2
1980	65.5	65.5	65.8	65.5

[1]Standard errors for quarterly homeownership rates for the United States generally are 0.2 percent.
[r]Revised.

The data in this release are the result of a sample survey and are, therefore, subject to sampling variability. For example, the standard error on the estimated rental vacancy rate of 7.4 is 0.2 percentage points. Consequently, the 90 percent confidence interval as shown by these data is from 7.1 to 7.7; i.e., the interval 7.4 ± (1.6 x 0.2) percentage points. Thus, one can say with about 90 percent confidence that the average estimate derived from all possible samples is included in this confidence interval. The 90 percent confidence intervals are shown in the text above for selected items. The standard errors for other figures in this release are given in the tables.

Hypothesis testing may be performed at various levels of significance, where a level of significance is the probability of concluding that the parameters are different when, in fact, they are identical. All statements of comparison in the text have passed a hypothesis test at the 0.10 level of significance. This means that, for differences cited in the text, the estimated difference between characteristics is greater than 1.6 times the standard error of the difference.

In addition to sampling error, the figures in this release, both the estimates and their standard errors, are also subject to nonsampling error.

STANDARD FACTOR #26
HAP HOME VALUE RATE

1. DESCRIPTION: This is the AVAERGE percent of house value that HAP will pay. HAP costs will be reported on the HAP/DARSE line of the output Reports. (Allowed entries 0.00 to 100.00 percent)

2. VALIDATED VALUE: 22.9%

3. DATA SOURCE: See attached documentation. BRAC 95 Policy Memo #1.

   a. DATE LAST UPDATED: 31 May 1994

   b. DATE OF NEXT UPDATE: Unk

4. METHODOLOGY: BRAC 95 DoD Standard Factor used for all Military Departments.

5. VALIDATION PROCEDURE: See attached documentation.

CERTIFICATION:

I certify that the information supplied is accurate and complete to the best of my knowledge and belief.

Charles V. Fletcher
CHARLES V. FLETCHER
MAJ, GS
OPERATIONS ANALYST

STANDARD FACTOR #27
HAP RECEIVING RATE

1. DESCRIPTION: This is the percent of homeowners who will use HAP during a PCS move.

2. VALIDATED VALUE: 5%

3. DATA SOURCE: See attached documentation. BRAC 95 Policy Memo #1.

   a. DATE LAST UPDATED: 31 May 1994

   b. DATE OF NEXT UPDATE: Unk

4. METHODOLOGY: BRAC 95 DoD Standard Factor used for all Military Departments.

5. VALIDATION PROCEDURE: See attached documentation.

CERTIFICATION:

I certify that the information supplied is accurate and complete to the best of my knowledge and belief.

Charles V. Fletcher
CHARLES V. FLETCHER
MAJ, GS
OPERATIONS ANALYST

THE UNDER SECRETARY OF DEFENSE
3010 DEFENSE PENTAGON
WASHINGTON, DC 20301-3010

ACQUISITION AND TECHNOLOGY

MAY 31 1994

MEMORANDUM FOR SECRETARIES OF THE MILITARY DEPARTMENTS
CHAIRMAN OF THE JOINT CHIEFS OF STAFF
UNDER SECRETARIES OF DEFENSE
COMPTROLLER
DIRECTOR, DEFENSE RESEARCH AND ENGINEERING
ASSISTANT SECRETARIES OF DEFENSE
GENERAL COUNSEL
INSPECTOR GENERAL
DIRECTOR, OPERATIONAL TEST AND EVALUATION
ASSISTANTS TO THE SECRETARY OF DEFENSE
DIRECTOR OF ADMINISTRATION AND MANAGEMENT
DIRECTORS OF THE DEFENSE AGENCIES

SUBJECT: 1995 Base Realignments and Closures (BRAC 95) -- Policy Memorandum One

Background

Deputy Secretary of Defense memorandum of January 7, 1994, (attached) established policy, procedures, authorities, and responsibilities for selecting bases for realignment or closure under Public Law (P.L.) 101-510, as amended, for the 1995 base closure process (BRAC 95). This memorandum is the first in a series of Under Secretary of Defense for Acquisition and Technology (USD(A&T)) policy memoranda implementing the Deputy Secretary's BRAC 95 guidance.

Application of P.L. 101-510 Thresholds

This guidline amplifies the DepSecDef January 7, 1994, policy guidance on P.L. 101-510 numerical thresholds.

In determining whether the Act's numerical closure or realignment thresholds are met, independent actions that result in closures or realignments shall be considered separately. In other words, independent actions affecting an individual installation need not be aggregated to apply the numerical thresholds of the Act. However, closure or realignment actions shall not be broken into smaller increments for the purpose of avoiding application of the Act. Subject to the foregoing, independent closure or realignment actions that do not exceed the numerical thresholds set forth in the Act may proceed outside the established BRAC 95 process. Questions regarding whether or not proposed actions are independent should be referred to DoD Components' General Counsel.

Conversely, as the DoD Components review their base structure or conduct functional studies with base closure or realignment impacts, a determination must be made as to whether a comprehensive review or study impacting more than one installation should be considered a single action under P.L. 101-510. To be considered a single action, the review or study must:

(1) Result in the closure or realignment of at least one installation which would trigger the numerical thresholds of P.L. 101-510; and

(2) Involve inextricably linked elements, in that failure to proceed with any one element of the action would require reevaluation of the entire action.

Capacity/Military Value Analyses

An early step in BRAC 95 evaluations is determining whether a category/subcategory has potential excess capacity for the end state force levels contained in the Force Structure Plan. Should no excess capacity be found in a category/subcategory, there is no need to continue analyzing that portion of the base structure, unless there is a military value or other reason to continue the analysis (such as a cross-category opportunity to look at installations with similar capabilities, but in different categories). Bases in such categories/subcategories shall remain subject to joint cross-service review and remain available as potential receivers of missions or functions.

Conversely, if a DoD Component recommends a base for closure or realignment, the supporting analysis must have considered all bases within that category/subcategory, as well as cross-category opportunities. If, in applying the military value criteria, you find bases that are militarily/geographically unique or mission-essential (such that no other base could substitute for them) you may justify that fact and exclude these bases from further analysis. Bases so excluded shall remain subject to joint cross-service review and remain available as potential receivers of missions or functions.

Return on Investment (ROI)

Return on investment must be calculated, considered and reported with DoD Components' justifications for each recommended installation closure or realignment package. All costs and savings attributable over time to a closure or realignment package, subject to the below guidance, should be calculated, including costs or savings at receiving locations. Costs or savings elements that are identified, but determined to be insignificant, need not be calculated. However, DoD Component records should indicate that determination.

The Cost of Base Realignment Actions (COBRA) model calculates return on investment. DepSecDef's January 7, 1994, policy memorandum requires the DoD Components to use the most current COBRA version, in order to ensure consistency in methodology. Although the model does not produce budget quality data, it uses standard cost factors and algorithms to estimate costs and savings over time which permit a consistent comparison of bases in a functional or installation category.

We recognize that DoD Component planning and accounting mechanisms are sufficiently different to warrant some Department/Agency specific standard cost factors in the COBRA model. DoD Component documentation must justify the use of such cost factors, particularly when performing cross-service analysis.

Specific instructions follow for the calculation of discount and inflation rates, health care costs, Homeowners Assistance Program, and savings for input to the COBRA model.

o Discount and Inflation Rates OMB Circular A-94 specifies the discount and inflation rates to be used in ROI calculations.

o Health Care Costs

oo CHAMPUS Costs Base closures and realignments can have an impact on CHAMPUS costs DoD-wide. These net cost impacts must be included in analysis of closures or realignments involving Military Treatment Facilities.

o Homeowners Assistance Program (HAP) The Secretary of the Army will provide each DoD Component with a list of installations that have a reasonable probability of having a HAP program approved, should the installations be selected for closure or realignment. HAP costs will be included for each of the installations so identified by the Secretary of the Army.

o Land Value Given existing law and practice regarding the disposal of real property, especially public benefit and economic development transfers, proceeds from the sale of land and facilities generally may not be realized. In cases where some proceeds can be expected, DoD Components must estimate the amount to be received for such real property. Estimated land and facility proceeds will generally be based on the anticipated reuse of the land and facilities, assuming appropriate zoning. Also, where an installation has unique contamination problems, a portion of the installation may have to be segregated from disposal so that community reuse may proceed on the balance. Estimated proceeds should be adjusted: for any such parceling, including discounting proceeds when sale of contaminated property is possible only after the cleanup remedy has been installed and

approved; for reduced prices where property is likely to be sold for restricted uses; or, when significant public benefit or economic development transfers are anticipated.

o Force Structure Savings The savings associated with force structure drawdowns shall not be included in the return on investment calculations. While declining force structure, as depicted in the required Force Structure Plan, will often be the underlying reason for recommending base closures or realignments, the savings associated with closing bases should generally be founded on the elimination of base operating support (BOS), infrastructure and related costs.

o Military Construction DoD Components will describe anticipated construction requirements (barracks square feet, etc.) to implement a BRAC recommendation and not actual projects. These requirements only become projects during the implementation phase after the 1995 Commission reports to the President and after installation site surveys are conducted and formal project documents (DD 1391s) are prepared.

o Construction Cost Avoidances Closing and realigning bases can result in construction cost avoidances. Cost avoidances should include FY96-01 programmed military and family housing construction that can be avoided at the closing or realigning bases, other than new-mission construction.

COBRA Model Assumptions

The following statements clarify certain cost assumptions written into the COBRA model:

o Local Moves Moves of less than 50 miles will not incur PCS moving costs.

o Priority Placement System Costs. Sixty percent of all employees will be placed in other jobs through the DoD Priority Placement Program. Fifty percent of all employees placed in other jobs through the Program will be relocated at government expense. These percentages are based on historical data.

o Employee Attrition and Turnover. Fifteen Percent of all employees will not need to be placed or severed due to normal attrition and turnover.

o Retirement Factors. Fifteen percent of all employees are eligible for retirement. Five percent of those are eligible for normal retirement and ten percent are eligible for early retirement.

o Homeowner's Assistance Program (HAP). The HAP home value rate is 22.9 percent. The HAP receiving rate is 5 percent.

o Students For the purposes of return on investment calculations, relocation of students will only impact the COBRA model's calculation of overhead costs, and as appropriate, estimates of military construction requirements.

Receiving Bases

DoD Components must identify receiving bases for large units or activities, including tenants, which are to be relocated from closing or realigning bases. Such relocations must be included in DoD Component's recommendations to the Secretary of Defense. The COBRA model will calculate the costs for relocating such units or activities. DoD Components do not need to identify specific receiving bases for units or tenants with less than 100 civilian/military employees. Finding homes for these activities can be left to execution. However, DoD Components should establish a generic "base x" within the COBRA model to act as the surrogate receiving base for the aggregation of these smaller units or activities, in order to ensure completeness of cost and savings calculations.

Reserve Enclaves

This expands on the DepSecDef January 7, 1994, policy guidance on Reserve Component impacts.

On each base designated for closure or realignment, the future of guard and reserve units of all Military Departments residing on or receiving support from that base must be considered. Once a decision has been made to include an enclave or to relocate guard and reserve units, the affected unit identifications must be included in the DoD Components' recommendations to the Secretary of Defense. Military construction and repair costs of fitting out an enclave for reserve component or guard use will be estimated and included as part of the return on investment calculations.

Noel Longuemare

R. Noel Longuemare
Principal Deputy Under Secretary of
Defense (Acquisition & Technology)

STANDARD FACTOR #28
RSE HOME VALUE RATE

1. DESCRIPTION: Similar to the HAP Factor, this is the of the percent of house value that DARSE will pay. DARSE will only be costed at a base when HAP is not applied, and it will be reported on the HAP/DARSE line of output Reports. (Allowed entries 0.00 to 100.00 percent)

2. VALIDATED VALUE: 18%

3. DATA SOURCE: See attached documentation - "DARSE move information" .

a. DATE LAST UPDATED: 1991

b. DATE OF NEXT UPDATE: 1996

4. METHODOLOGY: This table lists the actual home value and costs of DARSE payments - Payment to Contractor for 19 moves. The RSE home value rate is computed by dividing the average payment to contractor (16,601.06) by the average home value (93,595.58).

17,867.68 19.09 Round down to 19%

~~16,601~~.06/93,595.58 = 17.74 % Round up to 18%

5. VALIDATION PROCEDURE: See attached documentation. Reference data source provided by the U.S. Army Corps of Engineers, Baltimore District. Department of the Army Relocation Services Program Management Office. POC: Ms Dorine Klevinsky (410) 962-3166.

STATEMENT OF CERTIFICATION:

I certify that the information supplied is accurate and complete to the best of my knowledge and belief.

Charles V. Fletcher
CHARLES V. FLETCHER
MAJ, GS
OPERATIONS ANALYST

STANDARD FACTOR #28
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5. VALIDATION PROCEDURE: See attached documentation. Reference data source provided by the U.S. Army Corps of Engineers, Baltimore District. Department of the Army Relocation Services Program Management Office. POC: Ms Dorine Klevinsky (410) 962-3166.

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OPERATIONS ANALYST

DARSE COST MODEL

AVERAGE DARSE APPRAISED VALUE: $88,596.00
AVERAGE DARSE SALE PRICE: $91,487.00

AVERAGE PCS SALE PRICE: $87,297.79

EXPENSE	DARSE PROGRAM: CONTRACTOR EXPENSES	DARSE PROGRAM: GOV'T EXPENSES	PCS REIMBURSEMENT: GOV'T EXPENSES	PCS REIMBURSEMENT: EMPLOYEE EXPENSES [F]
SALES EXPENSES:				
APPRAISALS	Included		Included	
INSPECTIONS	Included		Included	
TITLE	Included		Included	
COMMISSION	Included		Included	
CLOSING	Included		Included	
BUYER CONCESSIONS	Included		Included	
POINTS	Included			$300.00
MORTGAGE PAYMENT	Included			$1,746.00
UTILITIES/MAINTENANCE	Included			$800.00
PROPERTY TAX	Included			$200.00
INSURANCE	Included			$200.00
REPAIRS/IMPROVEMENTS	Included			$150.00
LOSS ON SALE:	Included [A]			$200.00
OVERHEAD/PROFIT:	Included [B]			$4,108.00
REAL ESTATE SALE COST:	$16,601.06 [C]	$16,601.06	$7,061.01 [D]	$7,704.00
CANCELED/DELETED ORDERS:		$466.04		
NRPO ADMINISTRATIVE FEE:		$800.00	[E]	
TOTAL:		$17,867.10	$7,061.01	$7,704.00
TQ		$5,195.47	$5,428.92	
SIT		$787.68	$2,370.05	
RITA		$1,375.77	$2,077.63	
TOTAL COST:		**$25,226.02**	**$17,936.61**	**$7,704.00**

[A]Loss on sale is the average difference between appraised value and selling price.
[B]Overhead/Profit is specified by contract for each price range.
[C]"Contractor Expenses" is average of random sample which results in a rate for this sample of 17.74% ($16,601.06)
[D]Average of expenses paid ($7,061.01) based on sample cases.
[E]PCS Reimbursement Administrative Cost unknown.
[F]Emp[illegible] expenses using PCS reimbursement method are estimated.

SUBJECT: DARSE Cost Model

The Cost Comparison Model examines the difference between the cost of moving an employee with PCS entitlement and the cost of moving an employee with DARSE.

In the initial year of Relocation Services' Contract No. DACA31-91-D-0038, 83 Corps of Engineers employees relocated using DARSE. The breakdown of these employees is on the enclosed Chart 1. The NRPO selected 19 employees to use in the comparison; they were from various parts of the country and correspond to the percentages represented in Chart 1.

A copy of the DARSE Move Information Form completed with the employee name, appraised value, days in inventory, and payment to the contractor was sent to the CPO. We also sent a blank copy of the PCS Move Information Form to the CPO and asked them to select a PCS move comparable to the DARSE move in house sale price, location and date. After selecting the PCS employee the CPO sent both forms to FAO for the amount paid the employee for real estate expenses, temporary quarters/subsistence, storage in transit and relocation income tax allowance.

To determine the average DARSE Sale Price we divided the sum of the sale price of each of the 19 sample orders to get $91,487.00. Five houses were amended sales and did not have appraisals, therefore, we discarded them and determined the average DARSE Appraised Value by dividing the sum of the appraised value of each of the remaining 14 sample DARSE houses to get $93,596.00.

To determine the Loss on Sale of each house in inventory we subtracted the sale price from the appraised value, then divided this by the number of houses in the sample. This gave us an average Loss on Sale of $4,108.00.

The Overhead/Profit was determined by the contract. The results were as follows:

5	amended	3.31%
8	less than 90 days	5.41%
3	91 to 120 days	6.32%
1	121 to 150 days	7.52%
1	151 to 180 days	6.99%
1	more than 180 days	6.77%

The total Overhead/Profit is $4,932.51 (5.27% of the average appraised value of $93,596.00).

During the initial year of the contract there were twenty-two canceled, deleted, or expired orders. The total amount invoiced for these orders was $27,081.43. We then added $17,600 for the $800 administrative fee for each of the 22 orders. The total amount spent on

	rate	number	% of total	# in sample
Amended	12.5%	= 17	20%	5
0-90 days	19%	= 35	42%	8
91-120 days	23%	= 15	18%	3
121-150 days	27%	= 5	6%	1
151-180 days	28.75%	= 2	2%	1
180+ days	39%	= 9	11%	1
		83		19

(22 cancellations, deletions, or expirations)

PCS MOVE INFORMATION

		Sale Price	Real Estate Sale Expenses 1	Temporary Quarters/ Subsistence 2	Storage in Transit 3	RITA 4
1.	ADAMS, P.	$68,500	$5,258.50	$2,000	0	$780
2.	IRWIN, W.	$88,500	$4,806.05	$8,006.35	0	$1,400.06
3.	HARRINGTON, J	$69,500	$5,168.40	$3,788.88	$100.00	$916.00
4.	KELLY, M.	$85,000	$5,132.00	$3,654.81	$5,457.10	239.42
5.	PARRY, V.	$90,000	$7,108.75	$4,770.32	$6,183.15	$1,806.81
6.	BRIDGESTOCK,G	$185,000	$12,102.75	$6,880.13	$185.00	$2,621.46
7.	MOLINA, T.	$140,000	$11,003.14	$949.91	0	$143.60
8.	WEATHERBY, S	$69,000	$5,427.38	$6,425.57	0	$3,137.00
9.	STELTS, C.	$68,500	$5,258.50	$11,618.67	$3,781.10	$3,973.48
10.	MCNULTY, J.	$68,950	$10,953.50	$3,423.75	$7,066.00	$3,736.00
11.	STOKES, D.	$65,000	$4,804.30	$3,028.95	$2,072.46	$4,000.06
12.	COPPERTHITE,P	$100,000	$12,187.50	$6,418.57	0	$2,000.00
13.	BRETT, D.	$67,900	$7,288.08	$6,435.00	$3,223.44	$1,312.05
14.	CONNER, J.	$100,000	$10,180	$7,537	$4,880	$2,172
15.	SILLIVANT, S	$80,000	$6,487.48	$4,895.00	0	$3,247.11
16.	PEARCE, K.	$64,000	$4,474	$8,505.46	$180	$2,186.31
17.	LEKSON, D.	$83,508	$5,411.48	$1,701.48	$110	$1,305.04
18.	NOLAN, J.	$72,000	$5,824.00	$34,201.28	$8,719.78	$6,843.16
19.	LANTE, A.	$70,300	$5,132.25	$2,502.22	0	$1,404.03
AVERAGE		$87,297.79	$7,081.10	$6,426.92	$2,370.05	$2,077.63

PCS MOVE INFORMATION

	TOTAL	AVERAGE (of 19)
real estate sale expenses	$134,161.06	$7,061.10
temporary quarters/subsistence	122,111.50	6,426.92
storage in transit	45,030.93	2,370.05
relocation income tax allowance	39,475.04	2,077.63
		17,935.70

average appraised value $87,297.79

DARSE MOVE INFORMATION

	TOTAL	AVERAGE (of 19)
Payment to contractor	$316,560.23	$16,661.06
Temporary quarters/subsistence	98,713.95	5,195.47
Storage in transit	14,966.00	787.68
Relocation income tax allowance	26,139.59	1,375.77

average appraised value $93,595.58

DARSE MOVE INFORMATION

	Appraised Value	Payment to Contractor	Temporary Quarters/ Subsistence	Storage in Transit	RITA
1. Dunleany, M.	$ 82,116	$ 7,784.50	$ 1,856.25	0	$ 521.84
2. Clark, R.	132,800	16,562.50	13,391.49	0	0
3. Moore, B.	91,000	11,418.75	428.00	0	475.88
4. Barter, M.	125,850	16,106.25	492.50	0	370.75
5. Carr, F.	80,500	11,495.00	0	0	0
6. Lane, R.	73,500	2,187.50	23,100.00	4,008	6,082.33
7. Brummel, E.	104,500	13,062.50	5,020.61	537	658.13
8. Middleton, D.	206,400	30,210.00	2,892.21	1,238	3,025.44
9. Pearson, P.	152,450	23,065.50	2,475.00	0	5,101.13
10. Bissler, D.	95,750	15,062.50	2,485.95	0	446.16
11. Kelley, T.	142,000	20,080.00	4,475.00	5,832	1,046.00
12. Figgins, S.	95,500	11,115.00	18,584.30	387	5,410.75
13. Schjodt, S.	96,750	12,682.50	0	0	0
14. Tostterman, S.	84,250	10,377.50	10,725.00	0	1,284.75
15. Marshall, R.	80,000	5,975.75	3,385.71		11.75
16. Chapin, S.	88,000	20,585.00	0	0	80.92
17. Waddle, J.	80,850	16,375.50	3,000.14	0	0
18. Archer, E.	46,000	13,225.00	3,177.79	3,003	944.93
19. Wojna, M.	80,000	23,400.00	3,485.00	0	635.01
AVERAGE	$95,505.55	$16,681.06	$5,185.47	$787.66	$1,375.77

STANDARD FACTOR #29
RSE RECEIVING RATE

1. DESCRIPTION: The average percent of all homeowners who will use DARSE payments. DARSE will only be costed at a base when HAP is not applied, and it will be reported on the HAP/DARSE line of output Reports. (Allowed entries 0.00 to 100.00 percent)

2. VALIDATED VALUE: 12%

3. DATA SOURCES: BRAC 93 Factor.

a. U.S. Army Corps of Engineers, Baltimore District. Department of the Army Relocation Services Program Management Office. The information was tabulated by Ms Dorine Klevinsky, relocation specialist, (410) 962-3166.

b. Defense Data Support Center, Dayton Ohio. Priority Placement Program statistics.

c. DATE LAST UPDATED: July 24, 1992.

d. DATE OF NEXT UPDATE: Unk

4. METHODOLOGY: Estimate based on the following calculations:

YEAR	PPS PLACEMENTS OUTSIDE COMMUTING DIST	TOTAL NUMBER USING DARSE	PERCENT
1990	3161	634	10.87
1991	5832	431	13.63
1992	1911(30 APRIL)	591(13 NOV)	NA
ADJ 1992 DATA TO DEC 31 (LINEAR METHOD)			
1992	5733	668	12.00

WEIGHTED AVERAGE: 11.8 % ROUND UP TO 12%

5. VALIDATION PROCEDURE: Reference data source provided by the U.S. Army Corps of Engineers, Baltimore District. Department of the Army Relocation Services Program Management Office. POC: Ms Dorine Klevinsky (410) 962-3166.

STATEMENT OF CERTIFICATION:

I certify that the information supplied is accurate and complete to the best of my knowledge and belief.

Charles V. Fletcher
CHARLES V. FLETCHER
MAJ, IN
OPERATIONS ANALYST

FAX TRANSMITTAL

No. of Pages: Cover + 0 Date: 13 Nov 92

From: Ms. Lee A. Bevins, CRP
Senior Relocation Specialist

DEPARTMENT OF THE ARMY RELOCATION SERVICES
FOR EMPLOYEES (DARSE)

1-410-962-3166 or 5633
Autovon 283-3311 Ext. 3166 or 5633
FAX 1-410-962-0866 (Automatic)

To Major Fletcher

Fax No: (703)693-3322 **Phone** (703)697-6262

MEMO: DARSE (Army only)

Jan 1990 - Dec 1990 = 431
Jan 1991 - Dec 1991 = 634
Jan 1992 - Nov 12 1992 = 591

Hope this helps! One thing you need to know is if we do verify bill amount - DARSE contract calls for renegotiation of fees with the contractor - what we pay. For HAP budget I would suggest your contact John Sherney (202) 272-8987.

Lee

EMPLOYEE
RELOCATION

National Relocations Program Office (NRPO)
U.S. Army Engineer District, Baltimore
ATTN: CENAB-RE-N
P.O. Box 1715
Baltimore, Maryland 21203-1715

PRIORITY PLACEMENT PROGRAM

Overall totals since inception of PPP

REGISTRATIONS	275,170
PLACEMENTS	102,384

These overall totals include all individuals registered in the PPP.

REGISTRATIONS/PLACEMENTS

	Registrations		Placements	TREND
1992	7407	.25	1911	25-30%
1991	18811	.31	5832	
1990	12448	.25	3101	
1989	4272	.48	2000	

PLACEMENT BREAKDOWN

	Outside Commuting Area	% of Total Placements	TREND 40-5
1992	872	40%	
1991	2327	40%	
1990	1225	30%	
1989	747	30%	

1992 Statistics are as of 30 April.

... placed at a PCS

DEPARTMENT OF THE NAVY
BASE STRUCTURE ANALYSIS TEAM

FACSIMILE TRANSMISSION

From: David M. Wennergren

To:
1. Mr. Dom Miglionico, OSD, Fax: 693-7818
2. Major Chuck Fletcher, Army TABS, Fax: 693-9322
3. LTCOL John O'Neill & Mr. Steve Scovel, Air Force, Fax: 693-9707

Here are the results of the regressions on RPMA and BOS. In general, the data provided by the Army and Navy appears very consistent, yielding almost identical results. The data provided by the Air Force is somewhat less consistent. Attached pages provide details from the regressions.

Page 2 - Summary statistics for BOS and RPMA ("All" column is Army + Navy + Air Force)
Pages 3 through 7 - backup data on BOS
Pages 8 through 12 - backup data on RPMA

In summary, I recommend the following:

BOS: Recommend using the "All" value of ".54". While the statistics aren't perfect, this value appears to be a reasonably consistent index for BOS - one that takes into consideration economies of scale associated with changes in personnel-related overhead. Hypothesis testing shows that the probability of the BOS index actually being 1.0 is infinitesimally small.

RPMA: Recommend using the Army/Navy value of ".93". The extremely low Air Force value for RPMA skews the "All" value for this index. In addition, a value of .93, which is very close to 1.0, should address the Air Force's concern (as expressed by Mr. Steve Scovel) that economies of scale may be less likely to be realized for changes in RPMA costs.

12 Pages (including cover page)

Summary of Tri-Service Regression Analysis

BOS vs. Personnel

Model BOS=constant x Personnel**Index

	USN	USA	USAF	ALL
Index	0.52	0.55	0.43	0.54
St. Dev. (Index)	0.05	0.06	0.16	0.04
P(Index=1)	0.0E+00	1.9E-06	3.7E-04	0.0E+00
R-square	0.51	0.56	0.21	0.51
Commands	97	41	28	166

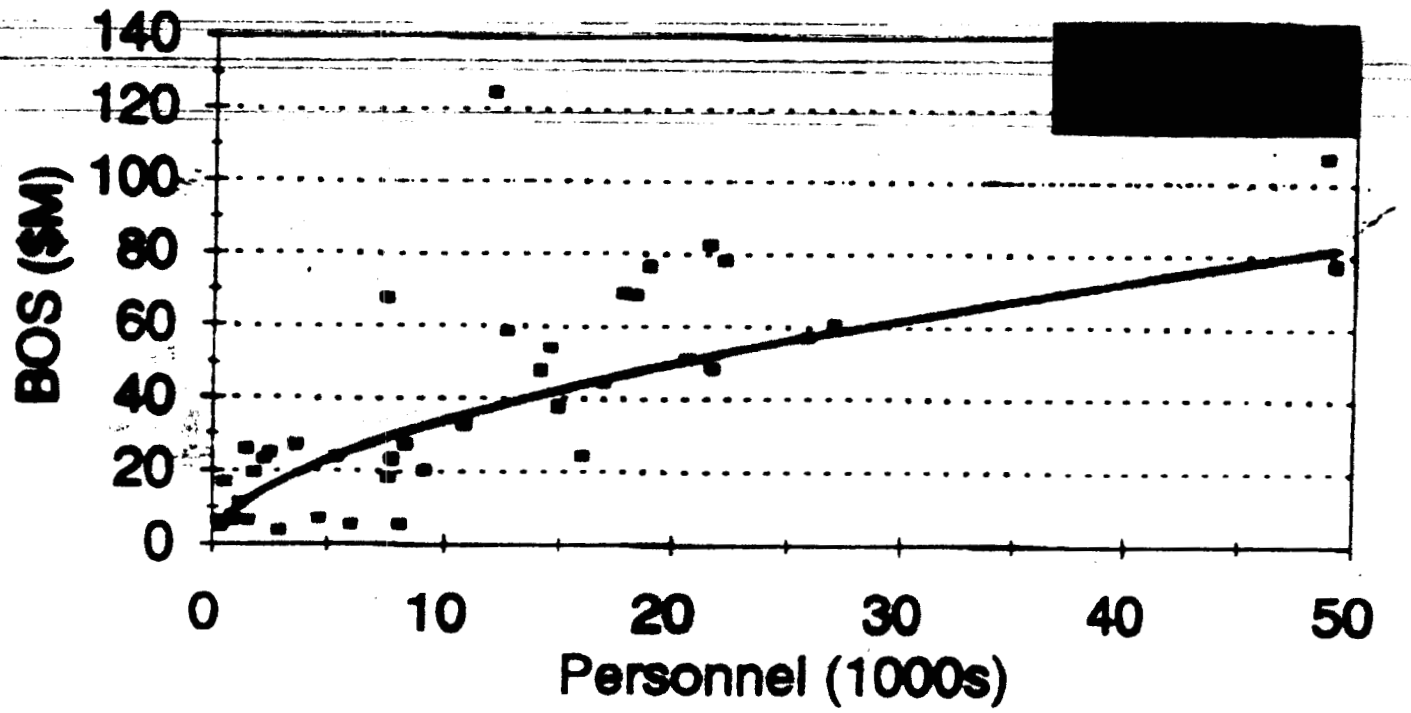
RPMA vs. SF

Model RPMA =constant x SF**Index

	USN	USA	USAF	ALL
Index	0.58	0.66	0.49	0.68
St. Dev. (Index)	0.09	0.09	0.21	0.06
P(Index=1)	0.2184	0.2184	0.6921	4.8E-08
R-square	0.54	0.74	0.12	0.48
Commands	97	41	28	166

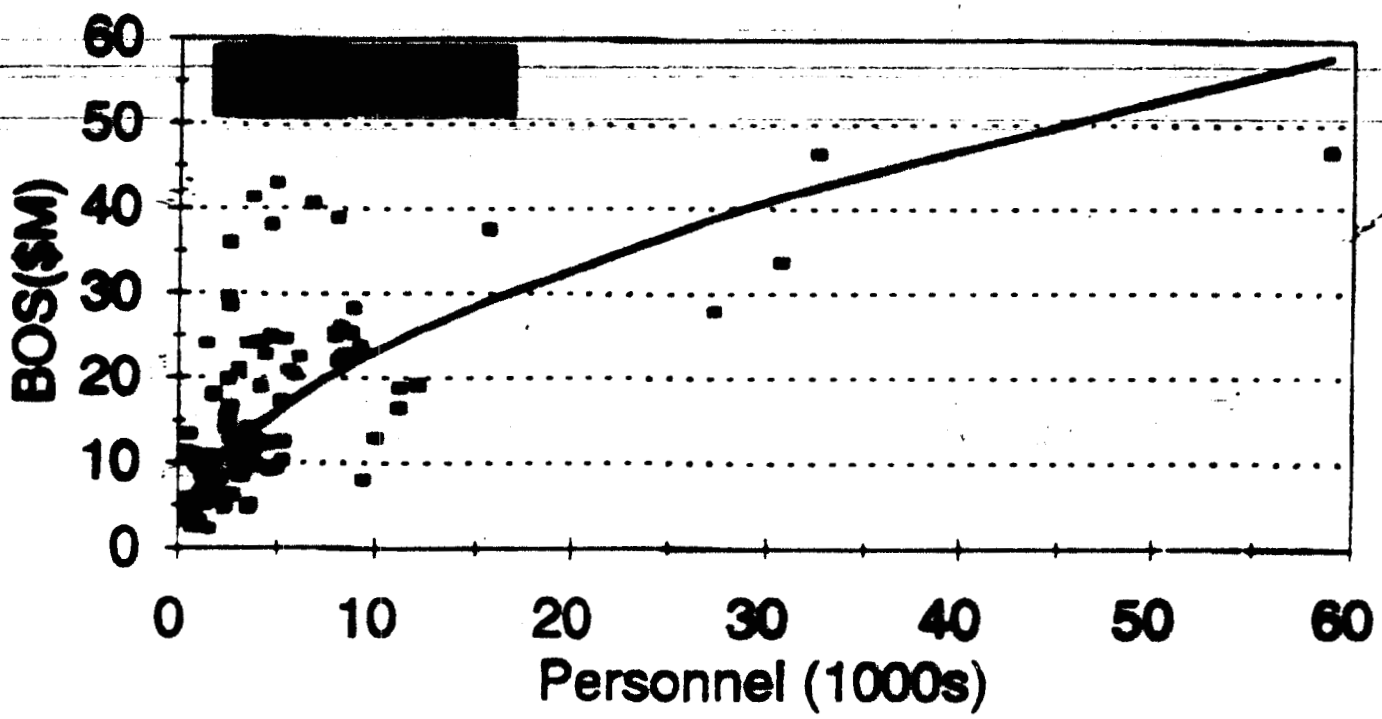
BOS vs. Personnel

Army Commands



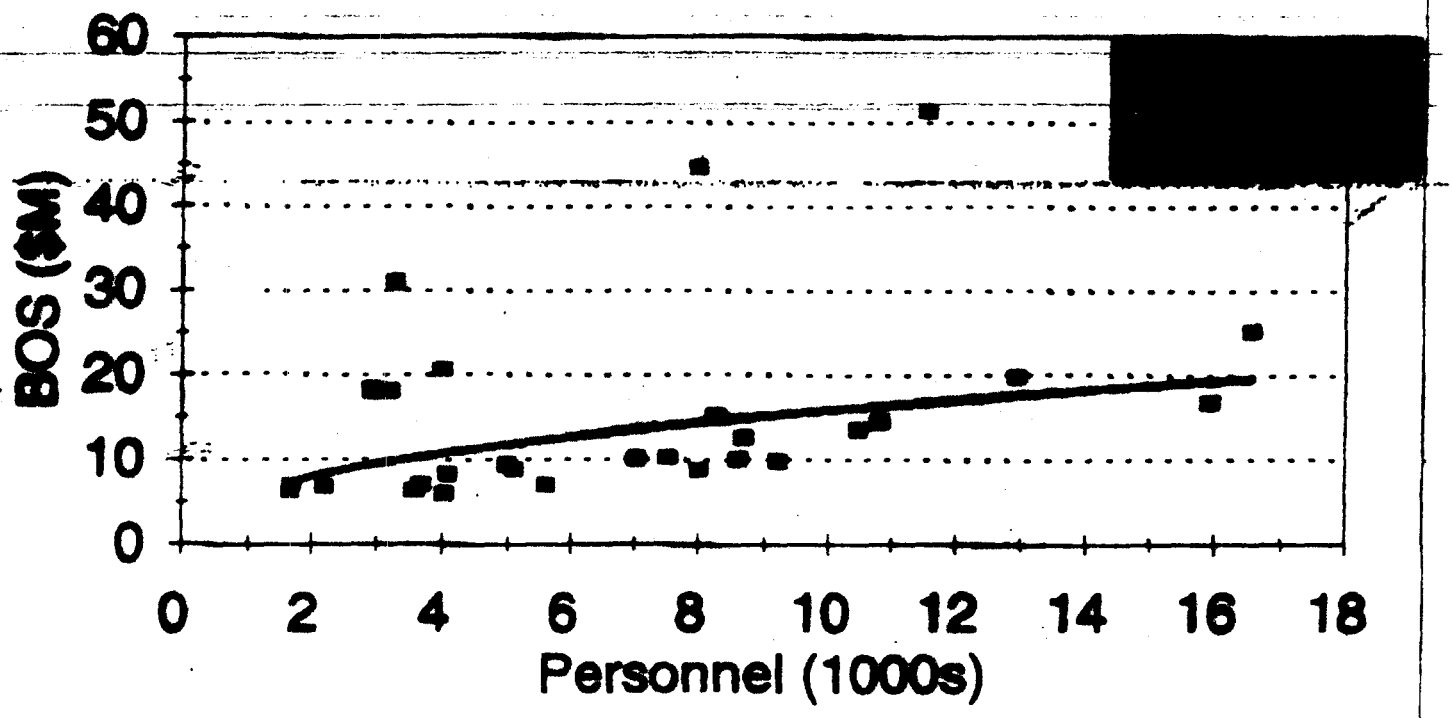
BOS vs. Personnel

Navy Commands



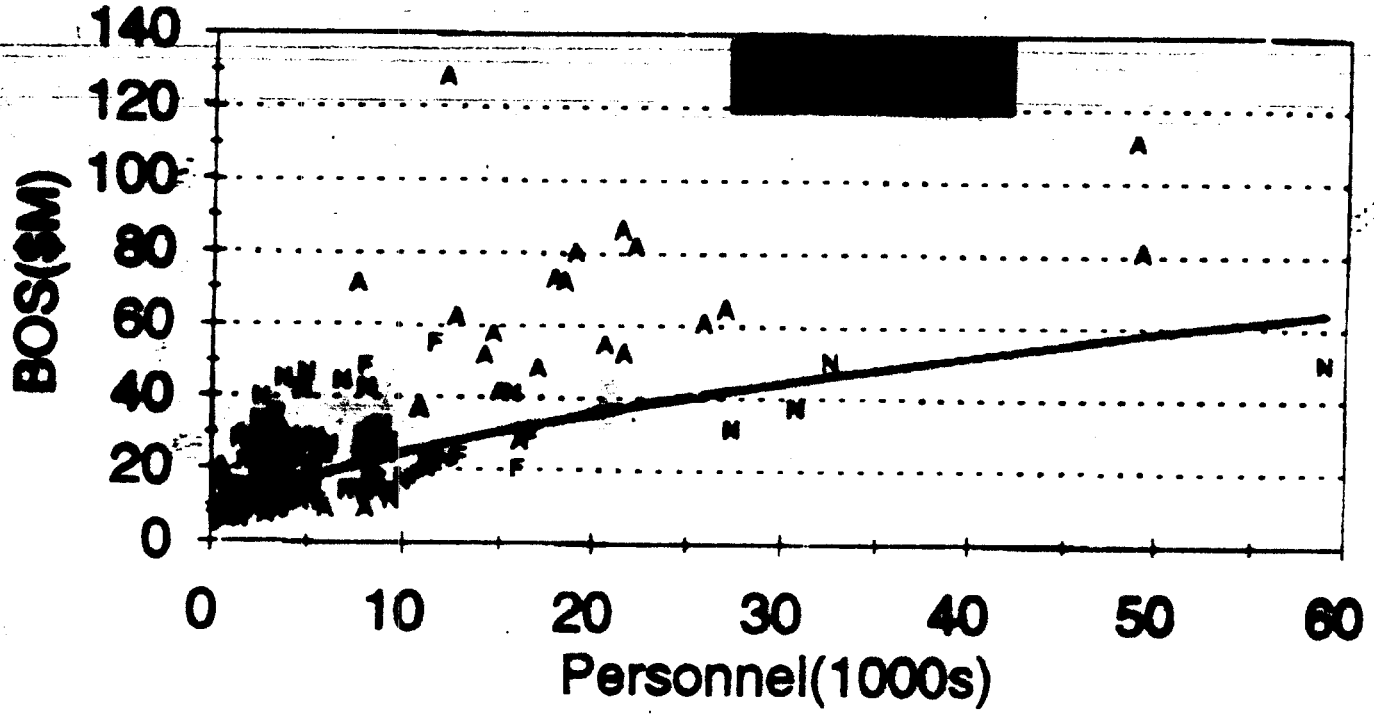
BOS vs. Personnel

USAF commands



BOS vs. Personnel

Tri-Service



Regression Statistics

Multiple R	0.712277
R Square	0.508764
Adjusted R Square	0.505769
Standard Error	0.591101
Observations	166

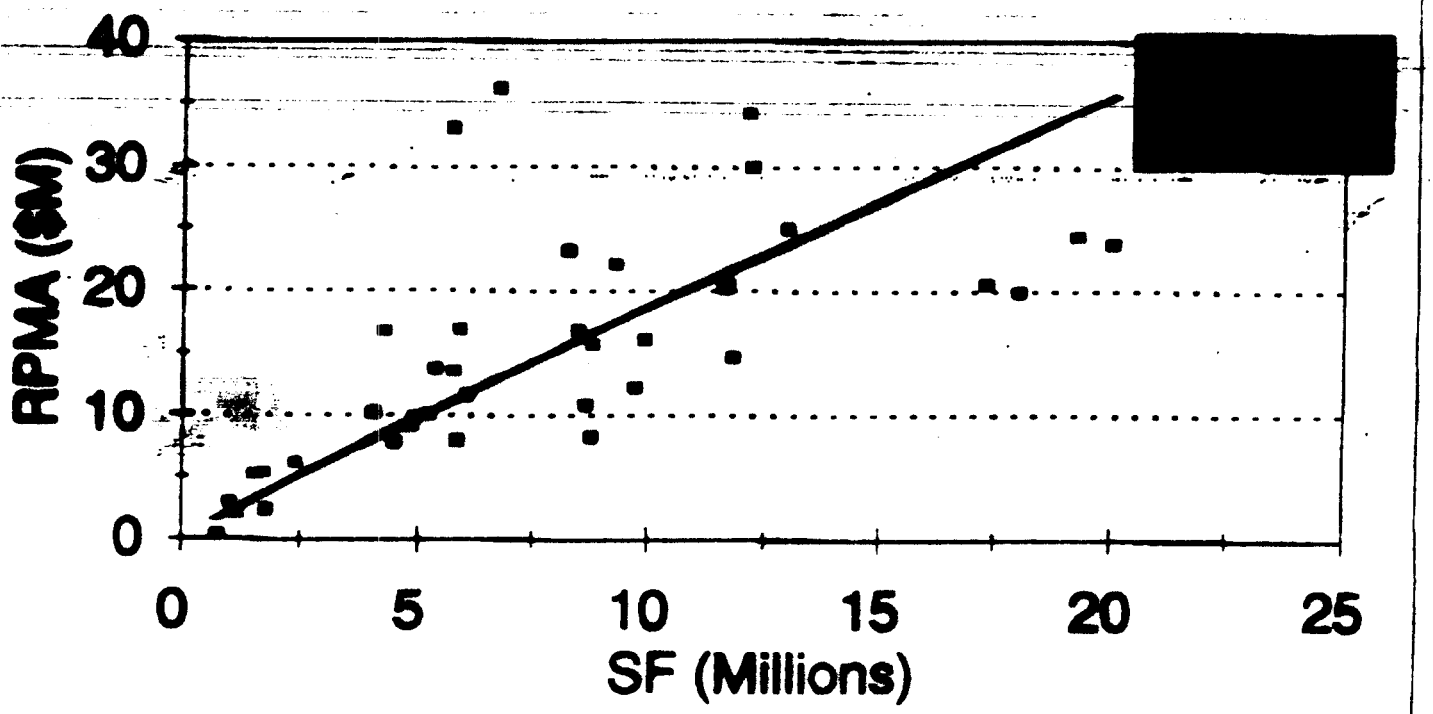
Analysis of Variance

	df	*Sum of Sq*	*Mean Sq*	*F*	*Significance F*
Regression	1	59.34834	59.348	169.852	******
Residual	164	57.30163	0.349		
Total	165	116.649			

	Coefficients	*Standard Error*	*t Statistic*	*P-value*	*Lower 95.00%*
Intercept	1.945525	0.074686	25.990	0.000	1.8
x1	0.543408	0.041696	13.032	0.000	0.46

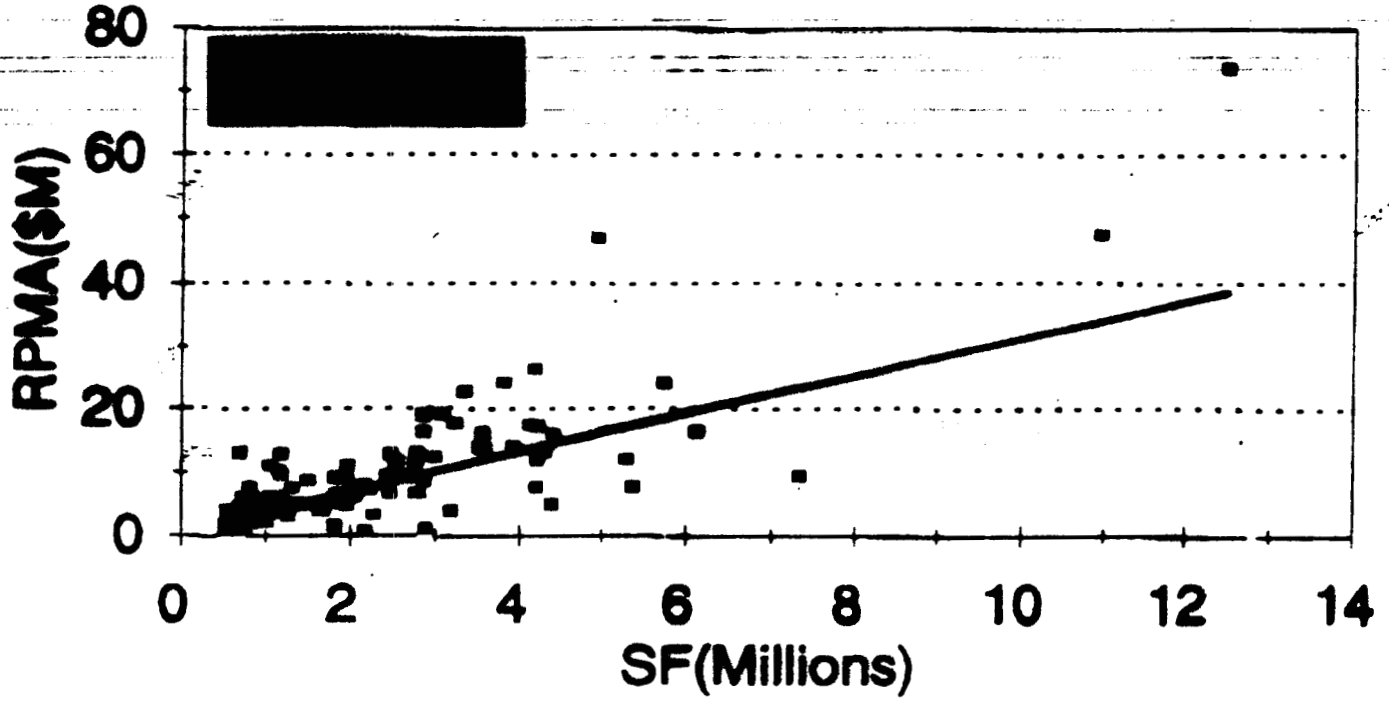
RPMA VS. SF

Army Commands



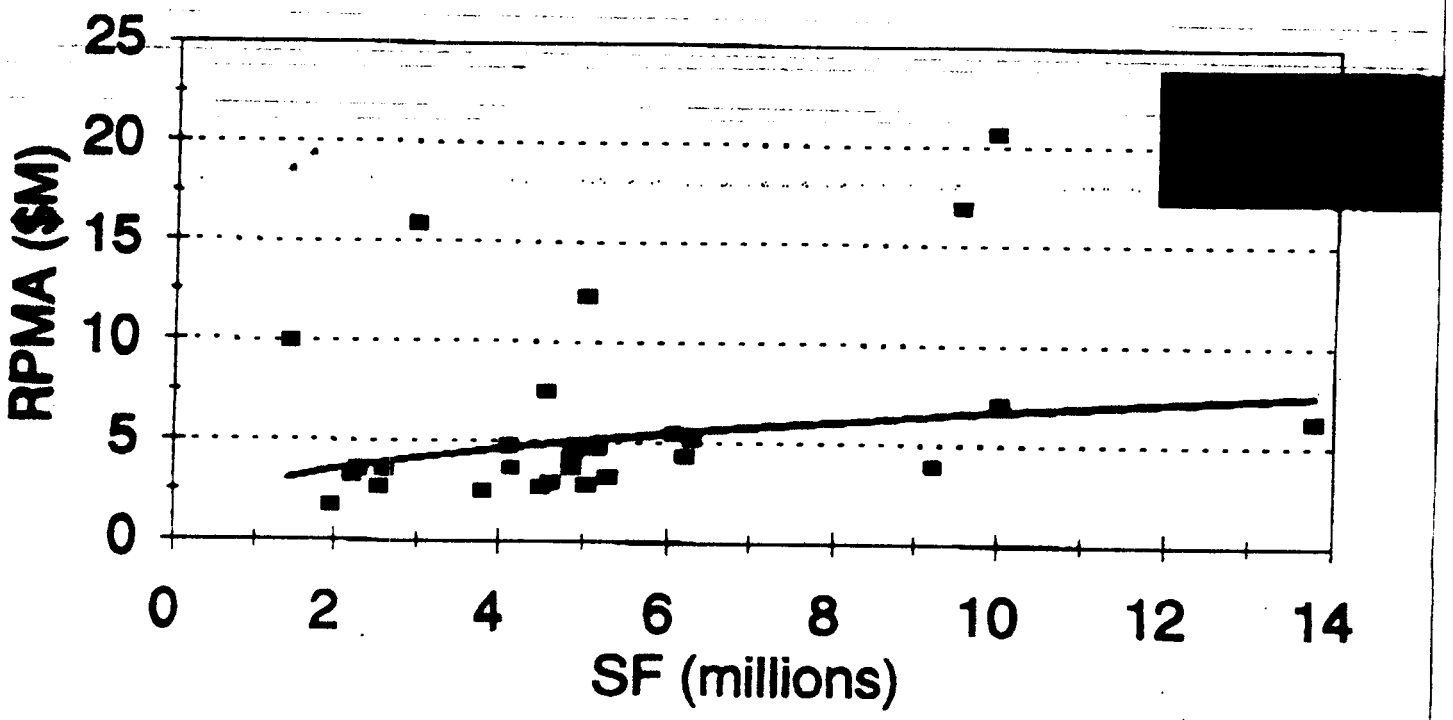
RPMA vs. SF

Navy Commands



RPMA vs. SF

USAF Commands



STANDARD FACTOR #30
RPMA BUILDINGS INDEX

1. DESCRIPTION: The exponent of base building square footage, used in Real Property Maintenance Activity cost calculations. This represents the nonlinearity of the relationship between change in base building area and the change in RPMA costs; normal value of this index is $\leq$ 1.0. (Allowed entries 0.00 to 5.00)

2. VALIDATED VALUE: 0.56

3. DATA SOURCE: BRAC 93 Standard Factors.

   a. DATE LAST UPDATED: March 1991.

   b. DATE OF NEXT UPDATE: Update with BRAC 95 RPMA data - TBA.

4. METHODOLOGY: Used an exponential distribution represented by the equation -

(TOTAL SQUARE FEET OF FACILITIES) RAISED TO THE POWER (0.56)

to describe the cost of providing Real Property Maintenance at installations. The attached graph represents the difference between actual vs. model predicted values for RPM at 50 installations.

5. VALIDATION PROCEDURE: None.

STATEMENT OF CERTIFICATION:

I certify that the information supplied is accurate and complete to the best of my knowledge and belief.

Charles V. Fletcher
CHARLES V. FLETCHER
MAJ, GS
OPERATIONS ANALYST

differing per-unit costs, and a fixed-cost component that nonetheless varies somewhat with the scale of the installation.

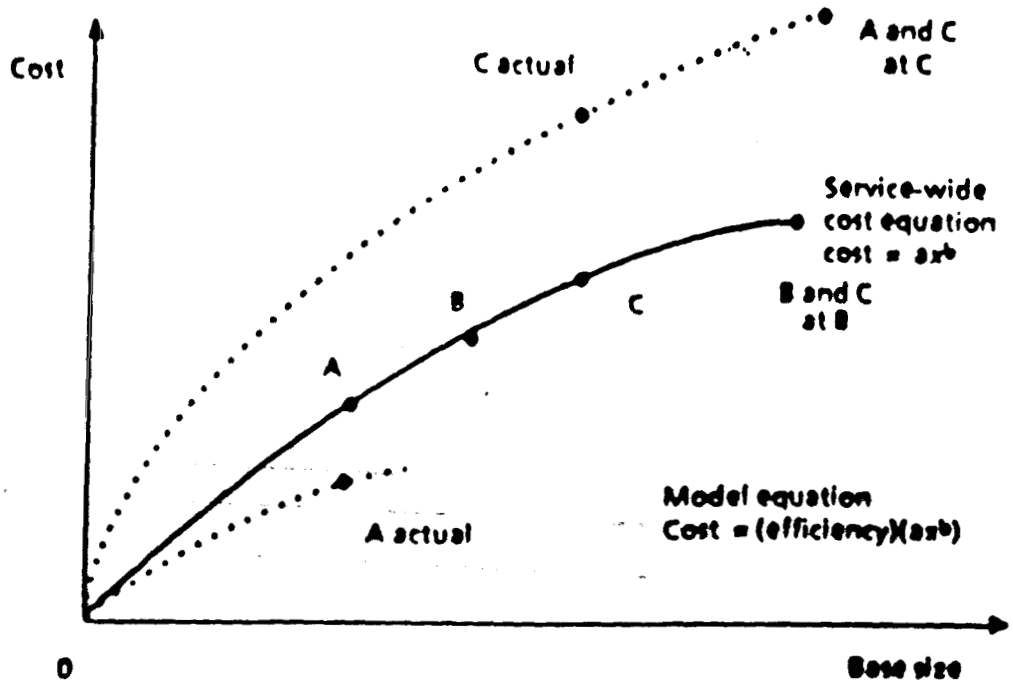


FIG. A-3. THE EXPONENTIAL MODEL

In this model, the COBRA efficiency factor has the effect of expanding or shrinking the curve to approximate the correct size for a specific base. That varies both the conceptual "fixed" cost and the slope of the curve (the per-square-foot cost). Bases A, B and C are shown as examples; notice that the large expensive base C still may allow cost savings: that is, the cost of A and C at C may be less than the combined cost of A and C operating independently. Large savings could be achieved by moving C to B.

The curve shown is notional: the exact shape of the curve for a given Service or MACOM would vary depending on the coefficients used in the cost equation.

COBRA Calculation of Overhead

COBRA includes two components of cost for RPMA: costs attributable t maintenance of buildings, based on a square foot measurement, and cost

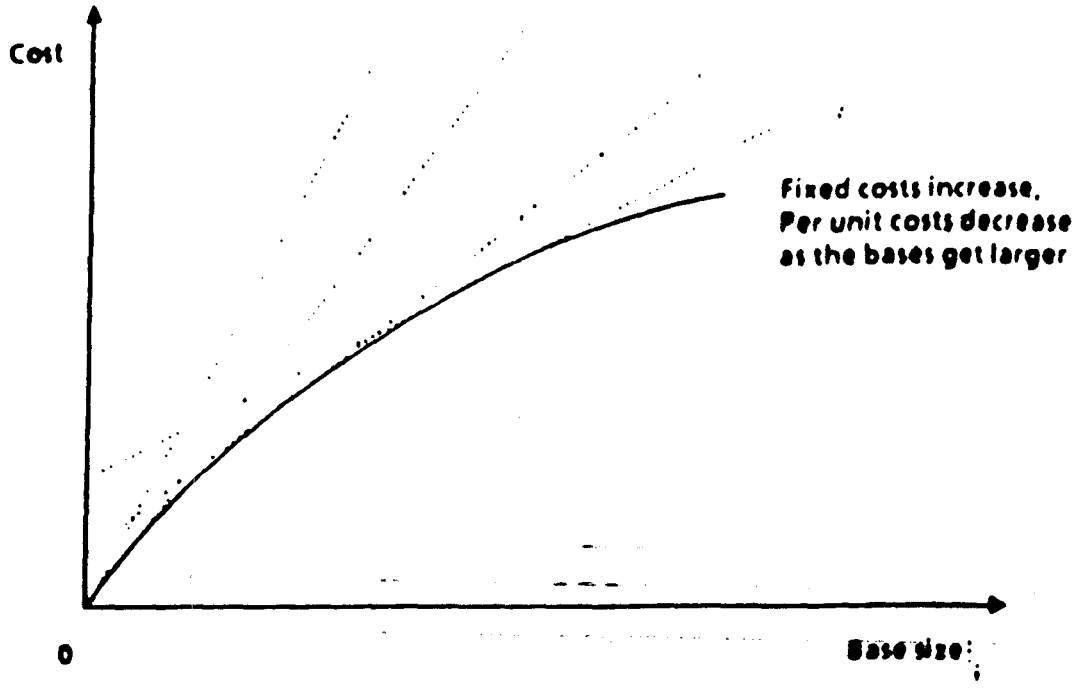


FIG. A-4. EXPONENTIAL AS SUCCESSIVE APPROXIMATIONS

attributable to grounds maintenance, based on an acreage measurement. The equations contained in COBRA for RPMA are:

RPMA budget = efficiency x $a(X_1^b)(X_2^c)$,

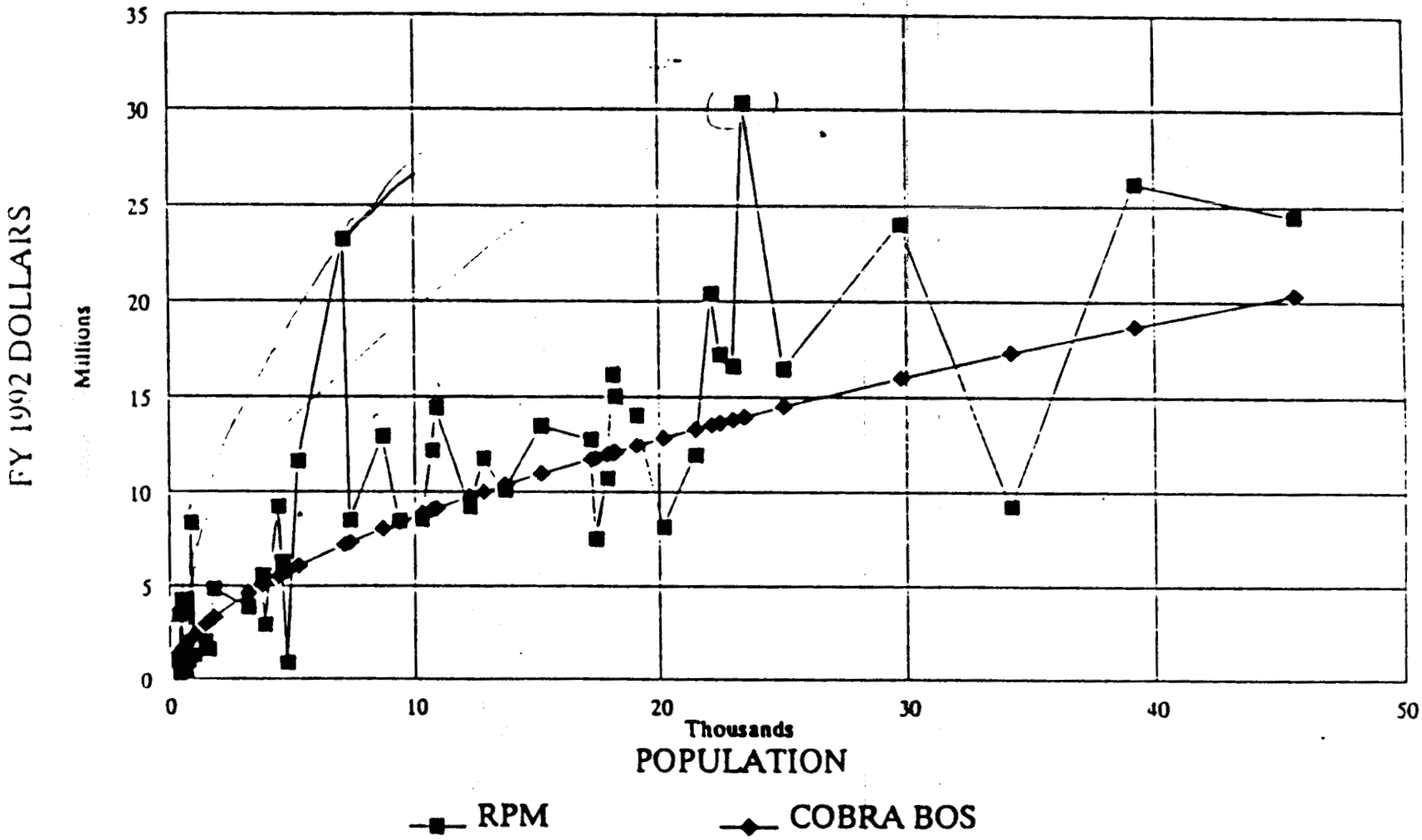
where efficiency = actual budget divided by predicted budget
X_1 = square feet of facilities (data input)
X_2 = average on installation (data input)
and a, b, c are model coefficients.

The predicted budget assumes efficiency at 1 to allow the calculation of the efficiency factor. In determining new budgets, the square footage is incremented at the gaining bases by any new construction, and decremented at the losing base by the amount of facilities deactivated, if any. New construction is not assessed a maintenance fee in the first 2 years. Acreage is increased at the gaining bases starting in Year 1 by the amount of any land purchased, and decreased at the losing base beginning in the sale year by the amount of any land sold.

		FY92 DOLLARS		MARGINAL	AVERAGE
	POP	BPM	FORMULA	COST	COST
ORT A P HILL**	340	949203	1307971		3847
RT PICKETT**	366	3443955	1363074	2081	3724
OTTEN**	370	923334	1371396	2052	3706
MP BULLIS**	390	261968	1412428	1953	3622
FT CHAFFEE**	461	4242562	1551110	1822	3365
FORT HUNTER-LIGGET	536	702125	1687727	1698	3149
FORT HOLABIRD**	634	376667	1854129	1625	2924
FT DOUGLAS**	656	646845	1889888	1554	2881
CHARLES E. KELLY SPT	774	956736	2073313	1469	2679
FT HAMILTON**	851	8309999	2186405	1387	2569
FORT INDIANTOWN GAP	1002	1250538	2395830	1227	2391
CARLISLE BARRACKS	1462	2033153	2960333	1110	2025
FT STORY**	1611	1594059	3125673	1062	1940
FORT MCCOY	1788	4820953	3313567	904	1853
FORT SHERIDAN	3202	3904495	4592043	802	1434
FORT GILLEM**	3217	3825858	4604077	774	1431
FT MONROE**	3766	5579207	5028784	743	1335
HUNTER ARMY AIRFIEL	3873	2936983	5108302	717	1319
FORT MCPHERSON**	4435	9199582	5511000	690	1243
FORT IRWIN & NTC	4601	6241491	5625579	679	1223
PRESIDIO OF MONTERE	4781	878616	5747785	660	1202
PRESIDIO OF SAN FRAN	5226	11638825	6041501	604	1156
FT LEAVENWORTH	7085	23187227	7164078	562	1011
FORT DEVENS	7316	8459998	7293958	537	997
ENJAMIN HARRISO	8672	12951607	8022631	510	925
CCLELLAN	9334	8421365	8360033	486	896
ACHUCA	10278	8509898	8823458	475	858
FT RUCKER	10709	12183163	9028787	470	843
T EUSTIS**	10891	14458116	9114397	457	837
ORT DRUM	12214	9170392	9718751	441	796
FT LEE	12803	11780234	9978484	430	779
FT DIX**	13721	10045865	10373040	414	756
FT GORDON	15133	13492824	10957917	394	724
FT JACKSON	17129	12766771	11745187	383	686
FORT ORD**	17321	7466317	11818731	380	682
FORT STEWART**	17792	10706044	11997641	377	674
FORT CARSON**	18029	16125588	12086878	375	670
FORT RILEY	18097	15021904	12112386	371	669
FORT POLK	19037	14018421	12460778	362	655
FORT SAM HOUSTON**	20145	8105294	12861857	353	638
FT LEONARD WOOD	21461	11963882	13325821	345	621
FT KNOX	22098	20383941	13545894	342	613
FT SILL**	22423	17166969	13657100	339	609
FT BLISS	22949	16590751	13835591	336	603
FORT LEWIS	23403	30318108	13988207	330	598
FORT CAMPBELL	24983	16440455	14509451	313	581
FT BENNING	29727	24042099	15993172	292	538
MEADE**	34153	9213297	17285827	275	506
HOOD	39192	26154479	18670698	258	476
FO BRAGG**	45612	24454823	20326112		446

FY90 ACTUALS vs COBRA BOS

CONUS INSTALLATIONS



EXPONENT FACTOR USED: 0.56

DEPARTMENT OF THE NAVY
BASE STRUCTURE ANALYSIS TEAM

FACSIMILE TRANSMISSION

From: David M. Wennergren

To:
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2. Major Chuck Fletcher, Army TABS, Fax: 693-9322
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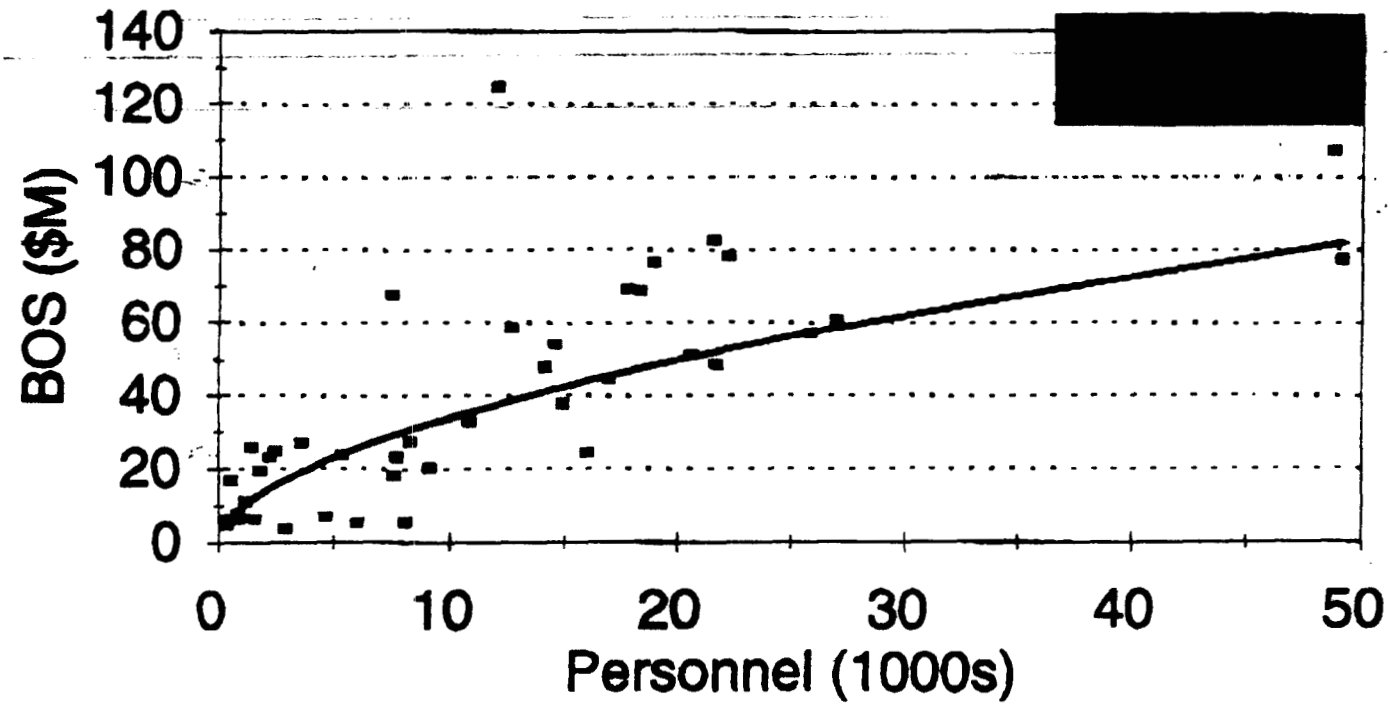

BOS vs. Personnel

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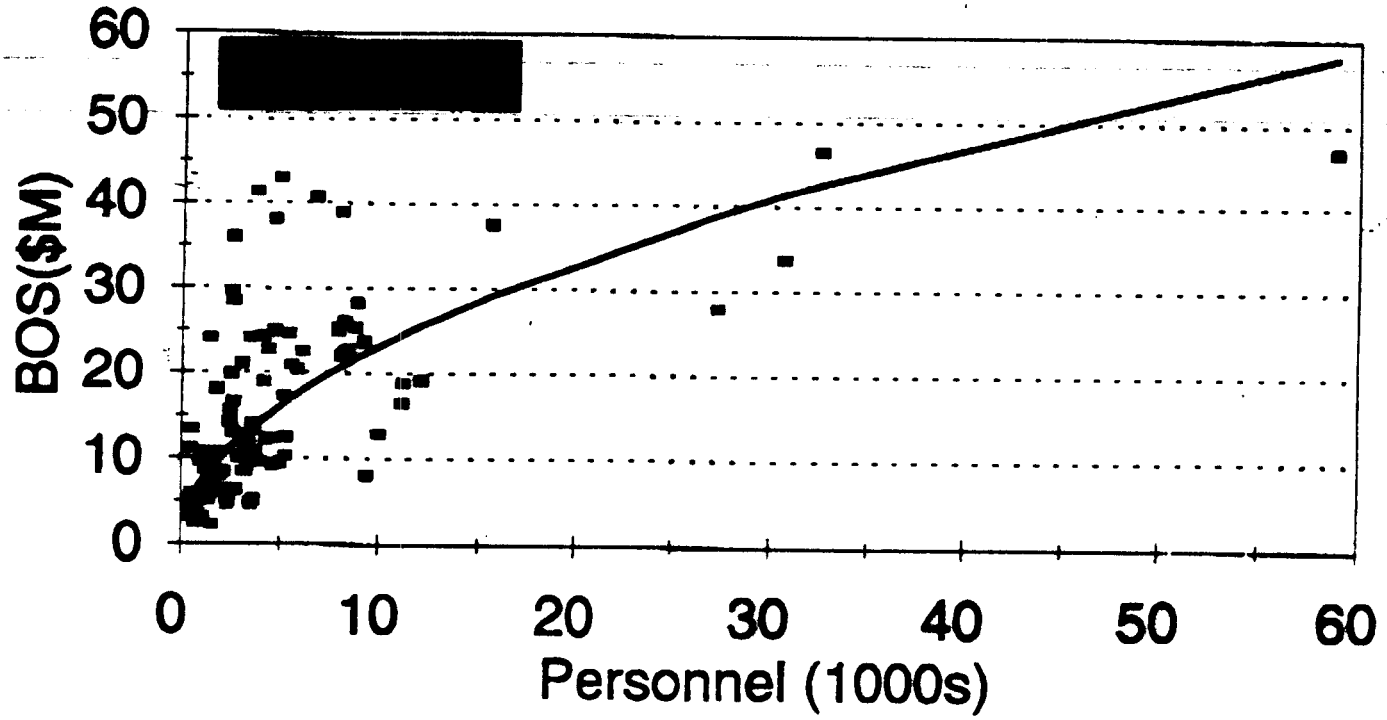
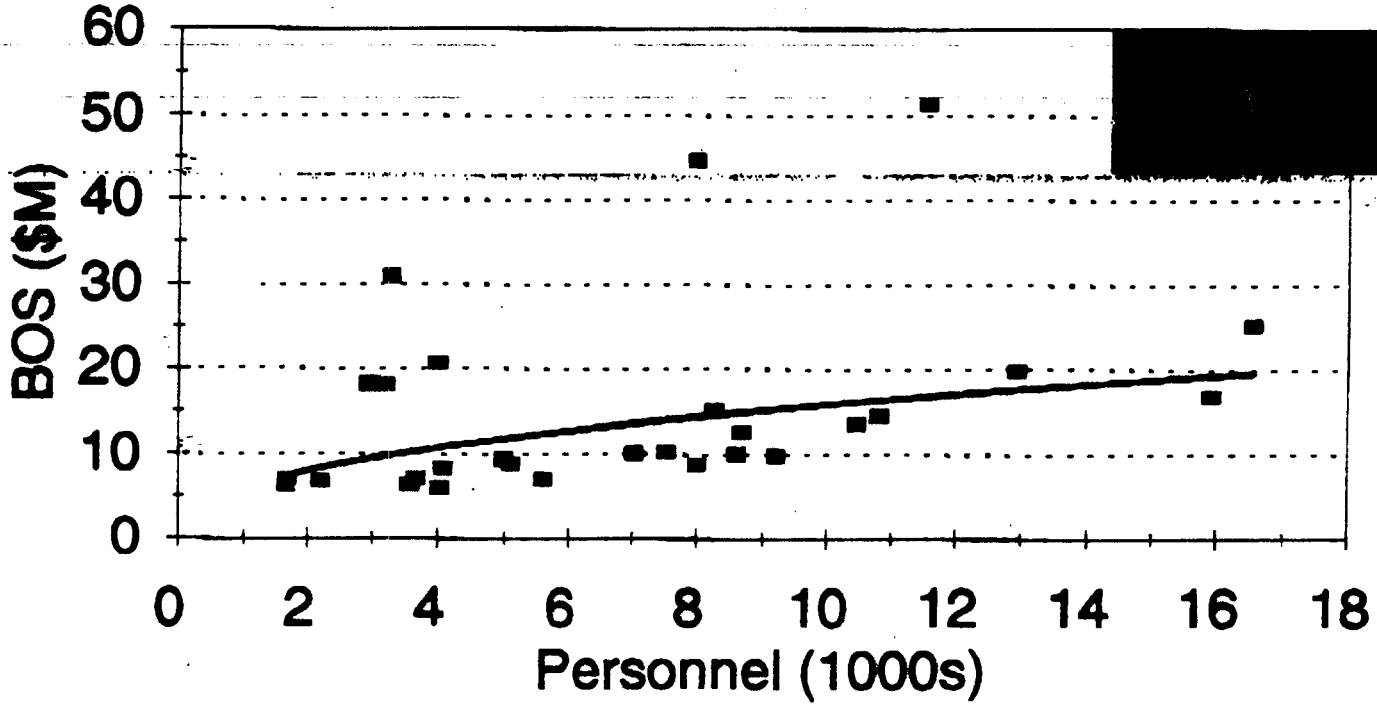


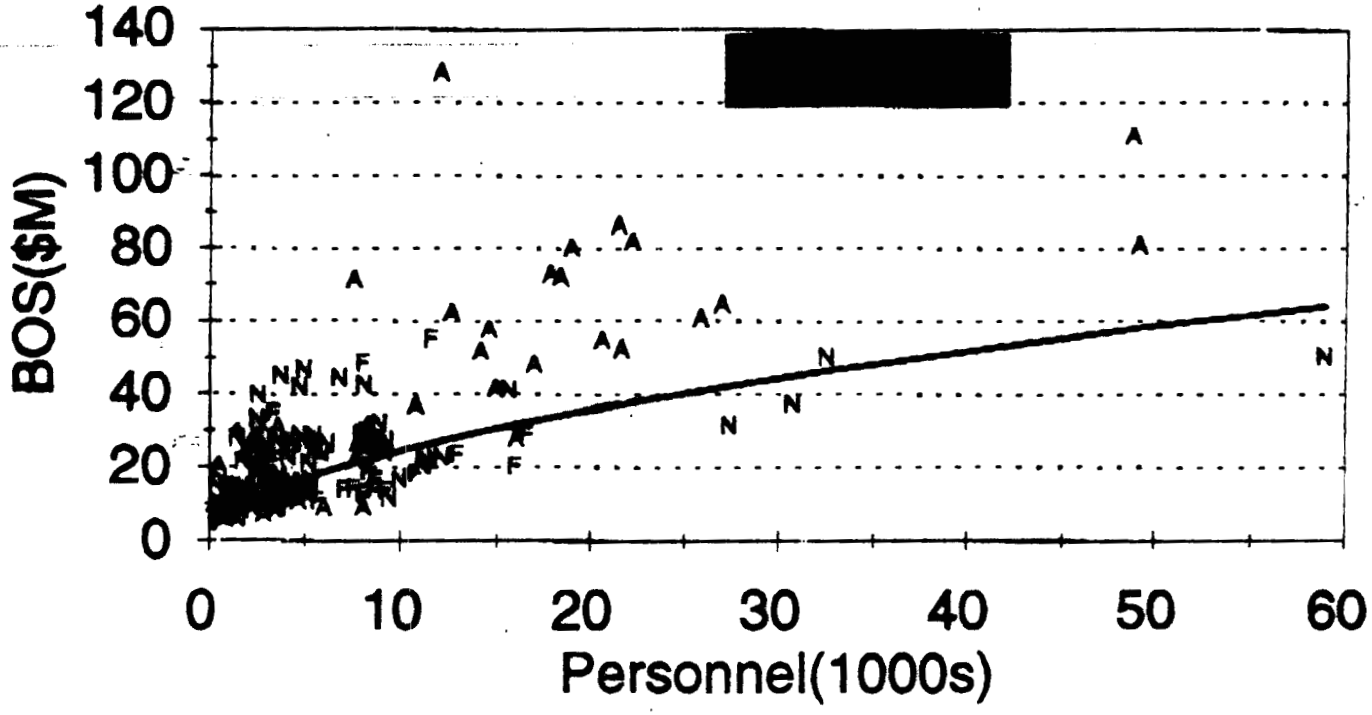
BOS vs. Personnel

USAF commands



BOS vs. Personnel

Tri-Service



Regression Statistics

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R Square	0.508764
Adjusted R Square	0.505769
Standard Error	0.591101
Observations	166

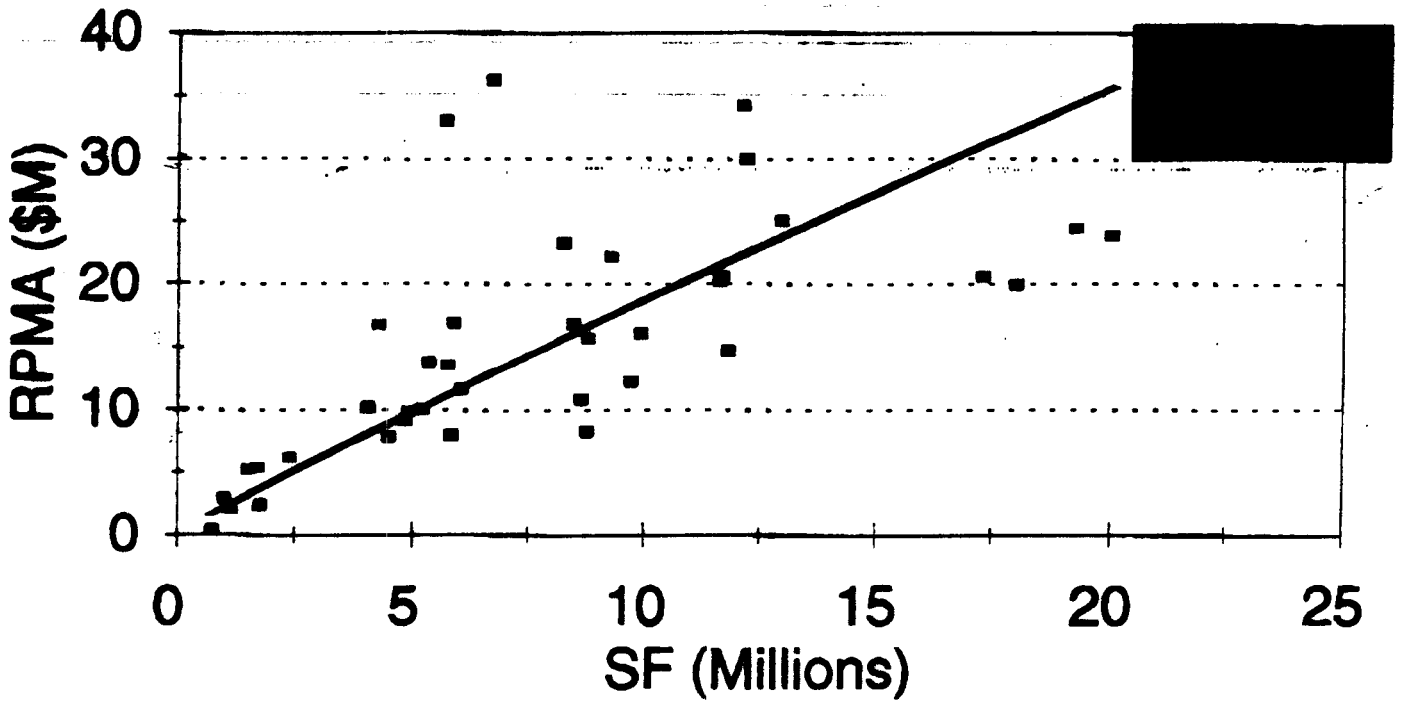
Analysis of Variance

	df	Sum of Sc	Mean Sq	F	Significance F
Regression	1	59.34634	59.346	169.852	******
Residual	164	57.30163	0.349		
Total	165	116.648			

	Coefficie	Standard	t Statistic	P-value	Lower 95.00%
Intercept	1.945525	0.074856	25.990	0.000	1.8
x1	0.543408	0.041696	13.033	0.000	0.46

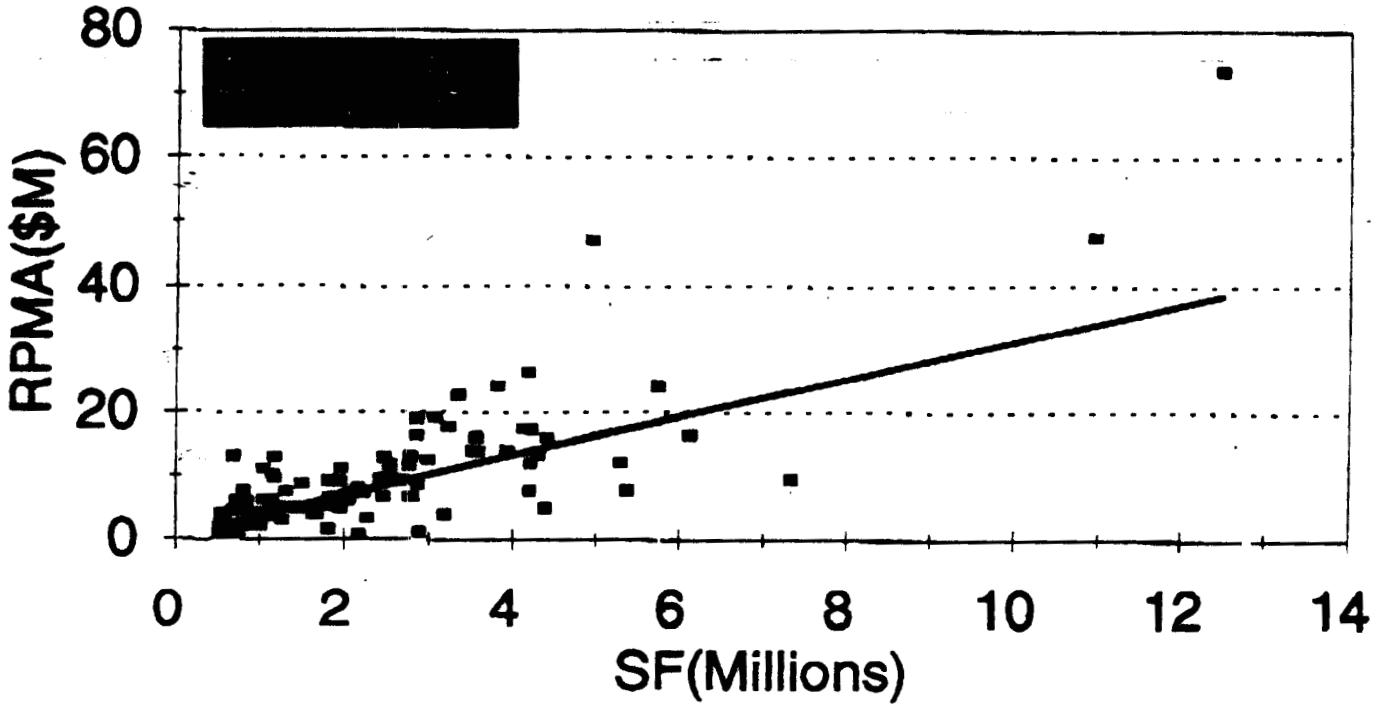
RPMA VS. SF

Army Commands



RPMA vs. SF

Navy Commands



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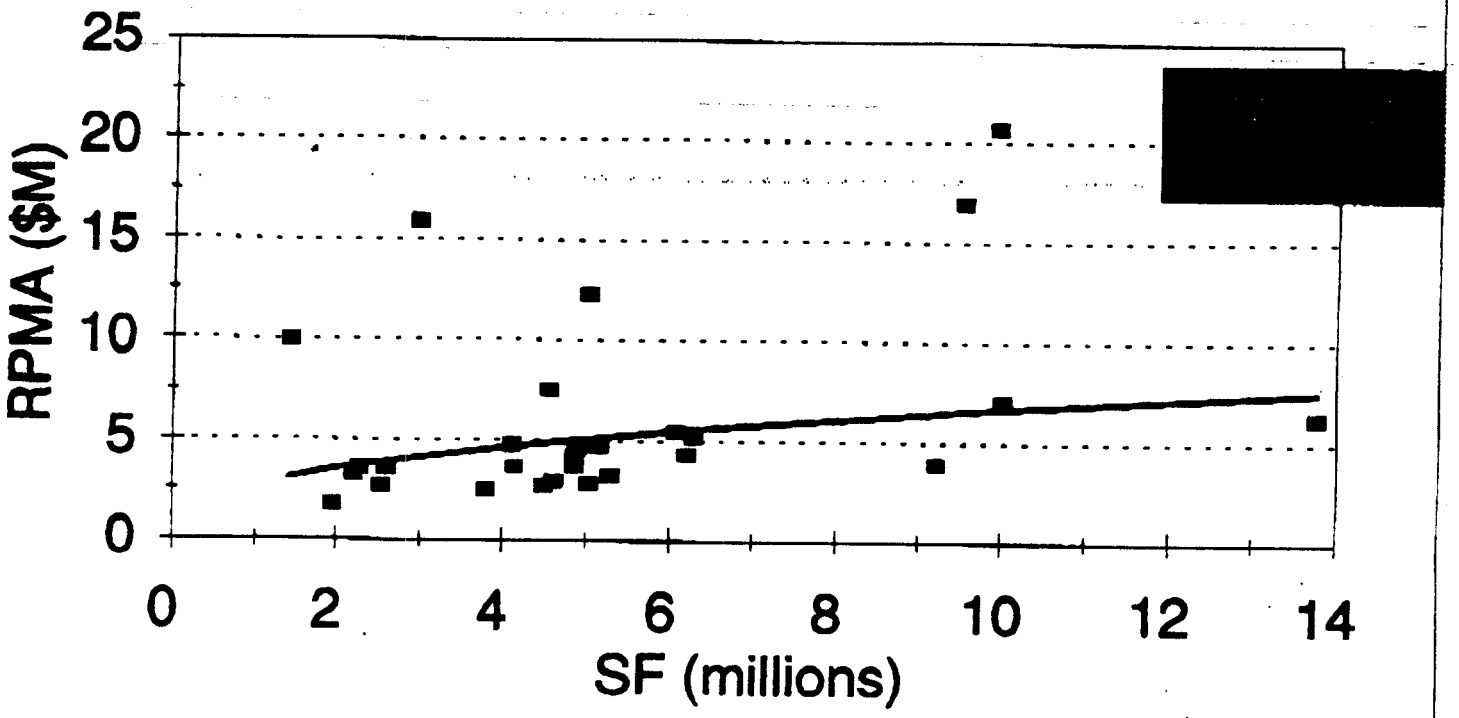
USAF Commands



STANDARD FACTOR #31
BOS POPULATIONS INDEX

1. DESCRIPTION: The exponent of base population, used in Base Operations and Support cost calculations. This represents the nonlinearity of the relationship between change in base population and the change in BOS costs; normal value of this index is $\leq$ 1.0. (Allowed entries 0.00 to 10.00)

2. VALIDATED VALUE: 0.64

3. DATA SOURCE: BRAC 93 Standard Factors.

a. DATE LAST UPDATED: March 1991.

b. DATE OF NEXT UPDATE: Update with BRAC 95 BOS data-TBA.

4. METHODOLOGY: Used an exponential distribution of FY 1990 execution data represented by the equation -

(TOTAL PERSONNEL) RAISED TO THE POWER (0.64)

to describe the cost of providing Base Operating Support at installations. The attached graph represents the difference between actual vs. model predicted values for BOS at 50 installations.

5. VALIDATION PROCEDURE: None.

STATEMENT OF CERTIFICATION:

I certify that the information supplied is accurate and complete to the best of my knowledge and belief.

Charles V. Fletcher
CHARLES V. FLETCHER
MAJ, GS
OPERATIONS ANALYST

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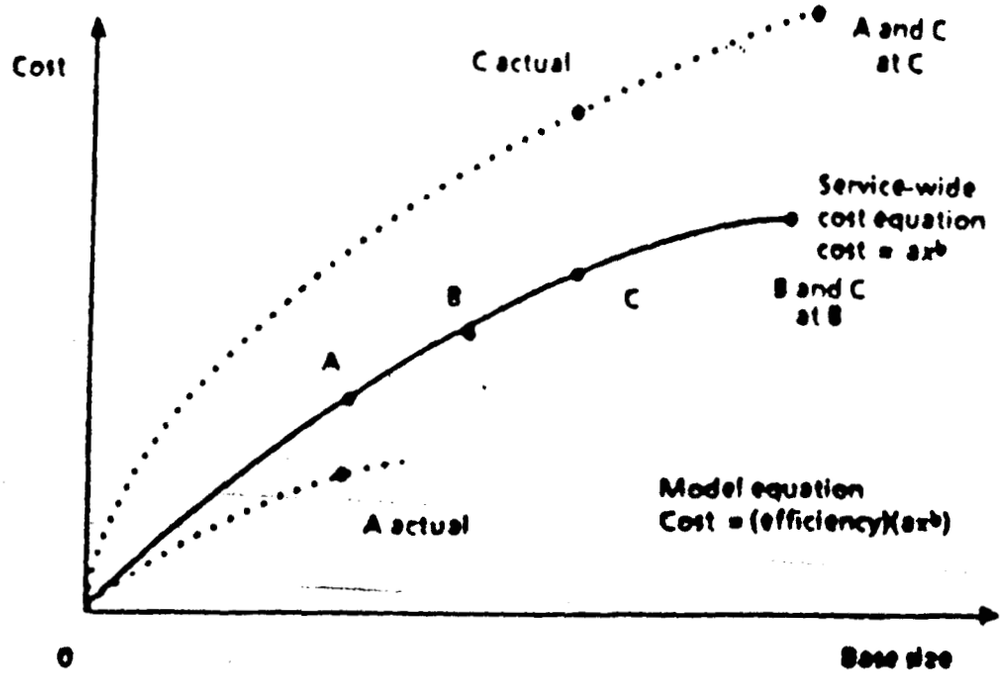


FIG. A-3. THE EXPONENTIAL MODEL

In this model, the COBRA efficiency factor has the effect of expanding or shrinking the curve to approximate the correct size for a specific base. That varies both the conceptual "fixed" cost and the slope of the curve (the per-square-foot cost). Bases A, B and C are shown as examples; notice that the large expensive base C still may allow cost savings: that is, the cost of A and C at C may be less than the combined cost of A and C operating independently. Large savings could be achieved by moving C to B.

The curve shown is notional: the exact shape of the curve for a given Service or MACOM would vary depending on the coefficients used in the cost equation.

COBRA Calculation of Overhead

COBRA includes two components of cost for RPMA: costs attributable to maintenance of buildings, based on a square foot measurement, and cost

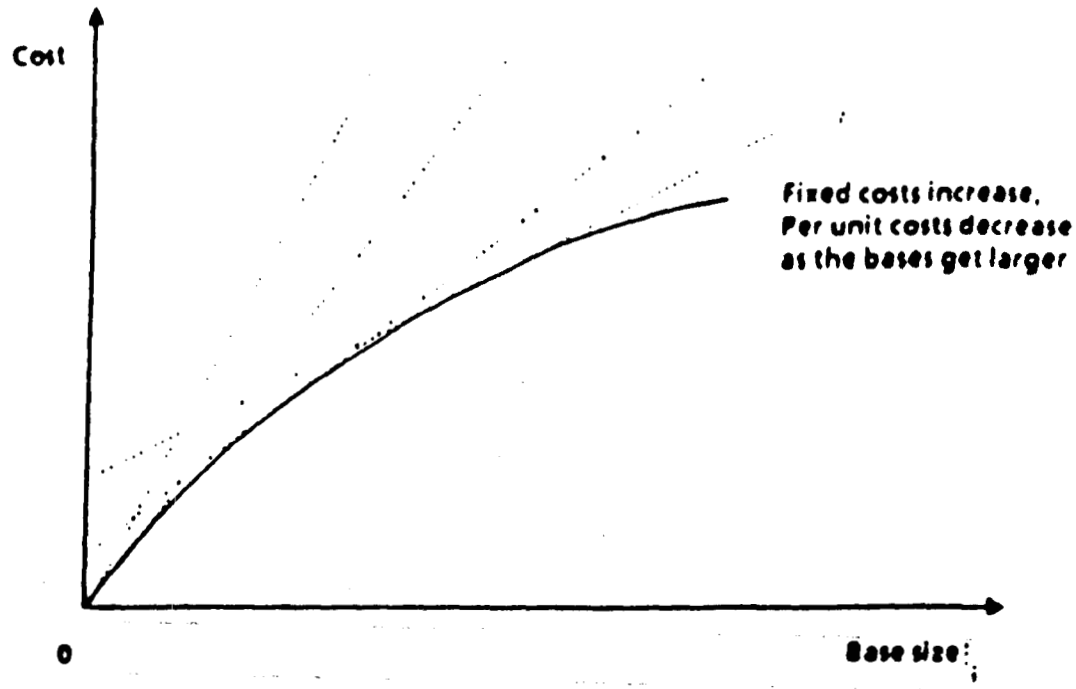


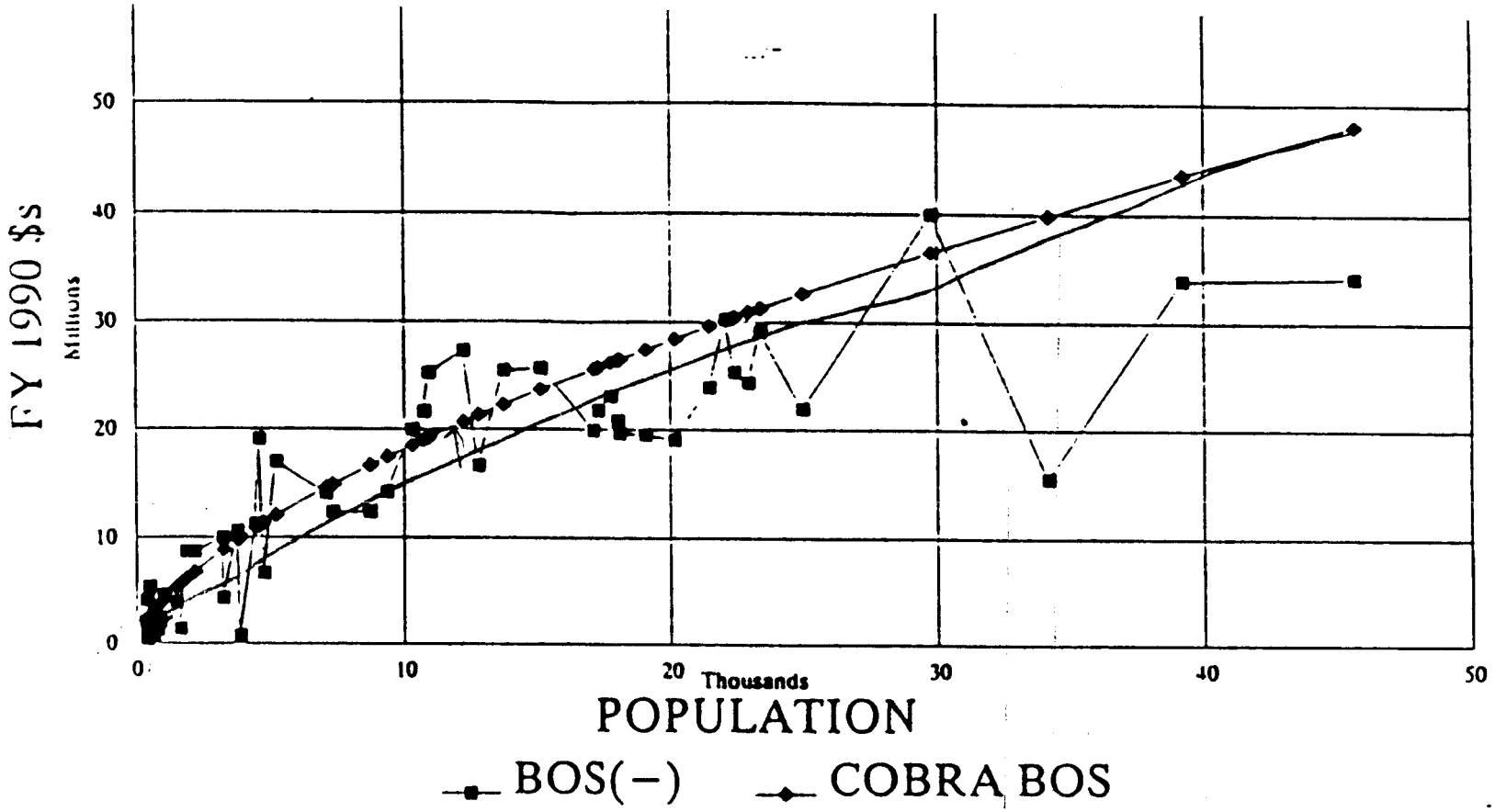
FIG. A-4. EXPONENTIAL AS SUCCESSIVE APPROXIMATIONS

attributable to grounds maintenance, based on an acreage measurement. The equations contained in COBRA for RPMA are:

RPMA budget = efficiency x $a(X_1^b)(X_2^c)$,

where efficiency = actual budget divided by predicted budget
X_1 = square feet of facilities (data input)
X_2 = average on installation (data input)
and a, b, c are model coefficients.

The predicted budget assumes efficiency at 1 to allow the calculation of the efficiency factor. In determining new budgets, the square footage is incremented at the gaining bases by any new construction, and decremented at the losing base by the amount of facilities deactivated, if any. New construction is not assessed a maintenance fee in the first 2 years. Acreage is increased at the gaining bases starting in Year 1 by the amount of any land purchased, and decreased at the losing base beginning in the sale year by the amount of any land sold.



EXPONENT FACTOR USED: 0.64

	NALAVERAGE COST
881	3847
052	3724
853	3706
822	3622
598	3365
325	3149
554	2924
169	2881
187	2679
127	2569
10	2391
62	2025
04	1940
02	1853
74	1434
43	1431
17	1335
90	1319
79	1243
50	1223
34	1202
32	1156
17	1011
10	997
16	925
5	896
0	858
7	843
1	837
0	796
4	779
4	756
3	724
0	686
7	682
5	674
1	670
2	669
3	655
3	638
3	621
0	613
0	609
0	603
	598
	581
	538
	506
	476
	446

CARETAKER ADMIN SPACE

1. Description.

The average administrative space required for each caretaker. (Allowed entries 0 to 1MSF)

2. Validated Value. 162 SF

3. Data Source. July 1994 HQRPLANS space planning criteria. R&K Engineering uses the most recent Corps of Engineers publications, based upon DOD guidance, for unit space planning criteria. Caretaker admin space requirement is the same factor used for HQRPLANS space planning for typical US Army space requirements, as outlined in AR 405-70, Utilization of Real Property, dated 15 September 1993.

a. Date last updated: July 1994

b. Date of next update: September 1994

4. Methodology.

Caretaker Admin requirement is equal to Army Standard used in HQRPLANS.

5. Validation Procedures.

BRAC 93 caretaker admin space need was also 162 SF. Army Standard has not changed since BRAC 93.

STATEMENT OF CERTIFICATION:

I am the proponent for the data element specified in the information above and certify that the information supplied is accurate and complete to the best of my knowledge and belief.

DAVID A. YENTZER
Chief,
Installation Planning Division

MEMORANDUM FOR THE RECORD 3 Oct 94

SUBJECT: DEACTIVATION OF FACILITIES - "MOTHBALL" OR "PICKLING" COST

Each of the Services' Civil Engineers have compiled data showing a wide range of costs for deactivation of facilities. The Air Force defines six discrete levels of maintenance from Level 1, Occupied/Operational; to Level VI, Vacant/Boarded/Abandoned. Level IV, Vacant/Lts-Off/HVAC-Off, represents the most likely level for a closed base. Air Force experience is that the actual cost of labor and materials for the deactivation in FY 1992 dollars was approximately $0.10 per square foot, and the cost of the first year's maintenance at this low level ranged from $0.99 down to zero. The Air Force Materiel Command Civil Engineer reported mothball costs from $1.15 to $1.55 per square foot for 1992 for a combination of industrial and warehouse space.

Army experience was that cost of stabilization was $0.88 per square foot at the Presidio, if the property was to be turned over for use within one year, also 1992 dollars.

For the purposes of COBRA analyses, a representative mid-range value must be selected, recognizing that unusual facilities or climates may result in costs higher or lower than the model factor. I chose $1.25 per square foot, FY 1996 dollars, as it is the approximate mid-point of the range of values we collected.

Sensitivity of total one-time cost of closure and return on investment (ROI) to this factor is minimal. Air Force bases can range from approximately two million square feet for an small pilot training base to more than fourteen million at the largest Air Logistics Centers, but within a category of bases the range is relatively small, generally less than two to one from the largest to the smallest. Any change in the mothball cost factor tends to affect all bases similarly. Total one-time cost of closure can range from approximatley $20-30 million to over $1 billion. Adopting a mothball cost factor at either extreme of our range changes the total cost of closure for low range bases by less than $1 million, and by about $6 million for the largest Air Force base. A change of this magnitude will not materially affect any closure or realignment decision and is unlikely to change the (ROI) year.

STEPHEN SCOVEL
Cost Analyst
SAF/FMCCA

STANDARD FACTOR #34
MOTHBALL COST

1. Description.

The average cost to mothball facilities.(Allowed entries 0.00 to 100.00 $/SF)

2. Validated Value. ~~$1.00/SF~~ – CHANGED to $1.25/SF BASED ON AF DATA. - SEE POLICY MEMO #3 CVF

3. Data Sources.

a. USACERL Tech Report M-91/23, Layaway Procedures for U.S. Army Facilities, Volume 1: Decision Criteria and Economics, dated July 1991.

b. Memorandum for Record, dated 1 October 1992, Subject: TABS 93 -- Data for COBRA, PSF Input.

c. DAIM-FDP-A study dated 13 October 1993, that estimates the mothballing costs for a notional heavy brigade.

a. Date last updated: As Stated

b. Date of next update: N/A

4. Methodology.

Reference 3a. is a study performed by the Construction Engineering Research Laboratory which described the facility layaway procedures for U.S. Army facilities, with an emphasis on Fort Dix, New Jersey. This reference uses a mothball cost of $.58/SF factor, but 70% of the 3.6MSF in the study is WWII Wood.

Reference 3b. documents the factors used by the Presidio of San Francisco to layaway permanent buildings, maintaining outer envelope heat and fire protection (water, alarms) to protect the interior. The factor used for this level of mothballing was $2.62.

Reference 3c. documents a DAIM-FDP-A study to determine mothball costs for a notional heavy brigade. This study cites references 3a. and 3b. and also documents the Fort Hood 2d AD mothball experience with a factor of $.20/SF and the Fort Sheridan AFH deactivating costs factor of $.35/SF. This study selected $1.00/SF as a professionally sound estimate.

5. Validation Procedures.

BRAC 93 mothballing costs were left at $0.00. Professional judgement and the references suggest that the correct number is somewhere between the low of $.20 and the high of $2.62. The low numbers were based on either very short term mothballing or the

mothballing of temporary wood structures. The high of $2.62 were based on maintaining heat and water in buildings which may not be necessary for the mothballing that will be required in BRAC 95. A cost of $1.00 /SF seems to be a logical breakpoint between the high and low estimates contained in the references.

STATEMENT OF CERTIFICATION:

I am the proponent for the data element specified in the information above and certify that the information supplied is accurate and complete to the best of my knowledge and belief.

DAVID A. YENTZER
Chief,
Installation Planning Division

STANDARD FACTOR #35

AVG BACH QTRS (UNACCOMPANIED ENLISTED HOUSING) SIZE

1. Description.

61. The average square feet of unaccompanied enlisted housing (UEH). This is used to calculate the number of UEH spaces a construction project will produce. (Allowed entries 0 to 500 SF)

62. The average square feet of family quarters. This is used to calculate the number of family quarters a construction project will produce. (Allowed entries 0 to 2000 SF)

2. Validated Values. UEH: 388 SF
Family Housing : 1819 SF

3. Data Sources.

July 1994 HQRPLANS Cost Factor and Escalation tables, US Army Corps of Engineers Architectural and Engineering Instructions (AEI), and Jun 1994 Personnel Management Authorization Document (PMAD). R&K Engineering uses most recent Corps of Engineers publications, based upon DOD guidance, for unit cost and inflation factors use in HQRPLANS.

a. Date last updated:

HQRPLANS:	July 1994
AEI:	December 1991
PMAD	June 1994

b. Date of next update:

HQRPLANS:	December 1994
AEI:	unknown
PMAD:	September 1994

4. Methodology.

61. UEH Average size GSF 388 SF based upon new 1 plus 1 standard design for Grades E-1 to E-4.

62. Family Quarters Avg size GSF 1819. NSF from 10 USC 2826

total	13100
average	1456

5. Validation Procedures.

Gross Square Footage for UEPH is based on a 388 GSF standard for the 1 plus 1 design for E1-E4.

Gross Square Footage for Army Family Housing is based upon the Net Square Feet allowances in 10 USC. sec. 2826. The highest and lowest NSF allowances (General Officer and two bedroom units) were eliminated as unlikely to be built. The remaining by grade allowances were averaged to derive 1456 NSF. This figure was then inflated by 25 percent to reflect gross square feet. OSD Housing recommended reference to sec. 2826 to get an average; Army housing stated that they did not use averages, but rather programmed by bedroom requirements. Local housing markets are DODs first source of housing, and are likely to best respond to small unit (2-3 bedrooms) demands quickly. On-post requirements tend to be in the 4-5 bedroom range.

STATEMENT OF CERTIFICATION:

I am the proponent for the data element specified in the information above and certify that the information supplied is accurate and complete to the best of my knowledge and belief.

DAVID A. YENTZER
Chief,
Installation Planning Division

STANDARD FACTOR #36
AVG FAMILY QTRS SIZE

1. Description.

61. The average square feet of unaccompanied enlisted housing (UEH). This is used to calculate the number of UEH spaces a construction project will produce. (Allowed entries 0 to 500 SF)

62. The average square feet of family quarters. This is used to calculate the number of family quarters a construction project will produce. (Allowed entries 0 to 2000 SF)

2. Validated Values. UEH: 388 SF
Family Housing : 1819 SF

3. Data Sources.

July 1994 HQRPLANS Cost Factor and Escalation tables, US Army Corps of Engineers Architectural and Engineering Instructions (AEI), and Jun 1994 Personnel Management Authorization Document (PMAD). R&K Engineering uses most recent Corps of Engineers publications, based upon DOD guidance, for unit cost and inflation factors use in HQRPLANS.

a. Date last updated:
HQRPLANS: July 1994
AEI: December 1991
PMAD June 1994

b. Date of next update:
HQRPLANS: December 1994
AEI: unknown
PMAD: September 1994

4. Methodology.

61. UEH Average size GSF 388 SF based upon new 1 plus 1 standard design for Grades E-1 to E-4.

62. Family Quarters Avg size GSF 1819. NSF from 10 USC 2826

total	13100
average	1456

5. Validation Procedures.

Gross Square Footage for UEPH is based on a 388 GSF standard for the 1 plus 1 design for E1-E4.

Gross Square Footage for Army Family Housing is based upon the Net Square Feet allowances in 10 USC. sec. 2826. The highest and lowest NSF allowances (General Officer and two bedroom units) were eliminated as unlikely to be built. The remaining by grade allowances were averaged to derive 1456 NSF. This figure was then inflated by 25 percent to reflect gross square feet. OSD Housing recommended reference to sec. 2826 to get an average; Army housing stated that they did not use averages, but rather programmed by bedroom requirements. Local housing markets are DODs first source of housing, and are likely to best respond to small unit (2-3 bedrooms) demands quickly. On-post requirements tend to be in the 4-5 bedroom range.

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DAVID A. YENTZER
Chief,
Installation Planning Division

STANDARD FACTOR #37
REHAB vs. NEW CONSTRUCT

1. Description.

The average percent of new construction costs required to rehabilitate a space of equal size. This factor is used to adjust project costs for rehabilitation rather than new construction. (Allowed entries 0.0 to 100.0 percent)

2. Validated Value 59%

3. Data Sources. July 1994 BRAC Construction Database (DAIM-FDP-A)

a. Date last updated: July 1994

b. Date of next update: Monthly

4. Methodology.

BRAC 91 used a rehab factor of 60%. The AAA audit of BRAC 91 specified that 60% was too low and that 75% should be used. For BRAC 93, 75% was used based on the AAA comments during BRAC 91. However, during BRAC 93, the Army was cited by the AAA for using 75% without adequate documentation in a draft finding that was not published. In an effort to improve the documentation of this factor more research was done.

Ms Beth Baden and Mr Bob Long from HQUSACE were contacted as subject matter experts. The reference HQUSACE uses to determine renovation costs is TM 5-800-4, Programming Cost Estimates for Military Construction. This is a complex cost estimating Technical Manual that is not conducive for use with the COBRA Standard Factor process.

Mr Robert Suchan of the U.S. Army Cost & Economic Analysis Center was also called as a subject matter expert. He is managing the cost factors that are being used for the Installation Status Report (ISR). Among those factors is a factor by FCG that represents the percent of new construction cost to upgrade a facility from "RED" status to "GREEN" status. The listing of those percentages for facilities measured in square feet is attached..

Review of these factors shows that rehabilitation costs vary by FCG from a low of 18% for FCG 43200, Cold Storage-Installation, to a high of 85% for FCG 17120, General Instructional Buildings.

Since the COBRA model is not currently designed to handle multiple percentages based on FCG, a strategy was developed to use the average of the existing BRAC renovation projects by FCG weighted by total project square footage.

The table titled BRAC RENOVATION PROJECTS attached shows the summation of the 25 BRAC projects by FCG & BRAC round. The weighted average of the ISR FCG Cost Factors is calculated to be 59%.

5. Validation Procedures.

The factors used in ISR have good credibility, are easy to audit and, according to Mr Bob Conte, Project Manger for the ISR project, these factors were validated twice against actual DD Form 1483 (Work Orders) at 25 Installations with an "error" rate of only 15%, which would be covered by the "contingency" factor normally included in the COBRA model.

STATEMENT OF CERTIFICATION:

I am the proponent for the data element specified in the information above and certify that the information supplied is accurate and complete to the best of my knowledge and belief.

DAVID A. VENTZER
Chief,
Installation Planning Division

05 05 94

RENOVATIO. COSTS BY FCG

FCG	DESCRIPTION	% OF NEW CONSTRUCTION
14110	AF OPS BLDG	0.71
14112	AV UNIT OPS BLD	0.65
14182	BDE HQ BLDG	0.71
14183	BN HQ BLDG	0.40
14185	CO HQ BLDG	0.41
14310	MISC SHIP OPS	0.71
17112	FLIGT SIM BLGD	0.58
17115	BAND TRAIN FAC	0.72
17120	GEN INST BLDGS	0.85
17121	INDOOR FIRE RG	0.72
17130	APPL INST BLDG	0.58
17140	AR CENTER	0.72
17142	NG CENTER	0.72
17160	TASC	0.72
17182	TRGT MOV SIM BD	0.58
21110	MT HNGR AVUM	0.68
21111	MT HNGR AVIM	0.71
21120	MISC ACFT MAINT	0.71
21210	GM MAINT BLDG	0.71
21407	NG MAINT FAC	0.67
21409	AR MAINT FAC	0.67
21410	VEH MNT SH ORG	0.54
21420	VEH MNT SH DS	0.50
21435	VEH REBUILD FAC	0.71
21510	GUN/WPN REPAIR	0.71
21610	AMMO MAINT FAC	0.71
21800	SP PURP MNT SHP	0.71
21810	PAR/ABN EQP REP	0.71
21830	MISC MAINT BLDG	0.55
21900	MNT INST O&R	0.71
22110	AC PROD BLDG	0.76
22210	GM PROD BLDG	0.76
22310	SHIP PROD BLDG	0.76
22410	TANK/AUTO PROD	0.76
22510	WEAPON PROD BLD	0.76
22610	EXPLOSIVE PROD	[illegible]

FCG	DESCRIPTION	% OF NEW CONSTRUCTION
22710	COMMO PROD BLDG	0.76
22810	LTHR & TEX PLNT	0.76
22820	CONST EQP PLANT	0.76
22830	RR EQP PLANT	0.69
22840	PRINT PLANT	0.76
22890	MISC PROD BLDG	0.76
31010	RDT&E LABS	0.71
31110	AC RDT&E	0.71
31210	MSL SPACE RDT&E	0.71
31310	MAR RDT&E	0.71
31410	TANK/AUTO RDT&E	0.71
31510	WEAPON RDT&E	0.71
31610	EXPLOSIVE RDT&E	0.71
31710	ELEC RDT&E	0.71
31810	PROP RDT&E	0.71
31910	NON-METAL RDT&E	0.55
32010	UND-WAT EQU RDT	0.71
32110	TECH SERVICE	0.71
42100	AMMO STOR-DEP	0.36
42200	AMMO STOR-INST	0.36
43200	COLD STOR-INST	0.18
44100	GEN P WH-DEP	0.52
44200	GEN P WH-INST	0.38
44230	CONT HUM WH	0.52
44240	INFL MATLS WH	0.35
44260	VEH STOR SHED	0.52
51010	HOSPITAL	0.82
53040	VET FACILITY	0.40
54010	DENTAL CLINIC	0.83
55010	HEALTH CLINIC	0.83
61050	GEN PURP ADMIN	0.47
72100	ENL UPH	0.41
72114	EN BKS AT/MOB	0.64
72170	SR ENL QTRS	0.55
72181	ENL BKS TRAINEE	0.39
72200	UPH INDIV FAC	0.38

FCG	DESCRIPTION	% OF NEW CONSTRUCTION
72400	OFF UPH	0.2
73010	FIRE STATION	0.7
73015	CONFINEMENT FAC	0.3
73020	CHAPEL CTR FAC	0.2
73028	DRUG ABUSE CTR	0.4
73030	LNDRY/DRYCL FAC	0.3
73048	DEPN GR SCH	0.5
73049	DEPN HIGH SCH	0.5
73073	POST OFFICE	0.3
74006	BANK	0.3
74010	AUDTM GEN PURP	0.4
74011	BOWLING CTR	0.6
74014	CHILD SPT CTR	0.6
74021	COMMISSARY	0.2
74022	SKILL DEV CTR	0.5
74024	SKILL CTR AUTO	0.5
74025	ACES FACILITY	0.5
74028	PHYS FIT CTR	0.3
74032	TRANS HSG FAC	0.3
74033	COMMUNITY CTR	0.4
74041	LIBRARY CTR	0.4
74046	OPEN DINING FAC	0.6
74052	EXCH SVC STA	0.6
74053	EXCH MAIN RETL	0.7
74064	REST/CAFE	0.6
74066	YOUTH CENTER	0.4
74069	RECREATION BLDG	0.4
76010	MUSEUM	0.7

BRAC RENOVATION PROJECTS

	BRAC	Data									
	BRAC 1		BRAC 91		BRAC93		Total SF SUM	Total PROJ CNT	FCG	ISR FCG	SF*FACTOR
CATCD	SF SUM	PROJ CNT	SF SUM	PROJ CNT	SF SUM	PROJ CNT				COST FACTOR	PRODUCT
14184	16365	1	0	0	0	0	16365	1	14182	0.71	11619.15
17120	0	0	44295	1	0	0	44295	1	17120	0.85	37650.75
17130	31613	1	141486	2	0	0	173099	3	17130	0.58	100397.42
17140	28160	1	388504	1	0	0	416664	2	17140	0.72	299998.08
21210	0	0	0	0	150188	2	150188	2	21210	0.71	106633.48
31220	0	0	4794	1	0	0	4794	1	31210	0.71	3403.74
31740	0	0	118292	1	0	0	118292	1	31710	0.71	83987.32
51010	34589	2	0	0	0	0	34589	2	51010	0.82	28362.98
51090	0	0	12980	1	0	0	12980	1	51010	0.82	10643.6
61018	0	0	280000	2	0	0	280000	2	61050	0.47	131600
61031	14185	1	0	0	0	0	14185	1	61050	0.47	6666.95
61041	6136	1	0	0	0	0	6136	1	61050	0.47	2883.92
61050	238789	4	125071	2	0	0	363860	6	61050	0.47	171014.2
72111	0	0	192855	1	0	0	192855	1	72100	0.41	79070.55
Grand Total	369837	11	1308277	12	150188	2	1828302	25			1073932.1
ISR-FCG COST FACTOR WEIGHTED AVERAGED BASED ON TOTAL SF=										0.59	

Source: July 94 BRAC Construction Database

STANDARD FACTOR #38
INFO MANAGEMENT ACCOUNT

1. DESCRIPTION: The average percent of project cost required to provide communications; only used for projects measured in square feet.

2. VALIDATED VALUE: 15% on the average; 13% for new construction and 17% for renovation work

3. DATA SOURCE: BRAC 1, 91, and 93 planning estimates and actual costs, where available.

a. DATE LAST UPDATED: 30 Jul 94

b. DATE OF NEXT UPDATE: As Required

4. METHODOLOGY: For analysis purposes, the average cost of information systems associated with military construction or renovation projects is estimated to be an additional 15% of the total project cost. A more precise percentage depends upon the type of facility to be constructed, whether the project is new work or renovation work, and the communications infrastructure that is in place to support the finished facility. However, 15% is reasonable when viewed across the entire spectrum.

The cost of information systems associated with a project to construct an Information Systems Facility (ISF) could be as high as 50% of the total project cost. In such an example, the information systems costs would be severely underestimated using 15%. A barracks or warehouse would be significantly over estimated using 15%. To refine the analysis, the IMA factor should be applied in accordance with the type of facility being considered and whether it is new construction or renovation, as suggested below.

Also, when considering a renovation project, versus a new construction, the IMA percentage factor should be increased by 30%. [The ratio of IMA cost to the lower renovation cost per SF of space is a higher percentage than for new construction.]

a. Instructional Facilities: 10% new
13% renovation

b. Administrative Facilities: 20% new
26% renovation

Note: This assumes state-of-the-art technology, high volume of personal computers, local area networks, provision for fiber optic distribution systems, and expansion or placement of local Switching Nodes.

c. Troop Facilities (barracks/dining): 6% new
8% renovation

d. Industrial Facilities:

Laboratory: 12% new
16% renovation

Note: This assumes a high tech facility with computer based research/analysis type equipment requiring high speed data transfer.

Non-Lab (Warehouse/storage facilities, vehicle maintenance, etc.): 2%

5. VALIDATION PROCEDURE: Actual experience with BRAC projects and analysis of historical data.

STATEMENT OF CERTIFICATION:

I am the proponent for the data element specified in the information above and certify that the information supplied is accurate and complete to the best of my knowledge and belief.

Catherine A. Michaliga
CATHERINE A. MICHALIGA
Chief
USAISC BRAC Office-
Fort Ritchie

DEPARTMENT OF THE ARMY
UNITED STATES ARMY INFORMATION SYSTEMS COMMAND
BASE REALIGNMENT AND CLOSURE OFFICE
312 ARGONNE AVENUE
FORT RITCHIE, MARYLAND 21719-3100

REPLY TO ATTENTION OF

27 JUL 1994

ASSD-SS-R (5-10c)

MEMORANDUM THRU Commander, HQ, USAISC, ATTN: ASSD-SS, Fort Huachuca, Arizona 85613-5000

FOR Headquarters, Department of the Army, ATTN: SAIS-PPG, Washington, DC 20310-0107

SUBJECT: Standard Factors for the Cost of Base Realignment Actions (COBRA) Model (BRAC 95 Data Call #9)

1. References.

a. Memorandum, DACS-TABS, 7 Jul 94, Subject as above.

b. Memorandum, HQDA, SAIS-PPG, undated, Subject as above.

2. In response to references, we have analyzed planning data and actual data, where available, from the BRAC Construction Army program for the BRAC 1, 91 and 93 programs. Based on this analysis, we have concluded that the Information Mission Area (IMA) standard factor (#63) of 15% is a fair average, if no other considerations can be evaluated.

3. However, an average standard factor of 13% is more accurate for new construction, and an average of 17% is more accurate for renovation. Typically, the absolute cost of IMA will be the same for new construction or renovation because the IMA cabling and systems upgrades are newly installed to bring the facility to IMA standards. However, because the cost of renovation work is less per square foot than new construction, the ratio of IMA to renovation is a higher percentage of the total project cost. It follows than that, since the cost of new construction is higher, the ratio of IMA to new construction is a lower percentage of the total project cost.

4. The type of facility and the condition and capacity of the existing information systems infrastructure will also impact on the actual IMA percentage. If this criteria is known, the IMA factor should be adjusted, as recommended in the enclosure certification. These percentages are averages, based on our experience with the BRAC construction program, to date. We can

provide the detailed documentation which was used to derive these percentages, if required. Our certification statement is enclosed.

5. We are anticipating your need for our support associated with a particular COBRA scenario. Therefore, we are prepared to do detailed IMA cost estimates to support your analysis, if funding can be provided to support this requirement.

6. USAISC - Voice of America's Army.

CATHERINE A. MICHALSKA
Chief
USAISC BRAC Office-
Fort Ritchie

Encl

CF:
HQDA, ATTN: DAIM-BO
HQDA, ATTN: DAEN-ZCI-A

STANDARD FACTOR #39
DESIGN PERCENTAGE

1. Description.

The average percentage of construction project cost that must be allowed to accomplish planning and design.

2. Validated Value. 10 percent

3. Data Sources.

1) MCA Planning and Design briefing to ACE 30 Jan 92 CEMP-MA Mr. Phil Hunt, (202) 272-1995

2) LMI MCA Planning and Design Funding Requirements, Nov 90

a. Date last updated: FY 94/97 P&D programmed on the basis of the formula in source 1 and was accepted by OSD.

b. Date of next update: unknown

4. Methodology.

Army MCA uses an assumption that P&D is 9 percent of project cost. This assumption is based upon historical Army, Navy, and AF costs as analyzed by Logistics Management Institute. Based on professional judgement, an additional one percent is added to that figure to fund a compressed design schedule.

5. Validation Procedures.

Planning and Design factor has not changed from the AAA validated factor used in BRAC 91 & BRAC 93. BRAC design and construction schedules are often compressed due to the need to complete an action within a statutory time limit or to quickly generate savings. An additional one percent of planning and design gives the decision maker flexibility to choose to pay a premium for speed.

STATEMENT OF CERTIFICATION:

I am the proponent for the data element specified in the information above and certify that the information supplied is accurate and complete to the best of my knowledge and belief.

DAVID A. YENTZER
Chief,
Installation Planning Division

STANDARD FACTOR #40
SIOH PERCENTAGE

1. Description.

The average percentage of construction cost which must be added to project cost to cover project Supervision, Inspection, and Overhead (SIOH). (Allowed entries 0.0 to 100.0 percent)

2. Validated Value. 6.0 percent

3. Data Sources.

All CONUS FY 94/97 projects have SIOH of 6.0 percent. This cost is standard in the 1391 processor. Only projects built OCONUS have a different value.

a. Date last updated: Projects are updated continuously. Cost is governed by AR 415-15, dated 1 December 1983.

b. Date of next update: N/A

4. Methodology.

All current FY 94/97 projects were reviewed for the SIOH percentage. All CONUS projects had a SIOH value of 6.0 percent.

5. Validation Procedures.

HQUSACE confirms that SIOH is a standard factor used in the DD1391 processor, with limited opportunity for change. This is the same percentage used for BRAC 91 & BRAC 93, validated by AAA at that time.

STATEMENT OF CERTIFICATION:

I am the proponent for the data element specified in the information above and certify that the information supplied is accurate and complete to the best of my knowledge and belief.

DAVID A. YENTZER
Chief,
Installation Planning Division

b. Line item appropriation of funds is required on each project in MCA, MCDM, and AFH programs.

Chapter 5
Execution

5–1. Coordination

a. Effective project development, design management, and cost engineering require close coordination among the using agency, installation, MACOM, USACE, and HQDA.

b. The USACE commander will normally delegate authority to the USACE MSC commander to execute MILCON projects. This authority is typically redelegated to the USACE district commander assigned for military support in a particular geographic region. The USACE MSC and district will normally perform direct management of the design and construction of the MILCON project.

c. MILCON programs should normally be obligated in the first quarter of the program year.

d. Guidance on design of specific facilities is provided in appendix K.

5–2. Design management

a. The cost to complete engineering and design of a project will be in accordance with HQUSACE guidance.

b. DA Standard Designs will be used for design development, if available. Standard designs may be tailored to the specific requirements of the project and adapted to the Installation Design Guide.

(1) DD Forms 1391-EF will indicate if standard designs are being used. If an available DA Standard Design is not to be used, the DD Form 1391-EF will include justification in the supporting paragraphs.

(2) When using a DA Standard Design, deviations from mandatory design elements require a waiver. Requests for such waivers will be addressed to HQUSACE (CEMP-E).

c. Concept designs are governed first by the scope and then by the cost of the project, as defined in the DD Form 1391-EF. Final designs are governed principally by the cost of the project as reflected in DEPSECDEF program approvals during the PBD cycle. Congressional changes will be incorporated by the USACE district and coordinated with the MACOM per instructions issued by HQDA (DAIM-FD) through HQUSACE (CEMP-M).

d. Reviews of project documentation on preliminary, concept, and final designs will be conducted by authorized representatives from MACOMs, installations, using agencies, and USACE.

e. Any deviation in primary facility scope must be within standards or criteria, and must be approved by HQDA (DAIM-FD) in coordination with the DA staff proponent.

f. A value engineering (VE) study will be made on each project with a programmed amount exceeding $2 million.

g. A project management plan will be developed by the USACE district for each project. The project management plan will establish scope, schedule, budgets, interface with the user, and technical performance requirements for the management and control of the project. The plan will provide performance measurement criteria including major milestones. In addition, the plan will document the USACE and user commitments required for project execution.

5–3. Design directives

a. Design directives authorize various stages of project design, indicate project scope and cost, and provide special instructions for the design of the project. The design execution process is managed, in part, by using design codes. Since design funds are centrally managed, only HQUSACE (CEMP-M) has the authority to issue a design code to the appropriate USACE MSC or district.

b. Design codes are defined as follows:

(1) *Code 1.* Project is authorized for design development. Preparation of concept design is authorized. Approved concept design is considered to be 35 percent of the total design effort. Selection and negotiation (not award) of an architect-engineer (A-E) contract for concept design is authorized.

(2) *Code 2.* Award of design contract is authorized. Preparation of concept design is authorized. Approved concept design is considered to be 35 percent of the total design effort.

(3) *Code 3.* Project is authorized for a non-traditional acquisition process.

(4) *Code 4.* The project design is on hold, pending a supplemental design directive.

(5) *Code 5.* The project is deferred from the program. Do not start design. If concept or final design of the project by USACE district in-house personnel has begun, it will be terminated. If concept or final design is being accomplished by A-E contract, it will be concluded per paragraph 5–4 *d*.

(6) *Code 6.* The project is authorized for final design.

(7) *Code 7.* Not used.

(8) *Code 8.* The project is canceled and if design is being accomplished by A-E contract, it will be concluded per paragraph 5–4 *d*.

(9) *Code 9.* A construction contract (or design-construct contract) is authorized for award.

5–4. Architect-Engineer contracts

a. The contracting officer may contract for A-E services for execution of the design.

b. The fee under any A-E contract for services for developing plans and specifications will not exceed 6 percent of the estimated cost of construction. The 6 percent statutory limitation applies only to production and delivery of design plans and specifications for construction. The costs of non-design services, including the following, are exempt from 6 percent limitations:

(1) Project development
(2) Engineering feasibility
(3) Deficiency studies
(4) Site investigations
(5) Subsurface explorations
(6) Surveys
(7) Shop drawing review
(8) Construction inspection
(9) Preparation of operating manuals and similar activities
(10) Furniture-related interior design
(11) Construction cost estimates
(12) Economic analyses
(13) National pollution discharge elimination system (NPDES) and other environmental permits
(14) Hazardous, toxic, and radioactive waste (HTRW) surveys.

c. If design costs are estimated to exceed $300,000 (the amount specified in 10 USC 2807), award of A-E contract or initiation of in-house design will not be accomplished until HQDA fulfills all congressional notification requirements mandated by Section 2807.

d. A deferred or canceled project may require termination of the A-E contract. Work must cease or be completed through the next logical stopping point. If an A-E contract is not terminated, HQUSACE will immediately notify HQDA (DAIM-FD) who, in turn, will notify DASA(IH).

e. Projects in the National Capital Region require review by the National Capital Planning Commission or the Commission of Fine Arts, or both. Provision must be made in A-E contracts to accommodate the presentations needed to seek necessary approvals.

5–5. Pre-design activities

a. Pre-design activities will begin when a Code 1 design directive is received from HQUSACE. Unless otherwise directed, pre-design activities require the following documentation before beginning:

(1) MACOM approved DD Form 1391-EF.

(2) Architectural and engineering instructions, or special instructions issued by HQUSACE, if required.

STANDARD FACTOR #41
CONTINGENCY PERCENTAGE

1. Description.

Percentage added to the estimated contract cost, to cover unforeseen construction problems which could increase the cost of a project.

2. Validated Value.

New Construction	5%
Renovation	10%
COBRA Value	7%

3. Data Sources.

All CONUS FY 94/97 projects have a contingency of either 5 or 10 percent. These are standard factors in the 1391 processor.

a. Date last updated: Projects are updated continuously. Cost is governed by AR 415-15, dated 1 December 1983.

b. Date of next update: N/A

4. Methodology.

Current FY94/97 projects were reviewed for the Contingency percentages. All CONUS projects had a contingency percentage of either 5 percent for new construction or 10 percent for renovation. Renovation is higher since once demolition occurs, the contractor may find more significant and costly problems than when building new. An average of the two factors, rounding down to allow for preponderance of new construction over renovation results in the validated value.

5. Validation Procedures.

HQUSACE confirms that contingency is a standard factor used in the DD1391 processor, with limited opportunity for change. This is the same percentage used for BRAC 91 & BRAC 93, validated by AAA at that time. An average is used since the standard factor must apply to both new construction and to renovations.

STATEMENT OF CERTIFICATION:

I am the proponent for the data element specified in the ihformation above and certify that the information supplied is accurate and complete to the best of my knowledge and belief.

DAVID A. YENTZER
Chief,
Installation Planning Division

STANDARD FACTOR #42
SITE PEP PERCENTAGE

1. Definition. The average percent of construction cost which must be added to to project cost to cover site preparation of the construction area and supporting facilities. Allowed entries 0.0 to 100.0 percent.

2. Validated Value: 24 percent

3. Data Source. HQRPLANS Construction Cost Factor Report.

   a. Date last updated: July 1994

   b. Date of next update: December 1994

4. Methodology.

The methodology to determine this factor is to take the average project cost factor found in HQRPLANS for all FCG with unit measure (UM) of SF, subtract 11% for SIOH and contingency, then add in 6% for MCA support to IMA. The result is a 24% Site Prep/Support Facilities factor.

The MCA unit cost factors for FCGs with a UM of SF include $10/SF to account for the costs of demolition generally required before a new building may be constructed. The $10/SF includes costs of physical demolition as well as an average level of asbestos/lead paint removal. FCG project cost factors include supervision, inspection and overhead (SIOH), Contingency and Support Facilities factors. Pre-construction planning and design is not included.

The FCG that follow were included in the above calculations:

HQRPLANS — FCG CONSTRUCTION COST FACTORS FY 1994 — Database Ver 4.10

FCG	FCG DESCRIPTION	UM	MCA UNIT COST FACTOR	PROJECT COST FACTOR
14110	AF OPS BLDG	SF	135.67	1.33
14112	AV UNIT OPS BLD	SF	129.35	1.33
14182	BDE HQ BLDG	SF	112.53	1.33
14183	BN HQ BLDG	SF	112.53	1.33
14185	CO HQ BLDG	SF	112.53	1.33
+14310	MISC SHIP OPS	SF	97.80	1.33
+17112	FLIGT SIM BLGD	SF	121.99	1.28
17115	BAND TRAIN FAC	SF	107.27	1.28
17120	GEN INST BLDGS	SF	97.80	1.28
17121	INDOOR FIRE RG	SF	99.91	1.28
17130	APPL INST BLDG	SF	107.27	1.28
+17140	AR CENTER	SF	91.50	1.28
+17142	NG CENTER	SF	91.50	1.28

17160	TASC	SF	106.21	1.28
+17182	TRGT MOV SIM BD	SF	107.27	1.28
21110	MNT HANGAR AVUM	SF	106.21	1.28
21111	MNT HANGAR AVIM	SF	139.87	1.28
+21120	MISC ACFT MAINT	SF	139.87	1.28
+21210	GM MAINT BLDG	SF	152.49	1.28
+21407	NG MAINT FAC	SF	100.95	1.28
+21409	AR MAINT FAC	SF	100.95	1.28
21410	VEH MNT SH ORG	SF	108.32	1.28
21420	VEH MNT SH DS	SF	102.01	1.28
+21435	VEH REBUILD FAC	SF	106.21	1.28
+21510	GUN/WPN REPAIR	SF	102.01	1.28
+21610	AMMO MAINT FAC	SF	97.80	1.28
21800	SP PURP MNT SHP	SF	94.65	1.28
+21810	PAR/ABN EQP REP	SF	123.04	1.28
+21830	MISC MAINT BLDG	SF	94.65	1.28
21900	MNT INST O&R	SF	97.80	1.28
+22110	AC PROD BLDG	SF	94.65	1.28
+22210	GM PROD BLDG	SF	94.65	1.28
+22310	SHIP PROD BLDG	SF	94.65	1.28
+22410	TANK/AUTO PROD	SF	94.65	1.28
+22510	WEAPON PROD BLD	SF	94.65	1.28
+22610	EXPLOSIVE PROD	SF	94.65	1.28
+22710	COMMO PROD BLDG	SF	94.65	1.28
+22810	LTHR & TEX PLNT	SF	94.65	1.28
+22820	CONST EQP PLANT	SF	94.65	1.28
+22830	RR EQP PLANT	SF	94.65	1.28
+22840	PRINT PLANT	SF	94.65	1.28
+22890	MISC PROD BLDG	SF	94.65	1.28
+31010	RDT&E LABS	SF	165.11	1.33
+31110	AC RDT&E	SF	131.46	1.33
+31210	MSL SPACE RDT&E	SF	131.46	1.33
+31310	MAR RDT&E	SF	131.46	1.33
+31410	TANK/AUTO RDT&E	SF	131.46	1.33
+31510	WEAPON RDT&E	SF	131.46	1.33
+31610	EXPLOSIVE RDT&E	SF	131.46	1.33
+31710	ELEC RDT&E	SF	131.46	1.33
+31810	PROP RDT&E	SF	131.46	1.33
+31910	NON-METAL RDT&E	SF	131.46	1.33
+32010	UND-WAT EQU RDT	SF	131.46	1.33
+32110	TECH SERVICE	SF	131.46	1.33
+42100	AMMO STOR-DEP	SF	148.28	1.17
42200	AMMO STOR-INST	SF	148.28	1.17
43200	COLD STOR-INST	SF	103.06	1.17
+44100	GEN P WH-DEP	SF	67.31	1.28
44200	GEN P WH-INST	SF	57.84	1.28
44230	CONT HUM WH	SF	59.95	1.28
44240	INFL MATLS WH	SF	102.01	1.28
44260	VEH STOR SHED	SF	42.07	1.17
51010	HOSPITAL	SF	158.79	1.33
+53040	VET FACILITY	SF	133.56	1.28
54010	DENTAL CLINIC	SF	167.22	1.28
55010	HEALTH CLINIC	SF	145.13	1.28
61050	GEN PURP ADMIN	SF	99.91	1.33
72200	UPH DINE FAC	SF	170.37	1.33
+73010	FIRE STATION	SF	126.20	1.28
+73015	CONFINEMENT FAC	SF	92.54	1.33
73020	CHAPEL CTR FAC	SF	136.71	1.28
+73028	DRUG ABUSE CTR	SF	99.91	1.28
+73030	LNDRY/DRYCL FAC	SF	167.22	1.28
+73048	DEPN GR SCH	SF	89.39	1.33

+73049	DEPN HIGH SCH	SF	99.91	1.33
+73073	POST OFFICE	SF	99.91	1.28
74006	BANK	SF	115.68	1.28
74010	AUDTM GEN PURP	SF	117.79	1.28
74011	BOWLING CTR	SF	136.71	1.28
74014	CHILD SPT CTR	SF	113.58	1.33
74021	COMMISSARY	SF	102.01	1.33
74022	SKILL DEV CTR	SF	102.01	1.28
74024	SKILL CTR AUTO	SF	102.01	1.28
74025	ACES FACILITY	SF	115.68	1.28
74028	PHYS FIT CTR	SF	120.94	1.33
74032	TRANS HSG FAC	SF	96.75	1.33
74033	COMMUNITY CTR	SF	97.80	1.28
74041	LIBRARY CTR	SF	102.01	1.28
74046	OPEN DINING FAC	SF	147.23	1.33
74052	EXCH SVC STA	SF	184.04	1.28
74053	EXCH MAIN RETL	SF	90.44	1.33
74064	REST/CAFE	SF	147.23	1.33
74066	YOUTH CENTER	SF	108.32	1.28
74069	RECREATION BLDG	SF	100.95	1.28
+76010	MUSEUM	SF	148.28	1.22
	AVERAGE		113.79	1.29 (-11+6=1.24)

+ = HQRPLANS/RPLANS Allowances = Total Installation Assets.

-13+6 = 1.22

5. Validation Procedures.

The factors are modified to delete SIOH and Contingency, since these are separate factors in COBRA. A six percent MCA factor in support of Info Systems has been added, since HQRPLANS does not calculate that cost. The 6% factor was used by TABS in BRAC 91 & BRAC 93. This requirement differs from OPA in support of IMA, which is a separate factor provided by the DISC4.

Costs for demolition vary widely depending upon region, environmental regulations, whether troop, contract, or in house labor is used. $10 per SF was deemed by the SME to be the best factor for all costs associated with demolition for use in planning/decision support analysis such as HQRPLANS or COBRA. This planning factor is not intended for use in budget formulation or execution. Specific requirements must be analyzed on a by-installation basis.

STATEMENT OF CERTIFICATION:

I am the proponent for the data element specified in the information above and certify that the information supplied is accurate and complete to the best of my knowledge and belief.

DAVID A. YENTZER
Chief,
Installation Planning Division

STANDARD FACTOR # 43
NPV/ROI DISCOUNT RATE

1. DESCRIPTION: The discount rate for COBRA reports of the net present value and the finance report.

2. VALIDATED VALUE: 2.75%

3. DATA SOURCE: See attached documentation.
OMB Circular A-94.

a. LAST UPDATED: 10 Feb 94.

b. DATE OF NEXT UPDATE: Feb 1995.

4. METHODOLOGY: Used info in the new OMB Circular A-94 to derive a 20 year ROI.
10 year = 2.7
30 year= 2.8 20 year = 2.75%

5. VALIDATION PROCEDURE: See attached documentation.

STATEMENT OF CERTIFICATION:

I certify that the information supplied is accurate and complete to the best of my knowledge and belief.

Charles V. Fletcher
CHARLES V. FLETCHER
MAJ, IN
OPERATIONS ANALYST

OFFICE OF MANAGEMENT AND BUDGET

WASHINGTON, D.C. 20503

February 10, 1994

THE DIRECTOR

M-94-14

MEMORANDUM FOR THE HEADS OF DEPARTMENTS AND AGENCIES

FROM: Leon E. Panetta
Director

SUBJECT: 1994 Discount Rates for OMB Circular No. A-94

On October 29, 1992, OMB issued a revision to OMB Circular No. A-94, "Guidelines and Discount Rates for Benefit-Cost Analysis of Federal Programs." The revision established new discount rate guidelines for use in benefit-cost and other types of economic analysis.

The revised Circular specifies certain discount rates that will be updated annually when the interest rate and inflation assumptions in the budget are changed. These discount rates are found in Appendix C of the revised Circular. The attachment to this memorandum is an update of Appendix C. It provides discount rates that will be in effect for the period March, 1994, through February, 1995.

The rates presented in Appendix C do not apply to regulatory analysis. They are to be used for lease-purchase and cost-effectiveness analysis, as specified in the Circular.

Attachment

APPENDIX C

DISCOUNT RATES FOR COST-EFFECTIVENESS, LEASE PURCHASE, AND RELATED ANALYSES

Effective Dates. This appendix is updated annually around the time of the President's budget submission to Congress. This version of the appendix is valid through the end of February, 1995. Updates of this appendix will be available upon request from the Office of Economic Policy in OMB (202-395-3381). Copies of the appendix and the Circular may also be obtained from the OMB Publications Office (202-395-7332).

Nominal Discount Rates. Nominal interest rates based on the economic assumptions from the budget are presented in the table below. These nominal rates are to be used for discounting nominal flows, as in lease-purchase analysis.

Nominal Interest Rates on Treasury Notes and Bonds of Specified Maturities (in percent)

3-Year	5-Year	7-Year	10-Year	30-Year
5.0	5.3	5.5	5.7	5.8

Analyses of programs with terms different from those presented above may use a linear interpolation. For example, a four-year project can be evaluated with a rate equal to the average of the three-year and five-year rates. Programs with durations longer than 30 years may use the 30-year interest rate.

Real Discount Rates. Real interest rates based on the economic assumptions from the budget are presented below. These real rates are to be used for discounting real (constant-dollar) flows, as in cost-effectiveness analysis.

Real Interest Rates on Treasury Notes and Bonds of Specified Maturities (in percent)

3-Year	5-Year	7-Year	10-Year	30-Year
2.1	2.3	2.5	2.7	2.8

Analyses of programs with terms different from those presented above may use a linear interpolation. For example, a four-year project can be evaluated with a rate equal to the average of the three-year and five-year rates. Programs with durations longer than 30 years may use the 30-year interest rate.

Discount Rate for BRAC-95 Return on Investment Analyses

Background. Cost of Base Realignment Actions (COBRA) algorithms incorporate a discount rate to calculate both the number of years required to obtain a return on investment and a 20 year net present value analysis. The source for identifying the appropriate discount rate is OMB Circular A-94, "Guidelines and Discount Rates for Benefit-Cost Analysis of Federal Programs". In BRAC-91, a discount rate of 10% was used for COBRA analyses. In BRAC-93, a discount rate of 7% was used, under the assumption that COBRA analyses were "Base-Case" benefit-cost analyses as defined in the Circular.

Discussion. The COBRA Joint Process Action Team has reached the conclusion that the previous identification of COBRA as a "Base-Case" analysis was incorrect. "Base-Case" is defined in the current version of the Circular as an analysis of "public investments and regulatory programs that provide benefits and costs to the general public." Public investments and regulations are assumed to "displace both private investment and consumption," therefore a 7% discount rate is used to "account for this displacement and to promote efficient investment and regulatory policies." On the other hand, "Cost-Effectiveness" analyses are defined as an "analysis of internal planning decisions of the Federal Government." This definition is much more consistent with the actual use of COBRA as a part of the formulation of base closure recommendations. Our interpretation has been confirmed by Mr. Robert Anderson, OMB Point of Contact for Circular A-94.

The Circular also includes a discussion of when to use a "real" as opposed to "nominal" discount rate, specifying that for analyses such as COBRA, which deal in constant dollars, a real discount rate should be used, and that "analyses that involve constant-dollar costs should use the real Treasury borrowing rate on marketable securities of comparable maturity to the period of analysis." Discount rates are provided annually as an appendix to the Circular. Current rates are as follows:

3-Year	5-Year	7-Year	10-Year	30-Year
2.1%	2.3%	2.5%	2.7%	2.8%

Since COBRA analyses incorporate a 20 Year Net Present Value analysis, a discount rate of 2.75% (average of the 10 and 30 year rates) should be used.

Critics of changing the discount rate may argue that we have lowered the discount rate in an effort to show a more attractive payback period. However, since there is no prescribed "maximum" payback period for base closure decisions, the use of a lower discount rate will not materially affect decisions of whether or not to close/realign an activity. That is, a change in the discount rate will not determine whether or not a decision will result in a net steady-state savings, but, rather, will only affect the number of years required for these net steady-state savings to offset up-front, one-time costs. (As an aside, the Defense Base Closure and Realignment Commission has approved recommendations in prior BRAC rounds with payback periods in excess of 100 years, if other factors warranted the closure action.)

Recommendation. Use a 2.75% discount rate for BRAC-95 COBRA analyses.

STANDARD FACTOR #44
NPV/ROI INFLATION RATE

1. DESCRIPTION: The inflation rate for COBRA NPV and ROI reports.

2. VALIDATED VALUE:

NPV/ROI INFLATION RATE: 0%

3. DATA SOURCE: BRAC 95 DoD Standard Factor. See attached documentation. OSD policy Memo #1 and OMB Circular A-94.

a. LAST UPDATED: Feb 1994.

b. DATE OF NEXT UPDATE: Feb 1995

4. METHODOLOGY: BRAC 95 Policy memo #1 specifies the data source for inflation is OMB Circular A-94. OMB A-94

5. VALIDATION PROCEDURE:

STATEMENT OF CERTIFICATION:

I certify that the information supplied is accurate and complete to the best of my knowledge and belief.

Charles V. Fletcher
CHARLES V. FLETCHER
MAJ, IN
OPERATIONS ANALYST

EXECUTIVE OFFICE OF THE PRESIDENT
OFFICE OF MANAGEMENT AND BUDGET
WASHINGTON, D.C. 20503

February 10, 1994

THE DIRECTOR

M-94-14

MEMORANDUM FOR THE HEADS OF DEPARTMENTS AND AGENCIES

FROM: Leon E. Panetta
Director

SUBJECT: 1994 Discount Rates for OMB Circular No. A-94

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The revised Circular specifies certain discount rates that will be updated annually when the interest rate and inflation assumptions in the budget are changed. These discount rates are found in Appendix C of the revised Circular. The attachment to this memorandum is an update of Appendix C. It provides discount rates that will be in effect for the period March, 1994, through February, 1995.

The rates presented in Appendix C do not apply to regulatory analysis. They are to be used for lease-purchase and cost-effectiveness analysis, as specified in the Circular.

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APPENDIX C

DISCOUNT RATES FOR COST-EFFECTIVENESS, LEASE PURCHASE, AND RELATED ANALYSES

Effective Dates. This appendix is updated annually around the time of the President's budget submission to Congress. This version of the appendix is valid through the end of February, 1995. Updates of this appendix will be available upon request from the Office of Economic Policy in OMB (202-395-3381). Copies of the appendix and the Circular may also be obtained from the OMB Publications Office (202-395-7332).

Nominal Discount Rates. Nominal interest rates based on the economic assumptions from the budget are presented in the table below. These nominal rates are to be used for discounting nominal flows, as in lease-purchase analysis.

Nominal Interest Rates on Treasury Notes and Bonds of Specified Maturities (in percent)

3-Year	5-Year	7-Year	10-Year	30-Year
5.0	5.3	5.5	5.7	5.8

Analyses of programs with terms different from those presented above may use a linear interpolation. For example, a four-year project can be evaluated with a rate equal to the average of the three-year and five-year rates. Programs with durations longer than 30 years may use the 30-year interest rate.

Real Discount Rates. Real interest rates based on the economic assumptions from the budget are presented below. These real rates are to be used for discounting real (constant-dollar) flows, as in cost-effectiveness analysis.

Real Interest Rates on Treasury Notes and Bonds of Specified Maturities (in percent)

3-Year	5-Year	7-Year	10-Year	30-Year
2.1	2.3	2.5	2.7	2.8

Analyses of programs with terms different from those presented above may use a linear interpolation. For example, a four-year project can be evaluated with a rate equal to the average of the three-year and five-year rates. Programs with durations longer than 30 years may use the 30-year interest rate.

Discount Rate for BRAC-95 Return on Investment Analyses

Background. Cost of Base Realignment Actions (COBRA) algorithms incorporate a discount rate to calculate both the number of years required to obtain a return on investment and a 20 year net present value analysis. The source for identifying the appropriate discount rate is OMB Circular A-94, "Guidelines and Discount Rates for Benefit-Cost Analysis of Federal Programs". In BRAC-91, a discount rate of 10% was used for COBRA analyses. In BRAC-93, a discount rate of 7% was used, under the assumption that COBRA analyses were "Base-Case" benefit-cost analyses as defined in the Circular.

Discussion. The COBRA Joint Process Action Team has reached the conclusion that the previous identification of COBRA as a "Base-Case" analysis was incorrect. "Base-Case" is defined in the current version of the Circular as an analysis of "public investments and regulatory programs that provide benefits and costs to the general public." Public investments and regulations are assumed to "displace both private investment and consumption," therefore a 7% discount rate is used to "account for this displacement and to promote efficient investment and regulatory policies." On the other hand, "Cost-Effectiveness" analyses are defined as an "analysis of internal-planning decisions of the Federal Government." This definition is much more consistent with the actual use of COBRA as a part of the formulation of base closure recommendations. Our interpretation has been confirmed by Mr. Robert Anderson, OMB Point of Contact for Circular A-94.

The Circular also includes a discussion of when to use a "real" as opposed to "nominal" discount rate, specifying that for analyses such as COBRA, which deal in constant dollars, a real discount rate should be used, and that "analyses that involve constant-dollar costs should use the real Treasury borrowing rate on marketable securities of comparable maturity to the period of analysis." Discount rates are provided annually as an appendix to the Circular. Current rates are as follows:

3-Year	5-Year	7-Year	10-Year	30-Year
2.1%	2.3%	2.5%	2.7%	2.8%

Since COBRA analyses incorporate a 20 Year Net Present Value analysis, a discount rate of 2.75% (average of the 10 and 30 year rates) should be used.

Critics of changing the discount rate may argue that we have lowered the discount rate in an effort to show a more attractive payback period. However, since there is no prescribed "maximum" payback period for base closure decisions, the use of a lower discount rate will not materially affect decisions of whether or not to close/realign an activity. That is, a change in the discount rate will not determine whether or not a decision will result in a net steady-state savings, but, rather, will only affect the number of years required for these net steady-state savings to offset up-front, one-time costs. (As an aside, the Defense Base Closure and Realignment Commission has approved recommendations in prior BRAC rounds with payback periods in excess of 100 years, if other factors warranted the closure action.)

Recommendation. Use a 2.75% discount rate for BRAC-95 COBRA analyses.

STANDARD FACTOR #45
NPV/ROI INFLATION RATE

1. DESCRIPTION: The inflation rates for COBRA Appropriations Reports.

2. VALIDATED VALUE:

INFLATION RATE:

1996 = 2.9%
1997 = 3.0%
1998 = 3.0%
1999 = 3.0%
2000 = 3.0%
2001 = 3.0%
BEYOND = 3.0%

3. DATA SOURCE: BRAC 95 DoD Standard Factor. See attached documentation. Table 5-10 Long Range Inflation - Defense GDP, National Defense Budget for FY 1995.

a. LAST UPDATED: Mar 1994.

b. DATE OF NEXT UPDATE: Mar 1995.

4. METHODOLOGY: BRAC 95 Policy memo #1 specifies the data source for inflation is OMB Circular A-94. OMB A-94

5. VALIDATION PROCEDURE:

STATEMENT OF CERTIFICATION:

I certify that the information supplied is accurate and complete to the best of my knowledge and belief.

Charles V. Fletcher
CHARLES V. FLETCHER
MAJ, IN
OPERATIONS ANALYST

NATIONAL DEFENSE ESTIMATES FOR

OFFICE OF THE COMPTROLLER OF
THE DEPARTMENT OF DEFENSE
MARCH 1994

Table 5-10 [Continued]
LONG RANGE INFLATION - DEFENSE

	Forecast Date	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
GDP	Feb 1975	4.2	4.0																			
	Jan 1976	5.2	4.3	4.1																		
	Jan 1977	5.5	4.9	4.1	3.2																	
	Jan 1978	6.3	5.8	5.3	4.9	4.3																
	Jan 1979	8.0	7.0	6.0	4.8	3.7	2.8															
	Jan 1980	8.7	9.0	8.9	8.3	7.6	6.9	6.2														
	Feb 1981	8.6	8.6	10.0	8.7	7.3	6.2	5.5	5.0													
	Jan 1982	8.6	8.6	9.4	8.2	6.5	5.1	4.8	4.6	4.5												
	Jan 1983	8.8	8.8	9.8	7.0	5.0	5.3	4.9	4.7	4.5	4.5											
	Jan 1984	8.8	8.8	9.8	7.1	4.3	4.3	4.9	4.6	4.3	4.0	3.7										
	Jan 1985	8.8	8.8	9.8	7.1	4.0	3.8	3.7	4.4	4.2	4.0	3.7	3.4									
	Jan 1986	8.8	8.8	10.0	7.3	4.2	3.8	3.6	3.2	4.1	3.9	3.4	2.9	2.3								
	Jan 1987	8.8	8.8	10.0	7.3	4.2	3.8	3.5	2.9	3.1	3.5	3.5	3.3	2.9	2.4							
	Jan 1988	8.8	8.8	10.0	7.3	4.2	3.8	3.2	2.8	2.7	3.7	3.8	3.6	3.3	2.8	2.3						
	Jan 1989	8.8	8.8	10.0	7.3	4.2	3.8	3.1	2.7	3.2	3.1	4.0	3.6	3.3	2.8	2.3	1.8					
	Jan 1990	8.8	8.8	10.0	7.3	4.2	3.8	3.1	2.7	3.2	3.0	4.2	4.0	4.2	4.0	3.7	3.4	3.1				
	Jan 1991	8.8	8.8	10.0	7.3	4.2	3.8	3.1	2.7	3.2	3.0	4.2	4.0	4.4	4.1	3.7	3.6	3.5	3.4			
	Jan 1992	8.8	8.8	10.0	7.3	4.2	3.8	3.1	2.7	3.2	3.0	4.2	4.1	3.9	3.1	3.3	3.3	3.3	3.2	3.2		
	Mar 1993	8.8	8.8	10.0	7.3	4.2	3.8	3.1	2.7	3.2	3.0	4.2	4.1	4.3	2.8	2.4	2.4	2.3	2.3	2.2	2.2	
	Jan 1994	8.8	8.8	10.0	7.3	4.2	3.8	3.1	2.7	3.2	3.0	4.2	4.1	4.3	3.0	2.7	2.5	2.8	2.9	3.0	3.0	3.0
CPI-W	Feb 1975	4.4	3.9																			
	Jan 1976	5.4	4.4	4.0																		
	Jan 1977	5.1	4.7	4.0	3.1																	
	Jan 1978	6.1	5.9	5.3	4.8	4.2																
	Jan 1979	8.6	6.9	6.0	4.8	3.7	2.8															
	Jan 1980	10.4	12.4	9.7	8.4	7.6	7.0	6.2														
	Feb 1981	10.4	13.6	11.6	9.1	6.5	5.7	4.8	4.3													
	Jan 1982	10.4	13.5	11.1	8.0	6.3	4.7	4.8	4.6	4.5												
	Jan 1983	10.4	13.5	11.1	7.2	4.0	4.7	4.5	4.7	4.5	4.5											
	Jan 1984	10.4	13.5	11.1	7.2	3.4	4.0	4.5	4.6	4.3	4.0	3.7										
	Jan 1985	10.4	13.5	11.1	7.2	3.4	3.3	3.9	4.3	4.2	4.0	3.7	3.4									
	Jan 1986	10.4	13.5	11.1	7.2	3.4	3.3	3.6	3.4	4.0	3.9	3.4	3.0	2.3								
	Jan 1987	10.4	13.5	11.1	7.2	3.4	3.3	3.6	2.2	2.3	3.7	3.5	3.4	2.9	2.4							
	Jan 1988	10.4	13.5	11.1	7.2	3.4	3.3	3.6	2.2	2.7	4.3	4.1	3.7	3.3	2.8	2.3						
	Jan 1989	10.4	13.5	11.1	7.2	3.4	3.3	3.6	2.2	2.7	4.1	4.0	3.8	3.3	2.8	2.3	1.8					
	Jan 1990	10.4	13.5	11.1	7.2	3.4	3.3	3.6	2.2	2.7	4.1	4.8	4.0	4.1	3.9	3.7	3.4	3.1				
	Jan 1991	10.4	13.5	11.1	7.2	3.4	3.3	3.6	2.2	2.7	4.1	4.8	4.8	5.7	4.1	3.8	3.6	3.5	3.4			
	Jan 1992	10.4	13.5	11.1	7.2	3.4	3.3	3.6	2.2	2.7	4.1	4.8	4.8	4.9	2.8	3.2	3.2	3.2	3.2	3.2		
	[illegible]	10.4	13.5	11.1	7.2	3.4	3.3	3.6	2.2	2.7	4.1	4.8	4.8	4.9	2.8	3.1	2.7	2.7	2.7	2.7	2.7	
	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	3.6	2.2	2.7	4.1	4.8	4.8	4.9	2.8	2.9	2.7	3.1	3.3	3.3	3.4	3.4

STANDARD FACTOR #60
ONE-TIME PCS COST OFFICER
Change 3 - 14 Oct 94

1. DESCRIPTION: The average one-time PCS cost for an officer. This factor

2. VALIDATED VALUE: $6,134

3. DATA SOURCE : BRAC 95 COBRA run.

   a. DATE LAST UPDATED : 14 Oct 1994.

   b. DATE OF NEXT UPDATE : NA

5. METHODOLOGY : See attached COBRA report.

6. VALIDATION PROCEDURE : None taken.

I certify that the information supplied is accurate and complete to the best of my knowledge and belief.

Charles V. Fletcher
CHARLES V. FLETCHER
MAJ, IN
OPERATIONS ANALYST

#4,665

COBRA REALIGNMENT SUMMARY (COBRA v5.01)
Data As Of 07:25 09/13/1994, Report Created 06:26 10/12 1994

Department : ARMY
Option Package : OFFICER PCS
Scenario File : C:\COBRA\OFFMOV.CBR
Std Pctrs File : C:\COBRA\DOD95.SFF

Starting Year : 1996
Final Year : 1996
ROI Year : 100+ Years

NPV in 2015($K): 4,602
1-Time Cost($K): 4,665

Net Costs ($K) Constant Dollars

	1996	1997	1998	1999	2000	2001	Total	Beyond
MilCon	0	0	0	0	0	0	0	0
Person	0	0	0	0	0	0	0	0
Overhd	0	0	0	0	0	0	0	0
Moving	4,665	0	0	0	0	0	4,665	0
Missio	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0
TOTAL	4,665	0	0	0	0	0	4,665	0

	1996	1997	1998	1999	2000	2001	TOTAL
POSITIONS ELIMINATED							
Officers	0	0	0	0	0	0	0
Enlisted	0	0	0	0	0	0	0
Civilians	0	0	0	0	0	0	0
TOTAL	0	0	0	0	0	0	0
POSITIONS REALIGNED							
Officers	162	0	0	0	0	0	162
Enlisted	838	0	0	0	0	0	838
Students	0	0	0	0	0	0	0
Civilians	0	0	0	0	0	0	0
TOTAL	1,000	0	0	0	0	0	1,000

Summary:

CALCULATION OF PCS EXPENSES FOR "ROUTINE PCS".

$ 6,154

COBRA REALIGNMENT SUMMARY (COBRA v5.01)
Data As Of 07:25 09/13/1994, Report Created 06:18 10/12/1994

Department : ARMY
Option Package : OFFICER PCS
Scenario File : C:\COBRA\OFFMOV.CBR
Std Fctrs File : C:\COBRA\DOD95.SFF

Starting Year : 1996
Final Year : 1996
ROI Year : 100+ Years

NPV in 2015($K): 6,051
1-Time Cost($K): 6,134

Net Costs ($K) Constant Dollars

	1996	1997	1998	1999	2000	2001	Total	Beyond
MilCon	0	0	0	0	0	0	0	0
Person	0	0	0	0	0	0	0	0
Overhd	0	0	0	0	0	0	0	0
Moving	6,134	0	0	0	0	0	6,134	0
Missio	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0
TOTAL	6,134	0	0	0	0	0	6,134	0

	1996	1997	1998	1999	2000	2001	TOTAL
POSITIONS ELIMINATED							
Officers	0	0	0	0	0	0	0
Enlisted	0	0	0	0	0	0	0
Civilians	0	0	0	0	0	0	0
TOTAL	0	0	0	0	0	0	0
POSITIONS REALIGNED							
Officers	1,000	0	0	0	0	0	1,000
Enlisted	0	0	0	0	0	0	0
Students	0	0	0	0	0	0	0
Civilians	0	0	0	0	0	0	0
TOTAL	1,000	0	0	0	0	0	1,000

Summary:

CALCULATION OF PCS EXPENSES FOR OFFICERS MOVING TO BASE X.

TOTAL APPROPRIATIONS DETAIL REPORT (COBRA v5.01) - Page 2
Data As Of 07:25 09/13/1994, Report Created 06:26 10/12/1994

Department : ARMY
Option Package : OFFICER PCS
Scenario File : C:\COBRA\OFFMOV.CBR
Std Fctrs File : C:\COBRA\DOD95.SFF

RECURRINGCOSTS -----($K)-----	1996	1997	1998	1999	2000	2001	Total	Beyond
FAM HOUSE OPS	0	0	0	0	0	0	0	0
O&M								
RPMA	0	0	0	0	0	0	0	0
BOS	0	0	0	0	0	0	0	0
Unique Operat	0	0	0	0	0	0	0	0
Civ Salary	0	0	0	0	0	0	0	0
CHAMPUS	0	0	0	0	0	0	0	0
Caretaker	0	0	0	0	0	0	0	0
MIL PERSONNEL								
Off Salary	0	0	0	0	0	0	0	0
Enl Salary	0	0	0	0	0	0	0	0
House Allow	0	0	0	0	0	0	0	0
OTHER								
Mission	0	0	0	0	0	0	0	0
Misc Recur	0	0	0	0	0	0	0	0
Unique Other	0	0	0	0	0	0	0	0
TOTAL RECUR	0	0	0	0	0	0	0	0
TOTAL COST	4,665	0	0	0	0	0	4,665	0

ONE-TIME SAVES -----($K)-----	1996	1997	1998	1999	2000	2001	Total
CONSTRUCTION							
MILCON	0	0	0	0	0	0	0
Fam Housing	0	0	0	0	0	0	0
O&M							
1-Time Move	0	0	0	0	0	0	0
MIL PERSONNEL							
Mil Moving	0	0	0	0	0	0	0
OTHER							
Land Sales	0	0	0	0	0	0	0
Environmental	0	0	0	0	0	0	0
1-Time Other	0	0	0	0	0	0	0
TOTAL ONE-TIME	0	0	0	0	0	0	0

RECURRINGSAVES -----($K)-----	1996	1997	1998	1999	2000	2001	Total	Beyond
FAM HOUSE OPS	0	0	0	0	0	0	0	0
O&M								
RPMA	0	0	0	0	0	0	0	0
BOS	0	0	0	0	0	0	0	0
Unique Operat	0	0	0	0	0	0	0	0
Civ Salary	0	0	0	0	0	0	0	0
CHAMPUS	0	0	0	0	0	0	0	0
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	0	0	0	0	0	0	0	0
Misc Recur	0	0	0	0	0	0	0	0
Unique Other	0	0	0	0	0	0	0	0
TOTAL RECUR	0	0	0	0	0	0	0	0
TOTAL SAVINGS	0	0	0	0	0	0	0	0

TOTAL APPROPRIATIONS DETAIL REPORT (COBRA v5.01) - Page 3
Data As Of 07:25 09/13/1994, Report Created 06:26 10/12/1994

Department : ARMY
Option Package : OFFICER PCS
Scenario File : C:\COBRA\OFFMOV.CBR
Std Factrs File : C:\COBRA\DOD95.SFF

ONE-TIME NET -----($K)-----	1996	1997	1998	1999	2000	2001	Total
CONSTRUCTION							
MILCON	0	0	0	0	0	0	0
Fam Housing	0	0	0	0	0	0	0
O&M							
Civ Retir/RIF	0	0	0	0	0	0	0
Civ Moving	273	0	0	0	0	0	273
Other	0	0	0	0	0	0	0
MIL PERSONNEL							
Mil Moving	4,392	0	0	0	0	0	4,392
OTHER							
HAP / RSE	0	0	0	0	0	0	0
Environmental	0	0	0	0	0	0	0
Info Manage	0	0	0	0	0	0	0
1-Time Other	0	0	0	0	0	0	0
Land	0	0	0	0	0	0	0
TOTAL ONE-TIME	4,665	0	0	0	0	0	4,665

RECURRING NET -----($K)-----	1996	1997	1998	1999	2000	2001	Total	Beyond
FAM HOUSE OPS	0	0	0	0	0	0	0	0
O&M								
RPMA	0	0	0	0	0	0	0	0
BOS	0	0	0	0	0	0	0	0
Unique Operat	0	0	0	0	0	0	0	0
Caretaker	0	0	0	0	0	0	0	0
Civ Salary	0	0	0	0	0	0	0	0
CHAMPUS	0	0	0	0	0	0	0	0
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	0	0	0	0	0	0	0	0
Misc Recur	0	0	0	0	0	0	0	0
Unique Other	0	0	0	0	0	0	0	0
TOTAL RECUR	0	0	0	0	0	0	0	0
TOTAL NET COST	4,665	0	0	0	0	0	4,665	0

Data As Of 07:25 09/13/1994, Report Created 06:26 10/12/1994

Department : ARMY
Option Package : OFFICER PCS
Scenario File : C:\COBRA\OFFMOV.CBR
Std Fctrs File : C:\COBRA\DOD95.SFF

Base: NOTIONAL BASE #1, US

ONE-TIME COSTS -----($K)-----	1996	1997	1998	1999	2000	2001	Total
CONSTRUCTION							
MILCON	0	0	0	0	0	0	0
Fam Housing	0	0	0	0	0	0	0
Land Purch	0	0	0	0	0	0	0
O&M							
CIV SALARY							
Civ RIFs	0	0	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
PPS	0	0	0	0	0	0	0
RITA	0	0	0	0	0	0	0
FREIGHT							
Packing	248	0	0	0	0	0	248
Freight	25	0	0	0	0	0	25
Vehicles	0	0	0	0	0	0	0
Driving	0	0	0	0	0	0	0
Unemployment	0	0	0	0	0	0	0
OTHER							
Program Plan	0	0	0	0	0	0	0
Shutdown	0	0	0	0	0	0	0
New Hires	0	0	0	0	0	0	0
1-Time Move	0	0	0	0	0	0	0
MIL PERSONNEL							
MIL MOVING							
Per Diem	208	0	0	0	0	0	208
POV Miles	180	0	0	0	0	0	180
HHG	3,303	0	0	0	0	0	3,303
Misc	700	0	0	0	0	0	700
OTHER							
Elim PCS	0	0	0	0	0	0	0
OTHER							
MAP / RSE	0	0	0	0	0	0	0
Environmental	0	0	0	0	0	0	0
Info Manage	0	0	0	0	0	0	0
1-Time Other	0	0	0	0	0	0	0
TOTAL ONE-TIME	4,665	0	0	0	0	0	4,665

Data As Of 07:25 09/13/1994, Report Created 06:26 10/12/1994

Department : ARMY
Option Package : OFFICER PCS
Scenario File : C:\COBRA\OFFMOV.CBR
Std Fctrs File : C:\COBRA\DOD95.SFF

Base: NOTIONAL BASE #1, US

RECURRINGCOSTS -----($K)-----	1996	1997	1998	1999	2000	2001	Total	Beyond
FAM HOUSE OPS	0	0	0	0	0	0	0	0
O&M								
RPMA	0	0	0	0	0	0	0	0
BOS	0	0	0	0	0	0	0	0
Unique Operat	0	0	0	0	0	0	0	0
Civ Salary	0	0	0	0	0	0	0	0
CHAMPUS	0	0	0	0	0	0	0	0
Caretaker	0	0	0	0	0	0	0	0
MIL PERSONNEL								
Off Salary	0	0	0	0	0	0	0	0
Enl Salary	0	0	0	0	0	0	0	0
House Allow	0	0	0	0	0	0	0	0
OTHER								
Mission	0	0	0	0	0	0	0	0
Misc Recur	0	0	0	0	0	0	0	0
Unique Other	0	0	0	0	0	0	0	0
TOTAL RECUR	0	0	0	0	0	0	0	0
TOTAL COSTS	4,665	0	0	0	0	0	4,665	0

ONE-TIME SAVES -----($K)-----	1996	1997	1998	1999	2000	2001	Total
CONSTRUCTION							
MILCON	0	0	0	0	0	0	0
Fam Housing	0	0	0	0	0	0	0
O&M							
1-Time Move	0	0	0	0	0	0	0
MIL PERSONNEL							
Mil Moving	0	0	0	0	0	0	0
OTHER							
Land Sales	0	0	0	0	0	0	0
Environmental	0	0	0	0	0	0	0
1-Time Other	0	0	0	0	0	0	0
TOTAL ONE-TIME	0	0	0	0	0	0	0

RECURRINGSAVES -----($K)-----	1996	1997	1998	1999	2000	2001	Total	Beyond
FAM HOUSE OPS	0	0	0	0	0	0	0	0
O&M								
RPMA	0	0	0	0	0	0	0	0
BOS	0	0	0	0	0	0	0	0
Unique Operat	0	0	0	0	0	0	0	0
Civ Salary	0	0	0	0	0	0	0	0
CHAMPUS	0	0	0	0	0	0	0	0
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	0	0	0	0	0	0	0	0
Misc Recur	0	0	0	0	0	0	0	0
Unique Other	0	0	0	0	0	0	0	0
TOTAL RECUR	0	0	0	0	0	0	0	0
TOTAL SAVINGS	0	0	0	0	0	0	0	0

Data As Of 07:25 09/13/1994, Report Created 06:26 10/12/1994

Department : ARMY
Option Package : OFFICER PCS
Scenario File : C:\COBRA\OFFMOV.CBR
Std Fctrs File : C:\COBRA\DOD95.SFF

Base: NOTIONAL BASE #1, US

ONE-TIME NET -----($K)-----	1996	1997	1998	1999	2000	2001	Total
CONSTRUCTION							
MILCON	0	0	0	0	0	0	0
Fam Housing	0	0	0	0	0	0	0
O&M							
Civ Retir/RIF	0	0	0	0	0	0	0
Civ Moving	273	0	0	0	0	0	273
Other	0	0	0	0	0	0	0
MIL PERSONNEL							
Mil Moving	4,392	0	0	0	0	0	4,392
OTHER							
HAP / RSE	0	0	0	0	0	0	0
Environmental	0	0	0	0	0	0	0
Info Manage	0	0	0	0	0	0	0
1-Time Other	0	0	0	0	0	0	0
Land	0	0	0	0	0	0	0
TOTAL ONE-TIME	4,665	0	0	0	0	0	4,665

RECURRING NET -----($K)-----	1996	1997	1998	1999	2000	2001	Total	Beyond
FAM HOUSE OPS	0	0	0	0	0	0	0	0
O&M								
RPMA	0	0	0	0	0	0	0	0
BOS	0	0	0	0	0	0	0	0
Unique Operat	0	0	0	0	0	0	0	0
Caretaker	0	0	0	0	0	0	0	0
Civ Salary	0	0	0	0	0	0	0	0
CHAMPUS	0	0	0	0	0	0	0	0
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	0	0	0	0	0	0	0	0
Misc Recur	0	0	0	0	0	0	0	0
Unique Other	0	0	0	0	0	0	0	0
TOTAL RECUR	0	0	0	0	0	0	0	0
TOTAL NET COST	4,665	0	0	0	0	0	4,665	0

Data As Of 07:25 09/13/1994, Report Created 06:26 10/12/1994

Department : ARMY
Option Package : OFFICER PCS
Scenario File : C:\COBRA\OFFMOV.CBR
Std Fctrs File : C:\COBRA\DOD95.SFF

Base: BASE X, US

ONE-TIME COSTS -----($K)-----	1996	1997	1998	1999	2000	2001	Total
CONSTRUCTION							
MILCON	0	0	0	0	0	0	0
Fam Housing	0	0	0	0	0	0	0
Land Purch	0	0	0	0	0	0	0
O&M							
CIV SALARY							
Civ RIFs	0	0	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
PPS	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
Driving	0	0	0	0	0	0	0
Unemployment	0	0	0	0	0	0	0
OTHER							
Program Plan	0	0	0	0	0	0	0
Shutdown	0	0	0	0	0	0	0
New Hires	0	0	0	0	0	0	0
1-Time Move	0	0	0	0	0	0	0
MIL PERSONNEL							
MIL MOVING							
Per Diem	0	0	0	0	0	0	0
POV Miles	0	0	0	0	0	0	0
HHG	0	0	0	0	0	0	0
Misc	0	0	0	0	0	0	0
OTHER							
Elim PCS	0	0	0	0	0	0	0
OTHER							
HAP / RSE	0	0	0	0	0	0	0
Environmental	0	0	0	0	0	0	0
Info Manage	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

Data As Of 07:25 09/13/1994, Report Created 06:26 10/12/1994

Department : ARMY
Option Package : OFFICER PCS
Scenario File : C:\COBRA\OFFMOV.CBR
Std Fctrs File : C:\COBRA\DOD95.SFF

Base: BASE X, US

RECURRINGCOSTS -----($K)-----	1996	1997	1998	1999	2000	2001	Total	Beyond
FAM HOUSE OPS	0	0	0	0	0	0	0	0
O&M								
RPMA	0	0	0	0	0	0	0	0
BOS	0	0	0	0	0	0	0	0
Unique Operat	0	0	0	0	0	0	0	0
Civ Salary	0	0	0	0	0	0	0	0
CHAMPUS	0	0	0	0	0	0	0	0
Caretaker	0	0	0	0	0	0	0	0
MIL PERSONNEL								
Off Salary	0	0	0	0	0	0	0	0
Enl Salary	0	0	0	0	0	0	0	0
House Allow	0	0	0	0	0	0	0	0
OTHER								
Mission	0	0	0	0	0	0	0	0
Misc Recur	0	0	0	0	0	0	0	0
Unique Other	0	0	0	0	0	0	0	0
TOTAL RECUR	0	0	0	0	0	0	0	0
TOTAL COSTS	0	0	0	0	0	0	0	0

ONE-TIME SAVES -----($K)-----	1996	1997	1998	1999	2000	2001	Total
CONSTRUCTION							
MILCON	0	0	0	0	0	0	0
Fam Housing	0	0	0	0	0	0	0
O&M							
1-Time Move	0	0	0	0	0	0	0
MIL PERSONNEL							
Mil Moving	0	0	0	0	0	0	0
OTHER							
Land Sales	0	0	0	0	0	0	0
Environmental	0	0	0	0	0	0	0
1-Time Other	0	0	0	0	0	0	0
TOTAL ONE-TIME	0	0	0	0	0	0	0

RECURRINGSAVES -----($K)-----	1996	1997	1998	1999	2000	2001	Total	Beyond
FAM HOUSE OPS	0	0	0	0	0	0	0	0
O&M								
RPMA	0	0	0	0	0	0	0	0
BOS	0	0	0	0	0	0	0	0
Unique Operat	0	0	0	0	0	0	0	0
Civ Salary	0	0	0	0	0	0	0	0
CHAMPUS	0	0	0	0	0	0	0	0
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	0	0	0	0	0	0	0	0
Misc Recur	0	0	0	0	0	0	0	0
Unique Other	0	0	0	0	0	0	0	0
TOTAL RECUR	0	0	0	0	0	0	0	0
TOTAL SAVINGS	0	0	0	0	0	0	0	0

Data As Of 07:25 09/13/1994, Report Created 06:26 10/12/1994

Department : ARMY
Option Package : OFFICER PCS
Scenario File : C:\COBRA\OFPMOV.CBR
Std Fctrs File : C:\COBRA\DOD95.SFF

Base: BASE X, US

ONE-TIME NET -----($K)-----	1996	1997	1998	1999	2000	2001	Total
CONSTRUCTION							
MILCON	0	0	0	0	0	0	0
Fam Housing	0	0	0	0	0	0	0
O&M							
Civ Retir/RIF	0	0	0	0	0	0	0
Civ Moving	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0
MIL PERSONNEL							
Mil Moving	0	0	0	0	0	0	0
OTHER							
HAP / RSE	0	0	0	0	0	0	0
Environmental	0	0	0	0	0	0	0
Info Manage	0	0	0	0	0	0	0
1-Time Other	0	0	0	0	0	0	0
Land	0	0	0	0	0	0	0
TOTAL ONE-TIME	0	0	0	0	0	0	0

RECURRING NET -----($K)-----	1996	1997	1998	1999	2000	2001	Total	Beyond
FAM HOUSE OPS	0	0	0	0	0	0	0	0
O&M								
RPMA	0	0	0	0	0	0	0	0
BOS	0	0	0	0	0	0	0	0
Unique Operat	0	0	0	0	0	0	0	0
Caretaker	0	0	0	0	0	0	0	0
Civ Salary	0	0	0	0	0	0	0	0
CHAMPUS	0	0	0	0	0	0	0	0
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	0	0	0	0	0	0	0	0
Misc Recur	0	0	0	0	0	0	0	0
Unique Other	0	0	0	0	0	0	0	0
TOTAL RECUR	0	0	0	0	0	0	0	0
TOTAL NET COST	0	0	0	0	0	0	0	0

INPUT DATA REPORT (COBRA v5.01)
Data As Of 07:25 09/13/1994, Report Created 06:26 10/12/1994

Department : ARMY
Option Package : OFFICER PCS
Scenario File : C:\COBRA\OFFMOV.CBR
Std Fctrs File : C:\COBRA\DOD95.SFF

INPUT SCREEN ONE - GENERAL SCENARIO INFORMATION

Model Year One : FY 1996

Model does Time-Phasing of Construction/Shutdown: Yes

Base Name	Strategy:
NOTIONAL BASE #1, US	Realignment
BASE X, US	Realignment

Summary:

CALCULATION OF PCS EXPENSES FOR "ROUTINE PCS".

INPUT SCREEN TWO - DISTANCE TABLE

From Base:	To Base:	Distance:
NOTIONAL BASE #1, US	BASE X, US	1,000 mi

INPUT SCREEN THREE - MOVEMENT TABLE

Transfers from NOTIONAL BASE #1, US to BASE X, US

	1996	1997	1998	1999	2000	2001
Officer Positions:	162	0	0	0	0	0
Enlisted Positions:	838	0	0	0	0	0
Civilian Positions:	0	0	0	0	0	0
Student Positions:	0	0	0	0	0	0
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: NOTIONAL BASE #1, US

Total Officer Employees:	162	RPMA Non-Payroll ($K/Year):	0
Total Enlisted Employees:	838	Communications ($K/Year):	0
Total Student Employees:	0	BOS Non-Payroll ($K/Year):	0
Total Civilian Employees:	0	BOS Payroll ($K/Year):	0
Mil Families Living On Base:	0.0%	Family Housing ($K/Year):	0
Civilians Not Willing To Move:	0.0%	Area Cost Factor:	1.00
Officer Housing Units Avail:	0	CHAMPUS In-Pat ($/Visit):	0
Enlisted Housing Units Avail:	0	CHAMPUS Out-Pat ($/Visit):	0
Total Base Facilities(KSF):	0	CHAMPUS Shift to Medicare:	20.9%
Officer VHA ($/Month):	0	Activity Code:	
Enlisted VHA ($/Month):	0		
Per Diem Rate ($/Day):	0	Homeowner Assistance Program:	No
Freight Cost ($/Ton/Mile):	0.07	Unique Activity Information:	No

Data As Of 07:25 09/13/1994, Report Created 06:26 10/12/1994

Department : ARMY
Option Package : OFFICER PCS
Scenario File : C:\COBRA\OFPMOV.CBR
Std Fctrs File : C:\COBRA\DOD95.SFF

INPUT SCREEN FOUR - STATIC BASE INFORMATION

Name: BASE X, US

Total Officer Employees:	1,000	RPMA Non-Payroll ($K/Year):	0
Total Enlisted Employees:	0	Communications ($K/Year):	0
Total Student Employees:	0	BOS Non-Payroll ($K/Year):	0
Total Civilian Employees:	0	BOS Payroll ($K/Year):	0
Mil Families Living On Base:	0.0%	Family Housing ($K/Year):	0
Civilians Not Willing To Move:	0.0%	Area Cost Factor:	1.02
Officer Housing Units Avail:	0	CHAMPUS In-Pat ($/Visit):	0
Enlisted Housing Units Avail:	0	CHAMPUS Out-Pat ($/Visit):	0
Total Base Facilities(KSF):	0	CHAMPUS Shift to Medicare:	0.0%
Officer VHA ($/Month):	0	Activity Code:	
Enlisted VHA ($/Month):	0		
Per Diem Rate ($/Day):	73	Homeowner Assistance Program:	No
Freight Cost ($/Ton/Mile):	0.07	Unique Activity Information:	No

INPUT SCREEN FIVE - DYNAMIC BASE INFORMATION

Name: NOTIONAL BASE #1, US

	1996	1997	1998	1999	2000	2001
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 ($K):	0	0	0	0	0	0
Misc Recurring Cost($K):	0	0	0	0	0	0
Misc Recurring Save($K):	0	0	0	0	0	0
Land (+Buy/-Sales) ($K):	0	0	0	0	0	0
Construction Schedule(%):	0%	0%	0%	0%	0%	0%
Shutdown Schedule (%):	0%	0%	0%	0%	0%	0%
MilCon Cost Avoidnc($K):	0	0	0	0	0	0
Fam Housing Avoidnc($K):	0	0	0	0	0	0
Procurement Avoidnc($K):	0	0	0	0	0	0
CHAMPUS In-Patients/Yr:	0	0	0	0	0	0
CHAMPUS Out-Patients/Yr:	0	0	0	0	0	0
Facil ShutDown(KSF):	0	Perc Family Housing ShutDown:				0.0%

Name: BASE X, US

	1996	1997	1998	1999	2000	2001
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 ($K):	0	0	0	0	0	0
Misc Recurring Cost($K):	0	0	0	0	0	0
Misc Recurring Save($K):	0	0	0	0	0	0
Land (+Buy/-Sales) ($K):	0	0	0	0	0	0
Construction Schedule(%):	0%	0%	0%	0%	0%	0%
Shutdown Schedule (%):	0%	0%	0%	0%	0%	0%
MilCon Cost Avoidnc($K):	0	0	0	0	0	0
Fam Housing Avoidnc($K):	0	0	0	0	0	0
Procurement Avoidnc($K):	0	0	0	0	0	0
CHAMPUS In-Patients/Yr:	0	0	0	0	0	0
CHAMPUS Out-Patients/Yr:	0	0	0	0	0	0
Facil ShutDown(KSF):	0	Perc Family Housing ShutDown:				0.0%

Data As Of 07:25 09/13/1994, Report Created 06:26 10 12 1994

Department : ARMY
Option Package : OFFICER PCS
Scenario File : C:\COBRA\OFFMOV.CBR
Std Fctrs File : C:\COBRA\DOD95.SFF

STANDARD FACTORS SCREEN ONE - PERSONNEL

Percent Officers Married:	74.00%	Civ Early Retire Pay Factor:	9.00%
Percent Enlisted Married:	55.50%	Priority Placement Service:	60.00%
Enlisted Housing MilCon:	82.00%	PPS Actions Involving PCS:	50.00%
Officer Salary($/Year):	77,068.00	Civilian PCS Costs ($):	28,800.00
Off BAQ with Dependents($):	7,717.00	Civilian New Hire Cost($):	1,109.00
Enlisted Salary($/Year):	34,120.00	Nat Median Home Price($):	114,600.00
Enl BAQ with Dependents($):	5,223.00	Home Sale Reimburse Rate:	10.00%
Avg Unemploy Cost($/Week):	174.00	Max Home Sale Reimburs($):	22,385.00
Unemployment Eligibility(Weeks):	18	Home Purch Reimburse Rate:	5.00%
Civilian Salary($/Year):	45,998.00	Max Home Purch Reimburs($):	11,919.00
Civilian Turnover Rate:	15.00%	Civilian Homeowning Rate:	64.00%
Civilian Early Retire Rate:	10.00%	HAP Home Value Reimburse Rate:	22.90%
Civilian Regular Retire Rate:	5.00%	HAP Homeowner Receiving Rate:	5.00%
Civilian RIF Pay Factor:	34.00%	RSE Home Value Reimburse Rate:	18.00%
SF File Desc:	brac95.sff	RSE Homeowner Receiving Rate:	12.00%

STANDARD FACTORS SCREEN TWO - FACILITIES

RPMA Building SF Cost Index:	1.00	Rehab vs. New MilCon Cost:	59.00%
BOS Index (RPMA vs population):	1.00	Info Management Account:	15.00%
(Indices are used as exponents)		MilCon Design Rate:	10.00%
Program Management Factor:	10.00%	MilCon SIOH Rate:	6.00%
Caretaker Admin(SF/Care):	162.00	MilCon Contingency Plan Rate:	7.00%
Mothball Cost ($/SF):	1.25	MilCon Site Preparation Rate:	24.00%
Avg Bachelor Quarters(SF):	388.00	Discount Rate for NPV.RPT/ROI:	2.75%
Avg Family Quarters(SF):	1,819.00	Inflation Rate for NPV.RPT/ROI:	0.00%

APPDET.RPT Inflation Rates:
1996: 2.90% 1997: 3.00% 1998: 3.00% 1999: 3.00% 2000: 3.00% 2001: 3.00%

STANDARD FACTORS SCREEN THREE - TRANSPORTATION

Material/Assigned Person(Lb):	710	Equip Pack & Crate($/Ton):	284.00
HHG Per Off Family (Lb):	14,500.00	Mil Light Vehicle($/Mile):	0.10
HHG Per Enl Family (Lb):	9,000.00	Heavy/Spec Vehicle($/Mile):	0.10
HHG Per Mil Single (Lb):	6,400.00	POV Reimbursement($/Mile):	0.18
HHG Per Civilian (Lb):	18,000.00	Avg Mil Tour Length (Years):	3.10
Total HHG Cost ($/100Lb):	35.00	Routine PCS($/Pers/Tour):	0.00
Air Transport ($/Pass Mile):	0.20	One-Time Off PCS Cost($):	6,134.00
Misc Exp ($/Direct Employ):	700.00	One-Time Enl PCS Cost($):	4,381.00

STANDARD FACTORS SCREEN FOUR - MILITARY CONSTRUCTION

Category	UM	$/UM	Category	UM	$/UM
Horizontal	(SY)	38	APPLIED INSTR	(SF)	114
Waterfront	(LF)	0	LABS (RDT&E)	(SF)	175
Air Operations	(SF)	130	CHILD CARE CENTER	(SF)	120
Operational	(SF)	119	PRODUCTION FAC	(SF)	100
Administrative	(SF)	106	PHYSICAL FITNESS FAC	(SF)	128
School Buildings	(SF)	104	Optional Category F	( )	0
Maintenance Shops	(SF)	108	Optional Category G	( )	0
Bachelor Quarters	(EA)	46,227	Optional Category H	( )	0
Family Quarters	(EA)	88,689	Optional Category I	( )	0
Covered Storage	(SF)	60	Optional Category J	( )	0
Dining Facilities	(SF)	180	Optional Category K	( )	0
Recreation Facilities	(SF)	0	Optional Category L	( )	0
Communications Facil	(SF)	0	Optional Category M	( )	0
Shipyard Maintenance	(SF)	0	Optional Category N	( )	0
RDT & E Facilities	(SF)	139	Optional Category O	( )	0
POL Storage	(BL)	0	Optional Category P	( )	0
Ammunition Storage	(SF)	0	Optional Category Q	( )	0
Medical Facilities	(SF)	0	Optional Category R	( )	0
Environmental	( )	0			

Data As Of 07:25 09/13/1994, Report Created 06:18 10/12/1994

Department : ARMY
Option Package : OFFICER PCS
Scenario File : C:\COBRA\OFFMOV.CBR
Std Fctrs File : C:\COBRA\DOD95.SFF

Costs ($K) Constant Dollars

	1996	1997	1998	1999	2000	2001	Total	Beyond
MilCon	0	0	0	0	0	0	0	0
Person	0	0	0	0	0	0	0	0
Overhd	0	0	0	0	0	0	0	0
Moving	6,134	0	0	0	0	0	6,134	0
Missio	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0
TOTAL	6,134	0	0	0	0	0	6,134	0

Savings ($K) Constant Dollars

	1996	1997	1998	1999	2000	2001	Total	Beyond
MilCon	0	0	0	0	0	0	0	0
Person	0	0	0	0	0	0	0	0
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	0	0	0	0	0	0

TOTAL APPROPRIATIONS DETAIL REPORT (COBRA v5.01)
Data As Of 07:25 09/13/1994, Report Created 06:18 10/12/1994

Department : ARMY
Option Package : OFFICER PCS
Scenario File : C:\COBRA\OFFMOV.CBR
Std Fctrs File : C:\COBRA\DOD95.SFF

ONE-TIME COSTS -----($K)-----	1996	1997	1998	1999	2000	2001	Total
CONSTRUCTION							
MILCON	0	0	0	0	0	0	0
Fam Housing	0	0	0	0	0	0	0
Land Purch	0	0	0	0	0	0	0
O&M							
CIV SALARY							
Civ RIF	0	0	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
PPS	0	0	0	0	0	0	0
RITA	0	0	0	0	0	0	0
FREIGHT							
Packing	248	0	0	0	0	0	248
Freight	25	0	0	0	0	0	25
Vehicles	0	0	0	0	0	0	0
Driving	0	0	0	0	0	0	0
Unemployment	0	0	0	0	0	0	0
OTHER							
Program Plan	0	0	0	0	0	0	0
Shutdown	0	0	0	0	0	0	0
New Hire	0	0	0	0	0	0	0
1-Time Move	0	0	0	0	0	0	0
MIL PERSONNEL							
MIL MOVING							
Per Diem	208	0	0	0	0	0	208
POV Miles	180	0	0	0	0	0	180
HHG	4,772	0	0	0	0	0	4,772
Misc	700	0	0	0	0	0	700
OTHER							
Elim PCS	0	0	0	0	0	0	0
OTHER							
HAP / RSE	0	0	0	0	0	0	0
Environmental	0	0	0	0	0	0	0
Info Manage	0	0	0	0	0	0	0
1-Time Other	0	0	0	0	0	0	0
TOTAL ONE-TIME	6,134	0	0	0	0	0	6,134

TOTAL APPROPRIATIONS DETAIL REPORT (COBRA v5.01) - Page 2
Data As Of 07:25 09/13/1994, Report Created 06:18 10/12/1994

Department : ARMY
Option Package : OFFICER PCS
Scenario File : C:\COBRA\OFFMOV.CBR
Std Fctrs File : C:\COBRA\DOD95.SFF

RECURRINGCOSTS -----($K)-----	1996	1997	1998	1999	2000	2001	Total	Beyond
FAM HOUSE OPS	0	0	0	0	0	0	0	0
O&M								
RPMA	0	0	0	0	0	0	0	0
BOS	0	0	0	0	0	0	0	0
Unique Operat	0	0	0	0	0	0	0	0
Civ Salary	0	0	0	0	0	0	0	0
CHAMPUS	0	0	0	0	0	0	0	0
Caretaker	0	0	0	0	0	0	0	0
MIL PERSONNEL								
Off Salary	0	0	0	0	0	0	0	0
Enl Salary	0	0	0	0	0	0	0	0
House Allow	0	0	0	0	0	0	0	0
OTHER								
Mission	0	0	0	0	0	0	0	0
Misc Recur	0	0	0	0	0	0	0	0
Unique Other	0	0	0	0	0	0	0	0
TOTAL RECUR	0	0	0	0	0	0	0	0
TOTAL COST	6,134	0	0	0	0	0	6,134	0

ONE-TIME SAVES -----($K)-----	1996	1997	1998	1999	2000	2001	Total
CONSTRUCTION							
MILCON	0	0	0	0	0	0	0
Fam Housing	0	0	0	0	0	0	0
O&M							
1-Time Move	0	0	0	0	0	0	0
MIL PERSONNEL							
Mil Moving	0	0	0	0	0	0	0
OTHER							
Land Sales	0	0	0	0	0	0	0
Environmental	0	0	0	0	0	0	0
1-Time Other	0	0	0	0	0	0	0
TOTAL ONE-TIME	0	0	0	0	0	0	0

RECURRINGSAVES -----($K)-----	1996	1997	1998	1999	2000	2001	Total	Beyond
FAM HOUSE OPS	0	0	0	0	0	0	0	0
O&M								
RPMA	0	0	0	0	0	0	0	0
BOS	0	0	0	0	0	0	0	0
Unique Operat	0	0	0	0	0	0	0	0
Civ Salary	0	0	0	0	0	0	0	0
CHAMPUS	0	0	0	0	0	0	0	0
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	0	0	0	0	0	0	0	0
Misc Recur	0	0	0	0	0	0	0	0
Unique Other	0	0	0	0	0	0	0	0
TOTAL RECUR	0	0	0	0	0	0	0	0
TOTAL SAVINGS	0	0	0	0	0	0	0	0

Data As Of 07:25 09/13/1994, Report Created 06:18 10/12/1994

Department : ARMY
Option Package : OFFICER PCS
Scenario File : C:\COBRA\OFFMOV.CBR
Std Fctrs File : C:\COBRA\DOD95.SFF

ONE-TIME NET -----($K)-----	1996	1997	1998	1999	2000	2001	Total
CONSTRUCTION							
MILCON	0	0	0	0	0	0	0
Fam Housing	0	0	0	0	0	0	0
O&M							
Civ Retir/RIF	0	0	0	0	0	0	0
Civ Moving	273	0	0	0	0	0	273
Other	0	0	0	0	0	0	0
MIL PERSONNEL							
Mil Moving	5,860	0	0	0	0	0	5,860
OTHER							
HAP / RSE	0	0	0	0	0	0	0
Environmental	0	0	0	0	0	0	0
Info Manage	0	0	0	0	0	0	0
1-Time Other	0	0	0	0	0	0	0
Land	0	0	0	0	0	0	0
TOTAL ONE-TIME	6,134	0	0	0	0	0	6,134

RECURRING NET -----($K)-----	1996	1997	1998	1999	2000	2001	Total	Beyond
FAM HOUSE OPS	0	0	0	0	0	0	0	0
O&M								
RPMA	0	0	0	0	0	0	0	0
BOS	0	0	0	0	0	0	0	0
Unique Operat	0	0	0	0	0	0	0	0
Caretaker	0	0	0	0	0	0	0	0
Civ Salary	0	0	0	0	0	0	0	0
CHAMPUS	0	0	0	0	0	0	0	0
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	0	0	0	0	0	0	0	0
Misc Recur	0	0	0	0	0	0	0	0
Unique Other	0	0	0	0	0	0	0	0
TOTAL RECUR	0	0	0	0	0	0	0	0
TOTAL NET COST	6,134	0	0	0	0	0	6,134	0

Data As Of 07:25 09/13/1994, Report Created 06:18 10/12/1994

Department : ARMY
Option Package : OFFICER PCS
Scenario File : C:\COBRA\OFFMOV.CBR
Std Fctrs File : C:\COBRA\DOD95.SFF

Base: NOTIONAL BASE #1, US

ONE-TIME COSTS -----($K)-----	1996	1997	1998	1999	2000	2001	Total
CONSTRUCTION							
MILCON	0	0	0	0	0	0	0
Fam Housing	0	0	0	0	0	0	0
Land Purch	0	0	0	0	0	0	0
O&M							
CIV SALARY							
Civ RIFs	0	0	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
PPS	0	0	0	0	0	0	0
RITA	0	0	0	0	0	0	0
FREIGHT							
Packing	248	0	0	0	0	0	248
Freight	25	0	0	0	0	0	25
Vehicles	0	0	0	0	0	0	0
Driving	0	0	0	0	0	0	0
Unemployment	0	0	0	0	0	0	0
OTHER							
Program Plan	0	0	0	0	0	0	0
Shutdown	0	0	0	0	0	0	0
New Hires	0	0	0	0	0	0	0
1-Time Move	0	0	0	0	0	0	0
MIL PERSONNEL							
MIL MOVING							
Per Diem	208	0	0	0	0	0	208
POV Miles	180	0	0	0	0	0	180
HHG	4,772	0	0	0	0	0	4,772
Misc	700	0	0	0	0	0	700
OTHER							
Elim PCS	0	0	0	0	0	0	0
OTHER							
HAP / RSE	0	0	0	0	0	0	0
Environmental	0	0	0	0	0	0	0
Info Manage	0	0	0	0	0	0	0
1-Time Other	0	0	0	0	0	0	0
TOTAL ONE-TIME	6,134	0	0	0	0	0	6,134

Department : ARMY
Option Package : OFFICER PCS
Scenario File : C:\COBRA\OFFMOV.CBR
Std Fctrs File : C:\COBRA\DOD95.SFF

Base: NOTIONAL BASE #1, US

RECURRINGCOSTS -----($K)-----	1996	1997	1998	1999	2000	2001	Total	Beyond
FAM HOUSE OPS	0	0	0	0	0	0	0	0
O&M								
RPMA	0	0	0	0	0	0	0	0
BOS	0	0	0	0	0	0	0	0
Unique Operat	0	0	0	0	0	0	0	0
Civ Salary	0	0	0	0	0	0	0	0
CHAMPUS	0	0	0	0	0	0	0	0
Caretaker	0	0	0	0	0	0	0	0
MIL PERSONNEL								
Off Salary	0	0	0	0	0	0	0	0
Enl Salary	0	0	0	0	0	0	0	0
House Allow	0	0	0	0	0	0	0	0
OTHER								
Mission	0	0	0	0	0	0	0	0
Misc Recur	0	0	0	0	0	0	0	0
Unique Other	0	0	0	0	0	0	0	0
TOTAL RECUR	0	0	0	0	0	0	0	0
TOTAL COSTS	6,134	0	0	0	0	0	6,134	0

ONE-TIME SAVES -----($K)-----	1996	1997	1998	1999	2000	2001	Total
CONSTRUCTION							
MILCON	0	0	0	0	0	0	0
Fam Housing	0	0	0	0	0	0	0
O&M							
1-Time Move	0	0	0	0	0	0	0
MIL PERSONNEL							
Mil Moving	0	0	0	0	0	0	0
OTHER							
Land Sales	0	0	0	0	0	0	0
Environmental	0	0	0	0	0	0	0
1-Time Other	0	0	0	0	0	0	0
TOTAL ONE-TIME	0	0	0	0	0	0	0

RECURRINGSAVES -----($K)-----	1996	1997	1998	1999	2000	2001	Total	Beyond
FAM HOUSE OPS	0	0	0	0	0	0	0	0
O&M								
RPMA	0	0	0	0	0	0	0	0
BOS	0	0	0	0	0	0	0	0
Unique Operat	0	0	0	0	0	0	0	0
Civ Salary	0	0	0	0	0	0	0	0
CHAMPUS	0	0	0	0	0	0	0	0
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	0	0	0	0	0	0	0	0
Misc Recur	0	0	0	0	0	0	0	0
Unique Other	0	0	0	0	0	0	0	0
TOTAL RECUR	0	0	0	0	0	0	0	0
TOTAL SAVINGS	0	0	0	0	0	0	0	0

Data As Of 07:25 09/13/1994, Report Created 06:18 10/12/1994

Department : ARMY
Option Package : OFFICER PCS
Scenario File : C:\COBRA\OFFMOV.CBR
Std Fctrs File : C:\COBRA\DOD95.SFF

Base: NOTIONAL BASE #1, US

ONE-TIME NET -----($K)-----	1996	1997	1998	1999	2000	2001	Total
CONSTRUCTION							
MILCON	0	0	0	0	0	0	0
Fam Housing	0	0	0	0	0	0	0
O&M							
Civ Retir/RIF	0	0	0	0	0	0	0
Civ Moving	273	0	0	0	0	0	273
Other	0	0	0	0	0	0	0
MIL PERSONNEL							
Mil Moving	5,860	0	0	0	0	0	5,860
OTHER							
HAP / RSE	0	0	0	0	0	0	0
Environmental	0	0	0	0	0	0	0
Info Manage	0	0	0	0	0	0	0
1-Time Other	0	0	0	0	0	0	0
Land	0	0	0	0	0	0	0
TOTAL ONE-TIME	6,134	0	0	0	0	0	6,134

RECURRING NET -----($K)-----	1996	1997	1998	1999	2000	2001	Total	Beyond
FAM HOUSE OPS	0	0	0	0	0	0	0	0
O&M								
RPMA	0	0	0	0	0	0	0	0
BOS	0	0	0	0	0	0	0	0
Unique Operat	0	0	0	0	0	0	0	0
Caretaker	0	0	0	0	0	0	0	0
Civ Salary	0	0	0	0	0	0	0	0
CHAMPUS	0	0	0	0	0	0	0	0
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	0	0	0	0	0	0	0	0
Misc Recur	0	0	0	0	0	0	0	0
Unique Other	0	0	0	0	0	0	0	0
TOTAL RECUR	0	0	0	0	0	0	0	0
TOTAL NET COST	6,134	0	0	0	0	0	6,134	0

Department : ARMY
Option Package : OFFICER PCS
Scenario File : C:\COBRA\OFFMOV.CBR
Std Fctrs File : C:\COBRA\DOD95.SFF

Base: BASE X, US

ONE-TIME COSTS -----($K)-----	1996	1997	1998	1999	2000	2001	Total
CONSTRUCTION							
MILCON	0	0	0	0	0	0	0
Fam Housing	0	0	0	0	0	0	0
Land Purch	0	0	0	0	0	0	0
O&M							
CIV SALARY							
Civ RIFs	0	0	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
PPS	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
Driving	0	0	0	0	0	0	0
Unemployment	0	0	0	0	0	0	0
OTHER							
Program Plan	0	0	0	0	0	0	0
Shutdown	0	0	0	0	0	0	0
New Hires	0	0	0	0	0	0	0
1-Time Move	0	0	0	0	0	0	0
MIL PERSONNEL							
MIL MOVING							
Per Diem	0	0	0	0	0	0	0
POV Miles	0	0	0	0	0	0	0
HHG	0	0	0	0	0	0	0
Misc	0	0	0	0	0	0	0
OTHER							
Elim PCS	0	0	0	0	0	0	0
OTHER							
HAP / RSE	0	0	0	0	0	0	0
Environmental	0	0	0	0	0	0	0
Info Manage	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

Data As Of 07:25 09/13/1994, Report Created 06:18 10/12/1994

Department : ARMY
Option Package : OFFICER PCS
Scenario File : C:\COBRA\OFFMOV.CBR
Std Fctrs File : C:\COBRA\DOD95.SFF

Base: BASE X, US

RECURRINGCOSTS -----($K)-----	1996	1997	1998	1999	2000	2001	Total	Beyond
FAM HOUSE OPS	0	0	0	0	0	0	0	0
O&M								
RPMA	0	0	0	0	0	0	0	0
BOS	0	0	0	0	0	0	0	0
Unique Operat	0	0	0	0	0	0	0	0
Civ Salary	0	0	0	0	0	0	0	0
CHAMPUS	0	0	0	0	0	0	0	0
Caretaker	0	0	0	0	0	0	0	0
MIL PERSONNEL								
Off Salary	0	0	0	0	0	0	0	0
Enl Salary	0	0	0	0	0	0	0	0
House Allow	0	0	0	0	0	0	0	0
OTHER								
Mission	0	0	0	0	0	0	0	0
Misc Recur	0	0	0	0	0	0	0	0
Unique Other	0	0	0	0	0	0	0	0
TOTAL RECUR	0	0	0	0	0	0	0	0
TOTAL COSTS	0	0	0	0	0	0	0	0

ONE-TIME SAVES -----($K)-----	1996	1997	1998	1999	2000	2001	Total
CONSTRUCTION							
MILCON	0	0	0	0	0	0	0
Fam Housing	0	0	0	0	0	0	0
O&M							
1-Time Move	0	0	0	0	0	0	0
MIL PERSONNEL							
Mil Moving	0	0	0	0	0	0	0
OTHER							
Land Sales	0	0	0	0	0	0	0
Environmental	0	0	0	0	0	0	0
1-Time Other	0	0	0	0	0	0	0
TOTAL ONE-TIME	0	0	0	0	0	0	0

RECURRINGSAVES -----($K)-----	1996	1997	1998	1999	2000	2001	Total	Beyond
FAM HOUSE OPS	0	0	0	0	0	0	0	0
O&M								
RPMA	0	0	0	0	0	0	0	0
BOS	0	0	0	0	0	0	0	0
Unique Operat	0	0	0	0	0	0	0	0
Civ Salary	0	0	0	0	0	0	0	0
CHAMPUS	0	0	0	0	0	0	0	0
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	0	0	0	0	0	0	0	0
Misc Recur	0	0	0	0	0	0	0	0
Unique Other	0	0	0	0	0	0	0	0
TOTAL RECUR	0	0	0	0	0	0	0	0
TOTAL SAVINGS	0	0	0	0	0	0	0	0

Data As Of 07:25 09/13/1994, Report Created 06:18 10/12/1994

Department : ARMY
Option Package : OFFICER PCS
Scenario File : C:\COBRA\OFFMOV.CBR
Std Fctrs File : C:\COBRA\DOD95.SFF

Base: BASE X, US

ONE-TIME NET -----($K)-----	1996	1997	1998	1999	2000	2001	Total
CONSTRUCTION							
MILCON	0	0	0	0	0	0	0
Fam Housing	0	0	0	0	0	0	0
O&M							
Civ Retir/RIF	0	0	0	0	0	0	0
Civ Moving	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0
MIL PERSONNEL							
Mil Moving	0	0	0	0	0	0	0
OTHER							
HAP / RSE	0	0	0	0	0	0	0
Environmental	0	0	0	0	0	0	0
Info Manage	0	0	0	0	0	0	0
1-Time Other	0	0	0	0	0	0	0
Land	0	0	0	0	0	0	0
TOTAL ONE-TIME	0	0	0	0	0	0	0

RECURRING NET -----($K)-----	1996	1997	1998	1999	2000	2001	Total	Beyond
FAM HOUSE OPS	0	0	0	0	0	0	0	0
O&M								
RPMA	0	0	0	0	0	0	0	0
BOS	0	0	0	0	0	0	0	0
Unique Operat	0	0	0	0	0	0	0	0
Caretaker	0	0	0	0	0	0	0	0
Civ Salary	0	0	0	0	0	0	0	0
CHAMPUS	0	0	0	0	0	0	0	0
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	0	0	0	0	0	0	0	0
Misc Recur	0	0	0	0	0	0	0	0
Unique Other	0	0	0	0	0	0	0	0
TOTAL RECUR	0	0	0	0	0	0	0	0
TOTAL NET COST	0	0	0	0	0	0	0	0

INPUT DATA REPORT (COBRA v5.01)
Data As Of 07:25 09/13/1994, Report Created 06:18 10/12/1994

Department : ARMY
Option Package : OFFICER PCS
Scenario File : C:\COBRA\OFFMOV.CBR
Std Fctrs File : C:\COBRA\DOD95.SFF

INPUT SCREEN ONE - GENERAL SCENARIO INFORMATION

Model Year One : FY 1996

Model does Time-Phasing of Construction/Shutdown: Yes

Base Name	Strategy:
NOTIONAL BASE #1, US	Realignment
BASE X, US	Realignment

Summary:

CALCULATION OF PCS EXPENSES FOR OFFICERS MOVING TO BASE X.

INPUT SCREEN TWO - DISTANCE TABLE

From Base:	To Base:	Distance:
NOTIONAL BASE #1, US	BASE X, US	1,000 mi

INPUT SCREEN THREE - MOVEMENT TABLE

Transfers from NOTIONAL BASE #1, US to BASE X, US

	1996	1997	1998	1999	2000	2001
Officer Positions:	1,000	0	0	0	0	0
Enlisted Positions:	0	0	0	0	0	0
Civilian Positions:	0	0	0	0	0	0
Student Positions:	0	0	0	0	0	0
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: NOTIONAL BASE #1, US

Total Officer Employees:	1,000	RPMA Non-Payroll ($K/Year):	0
Total Enlisted Employees:	0	Communications ($K/Year):	0
Total Student Employees:	0	BOS Non-Payroll ($K/Year):	0
Total Civilian Employees:	0	BOS Payroll ($K/Year):	0
Mil Families Living On Base:	0.0%	Family Housing ($K/Year):	0
Civilians Not Willing To Move:	0.0%	Area Cost Factor:	1.00
Officer Housing Units Avail:	0	CHAMPUS In-Pat ($/Visit):	0
Enlisted Housing Units Avail:	0	CHAMPUS Out-Pat ($/Visit):	0
Total Base Facilities(KSF):	0	CHAMPUS Shift to Medicare:	20.9%
Officer VHA ($/Month):	0	Activity Code:	
Enlisted VHA ($/Month):	0		
Per Diem Rate ($/Day):	0	Homeowner Assistance Program:	No
Freight Cost ($/Ton/Mile):	0.07	Unique Activity Information:	No

Data As Of 07:25 09/13/1994, Report Created 06:18 10/12/1994

Department : ARMY
Option Package : OFFICER PCS
Scenario File : C:\COBRA\OFFMOV.CBR
Std Fctrs File : C:\COBRA\DOD95.SFF

INPUT SCREEN FOUR - STATIC BASE INFORMATION

Name: BASE X, US

Total Officer Employees:	1,000	RPMA Non-Payroll ($K/Year):	0
Total Enlisted Employees:	0	Communications ($K/Year):	0
Total Student Employees:	0	BOS Non-Payroll ($K/Year):	0
Total Civilian Employees:	0	BOS Payroll ($K/Year):	0
Mil Families Living On Base:	0.0%	Family Housing ($K/Year):	0
Civilians Not Willing To Move:	0.0%	Area Cost Factor:	1.02
Officer Housing Units Avail:	0	CHAMPUS In-Pat ($/Visit):	0
Enlisted Housing Units Avail:	0	CHAMPUS Out-Pat ($/Visit):	0
Total Base Facilities(KSF):	0	CHAMPUS Shift to Medicare:	0.0%
Officer VHA ($/Month):	0	Activity Code:	
Enlisted VHA ($/Month):	0		
Per Diem Rate ($/Day):	73	Homeowner Assistance Program:	No
Freight Cost ($/Ton/Mile):	0.07	Unique Activity Information:	No

INPUT SCREEN FIVE - DYNAMIC BASE INFORMATION

Name: NOTIONAL BASE #1, US

	1996	1997	1998	1999	2000	2001
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 ($K):	0	0	0	0	0	0
Misc Recurring Cost($K):	0	0	0	0	0	0
Misc Recurring Save($K):	0	0	0	0	0	0
Land (+Buy/-Sales) ($K):	0	0	0	0	0	0
Construction Schedule(%):	0%	0%	0%	0%	0%	0%
Shutdown Schedule (%):	0%	0%	0%	0%	0%	0%
MilCon Cost Avoidnc($K):	0	0	0	0	0	0
Fam Housing Avoidnc($K):	0	0	0	0	0	0
Procurement Avoidnc($K):	0	0	0	0	0	0
CHAMPUS In-Patients/Yr:	0	0	0	0	0	0
CHAMPUS Out-Patients/Yr:	0	0	0	0	0	0
Facil ShutDown(KSF):	0	Perc Family Housing ShutDown:				0.0%

Name: BASE X, US

	1996	1997	1998	1999	2000	2001
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 ($K):	0	0	0	0	0	0
Misc Recurring Cost($K):	0	0	0	0	0	0
Misc Recurring Save($K):	0	0	0	0	0	0
Land (+Buy/-Sales) ($K):	0	0	0	0	0	0
Construction Schedule(%):	0%	0%	0%	0%	0%	0%
Shutdown Schedule (%):	0%	0%	0%	0%	0%	0%
MilCon Cost Avoidnc($K):	0	0	0	0	0	0
Fam Housing Avoidnc($K):	0	0	0	0	0	0
Procurement Avoidnc($K):	0	0	0	0	0	0
CHAMPUS In-Patients/Yr:	0	0	0	0	0	0
CHAMPUS Out-Patients/Yr:	0	0	0	0	0	0
Facil ShutDown(KSF):	0	Perc Family Housing ShutDown:				0.0%

Data As Of 07:25 09/13/1994, Report Created 06:18 10/12/1994

Department : ARMY
Option Package : OFFICER PCS
Scenario File : C:\COBRA\OFFMOV.CBR
Std Fctrs File : C:\COBRA\DOD95.SFF

STANDARD FACTORS SCREEN ONE - PERSONNEL

Percent Officers Married:	74.00%	Civ Early Retire Pay Factor:	9.00%
Percent Enlisted Married:	55.50%	Priority Placement Service:	60.00%
Enlisted Housing MilCon:	82.00%	PPS Actions Involving PCS:	50.00%
Officer Salary($/Year):	77,068.00	Civilian PCS Costs ($):	28,800.00
Off BAQ with Dependents($):	7,717.00	Civilian New Hire Cost($):	1,109.00
Enlisted Salary($/Year):	34,120.00	Nat Median Home Price($):	114,600.00
Enl BAQ with Dependents($):	5,223.00	Home Sale Reimburse Rate:	10.00%
Avg Unemploy Cost($/Week):	174.00	Max Home Sale Reimburs($):	22,385.00
Unemployment Eligibility(Weeks):	18	Home Purch Reimburse Rate:	5.00%
Civilian Salary($/Year):	45,998.00	Max Home Purch Reimburs($):	11,919.00
Civilian Turnover Rate:	15.00%	Civilian Homeowning Rate:	64.00%
Civilian Early Retire Rate:	10.00%	HAP Home Value Reimburse Rate:	22.90%
Civilian Regular Retire Rate:	5.00%	HAP Homeowner Receiving Rate:	5.00%
Civilian RIF Pay Factor:	34.00%	RSE Home Value Reimburse Rate:	18.00%
SF File Desc:	brac95.sff	RSE Homeowner Receiving Rate:	12.00%

STANDARD FACTORS SCREEN TWO - FACILITIES

RPMA Building SF Cost Index:	1.00	Rehab vs. New MilCon Cost:	59.00%
BOS Index (RPMA vs population):	1.00	Info Management Account:	15.00%
(Indices are used as exponents)		MilCon Design Rate:	10.00%
Program Management Factor:	10.00%	MilCon SIOH Rate:	6.00%
Caretaker Admin(SF/Care):	162.00	MilCon Contingency Plan Rate:	7.00%
Mothball Cost ($/SF):	1.25	MilCon Site Preparation Rate:	24.00%
Avg Bachelor Quarters(SF):	388.00	Discount Rate for NPV.RPT/ROI:	2.75%
Avg Family Quarters(SF):	1,819.00	Inflation Rate for NPV.RPT/ROI:	0.00%

APPDET.RPT Inflation Rates:
1996: 2.90% 1997: 3.00% 1998: 3.00% 1999: 3.00% 2000: 3.00% 2001: 3.00%

STANDARD FACTORS SCREEN THREE - TRANSPORTATION

Material/Assigned Person(Lb):	710	Equip Pack & Crate($/Ton):	284.00
HHG Per Off Family (Lb):	14,500.00	Mil Light Vehicle($/Mile):	0.10
HHG Per Enl Family (Lb):	9,000.00	Heavy/Spec Vehicle($/Mile):	0.10
HHG Per Mil Single (Lb):	6,400.00	POV Reimbursement($/Mile):	0.18
HHG Per Civilian (Lb):	18,000.00	Avg Mil Tour Length (Years):	3.10
Total HHG Cost ($/100Lb):	35.00	Routine PCS($/Pers/Tour):	0.00
Air Transport ($/Pass Mile):	0.20	One-Time Off PCS Cost($):	0.00
Misc Exp ($/Direct Employ):	700.00	One-Time Enl PCS Cost($):	0.00

STANDARD FACTORS SCREEN FOUR - MILITARY CONSTRUCTION

Category	UM	$/UM	Category	UM	$/UM
Horizontal	(SY)	38	APPLIED INSTR	(SF)	114
Waterfront	(LF)	0	LABS (RDT&E)	(SF)	175
Air Operations	(SF)	130	CHILD CARE CENTER	(SF)	120
Operational	(SF)	119	PRODUCTION FAC	(SF)	100
Administrative	(SF)	106	PHYSICAL FITNESS FAC	(SF)	128
School Buildings	(SF)	104	Optional Category F	( )	0
Maintenance Shops	(SF)	108	Optional Category G	( )	0
Bachelor Quarters	(EA)	46,227	Optional Category H	( )	0
Family Quarters	(EA)	88,689	Optional Category I	( )	0
Covered Storage	(SF)	60	Optional Category J	( )	0
Dining Facilities	(SF)	180	Optional Category K	( )	0
Recreation Facilities	(SF)	0	Optional Category L	( )	0
Communications Facil	(SF)	0	Optional Category M	( )	0
Shipyard Maintenance	(SF)	0	Optional Category N	( )	0
RDT & E Facilities	(SF)	139	Optional Category O	( )	0
POL Storage	(BL)	0	Optional Category P	( )	0
Ammunition Storage	(SF)	0	Optional Category Q	( )	0
Medical Facilities	(SF)	0	Optional Category R	( )	0
Environmental	( )	0			

STANDARD FACTOR #60
ONE-TIME PCS COST OFFICER
Change 1 - 26 Sep 1994

1. DESCRIPTION: The average one-time PCS cost for an officer. This factor

2. VALIDATED VALUE: $6,202

3. DATA SOURCE: BRAC 95 COBRA run.

   a. DATE LAST UPDATED: 26 Sep 1994.

   b. DATE OF NEXT UPDATE: NA

5. METHODOLOGY: See attached COBRA report.

6. VALIDATION PROCEDURE: None taken.

I certify that the information supplied is accurate and complete to the best of my knowledge and belief.

Charles V. Fletcher
CHARLES V. FLETCHER
MAJ, IN
OPERATIONS ANALYST

Data As Of 07:25 09/13/1994, Report Created 08 00 09 26 1994

Department : ARMY
Option Package : OFFICER PCS
Scenario File : C:\COBRA\OFFMOV.CBR
Std Fctrs File : C:\COBRA\BRAC95.SFF

Starting Year : 1996
Final Year : 1996
ROI Year : 100+ Years

NPV in 2015($K): 6,119
1-Time Cost($K): 6,202

Net Costs ($K) Constant Dollars

	1996	1997	1998	1999	2000	2001	Total	Beyond
MilCon	0	0	0	0	0	0	0	0
Person	0	0	0	0	0	0	0	0
Overhd	0	0	0	0	0	0	0	0
Moving	6,202	0	0	0	0	0	6,202	0
Missio	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0
TOTAL	6,202	0	0	0	0	0	6,202	0

	1996	1997	1998	1999	2000	2001	TOTAL
POSITIONS ELIMINATED							
Officers	0	0	0	0	0	0	0
Enlisted	0	0	0	0	0	0	0
Civilian	0	0	0	0	0	0	0
TOTAL	0	0	0	0	0	0	0
POSITIONS REALIGNED							
Officers	1,000	0	0	0	0	0	1,000
Enlisted	0	0	0	0	0	0	0
Students	0	0	0	0	0	0	0
Civilian	0	0	0	0	0	0	0
TOTAL	1,000	0	0	0	0	0	1,000

$ 6,202 PER OFFICER PCS

COBRA FILE = OFFMOV.CBR

MOVEMENT DISTANCE = 1,000 MILES

Summary:

CALCULATION OF PCS EXPENSES FOR OFFICERS MOVING TO BASE X.

Data As Of 07:25 09/13/1994, Report Created 08:00 09/26/1994

Department : ARMY
Option Package : OFFICER PCS
Scenario File : C:\COBRA\OFFMOV.CBR
Std Fctrs File : C:\COBRA\BRAC95.SFF

Costs ($K) Constant Dollars

	1996	1997	1998	1999	2000	2001	Total	Beyond
MilCon	0	0	0	0	0	0	0	0
Person	0	0	0	0	0	0	0	0
Overhd	0	0	0	0	0	0	0	0
Moving	6,202	0	0	0	0	0	6,202	0
Missio	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0
TOTAL	6,202	0	0	0	0	0	6,202	0

Savings ($K) Constant Dollars

	1996	1997	1998	1999	2000	2001	Total	Beyond
MilCon	0	0	0	0	0	0	0	0
Person	0	0	0	0	0	0	0	0
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	0	0	0	0	0	0

STANDARD FACTOR #60
ONE-TIME PCS COST OFFICER

1. DESCRIPTION: The average one-time PCS cost for an officer. This factor

2. VALIDATED VALUE: 0.0

3. DATA SOURCE: NONE

   a. DATE LAST UPDATED: NA

   b. DATE OF NEXT UPDATE: NA

5. METHODOLOGY: This factor is used to cost the one-time moving cost associated with the final PCS move of an officer who is eliminated by a BRAC recommendation. As a matter of Army policy, no officers are eliminated as a direct result of BRAC actions.

6. VALIDATION PROCEDURE: None taken.

I certify that the information supplied is accurate and complete to the best of my knowledge and belief.

CHARLES V. FLETCHER
MAJ, IN
OPERATIONS ANALYST

STANDARD FACTOR #61
ONE-TIME PCS COST ENLISTED
Change 3 - 14 Oct 1994

1. DESCRIPTION: The average one-time costs of enlisted PCSs, per person. This is used in conjunction with the number of officer positions eliminated to estimate costs of moving enlisted to their "final" locations. (Allowed entries 0.00 to 100,000.00 $/person)

2. VALIDATED VALUE: $4,381

3. DATA SOURCE: BRAC 95 COBRA run.

   a. DATE LAST UPDATED: 14 Oct 1994.

   b. DATE OF NEXT UPDATE: NA

4. METHODOLOGY: See attached Documentation.

5. VALIDATION PROCEDURE: None taken.

I certify that the information supplied is accurate and complete to the best of my knowledge and belief.

Charles V. Fletcher
CHARLES V. FLETCHER
MAJ, IN
OPERATIONS ANALYST

COBRA REALIGNMENT SUMMARY (COBRA v5.0A*P)
Data As Of 07:25 09/13/1994, Report Created 13:53 10/03/1994

#4,381

Department : ARMY
Option Package : ENLISTED PCS
Scenario File : C:\COBRA\ENLMOV.CBR
Std Fctrs File : C:\COBRA\DOD95.SFF

Starting Year : 1996
Final Year : 1996
ROI Year : 100+ Years

NPV in 2015($K): 4,322
1-Time Cost($K): 4,381

Net Costs ($K) Constant Dollars

	1996	1997	1998	1999	2000	2001	Total	Beyond
MilCon	0	0	0	0	0	0	0	0
Person	0	0	0	0	0	0	0	0
Overhd	0	0	0	0	0	0	0	0
Moving	4,381	0	0	0	0	0	4,381	0
Missio	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0
TOTAL	4,381	0	0	0	0	0	4,381	0

	1996	1997	1998	1999	2000	2001	TOTAL
POSITIONS ELIMINATED							
Officers	0	0	0	0	0	0	0
Enlisted	0	0	0	0	0	0	0
Civilians	0	0	0	0	0	0	0
TOTAL	0	0	0	0	0	0	0
POSITIONS REALIGNED							
Officers	0	0	0	0	0	0	0
Enlisted	1,000	0	0	0	0	0	1,000
Students	0	0	0	0	0	0	0
Civilians	0	0	0	0	0	0	0
TOTAL	1,000	0	0	0	0	0	1,000

Summary:

CALCULATION OF PCS EXPENSES FOR ENLISTED MOVING TO BASE X.

COBRA REALIGNMENT SUMMARY (COBRA v5.0A*P) - Page 2
Data As Of 07:25 09/13/1994, Report Created 13:53 10/03/1994

Department : ARMY
Option Package : ENLISTED PCS
Scenario File : C:\COBRA\ENLMOV.CBR
Std Fctrs File : C:\COBRA\DOD95.SFF

Costs ($K) Constant Dollars

	1996	1997	1998	1999	2000	2001	Total	Beyond
MilCon	0	0	0	0	0	0	0	0
Person	0	0	0	0	0	0	0	0
Overhd	0	0	0	0	0	0	0	0
Moving	4,381	0	0	0	0	0	4,381	0
Missio	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0
TOTAL	4,381	0	0	0	0	0	4,381	0

Savings ($K) Constant Dollars

	1996	1997	1998	1999	2000	2001	Total	Beyond
MilCon	0	0	0	0	0	0	0	0
Person	0	0	0	0	0	0	0	0
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	0	0	0	0	0	0

TOTAL APPROPRIATIONS DETAIL REPORT (COBRA v5.0A*P)
Data As Of 07:25 09/13/1994, Report Created 13:53 10/03/1994

Department : ARMY
Option Package : ENLISTED PCS
Scenario File : C:\COBRA\ENLMOV.CBR
Std Fctrs File : C:\COBRA\DOD95.SFF

ONE-TIME COSTS -----($K)-----	1996	1997	1998	1999	2000	2001	Total
CONSTRUCTION							
MILCON	0	0	0	0	0	0	0
Fam Housing	0	0	0	0	0	0	0
Land Purch	0	0	0	0	0	0	0
O&M							
CIV SALARY							
Civ RIF	0	0	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
PPS	0	0	0	0	0	0	0
RITA	0	0	0	0	0	0	0
FREIGHT							
Packing	248	0	0	0	0	0	248
Freight	25	0	0	0	0	0	25
Vehicles	0	0	0	0	0	0	0
Driving	0	0	0	0	0	0	0
Unemployment	0	0	0	0	0	0	0
OTHER							
Program Plan	0	0	0	0	0	0	0
Shutdown	0	0	0	0	0	0	0
New Hire	0	0	0	0	0	0	0
1-Time Move	0	0	0	0	0	0	0
MIL PERSONNEL							
MIL MOVING							
Per Diem	208	0	0	0	0	0	208
POV Miles	180	0	0	0	0	0	180
HHG	3,019	0	0	0	0	0	3,019
Misc	700	0	0	0	0	0	700
OTHER							
Elim PCS	0	0	0	0	0	0	0
OTHER							
HAP / RSE	0	0	0	0	0	0	0
Environmental	0	0	0	0	0	0	0
Info Manage	0	0	0	0	0	0	0
1-Time Other	0	0	0	0	0	0	0
TOTAL ONE-TIME	4,381	0	0	0	0	0	4,381

Department : ARMY
Option Package : ENLISTED PCS
Scenario File : C:\COBRA\ENLMOV.CBR
Std Pctrs File : C:\COBRA\DOD95.SPF

RECURRINGCOSTS -----($K)-----	1996	1997	1998	1999	2000	2001	Total	Beyond
FAM HOUSE OPS	0	0	0	0	0	0	0	0
O&M								
RPMA	0	0	0	0	0	0	0	0
BOS	0	0	0	0	0	0	0	0
Unique Operat	0	0	0	0	0	0	0	0
Civ Salary	0	0	0	0	0	0	0	0
CHAMPUS	0	0	0	0	0	0	0	0
Caretaker	0	0	0	0	0	0	0	0
MIL PERSONNEL								
Off Salary	0	0	0	0	0	0	0	0
Enl Salary	0	0	0	0	0	0	0	0
House Allow	0	0	0	0	0	0	0	0
OTHER								
Mission	0	0	0	0	0	0	0	0
Misc Recur	0	0	0	0	0	0	0	0
Unique Other	0	0	0	0	0	0	0	0
TOTAL RECUR	0	0	0	0	0	0	0	0
TOTAL COST	4,381	0	0	0	0	0	4,381	0

ONE-TIME SAVES -----($K)-----	1996	1997	1998	1999	2000	2001	Total
CONSTRUCTION							
MILCON	0	0	0	0	0	0	0
Fam Housing	0	0	0	0	0	0	0
O&M							
1-Time Move	0	0	0	0	0	0	0
MIL PERSONNEL							
Mil Moving	0	0	0	0	0	0	0
OTHER							
Land Sales	0	0	0	0	0	0	0
Environmental	0	0	0	0	0	0	0
1-Time Other	0	0	0	0	0	0	0
TOTAL ONE-TIME	0	0	0	0	0	0	0

RECURRINGSAVES -----($K)-----	1996	1997	1998	1999	2000	2001	Total	Beyond
FAM HOUSE OPS	0	0	0	0	0	0	0	0
O&M								
RPMA	0	0	0	0	0	0	0	0
BOS	0	0	0	0	0	0	0	0
Unique Operat	0	0	0	0	0	0	0	0
Civ Salary	0	0	0	0	0	0	0	0
CHAMPUS	0	0	0	0	0	0	0	0
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	0	0	0	0	0	0	0	0
Misc Recur	0	0	0	0	0	0	0	0
Unique Other	0	0	0	0	0	0	0	0
TOTAL RECUR	0	0	0	0	0	0	0	0
TOTAL SAVINGS	0	0	0	0	0	0	0	0

TOTAL APPROPRIATIONS DETAIL REPORT (COBRA v5.0A*P) - Page 3
Data As Of 07:25 09/13/1994, Report Created 13:53 10/03/1994

Department : ARMY
Option Package : ENLISTED PCS
Scenario File : C:\COBRA\ENLMOV.CBR
Std Fctrs File : C:\COBRA\DOD95.SFF

ONE-TIME NET -----($K)-----	1996	1997	1998	1999	2000	2001	Total
CONSTRUCTION							
MILCON	0	0	0	0	0	0	0
Fam Housing	0	0	0	0	0	0	0
O&M							
Civ Retir/RIF	0	0	0	0	0	0	0
Civ Moving	273	0	0	0	0	0	273
Other	0	0	0	0	0	0	0
MIL PERSONNEL							
Mil Moving	4,108	0	0	0	0	0	4,108
OTHER							
HAP / RSE	0	0	0	0	0	0	0
Environmental	0	0	0	0	0	0	0
Info Manage	0	0	0	0	0	0	0
1-Time Other	0	0	0	0	0	0	0
Land	0	0	0	0	0	0	0
TOTAL ONE-TIME	4,381	0	0	0	0	0	4,381

RECURRING NET -----($K)-----	1996	1997	1998	1999	2000	2001	Total	Beyond
FAM HOUSE OPS	0	0	0	0	0	0	0	0
O&M								
RPMA	0	0	0	0	0	0	0	0
BOS	0	0	0	0	0	0	0	0
Unique Operat	0	0	0	0	0	0	0	0
Caretaker	0	0	0	0	0	0	0	0
Civ Salary	0	0	0	0	0	0	0	0
CHAMPUS	0	0	0	0	0	0	0	0
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	0	0	0	0	0	0	0	0
Misc Recur	0	0	0	0	0	0	0	0
Unique Other	0	0	0	0	0	0	0	0
TOTAL RECUR	0	0	0	0	0	0	0	0
TOTAL NET COST	4,381	0	0	0	0	0	4,381	0

Data As Of 07:25 09/13/1994, Report Created 13:53 10/03/1994

Department : ARMY
Option Package : ENLISTED PCS
Scenario File : C:\COBRA\ENLMOV.CBR
Std Fctrs File : C:\COBRA\DOD95.SFF

Base: NOTIONAL BASE #1, US

ONE-TIME COSTS -----($K)-----	1996	1997	1998	1999	2000	2001	Total
CONSTRUCTION							
MILCON	0	0	0	0	0	0	0
Fam Housing	0	0	0	0	0	0	0
Land Purch	0	0	0	0	0	0	0
O&M							
CIV SALARY							
Civ RIFs	0	0	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
MHG	0	0	0	0	0	0	0
Misc	0	0	0	0	0	0	0
House Hunt	0	0	0	0	0	0	0
PPS	0	0	0	0	0	0	0
RITA	0	0	0	0	0	0	0
FREIGHT							
Packing	248	0	0	0	0	0	248
Freight	25	0	0	0	0	0	25
Vehicles	0	0	0	0	0	0	0
Driving	0	0	0	0	0	0	0
Unemployment	0	0	0	0	0	0	0
OTHER							
Program Plan	0	0	0	0	0	0	0
Shutdown	0	0	0	0	0	0	0
New Hires	0	0	0	0	0	0	0
1-Time Move	0	0	0	0	0	0	0
MIL PERSONNEL							
MIL MOVING							
Per Diem	208	0	0	0	0	0	208
POV Miles	180	0	0	0	0	0	180
MHG	3,019	0	0	0	0	0	3,019
Misc	700	0	0	0	0	0	700
OTHER							
Elim PCS	0	0	0	0	0	0	0
OTHER							
HAP / RSE	0	0	0	0	0	0	0
Environmental	0	0	0	0	0	0	0
Info Manage	0	0	0	0	0	0	0
1-Time Other	0	0	0	0	0	0	0
TOTAL ONE-TIME	4,381	0	0	0	0	0	4,381

Department : ARMY
Option Package : ENLISTED PCS
Scenario File : C:\COBRA\ENLMOV.CBR
Std Fctrs File : C:\COBRA\DOD95.SFF

Base: NOTIONAL BASE #1, US

RECURRINGCOSTS -----($K)-----	1996	1997	1998	1999	2000	2001	Total	Beyond
FAM HOUSE OPS	0	0	0	0	0	0	0	0
O&M								
RPMA	0	0	0	0	0	0	0	0
BOS	0	0	0	0	0	0	0	0
Unique Operat	0	0	0	0	0	0	0	0
Civ Salary	0	0	0	0	0	0	0	0
CHAMPUS	0	0	0	0	0	0	0	0
Caretaker	0	0	0	0	0	0	0	0
MIL PERSONNEL								
Off Salary	0	0	0	0	0	0	0	0
Enl Salary	0	0	0	0	0	0	0	0
House Allow	0	0	0	0	0	0	0	0
OTHER								
Mission	0	0	0	0	0	0	0	0
Misc Recur	0	0	0	0	0	0	0	0
Unique Other	0	0	0	0	0	0	0	0
TOTAL RECUR	0	0	0	0	0	0	0	0
TOTAL COSTS	4,381	0	0	0	0	0	4,381	0

ONE-TIME SAVES -----($K)-----	1996	1997	1998	1999	2000	2001	Total
CONSTRUCTION							
MILCON	0	0	0	0	0	0	0
Fam Housing	0	0	0	0	0	0	0
O&M							
1-Time Move	0	0	0	0	0	0	0
MIL PERSONNEL							
Mil Moving	0	0	0	0	0	0	0
OTHER							
Land Sales	0	0	0	0	0	0	0
Environmental	0	0	0	0	0	0	0
1-Time Other	0	0	0	0	0	0	0
TOTAL ONE-TIME	0	0	0	0	0	0	0

RECURRINGSAVES -----($K)-----	1996	1997	1998	1999	2000	2001	Total	Beyond
FAM HOUSE OPS	0	0	0	0	0	0	0	0
O&M								
RPMA	0	0	0	0	0	0	0	0
BOS	0	0	0	0	0	0	0	0
Unique Operat	0	0	0	0	0	0	0	0
Civ Salary	0	0	0	0	0	0	0	0
CHAMPUS	0	0	0	0	0	0	0	0
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	0	0	0	0	0	0	0	0
Misc Recur	0	0	0	0	0	0	0	0
Unique Other	0	0	0	0	0	0	0	0
TOTAL RECUR	0	0	0	0	0	0	0	0
TOTAL SAVINGS	0	0	0	0	0	0	0	0

Data As Of 07:25 09/13/1994, Report Created 13:53 10/03/1994

Department : ARMY
Option Package : ENLISTED PCS
Scenario File : C:\COBRA\ENLMOV.CBR
Std Fctrs File : C:\COBRA\DOD95.SFF

Base: NOTIONAL BASE #1, US

ONE-TIME NET -----($K)-----	1996	1997	1998	1999	2000	2001	Total
CONSTRUCTION							
MILCON	0	0	0	0	0	0	0
Fam Housing	0	0	0	0	0	0	0
O&M							
Civ Retir/RIF	0	0	0	0	0	0	0
Civ Moving	273	0	0	0	0	0	273
Other	0	0	0	0	0	0	0
MIL PERSONNEL							
Mil Moving	4,108	0	0	0	0	0	4,108
OTHER							
HAP / RSE	0	0	0	0	0	0	0
Environmental	0	0	0	0	0	0	0
Info Manage	0	0	0	0	0	0	0
1-Time Other	0	0	0	0	0	0	0
Land	0	0	0	0	0	0	0
TOTAL ONE-TIME	4,381	0	0	0	0	0	4,381

RECURRING NET -----($K)-----	1996	1997	1998	1999	2000	2001	Total	Beyond
FAM HOUSE OPS	0	0	0	0	0	0	0	0
O&M								
RPMA	0	0	0	0	0	0	0	0
BOS	0	0	0	0	0	0	0	0
Unique Operat	0	0	0	0	0	0	0	0
Caretaker	0	0	0	0	0	0	0	0
Civ Salary	0	0	0	0	0	0	0	0
CHAMPUS	0	0	0	0	0	0	0	0
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	0	0	0	0	0	0	0	0
Misc Recur	0	0	0	0	0	0	0	0
Unique Other	0	0	0	0	0	0	0	0
TOTAL RECUR	0	0	0	0	0	0	0	0
TOTAL NET COST	4,381	0	0	0	0	0	4,381	0

Data As Of 07:25 09/13/1994, Report Created 13:53 10/03/1994

Department : ARMY
Option Package : ENLISTED PCS
Scenario File : C:\COBRA\ENLMOV.CBR
Std Fctrs File : C:\COBRA\DOD95.SFF

Base: BASE X, US

ONE-TIME COSTS -----($K)-----	1996	1997	1998	1999	2000	2001	Total
CONSTRUCTION							
MILCON	0	0	0	0	0	0	0
Fam Housing	0	0	0	0	0	0	0
Land Purch	0	0	0	0	0	0	0
O&M							
CIV SALARY							
Civ RIFs	0	0	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
PPS	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
Driving	0	0	0	0	0	0	0
Unemployment	0	0	0	0	0	0	0
OTHER							
Program Plan	0	0	0	0	0	0	0
Shutdown	0	0	0	0	0	0	0
New Hires	0	0	0	0	0	0	0
1-Time Move	0	0	0	0	0	0	0
MIL PERSONNEL							
MIL MOVING							
Per Diem	0	0	0	0	0	0	0
POV Miles	0	0	0	0	0	0	0
HHG	0	0	0	0	0	0	0
Misc	0	0	0	0	0	0	0
OTHER							
Elim PCS	0	0	0	0	0	0	0
OTHER							
HAP / RSE	0	0	0	0	0	0	0
Environmental	0	0	0	0	0	0	0
Info Manage	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

Data As Of 07:25 09/13/1994, Report Created 13:53 10/03/1994

Department : ARMY
Option Package : ENLISTED PCS
Scenario File : C:\COBRA\ENLMOV.CBR
Std Fctrs File : C:\COBRA\DOD95.SFF

Base: BASE X, US

RECURRINGCOSTS -----($K)-----	1996	1997	1998	1999	2000	2001	Total	Beyond
FAM HOUSE OPS	0	0	0	0	0	0	0	0
O&M								
RPMA	0	0	0	0	0	0	0	0
BOS	0	0	0	0	0	0	0	0
Unique Operat	0	0	0	0	0	0	0	0
Civ Salary	0	0	0	0	0	0	0	0
CHAMPUS	0	0	0	0	0	0	0	0
Caretaker	0	0	0	0	0	0	0	0
MIL PERSONNEL								
Off Salary	0	0	0	0	0	0	0	0
Enl Salary	0	0	0	0	0	0	0	0
House Allow	0	0	0	0	0	0	0	0
OTHER								
Mission	0	0	0	0	0	0	0	0
Misc Recur	0	0	0	0	0	0	0	0
Unique Other	0	0	0	0	0	0	0	0
TOTAL RECUR	0	0	0	0	0	0	0	0
TOTAL COSTS	0	0	0	0	0	0	0	0

ONE-TIME SAVES -----($K)-----	1996	1997	1998	1999	2000	2001	Total
CONSTRUCTION							
MILCON	0	0	0	0	0	0	0
Fam Housing	0	0	0	0	0	0	0
O&M							
1-Time Move	0	0	0	0	0	0	0
MIL PERSONNEL							
Mil Moving	0	0	0	0	0	0	0
OTHER							
Land Sales	0	0	0	0	0	0	0
Environmental	0	0	0	0	0	0	0
1-Time Other	0	0	0	0	0	0	0
TOTAL ONE-TIME	0	0	0	0	0	0	0

RECURRINGSAVES -----($K)-----	1996	1997	1998	1999	2000	2001	Total	Beyond
FAM HOUSE OPS	0	0	0	0	0	0	0	0
O&M								
RPMA	0	0	0	0	0	0	0	0
BOS	0	0	0	0	0	0	0	0
Unique Operat	0	0	0	0	0	0	0	0
Civ Salary	0	0	0	0	0	0	0	0
CHAMPUS	0	0	0	0	0	0	0	0
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	0	0	0	0	0	0	0	0
Misc Recur	0	0	0	0	0	0	0	0
Unique Other	0	0	0	0	0	0	0	0
TOTAL RECUR	0	0	0	0	0	0	0	0
TOTAL SAVINGS	0	0	0	0	0	0	0	0

Data As Of 07:25 09/13/1994, Report Created 13:53 10/03/1994

Department : ARMY
Option Package : ENLISTED PCS
Scenario File : C:\COBRA\ENLMOV.CBR
Std Pctrs File : C:\COBRA\DOD95.SPF

Base: BASE X, US

ONE-TIME NET -----($K)-----	1996	1997	1998	1999	2000	2001	Total
CONSTRUCTION							
MILCON	0	0	0	0	0	0	0
Fam Housing	0	0	0	0	0	0	0
O&M							
Civ Retir/RIF	0	0	0	0	0	0	0
Civ Moving	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0
MIL PERSONNEL							
Mil Moving	0	0	0	0	0	0	0
OTHER							
HAP / RSE	0	0	0	0	0	0	0
Environmental	0	0	0	0	0	0	0
Info Manage	0	0	0	0	0	0	0
1-Time Other	0	0	0	0	0	0	0
Land	0	0	0	0	0	0	0
TOTAL ONE-TIME	0	0	0	0	0	0	0

RECURRING NET -----($K)-----	1996	1997	1998	1999	2000	2001	Total	Beyond
FAM HOUSE OPS	0	0	0	0	0	0	0	0
O&M								
RPMA	0	0	0	0	0	0	0	0
BOS	0	0	0	0	0	0	0	0
Unique Operat	0	0	0	0	0	0	0	0
Caretaker	0	0	0	0	0	0	0	0
Civ Salary	0	0	0	0	0	0	0	0
CHAMPUS	0	0	0	0	0	0	0	0
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	0	0	0	0	0	0	0	0
Misc Recur	0	0	0	0	0	0	0	0
Unique Other	0	0	0	0	0	0	0	0
TOTAL RECUR	0	0	0	0	0	0	0	0
TOTAL NET COST	0	0	0	0	0	0	0	0

INPUT DATA REPORT (COBRA v5.0A*P)
Data As Of 07:25 09/13/1994, Report Created 13:53 10/03/1994

Department : ARMY
Option Package : ENLISTED PCS
Scenario File : C:\COBRA\ENLMOV.CBR
Std Fctrs File : C:\COBRA\DOD95.SFF

INPUT SCREEN ONE - GENERAL SCENARIO INFORMATION

Model Year One : FY 1996

Model does Time-Phasing of Construction/Shutdown: Yes

Base Name	Strategy:
NOTIONAL BASE #1, US	Realignment
BASE X, US	Realignment

Summary:

CALCULATION OF PCS EXPENSES FOR ENLISTED MOVING TO BASE X.

INPUT SCREEN TWO - DISTANCE TABLE

From Base:	To Base:	Distance:
NOTIONAL BASE #1, US	BASE X, US	1,000 mi

INPUT SCREEN THREE - MOVEMENT TABLE

Transfers from NOTIONAL BASE #1, US to BASE X, US

	1996	1997	1998	1999	2000	2001
Officer Positions:	0	0	0	0	0	0
Enlisted Positions:	1,000	0	0	0	0	0
Civilian Positions:	0	0	0	0	0	0
Student Positions:	0	0	0	0	0	0
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: NOTIONAL BASE #1, US

Total Officer Employees:	0	RPMA Non-Payroll ($K/Year):	0
Total Enlisted Employees:	1,000	Communications ($K/Year):	0
Total Student Employees:	0	BOS Non-Payroll ($K/Year):	0
Total Civilian Employees:	0	BOS Payroll ($K/Year):	0
Mil Families Living On Base:	0.0%	Family Housing ($K/Year):	0
Civilians Not Willing To Move:	0.0%	Area Cost Factor:	1.00
Officer Housing Units Avail:	0	CHAMPUS In-Pat ($/Visit):	0
Enlisted Housing Units Avail:	0	CHAMPUS Out-Pat ($/Visit):	0
Total Base Facilities(KSF):	0	CHAMPUS Shift to Medicare:	20.9%
Officer VHA ($/Month):	0	Activity Code:	
Enlisted VHA ($/Month):	0		
Per Diem Rate ($/Day):	0	Homeowner Assistance Program:	No
Freight Cost ($/Ton/Mile):	0.07	Unique Activity Information:	No

Department : ARMY
Option Package : ENLISTED PCS
Scenario File : C:\COBRA\ENLMOV.CBR
Std Fctrs File : C:\COBRA\DOD95.SFF

INPUT SCREEN FOUR - STATIC BASE INFORMATION

Name: BASE X, US

Total Officer Employees:	0	RPMA Non-Payroll ($K/Year):	0
Total Enlisted Employees:	0	Communications ($K/Year):	0
Total Student Employees:	0	BOS Non-Payroll ($K/Year):	0
Total Civilian Employees:	0	BOS Payroll ($K/Year):	0
Mil Families Living On Base:	0.0%	Family Housing ($K/Year):	0
Civilians Not Willing To Move:	0.0%	Area Cost Factor:	1.02
Officer Housing Units Avail:	0	CHAMPUS In-Pat ($/Visit):	0
Enlisted Housing Units Avail:	0	CHAMPUS Out-Pat ($/Visit):	0
Total Base Facilities(KSF):	0	CHAMPUS Shift to Medicare:	0.0%
Officer VHA ($/Month):	0	Activity Code:	
Enlisted VHA ($/Month):	0		
Per Diem Rate ($/Day):	73	Homeowner Assistance Program:	No
Freight Cost ($/Ton/Mile):	0.07	Unique Activity Information:	No

INPUT SCREEN FIVE - DYNAMIC BASE INFORMATION

Name: NOTIONAL BASE #1, US

	1996	1997	1998	1999	2000	2001
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 ($K):	0	0	0	0	0	0
Misc Recurring Cost($K):	0	0	0	0	0	0
Misc Recurring Save($K):	0	0	0	0	0	0
Land (+Buy/-Sales) ($K):	0	0	0	0	0	0
Construction Schedule(%):	0%	0%	0%	0%	0%	0%
Shutdown Schedule (%):	0%	0%	0%	0%	0%	0%
MilCon Cost Avoidnc($K):	0	0	0	0	0	0
Fam Housing Avoidnc($K):	0	0	0	0	0	0
Procurement Avoidnc($K):	0	0	0	0	0	0
CHAMPUS In-Patients/Yr:	0	0	0	0	0	0
CHAMPUS Out-Patients/Yr:	0	0	0	0	0	0
Facil ShutDown(KSF):	0	Perc Family Housing ShutDown:				0.0%

Name: BASE X, US

	1996	1997	1998	1999	2000	2001
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 ($K):	0	0	0	0	0	0
Misc Recurring Cost($K):	0	0	0	0	0	0
Misc Recurring Save($K):	0	0	0	0	0	0
Land (+Buy/-Sales) ($K):	0	0	0	0	0	0
Construction Schedule(%):	0%	0%	0%	0%	0%	0%
Shutdown Schedule (%):	0%	0%	0%	0%	0%	0%
MilCon Cost Avoidnc($K):	0	0	0	0	0	0
Fam Housing Avoidnc($K):	0	0	0	0	0	0
Procurement Avoidnc($K):	0	0	0	0	0	0
CHAMPUS In-Patients/Yr:	0	0	0	0	0	0
CHAMPUS Out-Patients/Yr:	0	0	0	0	0	0
Facil ShutDown(KSF):	0	Perc Family Housing ShutDown:				0.0%

Data As Of 07:25 09/13/1994, Report Created 13:53 10 03 1994

Department : ARMY
Option Package : ENLISTED PCS
Scenario File : C:\COBRA\ENLMOV.CBR
Std Pctrs File : C:\COBRA\DOD95.SFF

STANDARD FACTORS SCREEN ONE - PERSONNEL

Percent Officers Married:	74.00%	Civ Early Retire Pay Factor:	9.00%
Percent Enlisted Married:	55.50%	Priority Placement Service:	60.00%
Enlisted Housing MilCon:	82.00%	PPS Actions Involving PCS:	50.00%
Officer Salary($/Year):	77,068.00	Civilian PCS Costs ($):	28,652.00
Off BAQ with Dependents($):	7,717.00	Civilian New Hire Cost($):	1,109.00
Enlisted Salary($/Year):	34,120.00	Nat Median Home Price($):	114,600.00
Enl BAQ with Dependents($):	5,223.00	Home Sale Reimburse Rate:	5.00%
Avg Unemploy Cost($/Week):	174.00	Max Home Sale Reimburs($):	22,385.00
Unemployment Eligibility(Weeks):	18	Home Purch Reimburse Rate:	5.00%
Civilian Salary($/Year):	45,998.00	Max Home Purch Reimburs($):	11,919.00
Civilian Turnover Rate:	15.00%	Civilian Homeowning Rate:	64.00%
Civilian Early Retire Rate:	10.00%	HAP Home Value Reimburse Rate:	22.90%
Civilian Regular Retire Rate:	5.00%	HAP Homeowner Receiving Rate:	5.00%
Civilian RIF Pay Factor:	34.00%	RSE Home Value Reimburse Rate:	18.00%
SF File Desc:	brac95.sff	RSE Homeowner Receiving Rate:	12.00%

STANDARD FACTORS SCREEN TWO - FACILITIES

RPMA Building SF Cost Index:	1.00	Rehab vs. New MilCon Cost:	59.00%
BOS Index (RPMA vs population):	1.00	Info Management Account:	15.00%
(Indices are used as exponents)		MilCon Design Rate:	10.00%
Program Management Factor:	10.00%	MilCon SIOH Rate:	6.00%
Caretaker Admin(SF/Care):	162.00	MilCon Contingency Plan Rate:	7.00%
Mothball Cost ($/SF):	1.25	MilCon Site Preparation Rate:	24.00%
Avg Bachelor Quarters(SF):	388.00	Discount Rate for NPV.RPT/ROI:	2.75%
Avg Family Quarters(SF):	1,819.00	Inflation Rate for NPV.RPT/ROI:	0.00%

APPDET.RPT Inflation Rates:
1996: 2.90% 1997: 3.00% 1998: 3.00% 1999: 3.00% 2000: 3.00% 2001: 3.00%

STANDARD FACTORS SCREEN THREE - TRANSPORTATION

Material/Assigned Person(Lb):	710	Equip Pack & Crate($/Ton):	284.00
HHG Per Off Family (Lb):	14,500.00	Mil Light Vehicle($/Mile):	0.10
HHG Per Enl Family (Lb):	9,000.00	Heavy/Spec Vehicle($/Mile):	0.10
HHG Per Mil Single (Lb):	6,400.00	POV Reimbursement($/Mile):	0.18
HHG Per Civilian (Lb):	18,000.00	Avg Mil Tour Length (Years):	1.00
Total HHG Cost ($/100Lb):	35.00	Routine PCS($/Pers/Tour):	0.00
Air Transport ($/Pass Mile):	0.20	One-Time Off PCS Cost($):	0.00
Misc Exp ($/Direct Employ):	700.00	One-Time Enl PCS Cost($):	0.00

STANDARD FACTORS SCREEN FOUR - MILITARY CONSTRUCTION

Category	UM	$/UM	Category	UM	$/UM
Horizontal	(SY)	38	APPLIED INSTR	(SF)	114
Waterfront	(LF)	0	LABS (RDT&E)	(SF)	175
Air Operations	(SF)	130	CHILD CARE CENTER	(SF)	120
Operational	(SF)	119	PRODUCTION FAC	(SF)	100
Administrative	(SF)	106	PHYSICAL FITNESS FAC	(SF)	128
School Buildings	(SF)	104	Optional Category F	( )	0
Maintenance Shops	(SF)	108	Optional Category G	( )	0
Bachelor Quarters	(EA)	46,227	Optional Category H	( )	0
Family Quarters	(EA)	88,689	Optional Category I	( )	0
Covered Storage	(SF)	60	Optional Category J	( )	0
Dining Facilities	(SF)	180	Optional Category K	( )	0
Recreation Facilities	(SF)	0	Optional Category L	( )	0
Communications Facil	(SF)	0	Optional Category M	( )	0
Shipyard Maintenance	(SF)	0	Optional Category N	( )	0
RDT & E Facilities	(SF)	139	Optional Category O	( )	0
POL Storage	(BL)	0	Optional Category P	( )	0
Ammunition Storage	(SF)	0	Optional Category Q	( )	0
Medical Facilities	(SF)	0	Optional Category R	( )	0
Environmental	( )	0			

STANDARD FACTOR #61
ONE-TIME PCS COST ENLISTED
Change 1 - 26 Sep 1994

1. DESCRIPTION: The average one-time costs of enlisted PCSs, per person. This is used in conjunction with the number of officer positions eliminated to estimate costs of moving enlisted to their "final" locations. (Allowed entries 0.00 to 100,000.00 $/person)

2. VALIDATED VALUE: $4,174

3. DATA SOURCE : BRAC 95 COBRA run.

   a. DATE LAST UPDATED : 26 Sep 1994.

   b. DATE OF NEXT UPDATE : NA

4. METHODOLOGY : See attached Documentation.

5. VALIDATION PROCEDURE : None taken.

I certify that the information supplied is accurate and complete to the best of my knowledge and belief.

Charles V. Fletcher
CHARLES V. FLETCHER
MAJ, IN
OPERATIONS ANALYST

STANDARD FACTOR #61
ONE-TIME PCS COST ENLISTED
Change 3 - 14 Oct 1994

1. DESCRIPTION: The average one-time costs of enlisted PCSs, per person. This is used in conjunction with the number of officer positions eliminated to estimate costs of moving enlisted to their "final" locations. (Allowed entries 0.00 to 100,000.00 $/person)

2. VALIDATED VALUE: $4,381

3. DATA SOURCE: BRAC 95 COBRA run.

   a. DATE LAST UPDATED: 14 Oct 1994.

   b. DATE OF NEXT UPDATE: NA

4. METHODOLOGY: See attached Documentation.

5. VALIDATION PROCEDURE: None taken.

I certify that the information supplied is accurate and complete to the best of my knowledge and belief.

Charles V. Fletcher
CHARLES V. FLETCHER
MAJ, IN
OPERATIONS ANALYST

ENL MOVE

#4,381

COBRA REALIGNMENT SUMMARY (COBRA v5.0A*P)
Data As Of 07:25 09/13/1994, Report Created 13:53 10/03/1994

Department : ARMY
Option Package : ENLISTED PCS
Scenario File : C:\COBRA\ENLMOV.CBR
Std Fctrs File : C:\COBRA\DOD95.SFF

Starting Year : 1996
Final Year : 1996
ROI Year : 100+ Years

NPV in 2015($K): 4,322
1-Time Cost($K): 4,381

Net Costs ($K) Constant Dollars

	1996	1997	1998	1999	2000	2001	Total	Beyond
MilCon	0	0	0	0	0	0	0	0
Person	0	0	0	0	0	0	0	0
Overhd	0	0	0	0	0	0	0	0
Moving	4,381	0	0	0	0	0	4,381	0
Missio	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0
TOTAL	4,381	0	0	0	0	0	4,381	0

	1996	1997	1998	1999	2000	2001	TOTAL
POSITIONS ELIMINATED							
Officers	0	0	0	0	0	0	0
Enlisted	0	0	0	0	0	0	0
Civilians	0	0	0	0	0	0	0
TOTAL	0	0	0	0	0	0	0
POSITIONS REALIGNED							
Officers	0	0	0	0	0	0	0
Enlisted	1,000	0	0	0	0	0	1,000
Students	0	0	0	0	0	0	0
Civilians	0	0	0	0	0	0	0
TOTAL	1,000	0	0	0	0	0	1,000

Summary:

CALCULATION OF PCS EXPENSES FOR ENLISTED MOVING TO BASE X.

COBRA REALIGNMENT SUMMARY (COBRA v5.0A*P) - Page 2
Data As Of 07:25 09/13/1994, Report Created 13:53 10/03/1994

Department : ARMY
Option Package : ENLISTED PCS
Scenario File : C:\COBRA\ENLMOV.CBR
Std Fctrs File : C:\COBRA\DOD95.SFF

Costs ($K) Constant Dollars

	1996	1997	1998	1999	2000	2001	Total	Beyond
MilCon	0	0	0	0	0	0	0	0
Person	0	0	0	0	0	0	0	0
Overhd	0	0	0	0	0	0	0	0
Moving	4,381	0	0	0	0	0	4,381	0
Missio	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0
TOTAL	4,381	0	0	0	0	0	4,381	0

Savings ($K) Constant Dollars

	1996	1997	1998	1999	2000	2001	Total	Beyond
MilCon	0	0	0	0	0	0	0	0
Person	0	0	0	0	0	0	0	0
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	0	0	0	0	0	0

TOTAL APPROPRIATIONS DETAIL REPORT (COBRA V5.0A*P)
Data As Of 07:25 09/13/1994, Report Created 13:53 10/03/1994

Department : ARMY
Option Package : ENLISTED PCS
Scenario File : C:\COBRA\ENLMOV.CBR
Std Fctrs File : C:\COBRA\DOD95.SFF

ONE-TIME COSTS -----($K)-----	1996	1997	1998	1999	2000	2001	Total
CONSTRUCTION							
MILCON	0	0	0	0	0	0	0
Fam Housing	0	0	0	0	0	0	0
Land Purch	0	0	0	0	0	0	0
O&M							
CIV SALARY							
Civ RIF	0	0	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
PPS	0	0	0	0	0	0	0
RITA	0	0	0	0	0	0	0
FREIGHT							
Packing	248	0	0	0	0	0	248
Freight	25	0	0	0	0	0	25
Vehicles	0	0	0	0	0	0	0
Driving	0	0	0	0	0	0	0
Unemployment	0	0	0	0	0	0	0
OTHER							
Program Plan	0	0	0	0	0	0	0
Shutdown	0	0	0	0	0	0	0
New Hire	0	0	0	0	0	0	0
1-Time Move	0	0	0	0	0	0	0
MIL PERSONNEL							
MIL MOVING							
Per Diem	208	0	0	0	0	0	208
POV Miles	180	0	0	0	0	0	180
HHG	3,019	0	0	0	0	0	3,019
Misc	700	0	0	0	0	0	700
OTHER							
Elim PCS	0	0	0	0	0	0	0
OTHER							
HAP / RSE	0	0	0	0	0	0	0
Environmental	0	0	0	0	0	0	0
Info Manage	0	0	0	0	0	0	0
1-Time Other	0	0	0	0	0	0	0
TOTAL ONE-TIME	4,381	0	0	0	0	0	4,381

TOTAL APPROPRIATIONS DETAIL REPORT (COBRA v5.0A*P) - Page 2
Data As Of 07:25 09/13/1994, Report Created 13:53 10/03/1994

Department : ARMY
Option Package : ENLISTED PCS
Scenario File : C:\COBRA\E.ILMOV.CBR
Std Fctrs File : C:\COBRA\DOD95.SFF

RECURRINGCOSTS -----($K)-----	1996	1997	1998	1999	2000	2001	Total	Beyond
FAM HOUSE OPS	0	0	0	0	0	0	0	0
O&M								
RPMA	0	0	0	0	0	0	0	0
BOS	0	0	0	0	0	0	0	0
Unique Operat	0	0	0	0	0	0	0	0
Civ Salary	0	0	0	0	0	0	0	0
CHAMPUS	0	0	0	0	0	0	0	0
Caretaker	0	0	0	0	0	0	0	0
MIL PERSONNEL								
Off Salary	0	0	0	0	0	0	0	0
Enl Salary	0	0	0	0	0	0	0	0
House Allow	0	0	0	0	0	0	0	0
OTHER								
Mission	0	0	0	0	0	0	0	0
Misc Recur	0	0	0	0	0	0	0	0
Unique Other	0	0	0	0	0	0	0	0
TOTAL RECUR	0	0	0	0	0	0	0	0
TOTAL COST	4,381	0	0	0	0	0	4,381	0

ONE-TIME SAVES -----($K)-----	1996	1997	1998	1999	2000	2001	Total
CONSTRUCTION							
MILCON	0	0	0	0	0	0	0
Fam Housing	0	0	0	0	0	0	0
O&M							
1-Time Move	0	0	0	0	0	0	0
MIL PERSONNEL							
Mil Moving	0	0	0	0	0	0	0
OTHER							
Land Sales	0	0	0	0	0	0	0
Environmental	0	0	0	0	0	0	0
1-Time Other	0	0	0	0	0	0	0
TOTAL ONE-TIME	0	0	0	0	0	0	0

RECURRINGSAVES -----($K)-----	1996	1997	1998	1999	2000	2001	Total	Beyond
FAM HOUSE OPS	0	0	0	0	0	0	0	0
O&M								
RPMA	0	0	0	0	0	0	0	0
BOS	0	0	0	0	0	0	0	0
Unique Operat	0	0	0	0	0	0	0	0
Civ Salary	0	0	0	0	0	0	0	0
CHAMPUS	0	0	0	0	0	0	0	0
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	0	0	0	0	0	0	0	0
Misc Recur	0	0	0	0	0	0	0	0
Unique Other	0	0	0	0	0	0	0	0
TOTAL RECUR	0	0	0	0	0	0	0	0
TOTAL SAVINGS	0	0	0	0	0	0	0	0

Data As Of 07:25 09/13/1994, Report Created 13:53 10/03/1994

Department : ARMY
Option Package : ENLISTED PCS
Scenario File : C:\COBRA\ENLMOV.CBR
Std Fctrs File : C:\COBRA\DOD95.SFF

ONE-TIME NET -----($K)-----	1996	1997	1998	1999	2000	2001	Total
CONSTRUCTION							
MILCON	0	0	0	0	0	0	0
Fam Housing	0	0	0	0	0	0	0
O&M							
Civ Retir/RIF	0	0	0	0	0	0	0
Civ Moving	273	0	0	0	0	0	273
Other	0	0	0	0	0	0	0
MIL PERSONNEL							
Mil Moving	4,108	0	0	0	0	0	4,108
OTHER							
HAP / RSE	0	0	0	0	0	0	0
Environmental	0	0	0	0	0	0	0
Info Manage	0	0	0	0	0	0	0
1-Time Other	0	0	0	0	0	0	0
Land	0	0	0	0	0	0	0
TOTAL ONE-TIME	4,381	0	0	0	0	0	4,381

RECURRING NET -----($K)-----	1996	1997	1998	1999	2000	2001	Total	Beyond
FAM HOUSE OPS	0	0	0	0	0	0	0	0
O&M								
RPMA	0	0	0	0	0	0	0	0
BOS	0	0	0	0	0	0	0	0
Unique Operat	0	0	0	0	0	0	0	0
Caretaker	0	0	0	0	0	0	0	0
Civ Salary	0	0	0	0	0	0	0	0
CHAMPUS	0	0	0	0	0	0	0	0
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	0	0	0	0	0	0	0	0
Misc Recur	0	0	0	0	0	0	0	0
Unique Other	0	0	0	0	0	0	0	0
TOTAL RECUR	0	0	0	0	0	0	0	0
TOTAL NET COST	4,381	0	0	0	0	0	4,381	0

APPROPRIATIONS DETAIL REPORT (COBRA v5.0A*P) - Page 4
Data As Of 07:25 09/13/1994, Report Created 13:53 10/03/1994

Department : ARMY
Option Package : ENLISTED PCS
Scenario File : C:\COBRA\ENLMOV.CBR
Std Pctrs File : C:\COBRA\DOD95.SPF

Base: NOTIONAL BASE #1, US

ONE-TIME COSTS -----($K)-----	1996	1997	1998	1999	2000	2001	Total
CONSTRUCTION							
MILCON	0	0	0	0	0	0	0
Fam Housing	0	0	0	0	0	0	0
Land Purch	0	0	0	0	0	0	0
O&M							
CIV SALARY							
Civ RIPs	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
PPS	0	0	0	0	0	0	0
RITA	0	0	0	0	0	0	0
FREIGHT							
Packing	248	0	0	0	0	0	248
Freight	25	0	0	0	0	0	25
Vehicles	0	0	0	0	0	0	0
Driving	0	0	0	0	0	0	0
Unemployment	0	0	0	0	0	0	0
OTHER							
Program Plan	0	0	0	0	0	0	0
Shutdown	0	0	0	0	0	0	0
New Hires	0	0	0	0	0	0	0
1-Time Move	0	0	0	0	0	0	0
MIL PERSONNEL							
MIL MOVING							
Per Diem	208	0	0	0	0	0	208
POV Miles	180	0	0	0	0	0	180
HHG	3,019	0	0	0	0	0	3,019
Misc	700	0	0	0	0	0	700
OTHER							
Elim PCS	0	0	0	0	0	0	0
OTHER							
HAP / RSE	0	0	0	0	0	0	0
Environmental	0	0	0	0	0	0	0
Info Manage	0	0	0	0	0	0	0
1-Time Other	0	0	0	0	0	0	0
TOTAL ONE-TIME	4,381	0	0	0	0	0	4,381

Data As Of 07:25 09/13/1994, Report Created 13:53 10/03/1994

Department : ARMY
Option Package : ENLISTED PCS
Scenario File : C:\COBRA\ENLMOV.CBR
Std Pctrs File : C:\COBRA\DOD95.SFF

Base: NOTIONAL BASE #1, US

RECURRINGCOSTS -----($K)-----	1996	1997	1998	1999	2000	2001	Total	Beyond
FAM HOUSE OPS	0	0	0	0	0	0	0	0
O&M								
RPMA	0	0	0	0	0	0	0	0
BOS	0	0	0	0	0	0	0	0
Unique Operat	0	0	0	0	0	0	0	0
Civ Salary	0	0	0	0	0	0	0	0
CHAMPUS	0	0	0	0	0	0	0	0
Caretaker	0	0	0	0	0	0	0	0
MIL PERSONNEL								
Off Salary	0	0	0	0	0	0	0	0
Enl Salary	0	0	0	0	0	0	0	0
House Allow	0	0	0	0	0	0	0	0
OTHER								
Mission	0	0	0	0	0	0	0	0
Misc Recur	0	0	0	0	0	0	0	0
Unique Other	0	0	0	0	0	0	0	0
TOTAL RECUR	0	0	0	0	0	0	0	0
TOTAL COSTS	4,381	0	0	0	0	0	4,381	0

ONE-TIME SAVES -----($K)-----	1996	1997	1998	1999	2000	2001	Total
CONSTRUCTION							
MILCON	0	0	0	0	0	0	0
Fam Housing	0	0	0	0	0	0	0
O&M							
1-Time Move	0	0	0	0	0	0	0
MIL PERSONNEL							
Mil Moving	0	0	0	0	0	0	0
OTHER							
Land Sales	0	0	0	0	0	0	0
Environmental	0	0	0	0	0	0	0
1-Time Other	0	0	0	0	0	0	0
TOTAL ONE-TIME	0	0	0	0	0	0	0

RECURRINGSAVES -----($K)-----	1996	1997	1998	1999	2000	2001	Total	Beyond
FAM HOUSE OPS	0	0	0	0	0	0	0	0
O&M								
RPMA	0	0	0	0	0	0	0	0
BOS	0	0	0	0	0	0	0	0
Unique Operat	0	0	0	0	0	0	0	0
Civ Salary	0	0	0	0	0	0	0	0
CHAMPUS	0	0	0	0	0	0	0	0
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	0	0	0	0	0	0	0	0
Misc Recur	0	0	0	0	0	0	0	0
Unique Other	0	0	0	0	0	0	0	0
TOTAL RECUR	0	0	0	0	0	0	0	0
TOTAL SAVINGS	0	0	0	0	0	0	0	0

Data As Of 07:25 09/13/1994, Report Created 13:53 10/03/1994

Department : ARMY
Option Package : ENLISTED PCS
Scenario File : C:\COBRA\ENLMOV.CBR
Std Fctrs File : C:\COBRA\DOD95.SFF

Base: NOTIONAL BASE #1, US

ONE-TIME NET -----($K)-----	1996	1997	1998	1999	2000	2001	Total
CONSTRUCTION							
MILCON	0	0	0	0	0	0	0
Fam Housing	0	0	0	0	0	0	0
O&M							
Civ Retir/RIF	0	0	0	0	0	0	0
Civ Moving	273	0	0	0	0	0	273
Other	0	0	0	0	0	0	0
MIL PERSONNEL							
Mil Moving	4,108	0	0	0	0	0	4,108
OTHER							
HAP / RSE	0	0	0	0	0	0	0
Environmental	0	0	0	0	0	0	0
Info Manage	0	0	0	0	0	0	0
1-Time Other	0	0	0	0	0	0	0
Land	0	0	0	0	0	0	0
TOTAL ONE-TIME	4,381	0	0	0	0	0	4,381

RECURRING NET -----($K)-----	1996	1997	1998	1999	2000	2001	Total	Beyond
FAM HOUSE OPS	0	0	0	0	0	0	0	0
O&M								
RPMA	0	0	0	0	0	0	0	0
BOS	0	0	0	0	0	0	0	0
Unique Operat	0	0	0	0	0	0	0	0
Caretaker	0	0	0	0	0	0	0	0
Civ Salary	0	0	0	0	0	0	0	0
CHAMPUS	0	0	0	0	0	0	0	0
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	0	0	0	0	0	0	0	0
Misc Recur	0	0	0	0	0	0	0	0
Unique Other	0	0	0	0	0	0	0	0
TOTAL RECUR	0	0	0	0	0	0	0	0
TOTAL NET COST	4,381	0	0	0	0	0	4,381	0

Data As Of 07:25 09/13/1994, Report Created 13:53 10/03/1994

Department : ARMY
Option Package : ENLISTED PCS
Scenario File : C:\COBRA\ENLMOV.CBR
Std Fctrs File : C:\COBRA\DOD95.SFF

Base: BASE X, US

ONE-TIME COSTS -----($K)-----	1996	1997	1998	1999	2000	2001	Total
CONSTRUCTION							
MILCON	0	0	0	0	0	0	0
Fam Housing	0	0	0	0	0	0	0
Land Purch	0	0	0	0	0	0	0
O&M							
CIV SALARY							
Civ RIFs	0	0	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
PPS	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
Driving	0	0	0	0	0	0	0
Unemployment	0	0	0	0	0	0	0
OTHER							
Program Plan	0	0	0	0	0	0	0
Shutdown	0	0	0	0	0	0	0
New Hires	0	0	0	0	0	0	0
1-Time Move	0	0	0	0	0	0	0
MIL PERSONNEL							
MIL MOVING							
Per Diem	0	0	0	0	0	0	0
POV Miles	0	0	0	0	0	0	0
HHG	0	0	0	0	0	0	0
Misc	0	0	0	0	0	0	0
OTHER							
Elim PCS	0	0	0	0	0	0	0
OTHER							
HAP / RSE	0	0	0	0	0	0	0
Environmental	0	0	0	0	0	0	0
Info Manage	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

Department : ARMY
Option Package : ENLISTED PCS
Scenario File : C:\COBRA\ENLMOV.CBR
Std Fctrs File : C:\COBRA\DOD95.SFF

Base: BASE X, US

RECURRINGCOSTS -----($K)-----	1996	1997	1998	1999	2000	2001	Total	Beyond
FAM HOUSE OPS	0	0	0	0	0	0	0	0
O&M								
RPMA	0	0	0	0	0	0	0	0
BOS	0	0	0	0	0	0	0	0
Unique Operat	0	0	0	0	0	0	0	0
Civ Salary	0	0	0	0	0	0	0	0
CHAMPUS	0	0	0	0	0	0	0	0
Caretaker	0	0	0	0	0	0	0	0
MIL PERSONNEL								
Off Salary	0	0	0	0	0	0	0	0
Enl Salary	0	0	0	0	0	0	0	0
House Allow	0	0	0	0	0	0	0	0
OTHER								
Mission	0	0	0	0	0	0	0	0
Misc Recur	0	0	0	0	0	0	0	0
Unique Other	0	0	0	0	0	0	0	0
TOTAL RECUR	0	0	0	0	0	0	0	0
TOTAL COSTS	0	0	0	0	0	0	0	0

ONE-TIME SAVES -----($K)-----	1996	1997	1998	1999	2000	2001	Total
CONSTRUCTION							
MILCON	0	0	0	0	0	0	0
Fam Housing	0	0	0	0	0	0	0
O&M							
1-Time Move	0	0	0	0	0	0	0
MIL PERSONNEL							
Mil Moving	0	0	0	0	0	0	0
OTHER							
Land Sales	0	0	0	0	0	0	0
Environmental	0	0	0	0	0	0	0
1-Time Other	0	0	0	0	0	0	0
TOTAL ONE-TIME	0	0	0	0	0	0	0

RECURRINGSAVES -----($K)-----	1996	1997	1998	1999	2000	2001	Total	Beyond
FAM HOUSE OPS	0	0	0	0	0	0	0	0
O&M								
RPMA	0	0	0	0	0	0	0	0
BOS	0	0	0	0	0	0	0	0
Unique Operat	0	0	0	0	0	0	0	0
Civ Salary	0	0	0	0	0	0	0	0
CHAMPUS	0	0	0	0	0	0	0	0
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	0	0	0	0	0	0	0	0
Misc Recur	0	0	0	0	0	0	0	0
Unique Other	0	0	0	0	0	0	0	0
TOTAL RECUR	0	0	0	0	0	0	0	0
TOTAL SAVINGS	0	0	0	0	0	0	0	0

Data As Of 07:25 09/13/1994, Report Created 13:53 10/03/1994

Department : ARMY
Option Package : ENLISTED PCS
Scenario File : C:\COBRA\ENLMOV.CBR
Std Fctrs File : C:\COBRA\DOD95.SFF

Base: BASE X, US

ONE-TIME NET -----($K)-----	1996	1997	1998	1999	2000	2001	Total
CONSTRUCTION							
MILCON	0	0	0	0	0	0	0
Fam Housing	0	0	0	0	0	0	0
O&M							
Civ Retir/RIF	0	0	0	0	0	0	0
Civ Moving	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0
MIL PERSONNEL							
Mil Moving	0	0	0	0	0	0	0
OTHER							
HAP / RSE	0	0	0	0	0	0	0
Environmental	0	0	0	0	0	0	0
Info Manage	0	0	0	0	0	0	0
1-Time Other	0	0	0	0	0	0	0
Land	0	0	0	0	0	0	0
TOTAL ONE-TIME	0	0	0	0	0	0	0

RECURRING NET -----($K)-----	1996	1997	1998	1999	2000	2001	Total	Beyond
FAM HOUSE OPS	0	0	0	0	0	0	0	0
O&M								
RPMA	0	0	0	0	0	0	0	0
BOS	0	0	0	0	0	0	0	0
Unique Operat	0	0	0	0	0	0	0	0
Caretaker	0	0	0	0	0	0	0	0
Civ Salary	0	0	0	0	0	0	0	0
CHAMPUS	0	0	0	0	0	0	0	0
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	0	0	0	0	0	0	0	0
Misc Recur	0	0	0	0	0	0	0	0
Unique Other	0	0	0	0	0	0	0	0
TOTAL RECUR	0	0	0	0	0	0	0	0
TOTAL NET COST	0	0	0	0	0	0	0	0

INPUT DATA REPORT (COBRA v5.0A*P)
Data As Of 07:25 09/13/1994, Report Created 13:53 10/03/1994

Department : ARMY
Option Package : ENLISTED PCS
Scenario File : C:\COBRA\ENLMOV.CBR
Std Fctrs File : C:\COBRA\DOD95.SFF

INPUT SCREEN ONE - GENERAL SCENARIO INFORMATION

Model Year One : FY 1996

Model does Time-Phasing of Construction/Shutdown: Yes

Base Name	Strategy:
NOTIONAL BASE #1, US	Realignment
BASE X, US	Realignment

Summary:

CALCULATION OF PCS EXPENSES FOR ENLISTED MOVING TO BASE X.

INPUT SCREEN TWO - DISTANCE TABLE

From Base:	To Base:	Distance:
NOTIONAL BASE #1, US	BASE X, US	1,000 mi

INPUT SCREEN THREE - MOVEMENT TABLE

Transfers from NOTIONAL BASE #1, US to BASE X, US

	1996	1997	1998	1999	2000	2001
Officer Positions:	0	0	0	0	0	0
Enlisted Positions:	1,000	0	0	0	0	0
Civilian Positions:	0	0	0	0	0	0
Student Positions:	0	0	0	0	0	0
Mission 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: NOTIONAL BASE #1, US

Total Officer Employees:	0	RPMA Non-Payroll ($K/Year):	0
Total Enlisted Employees:	1,000	Communications ($K/Year):	0
Total Student Employees:	0	BOS Non-Payroll ($K/Year):	0
Total Civilian Employees:	0	BOS Payroll ($K/Year):	0
Mil Families Living On Base:	0.0%	Family Housing ($K/Year):	0
Civilians Not Willing To Move:	0.0%	Area Cost Factor:	1.00
Officer Housing Units Avail:	0	CHAMPUS In-Pat ($/Visit):	0
Enlisted Housing Units Avail:	0	CHAMPUS Out-Pat ($/Visit):	0
Total Base Facilities(KSF):	0	CHAMPUS Shift to Medicare:	20.9%
Officer VHA ($/Month):	0	Activity Code:	
Enlisted VHA ($/Month):	0		
Per Diem Rate ($/Day):	0	Homeowner Assistance Program:	No
Freight Cost ($/Ton/Mile):	0.07	Unique Activity Information:	No

Department : ARMY
Option Package : ENLISTED PCS
Scenario File : C:\COBRA\ENLMOV.CBR
Std Pctrs File : C:\COBRA\DOD95.SFF

INPUT SCREEN FOUR - STATIC BASE INFORMATION

Name: BASE X, US

Total Officer Employees:	0	RPMA Non-Payroll ($K/Year):	0
Total Enlisted Employees:	0	Communications ($K/Year):	0
Total Student Employees:	0	BOS Non-Payroll ($K/Year):	0
Total Civilian Employees:	0	BOS Payroll ($K/Year):	0
Mil Families Living On Base:	0.0%	Family Housing ($K/Year):	0
Civilians Not Willing To Move:	0.0%	Area Cost Factor:	1.02
Officer Housing Units Avail:	0	CHAMPUS In-Pat ($/Visit):	0
Enlisted Housing Units Avail:	0	CHAMPUS Out-Pat ($/Visit):	0
Total Base Facilities(KSF):	0	CHAMPUS Shift to Medicare:	0.0%
Officer VHA ($/Month):	0	Activity Code:	
Enlisted VHA ($/Month):	0		
Per Diem Rate ($/Day):	73	Homeowner Assistance Program:	No
Freight Cost ($/Ton/Mile):	0.07	Unique Activity Information:	No

INPUT SCREEN FIVE - DYNAMIC BASE INFORMATION

Name: NOTIONAL BASE #1, US

	1996	1997	1998	1999	2000	2001
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 ($K):	0	0	0	0	0	0
Misc Recurring Cost($K):	0	0	0	0	0	0
Misc Recurring Save($K):	0	0	0	0	0	0
Land (+Buy/-Sales) ($K):	0	0	0	0	0	0
Construction Schedule(%):	0%	0%	0%	0%	0%	0%
Shutdown Schedule (%):	0%	0%	0%	0%	0%	0%
MilCon Cost Avoidnc($K):	0	0	0	0	0	0
Fam Housing Avoidnc($K):	0	0	0	0	0	0
Procurement Avoidnc($K):	0	0	0	0	0	0
CHAMPUS In-Patients/Yr:	0	0	0	0	0	0
CHAMPUS Out-Patients/Yr:	0	0	0	0	0	0
Facil ShutDown(KSF):	0	Perc Family Housing ShutDown:				0.0%

Name: BASE X, US

	1996	1997	1998	1999	2000	2001
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 ($K):	0	0	0	0	0	0
Misc Recurring Cost($K):	0	0	0	0	0	0
Misc Recurring Save($K):	0	0	0	0	0	0
Land (+Buy/-Sales) ($K):	0	0	0	0	0	0
Construction Schedule(%):	0%	0%	0%	0%	0%	0%
Shutdown Schedule (%):	0%	0%	0%	0%	0%	0%
MilCon Cost Avoidnc($K):	0	0	0	0	0	0
Fam Housing Avoidnc($K):	0	0	0	0	0	0
Procurement Avoidnc($K):	0	0	0	0	0	0
CHAMPUS In-Patients/Yr:	0	0	0	0	0	0
CHAMPUS Out-Patients/Yr:	0	0	0	0	0	0
Facil ShutDown(KSF):	0	Perc Family Housing ShutDown:				0.0%

Department : ARMY
Option Package : ENLISTED PCS
Scenario File : C:\COBRA\ENLMOV.CBR
Std Fctrs File : C:\COBRA\DOD95.SFF

STANDARD FACTORS SCREEN ONE - PERSONNEL

Percent Officers Married:	74.00%	Civ Early Retire Pay Factor:	9.00%
Percent Enlisted Married:	55.50%	Priority Placement Service:	60.00%
Enlisted Housing MilCon:	82.00%	PPS Actions Involving PCS:	50.00%
Officer Salary($/Year):	77,068.00	Civilian PCS Costs ($):	28,652.00
Off BAQ with Dependents($):	7,717.00	Civilian New Hire Cost($):	1,109.00
Enlisted Salary($/Year):	34,120.00	Nat Median Home Price($):	114,600.00
Enl BAQ with Dependents($):	5,223.00	Home Sale Reimburse Rate:	5.00%
Avg Unemploy Cost($/Week):	174.00	Max Home Sale Reimburs($):	22,385.00
Unemployment Eligibility(Weeks):	18	Home Purch Reimburse Rate:	5.00%
Civilian Salary($/Year):	45,998.00	Max Home Purch Reimburs($):	11,919.00
Civilian Turnover Rate:	15.00%	Civilian Homeowning Rate:	64.00%
Civilian Early Retire Rate:	10.00%	HAP Home Value Reimburse Rate:	22.90%
Civilian Regular Retire Rate:	5.00%	HAP Homeowner Receiving Rate:	5.00%
Civilian RIF Pay Factor:	34.00%	RSE Home Value Reimburse Rate:	18.00%
SF File Desc:	brac95.sff	RSE Homeowner Receiving Rate:	12.00%

STANDARD FACTORS SCREEN TWO - FACILITIES

RPMA Building SF Cost Index:	1.00	Rehab vs. New MilCon Cost:	59.00%
BOS Index (RPMA vs population):	1.00	Info Management Account:	15.00%
(Indices are used as exponents)		MilCon Design Rate:	10.00%
Program Management Factor:	10.00%	MilCon SIOH Rate:	6.00%
Caretaker Admin(SF/Care):	162.00	MilCon Contingency Plan Rate:	7.00%
Mothball Cost ($/SF):	1.25	MilCon Site Preparation Rate:	24.00%
Avg Bachelor Quarters(SF):	388.00	Discount Rate for NPV.RPT/ROI:	2.75%
Avg Family Quarters(SF):	1,819.00	Inflation Rate for NPV.RPT/ROI:	0.00%

APPDET.RPT Inflation Rates:
1996: 2.90% 1997: 3.00% 1998: 3.00% 1999: 3.00% 2000: 3.00% 2001: 3.00%

STANDARD FACTORS SCREEN THREE - TRANSPORTATION

Material/Assigned Person(Lb):	710	Equip Pack & Crate($/Ton):	284.00
HHG Per Off Family (Lb):	14,500.00	Mil Light Vehicle($/Mile):	0.10
HHG Per Enl Family (Lb):	9,000.00	Heavy/Spec Vehicle($/Mile):	0.10
HHG Per Mil Single (Lb):	6,400.00	POV Reimbursement($/Mile):	0.18
HHG Per Civilian (Lb):	18,000.00	Avg Mil Tour Length (Years):	1.00
Total HHG Cost ($/100Lb):	35.00	Routine PCS($/Pers/Tour):	0.00
Air Transport ($/Pass Mile):	0.20	One-Time Off PCS Cost($):	0.00
Misc Exp ($/Direct Employ):	700.00	One-Time Enl PCS Cost($):	0.00

STANDARD FACTORS SCREEN FOUR - MILITARY CONSTRUCTION

Category	UM	$/UM	Category	UM	$/UM
Horizontal	(SY)	38	APPLIED INSTR	(SF)	114
Waterfront	(LF)	0	LABS (RDT&E)	(SF)	175
Air Operations	(SF)	130	CHILD CARE CENTER	(SF)	120
Operational	(SF)	119	PRODUCTION FAC	(SF)	100
Administrative	(SF)	106	PHYSICAL FITNESS FAC	(SF)	128
School Buildings	(SF)	104	Optional Category F	( )	0
Maintenance Shops	(SF)	108	Optional Category G	( )	0
Bachelor Quarters	(EA)	46,227	Optional Category H	( )	0
Family Quarters	(EA)	88,689	Optional Category I	( )	0
Covered Storage	(SF)	60	Optional Category J	( )	0
Dining Facilities	(SF)	180	Optional Category K	( )	0
Recreation Facilities	(SF)	0	Optional Category L	( )	0
Communications Facil	(SF)	0	Optional Category M	( )	0
Shipyard Maintenance	(SF)	0	Optional Category N	( )	0
RDT & E Facilities	(SF)	139	Optional Category O	( )	0
POL Storage	(BL)	0	Optional Category P	( )	0
Ammunition Storage	(SF)	0	Optional Category Q	( )	0
Medical Facilities	(SF)	0	Optional Category R	( )	0
Environmental	( )	0			

STANDARD FACTOR #61
ONE-TIME PCS COST ENLISTED
Change 1 - 26 Sep 1994

1. DESCRIPTION: The average one-time costs of enlisted PCSs, per person. This is used in conjunction with the number of officer positions eliminated to estimate costs of moving enlisted to their "final" locations. (Allowed entries 0.00 to 100,000.00 $/person)

2. VALIDATED VALUE: $4,174

3. DATA SOURCE: BRAC 95 COBRA run.

   a. DATE LAST UPDATED: 26 Sep 1994.

   b. DATE OF NEXT UPDATE: NA

4. METHODOLOGY: See attached Documentation.

5. VALIDATION PROCEDURE: None taken.

I certify that the information supplied is accurate and complete to the best of my knowledge and belief.

Charles V. Fletcher
CHARLES V. FLETCHER
MAJ, IN
OPERATIONS ANALYST

COBRA REALIGNMENT SUMMARY (COBRA V5.00)

Data As Of 07:25 09/13/1994, Report Created 08:30 09/26/1994

Department : ARMY
Option Package : ENLISTED PCS
Scenario File : C:\COBRA\ENLMOV.CBR
Std Pctrs File : C:\COBRA\BRAC95.SFF

Starting Year : 1996
Final Year : 1996
ROI Year : 100+ Years

NPV in 2015($K): 4,118
1-Time Cost($K): 4,174

Net Costs ($K) Constant Dollars

	1996	1997	1998	1999	2000	2001	Total	Beyond
MilCon	0	0	0	0	0	0	0	0
Person	0	0	0	0	0	0	0	0
Overhd	0	0	0	0	0	0	0	0
Moving	4,174	0	0	0	0	0	4,174	0
Missio	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0
TOTAL	4,174	0	0	0	0	0	4,174	0

	1996	1997	1998	1999	2000	2001	TOTAL
POSITIONS ELIMINATED							
Officers	0	0	0	0	0	0	0
Enlisted	0	0	0	0	0	0	0
Civilian	0	0	0	0	0	0	0
TOTAL	0	0	0	0	0	0	0
POSITIONS REALIGNED							
Officers	0	0	0	0	0	0	0
Enlisted	1,000	0	0	0	0	0	1,000
Students	0	0	0	0	0	0	0
Civilian	0	0	0	0	0	0	0
TOTAL	1,000	0	0	0	0	0	1,000

$4,174 PER ENL PCS

COBRA FILE = ENLMOV.CBR

MOVEMENT DISTANCE = 1,000 MILES

Summary:

CALCULATION OF PCS EXPENSES FOR ENLISTED MOVING TO BASE X.

Data As Of 07:25 09/13/1994, Report Created 08:30 09/26/1994

Department : ARMY
Option Package : ENLISTED PCS
Scenario File : C:\COBRA\ENLMOV.CBR
Std Fctrs File : C:\COBRA\BRAC95.SFF

Costs ($K) Constant Dollars

	1996	1997	1998	1999	2000	2001	Total	Beyond
MilCon	0	0	0	0	0	0	0	0
Person	0	0	0	0	0	0	0	0
Overhd	0	0	0	0	0	0	0	0
Moving	4,174	0	0	0	0	0	4,174	0
Missio	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0
TOTAL	4,174	0	0	0	0	0	4,174	0

Savings ($K) Constant Dollars

	1996	1997	1998	1999	2000	2001	Total	Beyond
MilCon	0	0	0	0	0	0	0	0
Person	0	0	0	0	0	0	0	0
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	0	0	0	0	0	0

STANDARD FACTOR #61
ONE-TIME PCS COST ENLISTED

1. DESCRIPTION: The average one-time costs of enlisted PCSs, per person. This is used in conjunction with the number of officer positions eliminated to estimate costs of moving enlisted to their "final" locations. (Allowed entries 0.00 to 100,000.00 $/person)

2. VALIDATED VALUE: 0.0

3. DATA SOURCE: NONE

   a. DATE LAST UPDATED: NA

   b. DATE OF NEXT UPDATE: NA

4. METHODOLOGY: See attached Documentation, OSD Policy Memo Number Two; Force Structure Savings. This factor is used to cost the one-time moving cost associated with the final PCS move of an enlisted soldier who is eliminated by a BRAC recommendation. As a matter of Army policy, no enlisted soldiers are eliminated as a direct result of BRAC actions.

5. VALIDATION PROCEDURE: None taken.

I certify that the information supplied is accurate and complete to the best of my knowledge and belief.

CHARLES V. FLETCHER
MAJ, IN
OPERATIONS ANALYST

STANDARD FACTORS
CONSTRUCTION FACTORS

1. Description.

The average cost per unit of measure ($/UM) for new construction of each of the military construction categories listed. (Allowed entries 0.00 to 99,999.99 $/UM)

2. Validated Value. See Below.

3. Data Sources.

July 1994 2 HQRPLANS Cost Factor and Escalation tables. R&K Engineering uses most recent Corps of Engineers publications, based upon DOD guidance, for unit cost and inflation factors.

a. Date last updated: July 1994

b. Date of next update: December 1994

4. Methodology.

FCG Construction Cost factors from the July 1994 HQRPLANS database are listed in the column labeled FY94 FACTOR. The escalation factor for FY1996 is 1.0588. The product of the FCG Construction Cost factor with the escalation factor is the result in the column labeled FY 96 FACTOR. The average of the FY96 FACTOR for the listed FCGs is the standard factor used in COBRA, labeled COBRA FACTOR.

MCA unit cost factors for FCGs with a UM of SF include $10/SF to account for the costs of demolition generally required before a new building may be constructed. Costs reflected are FY 94 dollars, then inflated to FY 96. Specific factors shown in the following table:

##	Construction Factor FCG	Description	UM	FY94 FACTOR	FY96 FACTOR	COBRA FACTOR
50.	Horizontal					
	45200	VEH HARDSTAND	SY	36.02	38.14	38.14
51.	Waterfront		SY	(not used)		
52.	Air Ops					130.28
	21110	MT HNGR AVUM	SF	106.21	112.46	
	21111	MT HNGR AVIM	SF	139.87	148.09	

##	Construction Factor FCG	Description	UM	FY94 FACTOR	FY96 FACTOR	COBRA FACTOR
53.	Operations					119.15
	14182	BDE HQ BLDG	SF	112.53	119.15	
	14183	BN HQ BLDG	SF	112.53	119.15	
	14185	CO HQ BLDG	SF	112.53	119.15	
54.	Administrative					
	61050	GEN PURP ADMIN	SF	99.91	105.78	105.78
55.	School Buildings					
55a	17120	GEN INST BLDGS	SF	97.80	103.55	103.55
55b	17130	APPL INST BLDG	SF	107.27	113.58	113.58
56.	Maintenance Shops					107.64
	21410	VEH MNT SH ORG	SF	108.32	114.69	
	21420	VEH MNT SH DS	SF	102.01	108.01	
	21800	SPEC PURP MT	SF	94.65	100.22	
57.	UEPH					
	7210S	ENL UPH (PLNG)	PN	43660*	46227*	46227*
	* Source:	SEP 94 HQRPLANS				
58.	Family Housing					
	71100	FAMILY HOUSING	SF	83764	88689	88689
59.	Covered Storage					60.13
	44200	GEN P WH-INST	SF	57.84	61.24	
	44230	CONT HUM WH	SF	59.95	63.47	
	44100	GEN P WH-DEP	SF	67.31	71.27	
	44260	VEH STOR SHED	SF	42.07	44.54	
60.	Recreation					
	74028	Phys Fit Ctr	SF	120.94	128.05	128.05

The follwing items are not in Standard Factors datacall but should be added:

74014	Child Spt Ctr	SF	113.58	120.26	120.26
72200	Dinning Fac	SF	170.37	180.39	180.39
31010	RDTE Labs	SF	165.11	174.82	174.82
31X10	RDTE non-lab	SF	131.46	139.19	139.19
22X10	Production Fac	SF	94.65	100.22	100.22

5. Validation Procedures.

MCA unit cost factors are based upon the most recent USACE publication on Area and Unit Cost Factors. Inflation factor was extracted from HQRPLANS Escalation Factor table.

General Analytics Corporation

MEMORANDUM

TO: MEMORANDUM FOR RECORD

FROM: Chip Larouche

DATE: August 25, 1994

SUBJECT: UEPH SOURCE FOR COBRA STANDARD FACTOR

On 1 August 1994, I contacted Bob Martin, R&K Engineering, Roanoke, Virginia to determine what the September 1994 HQRPLANS construction factor would be that corresponded to the new 1 + 1 criteria for EUPH. After checking his database, he informed me that the new factor will be $43660.

The September 1994 HQRPLANS is scheduled to be "on-line" during the first week of September 1994. When available, I will download the construction factors report and provide it to TABS & AAA.

Chip Larouche

CF

AAA
TABS

STATEMENT OF CERTIFICATION:

I am the proponent for the data element specified in the information above and certify that the information supplied is accurate and complete to the best of my knowledge and belief.

DAVID A. YENTZER
Chief,
Installation Planning Division

DEPARTMENT OF THE ARMY
ASSISTANT CHIEF OF STAFF FOR INSTALLATION MANAGEMENT
600 ARMY PENTAGON
WASHINGTON DC 20310-0600

REPLY TO
ATTENTION OF

DAIM-FDP-A

7 Dec 94

MEMORANDUM FOR DIRECTOR, THE ARMY BASING STUDY

SUBJECT: Standard Factors for the Cost of Base Realignment Actions (COBRA) Model

1. References

a. DACS-TABS Memorandum dated 7 July 1994, SAB.

b. DAIM-FDP-A Memorandum dated 3 August 1994, SAB.

2. The unit cost factor for new construction of Family Housing used in the September version of the Headquarters, Real Property Planning and Analysis System (HQRPLANS) has increased by 8.29% over the previous HQRPLANS factor that was provided to your office in August for use in COBRA. All other construction cost factors previously provided for use in COBRA have not changed significantly. Recommend that the following factor be used by COBRA in order to provide Family Housing construction costs that include the most up to date factors available:

FCG	Description	UM	FY94 Factor	FY96 Factor	COBRA Factor
7110F	FAMILY HOUSING	FA	90707	96040	96040

3. POC is MS. Maureen Wylie, x44313.

FOR THE ASSISTANT CHIEF OF STAFF FOR INSTALLATION MANAGEMENT

DAVID A. YENTZER
Chief,
Installation Planning Division

Document Separator

DEPARTMENT OF THE ARMY
U.S. ARMY AUDIT AGENCY
NORTHEASTERN REGION
1027 ARCH STREET
PHILADELPHIA, PENNSYLVANIA 19107-2317

SAAG-NER (36-5e) 15 June 1994

MEMORANDUM FOR Commander, Savanna Army Depot Activity,
Savanna, Illinois 61074-9636

SUBJECT: Review of the Army Basing Study - Phase I - Installation Assessment, Savanna Army Depot Activity--INFORMATION MEMORANDUM NR 94-707

1. **Introduction.** This is the report on our review of installation assessment your command did for the 1995 Army Basing Study. The Director of Management requested the review. We will include data in this report in a summary report to higher levels of management.

2. **Objectives and Scope.** The overall objective of our review was to evaluate the accuracy of data used for assessing installation values. Specific objectives were to evaluate the:

- Accuracy of reported data.
- Appropriateness of data sources and methods used to obtain data values.
- Completeness of records maintained.

We made the review during May and June 1994. In most material respects, we made the review in accordance with generally accepted government auditing standards. And, accordingly, we tested internal controls to the extent we considered necessary under the circumstances. We didn't follow certain aspects of the field work and reporting standards. In our opinion, however, not following those standards had no material effect on the results of our review.

Our review consisted of:

- Comparing the DA guidance for the appropriate determining the value of installation assessment attributes with the guidance and method that Savanna Army Depot Activity used.
- Reviewing the source data and documentation supporting the values the depot reported.
- Verifying the mathematics used to determine the reported values.

SAAG-NER
SUBJECT: Review of the Army Basing Study - Phase I - Installation Assessment, Savanna Army Depot Activity--INFORMATION MEMORANDUM NR 94-707

We also made limited tests of the accuracy of the data values reported. This included:

- Reviewing installation real property records and visiting some facilities to evaluate the reasonableness of the records.
- Reviewing installation maps.
- Confirming by telephone the data provided by individuals not located at the depot.
- Discussing the data provided by individuals at the depot.
- Reviewing accounting records for prior years' actual costs.
- Reviewing regulatory guidance.

3. Background

a. Base Closure. The Defense Base Closure and Realignment Act of 1990 provides a fair process that will result in the timely closure and realignment of military installations. The Army established the Basing Study Office to manage the study process. The office divided the study process into two phases. Under phase I the Army assesses the relative military value of its installations. Under phase II the Army identifies and evaluates alternatives for realignment and closure. This memorandum addresses only our review of your command's participation in the installation assessment process.

b. Attributes. The depot reported data values for 20 attributes. DA identified 17 of the attributes as applying to ammunition storage installations. The U.S. Army Industrial Operations Command (Provisional) directed the depot to provide data values for three additional attributes. We reviewed the basis for the values for all 20 attributes. The annex identifies the attributes the depot reported.

4. Review Results

a. Accuracy of Reported Data. The depot didn't report accurate values for 8 of 20 attributes. For four attributes, the reported value was inaccurate by more than

SAAG-NER
SUBJECT: Review of the Army Basing Study - Phase I - Installation Assessment, Savanna Army Depot Activity--INFORMATION MEMORANDUM NR 94-707

10 percent. Here are the attributes with inaccuracies of more than 10 percent:

- **Available Workforce.** The depot reported an available workforce of 25,090. It should have reported 29,857. The depot didn't use the correct census information.

- **Buildable Acres.** The depot reported 1,992 buildable acres. It should have reported 494 buildable acres. The depot included 1,498 acres in safety fan areas adjacent to ammunition bunkers. DA guidance for calculating buildable acres specifically excludes safety fan areas. The depot included the safety fan areas because DOD 6055.9-STD (DOD Ammunition and Explosive Safety Standards) allows storage of some materiel in these areas (for example, the inert components of ammunition). The depot reasoned that because the areas can be used to store some materiel, they should be included in the depot's buildable acre inventory.

- **Excess Capacity-Storage.** The depot reported 153,000 square feet of excess storage capacity, based on the Headquarters Real Property Planning and Analysis System (the source specified in the DA installation assessment guidance). Our inspection of the buildings in the depot's calculation showed they contained only 107,000 square feet of available space.

- **Family Housing Cost A Unit.** The depot reported a cost of $5,450 a unit. It should have reported a cost of $9,027. The depot considered only maintenance cost in calculating its value, when it should have included costs for administration, furnishings, services and utilities. When it did the calculations, the depot didn't have the DA-revised guidance to include these additional costs.

For the remaining four attributes, the inaccuracies were less significant. Here are the four attributes with minor inaccuracies:

- **Ammunition Storage.** The depot reported 2,427,000 square feet of ammunition storage space, based on the Real Property Planning System. It should have

reported 2,426,000 square feet of space. The depot's real property records show that the source system included about 1,000 square feet more than it should have.

- **Average Age of Facilities.** The depot reported that the average age of its facilities was 52.5 years. (Again, the number was from the Real Property Planning System.) The depot should have reported either 52 years (if only buildings are included) or 49.5 years (if facilities such as roads and outside storage areas are included). These are the correct numbers based on the depot's real property records.

- **Deployment Network.** The depot reported that the nearest port was 956 miles distant and that the nearest airfield was 76 miles. It should have reported 926 miles for the port and 63 miles for the airfield. The U.S. Government Mileage Guide indicates that the nearest port (Bayonne, New Jersey) is 926 miles away. The nearest airfield with the needed capability is in Moline, Illinois--63 miles away--not in Rockford, Illinois.

- **Encroachment.** The depot reported a population of 36.2 a square mile. It should have reported 35.6. The depot used incorrect census information.

The annex shows the data values that the depot reported and we verified for all 20 attributes.

b. **Data Sources and Methods.** The depot followed the DA installation assessment guidance for determining data values, except for:

- Including safety fan areas in buildable acres.

- Not including all cost factors in the value for family housing cost a unit.

- Using a factor based on the Variable Housing Allowance that service members receive at the depot. The Industrial Operations Command (Provisional) told the depot to use this factor instead of the Cost of Living Index because the depot wasn't included in the index's calculation.

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SUBJECT: Review of the Army Basing Study - Phase I - Installation Assessment, Savanna Army Depot Activity--INFORMATION MEMORANDUM NR 94-707

c. **Completeness of Records Maintained.** Depot personnel had adequate documentation to support their reported data values. The information was cross-referenced and maintained by the Chief, Installation Support Division.

5. **Discussion of Results.** We discussed the results of our review with Major Richard Thibodeau, Commander and Mr. Arlen Dahlman, Chief, Installation Support Division. They agreed with our conclusions and said the inaccurate data values would be corrected and retransmitted to the Industrial Operations Command (Provisional). This report isn't subject to the official command-reply process.

6. Thank you for the courtesies and cooperation extended to us during the review.

Encl

Robert S. Rall
for HENRY P. CULLERTON
Regional Auditor General

CF:
Commander, U.S. Army Materiel Command
Basing Study Office
Commander, Industrial Operations Command (Provisional)

ANNEX

DATA ATTRIBUTES REVIEWED

Data Attributes	Unit of Measure	Reported by Sevenmile Basin	Verified by Army Audit Agency
Ammunition Storage	Square Feet	2,427,000	2,426,000 1/
Available Workforce	Population	25,090	29,857 2/
Average Age of Facilities	Years	52.5	52/49.5 3/
Base Operations and Mission Population	Dollars		
BASOPS Account		86,058,745	86,058,745
RPMA Account		4,275,341	4,275,341
Environmental		1,012,321	1,012,321
Audiovisual		143,700	143,700
Base Communications		289,100	289,100
Family Programs		96,479	96,479
Buildable Acres	Acres	1,992	494 4/
Cost of Living	Index	89.02	89.02 5/
Deployment Network	Miles		
Railhead		.1	.1
Port		956	926 6/
Airfield		76	63 7/
Highway		52	52
Encroachment	Population a Square Mile	36.2	35.6 2/
Environmental Capacity			
Historic Sites	Number	52	52
Endangered Species	Number	1	1
Wetlands	Percent of Total Acres	6,174	6,174
Total Installation	Acres	13,062	13,062
Air Quality	1 = Attainment	1	1
Water Quality	Violations	0	0
Noise Quality	Acres	0	0
Contaminated Sites	Number	74	74
Excess Capacity			
Storage	Square Feet	153,000	107,000 8/
Information Mission Area	Points	885	885
Infrastructure			
Sewage Treatment	Gallons/Day (Millions)	.36	.36
Water Supply	Gallons/Day (Millions)	7.60	7.60
Electrical	KVA/Day (Millions)	5.50	5.50
Solid Waste Landfill	Dollars/Day (Tons)	846.20	846.20
Maintenance Flexibility			
Commodities Reparable	Number	2	2
MCA Cost Factor	Index	1.08	1.08
Permanent Facilities	Percent	96	96
Quantity-Distance	Waivers	0	0
Reserve Training			
Annual	Personnel	95	95
Inactive Duty	Workdays	7,061	7,061

ANNEX

Data Attribute	Unit of Measure	Reported by Savanna Depot	Verified by Army Audit Agency
Other Elements			
Off-Post Adequate Family Units	Number	0	0
On-Post Family Dwelling Units	Number	31	31
Family Housing Cost A Unit	Dollars a Unit	$5,430	$9,027 9/
Locality Pay Factor	Percent	1.03	1.03

NOTES:

1/ Information from the Headquarters Real Property Planning and Analysis System shows 1,286 square feet more for category 42200 than Savanna Depot's real property records show.

2/ The depot didn't use the correct 1990 census information.

3/ Information from the Real Property Planning System shows a higher average age of facilities than the depot's real property records show. Using only buildings, the real property records show an average age of 52. If all facilities at the depot are included (including facilities such as roads and outside storage areas as well as buildings), the real property records show an average age of 49.5

4/ Of the 1,992 acres reported, 1,498 were in safety fan areas. DA guidance excludes safety fan areas from the calculation of buildable acres.

5/ A cost of living index factor wasn't available for the depot area. The depot used DA's Variable Housing Allowance Factor instead.

6/ The U.S. Government Mileage Guide shows the mileage to Bayonne, New Jersey as 926.

7/ The depot used the 76 miles to the Rockford, Illinois airport when the Moline, Illinois airport is closer and has the needed capability. Mileage to the Moline airport is 63.

8/ Our inspection of the general storage buildings showed less storage space available.

9/ The depot included only maintenance costs. It should also have included costs for administration, furnishings, services and utilities.

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NODA PROVIDED ATTRIBUTES

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A	B	C	D	E	F	G	H	I
	VHA	COL INDEX	LOCALITY PAY	MCA COST	ENCROACHMENT	WORKFORCE	AIRSPACE	BASE [illegible]
ADMIN SUPPORT/C&C								
KELLY SUPPORT CENTER	296.09	111.2	1.0309	1.28	704.035			$16,4[illegible]
PRICE SUPPORT CENTER	275.75	96.7	1.0309	1.14	474.091			$24,[illegible]
FORT BELVOIR	1359.56	135.1	1.0423	1.03	1098.547			$6,4[illegible]
FORT BUCHANAN	1408(3)	123.9(1)	1.08	1.05	1029.500			$9,[illegible]
FORT GILLEM	470	98.4	1.0386	0.97	615.223			$4,[illegible]
FORT HAMILTON	1496.06	208.7	1.08	1.36	7474.894			$20,249.[illegible]
FORT McPHERSON	470	98.4	1.0386	0.96	615.223			$9,394.[illegible]
FORT MEADE	1033.72	115.65(1)	1.0423	1.03	931.084			$2,165.[illegible]
FORT MONROE	528.43	100.6	1.0328	0.86	885.782			$9,023.[illegible]
FORT MYER	1359.56	135.1	1.0423	1.03	1098.547			$6,3[illegible]
FORT RITCHIE	223.95	100.8	1) 1.0309	0.92	270.265			$12,[illegible]
FORT SHAFTER	1974.36	136.86(1)	1.08	1.66	1439.701			$10,[illegible]
FORT TOTTEN	1496.06	208.7	1.08	1.36	7474.894			$2,[illegible]
PRESIDIO OF SF	1780.89	132.5(1)	1.08	1.37	1596.258			$8,[illegible]
SELFRIDGE SUPPORT CENTER	714.97	116.6	1.0404	1.14	962.184			$4,[illegible]
AMMO PRODUCTION	VHA	COL INDEX	LOCALITY PAY	MCA COST	ENCROACHMENT	WORK FORCE	AIRSPACE	BASES [illegible]
HOLSTON ARMY AMMO PLANT		98.6		0.88	154.945	215156		$[illegible]
IOWA ARMY AMMO PLANT		104.2		0.95	103.450	21947		$[illegible]
LAKE CITY ARMY AMMO PLANT		96.7		1.03	326.217	843211		$1,521.[illegible]
LONE STAR ARMY AMMO PLANT		93.6		0.94	80.306	53860		$2,[illegible]
McALESTER ARMY AMMO PLANT		91.6		0.85	31.992	16177		$71,[illegible]
MILAN ARMY AMMO PLANT		90.0(2)		0.88	130.013	37346		$12,185.[illegible]
PINE BLUFF ARSENAL		100.6(1)		0.78	96.364	32274		$25,153.[illegible]
RADFORD ARMY AMMO PLANT		93.80		0.95	1661.497	6317		$256.[illegible]
								$0.[illegible]
AMMUNITION STORAGE:	VHA	COL INDEX	LOCALITY PAY	MCA COST	ENCROACHMENT	WORK FORCE	AIRSPACE	BASES [illegible]
BLUE GRASS ARMY DEPOT		100.3		0.96	284.897	217489		$12,[illegible]
CAMP STANLEY		94		0.84	139.273	50943		$42,[illegible]
HAWTHORNE ARMY AMMO PLANT		106.78(1)		1.26	2.646	3720		$5,[illegible]
PUEBLO DEPOT		84.6		0.92	52.535	50040		$40,[illegible]
SAVANNA DEPOT		92.54(1)		1.08	444.167	99433		$17,[illegible]
SENECA DEPOT		103.44(1)		1.19	288.273	34470		$11,[illegible]
SIERRA DEPOT		96.79(1)		1.43	6.249	9934		$26,[illegible]
TOOELE DEPOT		93.44(1)		1	3.946	10366		$13,[illegible]
UMATILLA DEPOT		103.18(1)		1.25	18.812	28204		$37,[illegible]

* [illegible]

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A	A	B	C	D	E	F	G	H	I
41	COMMODITY INSTALLATIONS:	VHA	COL INDEX	LOCALITY PAY	MCA COST	ENCROACHMENT	WORK FORCE	AIRSPACE	BASOPS FA
42	ARMY RESEARCH LABORATORY		135.1		1.03	1098.547	2336910		$25,0[illegible]
43	COLD REGION RESEARCH LAB		113.82(1)		1.06	44.002	45489		$28,4[illegible]
44	DETROIT ARSENAL		116.6		1.22	962.184	1984891		$10,344
45	FORT DETRICK		135.1		0.83	1098.547	2336910		[illegible]
46	FORT MONMOUTH		120.12(1)		1.19	913.011	448560		$9,6[illegible]
47	NATICK LAB		135.3		1.27	2321.114	2941864		$28,2[illegible]
48	PICATINNY ARSENAL		119.3(1)		1.29	1563.507	906011		$9,[illegible]
49	REDSTONE ARSENAL		98.5		0.78	381.453	160283		$6,[illegible]
[illegible]	ROCK ISLAND ARSENAL		98.3		1.11	207.284	178598		$3,[illegible]
51									
52	DEPOTS:	VHA	COL INDEX	LOCALITY PAY	MCA COST	ENCROACHMENT	WORK FORCE	AIRSPACE	
53	ANNISTON DEPOT				0.77	190.044	48245		
54	LETTERKENNY DEPOT				1.02	759.874	274249		
55	RED RIVER DEPOT				0.94	80.306	53860		
56	TOBYHANNA DEPOT				1.2	658.631	184395		
57									
58	MEDICAL CENTERS:	VHA	COL INDEX	LOCALITY PAY	MCA COST	ENCROACHMENT	WORK FORCE	AIRSPACE	
59	FITSIMONS AMC		105.9		1.08	455.912			
60	TRIPLER AMC	1974.36	136.86(1)		1.66	1439.701			
61	WALTER REED AMC		135.1		1.03	1098.547			
62									
63	INDUSTRIAL FACILITIES:	VHA	COL INDEX	LOCALITY PAY	MCA COST	ENCROACHMENT	WORK FORCE	AIRSPACE	BASOPS FA
64	LIMA TANK PLANT		92.54(1)		0.91	193.425	73319		
65	STRATFORD ENG PLNT		126.31(1)		1.24	1319.147	810509		
66	WATERVLIET ARSENAL		100.7		1.1	269.323	415343		
67									
68	MAJOR TRAINING AREAS:	VHA	COL INDEX	LOCALITY PAY	MCA COST	ENCROACHMENT	WORK FORCE	AIRSPACE	BASOPS FA
69	FORT A.P. HILL		102.5(1)		0.8	89.519		68.4	$24,533
70	FORT CHAFFEE		91.2		0.92	100.701		459.35	$2[illegible]
71	FORT DIX		111.27(1)		1.19	1413.213		4[illegible]2	$9,[illegible]
72	FORT GREELY		120.46(1)		2.17	0.219		8608.[illegible]2	$11,4[illegible]
73	FORT HUNTER- LIGGETT		117.83(1)		1.44	110.424		707.[illegible]1	$10,[illegible]
74	FORT INDIANTOWN GAP		101.47(1)		1.05	301.758		11[illegible].1	$26,7[illegible]
75	FORT IRWIN		99.88(1)		1.3	104.712		15169.[illegible]6	$9,[illegible]
76	FORT McCOY		92.46(1)		1.33	42.188		173.67	$25,4[illegible]
77	FORT PICKETT		107.8		0.92	2.913		103[illegible].4	$32,[illegible]
78	FORT POLK		92.42(1)		0.96	49.328		13628.[illegible]6	$7,[illegible]

[illegible]

[illegible]

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	A	B	C	D	E	F	G	H	I
	MANEUVER INSTALLATIONS:	VHA	COL INDEX	LOCALITY PAY	MCA COST	ENCROACHMENT	WORK FORCE	AIRSPACE	BASE [illegible]
1	FORT BRAGG	257.63	97.4	1.0309	0.8	427.694		1040 [illegible]	$3,[illegible]
2	FORT CAMPBELL	45.21	90.4	1.0309	0.99	137.466		2761 [illegible]	$4,1[illegible]
3	FORT CARSON	208.47	99.6	1.0309	1.12	197.608		2153 [illegible]	$4,4[illegible]
4	FORT DRUM	250.22	97.98(1)	1.0309	1.19	377.416		652 [illegible]	$8,3[illegible]
5	FORT HOOD	132.8	93.5	1.0309	0.9	119.256		3198 [illegible]	$6,735 [illegible]
6	FORT LEWIS	448.6	103.4	1.0392	1.08	370.786		5243 [illegible]	$7,0[illegible]
7	FORT RICHARDSON (1)	164.63	129.2	1.08	1.73	140.410		80.74	$14,133 [illegible]
8	FORT RILEY	106.6	92.1	1.0309	0.98	105.376		351 [illegible]	$5,1[illegible]
9	FORT STEWART	150.5	95.73(1)	1.0309	0.81	120.587		2862 [illegible]	$4,[illegible]
10	FORT WAINWRIGHT	1301.36	126.6	1.08	1.97	2.590		510 [illegible]	$10,[illegible]
11	SCHOFIELD BARRACKS	1974.36	136.86(1)	1.08	1.73	1439.701		89[illegible]	$6,[illegible]
12									
13	PORTS	VHA	COL INDEX	LOCALITY PAY	MCA COST	ENCROACHMENT	WORK FORCE	AIRSPACE	BASE [illegible]
14	BAYONNE		119.26(1)		1.21	11788.380			$7,4[illegible]
15	OAKLAND ARMY BASE		122.58(1)		1.37	1461.864			
16	SUNNY POINT		100.21(1)		0.82	912.213			$12,[illegible]
17									
18	PROFESSIONAL EDUCATION:	VHA	COL INDEX	LOCALITY PAY	MCA COST	ENCROACHMENT	WORK FORCE	AIRSPACE	BASE [illegible]
19	CARLISLE BARRACKS	405.2	104.9	1.0309	0.98	301.758			$11,01[illegible]
100	FORT LEAVENWORTH	345.78	98.9	1.033	1.06	326.217			$7,833 [illegible]
101	FORT LESLEY J. McNAIR	1359.36	135.1	1.0423	1.03	1098.547			$3,6[illegible]
102	WEST POINT	1207.84	119.58(1)	1.08	1.23	256.818			$5,[illegible]
103									
104	PROVING GROUNDS:	VHA	COL INDEX	LOCALITY PAY	MCA COST	ENCROACHMENT	WORK FORCE	AIRSPACE	BASE [illegible]
105	ABERDEEN PROVING GROUNDS		108.9		0.92	931.084	93878		$13,[illegible]
106	DUGWAY PROVING GROUNDS		90		0.97	3.946	10366		$25,844 [illegible]
107	WHITE SANDS MISSLE RANGE		100.5		1.06	38.299	56706		$13,918 [illegible]
108	YUMA PROVING GROUNDS		98.8		1.11	20.832	57261		$16,[illegible]

(1) 1,164.63

* Not verified

[illegible]

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[illegible] PROVIDED ATTRIBUTES

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	A	B	C	D	E	F	G	H	
109									
110	TRAINING SCHOOLS:	VHA	COL INDEX	LOCALITY PAY	OCA COST	ENCROACHMENT	WORK FORCE	AIRSPACE	BASE [illegible]
111	FORT BENNING	205.9	96.9		0.76	239.292		1198.9	$5,159
112	FORT BLISS	151.11	103		0.96	620.087		16534.6	$6,785
113	FORT EUSTIS	528.43	100.6		0.86	885.782		0	$8,36[illegible]
114*	FORT GORDON	229.69	100.3	1.0328	0.83	221.180		150.45	$5,554
115	FORT HUACHUCA	211.68	97.11(1)		1.12	16.171		5574.4	$5,999
116	FORT JACKSON	229.73	95.2		0.73	321.951		258.48	$4,127
117	FORT KNOX	0	90.00(2)		0.98	264.279		614.[illegible]8	$6,914
118	FORT LEE	226.83	107.8		0.83	304.291		0	$5,113
119	FORT LEONARD WOOD	0	90.00(2)		1.1	282.988		140.[illegible]5	$4,797
120	FORT McCLELLAN	0	90.00(2)		0.76	190.044		176.[illegible]4	$5,823
121	FORT RUCKER	0	88.8		0.78	116.981		8271.49	$6,468
122	FORT SAM HOUSTON	266.59	94		0.87	546.968		0	$5,3[illegible]
123	FORT SILL	0	97.2		0.88	105.147		12[illegible]0	$6,15[illegible]
124*	PRESIDIO OF MONTEREY	1130.27	117.83(1)	1.08	1.2	110.424		0	$7,8[illegible]
125									

126 NOTE (1) USED THE GENERAL REGRESSION EQUASION AS DOCUMENTED : COL INDEX = 92.336044214+(VHA FACTOR*0.[illegible]22553)

127 NOTE (2) FOR INSTALLATIONS WITH A VHA FACTOR OF $0.00, THE REGRESSION VALUE WAS NOT USED.

128 NOTE (2) CONT- A COL VALUE OF 90.00 WAS GIVEN TO ALL INSTALLATIONS WITH A VHA FACTOR = $0.

129 NOTE (3) VHA FACTOR FOR FT BUCHANNAN - VHA IS NOT PAID TO FT BUCHANNAN, COLA IS, BUT COLA IS NOT COMPARABLE

130 NOTE (3) CONT- USED THE PER DIEM TABLES TO ESTIMATE A VHA VALUE FOR FT BUCHANNAN, BASED ON THE LODGING RATES

131 NOTE (3) CONT- USED A WEIGHTED AVG TO FIND THE AVG LODGING PER DIEM ($101) AT BUCHANNAN, THEN COMPARED

132 NOTE (3) CONT- TO OTHER LODGING RATES IN THE PER DIEM TABLE NEAR $100.

* Not verified

AMMO PRODUCTION SECOND RUN W/ CORRECTIONS

	WEIGHT		McAlester AAP	Lone Star AAP	Iowa AAP	Milan AAP	Lake City AAP	Radford AAP	Pine Bluff Ars	Holston AAP
RESERVE TRAINING	30		7.2	0.0	7.4	0.0	3.0	0.8	7.5	7.6
DEPLOYMENT NETWORK	50		7.3	5.1	3.9	6.5	3.9	9.1	5.9	8.8
WORK FORCE AVAILABLE	30		16,177	53,860	21,947	37,346	843,211	6,317	32,247	215,516
PRODUCTION FLEX	80		10 ✓	1 ✓	1 ✓	12 ✓ Ø1	1 ✓	1 ✓	1 ✓ 2Ø2	1 ✓
AMMUNITION STORAGE	130		6,992 ✓	7,230 ✓ 723K	919 ✓ 919K	1,884 1884K ✓	1,020 ✓ 102K	483 483K ✓	1,276 ✓	220 ✓ 220K
PRODUCTION CAPACITY	130		2,003,731 ✓	4,314,475	1,874,577 ✓	2,400,000 ✓	3,835,625 ✓	3,300,000 ✓	1,635,510 ✓	2,661,924 ✓
MISSION REQUIREMENTS	---	450	7.5	6.6	2.9	3.4	4.6	3.8	3.2	4.0
AGE OF FACILITIES	50		51 ✓	52 ✓	51 ✓	51 ✓	52 ✓	47 ✓	41 ✓	53 ✓
INFRASTRUCTURE	35		5.7	2.9	2.2 ✓	3.1	1.4	7.7	2.2	2.2
% PERMANENT FACILITY	45		99% ✓	95% ✓	98% ✓	94% ✓	88% ✓	64% ✓	97% ✓	65% ✓
QUANTITY-DISTANCE	70		0 ✓	0 ✓	0 ✓	0 ✓	0 ✓	0 ✓	0 ✓	0 ✓
ENVIRONMENTAL CAP	25		7.9	8.4	9.1	9.2	6.4	7.1	7.7	7.5
LAND AND FACILITIES	---	225	7.6	6.8	7.0	7.1	6.1	7.9	8.7	5.8
BUILDABLE ACRES	35		21,697 ✓	12,055 ✓	15,433 ✓	9,324 ✓	1,162 ✓	350 ✓	5,053 ✓	0 ✓
ENCROACHMENT	15		32.0	80.7	103.9	130.6	327.7	1,626.5	96.8	155.6
IMA	10		1,140.0	1,225.0	720.0	575.0	495.0	660.0	1,205.0	475.0
EXCESS CAPACITY-PROD	65		315 ✓	1,375 ✓	108 ✓	164 ✓	531 ✓	714 ✓	797 ✓	360 ✓
FUTURE REQUIREMENTS	---	125	5.9	8.7	4.0	3.3	3.5	3.2	5.6	2.7
COL INDEX	50		92	94	104	90	97	94	101	99
MCA Cost Factor	50		0.85	0.94	0.95	0.88	1.03	0.95	0.78	0.88
BASOPS Factor	100		71,645	2,758	997	11,989	1,521	256	25,154	291
COST AND MANPOWER	---	200	2.7	6.9	5.1	7.0	6.2	7.1	4.5	6.4
SCORE		1000	6.3	7.0	4.4	4.9	5.1	5.3	5.0	4.7
RANK			2	1	8	6	4	3	5	7

✓ Installation Data Values
* DA DATA Values
X MACOM Data Values
Ø AAA DATA Values

SUB MODEL FOR AMMO PRODUCTION

	WEIGHT	McALESTER	LONE STAR	IOWA	MILAN	LAKE CITY	RADFORD	PINE BLUFF	HOLSTON
MILES TO RAIL TRANS	30	1-- .5	0+	0+	0+	0+	0+	1--	0+
MILES TO AIR TRANS	30	67+	1052-	1073-	758	1172--	328+	58+	383+
MILES TO SEA TRANS	30	403+	939-	970-	653	1162--	280+	401+	346+
MILES TO HIGHWAY	10	40	0.25	50-	20	5	10	33	5
DEPLOYMENT ---	100	7.3	5.1	3.9	6.5	3.9	9.1	5.9	8.8
ANNUAL TNG(# PEOPLE)	25	3755.00++	2.00	0.00	1.00	486.00	50.00	37.00	300.00
IDT (MANDAYS)	75	2150.00+	0.00	3400.00++	0.00	1246.00	350.00	3444.00++	3400.00++
RESERVE TRAINING ---	100	7.2	0.0	7.4	0.0	3.0	0.8	7.5	7.6
ARCH/HIST BLDGS	5	0.00002	0.0327	0.0238	0.0391	0.0745	0.1607	0	0.[illegible]
ENDGRD FAUNA/FLORA	15	1	0	0	0	0	0	1	3
WETLANDS	15	0 .01	0.010	0 .010	0 .010	0 .010	0.010	0-	0
AIR QUALITY	10	1	1	1	1	1	1	1	1
WATER QUALITY	15	10+	0	0	2	0	28-	5	5
NOISE QUAL - ZONE II	10	21 21.01	0	0	433	975-	0	0	0
NOISE QUAL -ZONE III	15	0	0	0	0	96-	0	0	0
CONTAMINATED SITES	15	44	62-	34	6+	38	43	0+	8
ENV CAR CAPACITY	100	7.9	8.4	9.1	9.2	6.4	7.1	7.7	7.5
CAPACITY WATER	25	15.00	7.70	3.00	4.80	1.50	53.50++	2.00	[illegible]
CAPACITY SEWAGE	25	4.50++	3.00+	0.80-	1.20	0.85-	1.10-	4.00+	[illegible]
CAPACITY ELECT	25	1900.00+	0.00	105.00	319.00	391.00	4150.00++	40.00	0.00
LANDFILL COST	25	$70	$90 70.16	$31 30.60	$2+2.45	$90 89.74	$0+	$156	[illegible]
INFRASTRUCTURE	100	5.7	2.9	2.2	3.1	1.4	7.7	2.2	[illegible]
SCORE	400	7.0	4.1	5.7	4.7	3.7	6.2	5.8	6.5
RANK		1	7	5	6	8	3	4	2

AMMO PRODUCTION SECOND RUN W/ CORRECTIONS

	WEIGHT		McAlester AAP	Lone Star AAP	Iowa AAP	Milan AAP	Lake City AAP	Radford AAP	Pine Bluff Ars	Holston AAP
RESERVE TRAINING	30		7.2	0.0	7.4	0.0	3.0	0.8	7.5	7.6
EQUIPMENT NETWORK	50		7.3	5.1	3.9	6.5	3.9	9.1	5.9	8.8
WORK FORCE AVAILABLE	30		16,177	53,860	21,947	37,346	843,211	6,317	32,247	215,516
PRODUCTION FLEX	80		10	1	1	12 Ø1	1	1	1 20	1
AMMUNITION STORAGE	130		6,992	7,230 723K	919 919K	1,884 1884K	1,020 1021K	483 483K	1,276	220 220K
PRODUCTION CAPACITY	130		2,003,731	4,314,475	1,874,577	2,400,000	3,835,625	3,300,000	1,635,510	2,661,924
MISSION REQUIREMENTS	---	450	7.5	6.6	2.9	3.4	4.6	3.8	3.2	4.0
AGE OF FACILITIES	50		51	52	51	51	52	47	41	53
INFRASTRUCTURE	35		5.7	2.9	2.2	3.1	1.4	7.7	2.2	2.2
% PERMANENT FACILITY	45		99%	95%	98%	94%	88%	64%	97%	65%
QUANTITY-DISTANCE	70		0	0	0	0	0	0	0	0
ENVIRONMENTAL CAP	25		7.9	8.4	9.1	9.2	6.4	7.1	7.7	7.5
LAND AND FACILITIES	---	225	7.6	6.8	7.0	7.1	6.1	7.9	8.7	5.8
BUILDABLE ACRES	35		21,697	12,055	15,433	09,324	1,162	350	5,053	0
ENCROACHMENT	15		32.0	80.7 80.306	83.9 103.43	30.6 30.013	327.7 326.21	26.5 1661.49	96.8 96.367	155.6 154.9
IMA	10		1,140.0	1,225.0	720.0	575.0	495.0	660.0	1,205.0	475.0
EXCESS CAPACITY-PROD	65		315	1,375	108	164	531	714	797	360
FUTURE REQUIREMENTS	---	125	5.9	8.7	4.0	3.3	3.5	3.2	5.6	2.7
COL INDEX	50		92	94	104	90	97 98.65	94	101	99
MCA Cost Factor	50		0.85	0.94	0.95	0.88	1.03	0.95	0.78	0.88
JACOBS Factor	100		71,645	2,758	997	11,989	1,521	256	25,154	291
COST AND MANPOWER	---	200	2.7	6.9	5.1	7.0	6.2	7.1	4.5	6.4
		===								
SCORE		1000	6.3	7.0	4.4	4.9	5.1	5.3	5.0	4.7
RANK			2	1	8	6	4	3	5	7

* DA DATA VALUES
✓ IACOM DATA VALUES
Ø AAA DATA VALUES

MODEL FOR AMMO PRODUCTION

	WEIGHT	McALESTER	LONE STAR	IOWA	MILAN	LAKE CITY	RADFORD	PINE BLUFF	HOLSTON
MILES TO RAIL TRANS	30	1-.5	0+	0+	0+	0+	0+	1--	0+
MILES TO AIR TRANS	30	67+	1052-	1073-	758	1172--	328+	58+	383+
MILES TO SEA TRANS	30	403+	939-	970-	653	1162--	280+	401+	346+
MILES TO HIGHWAY	10	40	0.25	50-	20	5	10	33	5
DEPLOYMENT ---	100	7.3	5.1	3.9	6.5	3.9	9.1	5.9	8.8
ANNUAL TNG(# PEOPLE)	25	3755.00++	2.00	0.00	1.00	486.00	50.00	37.00	300.00
TNG (MANDAYS)	75	2150.00+	0.00	3400.00++	0.00	1246.00	350.00	3444.00++	3400.00++
RESERVE TRAINING ---	100	7.2	0.0	7.4	0.0	3.0	0.8	7.5	7.6
# W/HIST BLDGS	5	0.000002	0.0327	0.0238	0.0391	0.0745	0.1607	0.03	0.2[illegible]
ENDGRD FAUNA/FLORA	15	1	0	0	0	0	0	1	3
WETLANDS	15	0.01	0.010	0.010	0.010	0.010	0.010	0-.1673	0.[illegible]
AIR QUALITY	10	1	1	1	1	1	1	1	1
WATER QUALITY	15	10	0	0	2	0	28-	5	5
NOISE QUAL ZONE II	10	21 21.01	0	0	433	975-	0	0	0
NOISE QUAL ZONE III	15	0	0	0	0	96-	0	0	0
CONTAMINATED SITES	15	44	62-	34	6+	38	43	0+	8
ENV CAR CAPACITY ---	100	7.9	8.4	9.1	9.2	6.4	7.1	7.7	7.5
CAPACITY WATER	25	15.00	7.70	3.00	4.80	1.50	53.50++	2.00	7.00
CAPACITY SEWAGE	25	4.50++	3.00+	0.80-	1.20	0.85-	1.10-	4.00+	0.75-
CAPACITY ELECT	25	1900.00+	0.00	105.00	319.00	391.00	4150.00++	40.00	0.00
PROJECT COST	25	$70	$90 70.16	$31 30.60	$2+2.45	$90 89.94	$0+	$156	$36 [illegible]
INFRASTRUCTURE ---	100	5.7	2.9	2.2	3.1	1.4	7.7	2.2	2.2
SCORE	400	7.0	4.1	5.7	4.7	3.7	6.2	5.8	6.5
RANK		1	7	5	6	8	3	4	2

[illegible] \D PAD\DATA\IAMUBAP1.DPW

AMMO PRODUCTION SECOND RUN W/ CORRECTIONS

	WEIGHT	McAlester AAP	Lone Star AAP	Iowa AAP	Milan AAP	Lake City AAP	Radford AAP	Pine Bluff Ars	Holston AAP
RESERVE TRAINING	30	7.2	0.0	7.4	0.0	3.0	0.8	7.5	7.6
DEPLOYMENT NETWORK	50	7.3	5.1	3.9	6.5	3.9	9.1	5.9	8.8
WORK FORCE AVAILABLE	30	16,177	53,860	21,947	37,346	843,211	6,317	32,247	215,516
PRODUCTION FLEX	80	10	1	1	12 Ø1	1	1	1 12Ø	1
AMMUNITION STORAGE	130	6,992	7,230 723K	919 919K	1,884 1884K	1,020 1020	483 483K	1,276	220 220K
PRODUCTION CAPACITY	130	2,003,731	4,314,475	1,874,577	2,400,000	3,835,625	3,300,000	1,635,510	2,661,924
MISSION REQUIREMENTS	--- 480	7.5	6.6	2.9	3.4	4.6	3.8	3.2	4.0
AGE OF FACILITIES	50	51	52	51	51	52	47	41	53
INFRASTRUCTURE	35	5.7	2.9	2.2	3.1	1.4	7.7	2.2	2.2
% PERMANENT FACILITY	45	99%	95%	98%	94%	88%	64%	97%	65%
QUANTITY-DISTANCE	70	0	0	0	0	0	0	0	0
ENVIRONMENTAL CAP	25	7.9	8.4	9.1	9.2	6.4	7.1	7.7	7.5
LAND AND FACILITIES	--- 225	7.6	6.8	7.0	7.1	6.1	7.9	8.7	5.8
BUILDABLE ACRES	35	21,697	12,055	15,433	9,324	1,162	350	5,053	0
ENCROACHMENT	15	32.0	80.7 80.306	103.9 103.45	30.6 30.613	827.7	826.5 1661.4	96.8	35.8 154.3
IMA	10	1,140.0	1,225.0	720.0	575.0	495.0	660.0	1,205.0	475.0
EXCESS CAPACITY-PROD	65	315	1,375	108	164	531	714	797	360
FUTURE REQUIREMENTS	--- 125	5.9	8.7	4.0	3.3	3.5	3.2	5.6	2.7
COE INDEX	50	92	94	104	90	97 98.65	94	101	99
MCA Cost Factor	50	0.85	0.94	0.95	0.88	1.03	0.95	0.78	0.88
BASOPS Factor	100	71,645	2,758	997	11,989	1,521	256	25,154	293
COST AND MANPOWER	--- 200	2.7	6.9	5.1	7.0	6.2	7.1	4.5	6.4
SCORE	1000	6.3	7.0	4.4	4.9	5.1	5.3	5.0	4.7
RANK		2	1	8	6	4	3	5	7

✓ DA DATA VALUES AS OF 8 Jul 94
✓ IACOM DATA VALUES AS OF 25 MAY 94
✓ AAA DATA VALUES

SUB MODEL FOR AMMO PRODUCTION

	WEIGHT		McALESTER	LONE STAR	IOWA	MILAN	LAKE CITY	RADFORD	PINE BLUFF	HOLSTON
MILES TO RAIL TRANS	30		1- .5	0+	0+	0+	0+	0+	1--	0+
MILES TO AIR TRANS	30		67+	1052-	1073-	758	1172--	328+	58+	383+
MILES TO SEA TRANS	30		403+	939-	970-	653	1162--	280+	401+	346+
MILES TO HIGHWAY	10		40	0.25	50-	20	5	10	33	5
DEPLOYMENT		100	7.3	5.1	3.9	6.5	3.9	9.1	5.9	8.8
ANNUAL TNG(# PEOPLE)	25		3755.00++	2.00	0.00	1.00	486.00	50.00	37.00	300.00
IDT (MANDAYS)	75		2150.00+	0.00	3400.00++	0.00	1246.00	350.00	3444.00++	3400.00++
RESERVE TRAINING		100	7.2	0.0	7.4	0.0	3.0	0.8	7.5	7.6
ARCH/HIST BLDGS	5		0.00002	0.0327	0.0238	0.0391	0.0715	0.1657	0	[illegible]
ENDGRD FAUNA/FLORA	15		1	0	0	0	0	0	1	3
WETLANDS	15		0.01	0.010	0.010	0.010	0.010	0.010	0-	[illegible]
AIR QUALITY	10		1	1	1	1	1	1	1	1
WATER QUALITY	15		10+	0	0	2	0	28-	5	5
NOISE QUAL ZONE II	10		21.21.01	0	0	433	975-	0	0	0
NOISE QUAL -ZONE III	15		0	0	0	0	96-	0	0	0
CONTAMINATED SITES	15		44	62-	34	6+	38	43	0	8
ENV CAR CAPACITY		100	7.9	8.4	9.1	9.2	6.4	7.1	7.7	7.5
CAPACITY WATER	25		15.00	7.70	3.00	4.80	1.50	53.50++	2.00	7.00
CAPACITY SEWAGE	25		4.50++	3.00+	0.80-	1.20	0.85-	1.10-	4.00+	2.75
CAPACITY ELECT	25		1900.00+	0.00	105.00	319.00	391.00	4150.00++	40.00	[illegible]
LANDFILL COST	25		$70	$90	$31 30.60	$2+2.45	$90 87.74	$0+	$156--	[illegible]
INFRASTRUCTURE		100	5.7	2.9	2.2	3.1	1.4	7.7	2.2	[illegible]
SCORE		400	7.0	4.1	5.7	4.7	3.7	6.2	5.8	6.5
RANK			1	7	5	6	8	3	4	2

AMMO STORAGE 5

	WEIGHT		BLUE GRASS	HAWTHORNE	SAVANNA	SIERRA	TEAD	UMATILLA	SENECA	PUEB[illegible]	[illegible]
AMMO STORAGE	240		2240.00-	7662.00++	2427.00 2426	1940.00-	4375.00++	1801.00--	1492.00-	2164.00-	[illegible]
RESERVE TRAINING	40		3.2	0.6	2.8	3.6	10.0++	0.7	4.3	0.0	[illegible]
DEPLOYMENT NETWORK	80		8.0	5.6-	5.3-	6.9	7.5	9.3+	9.5+	6.8	[illegible]
AVAILABLE WORKFORCE	40		217489.00+	3720.00	99438.00	9934.00	10366.00	28204.00	34470.00	50040.00	[illegible]
MAINT FLEXIBILITY	50		8-	0+	2	1+	9--	0+	9--	0+	0+
MISSION REQUIREMENTS	---	450	4.2	7.5	4.0	3.8	5.3	4.1	3.1	3.9	[illegible]
FACILITIES AVG AGE	50		45+	53-	52	44+	45+	52	49	52	[illegible]
INFRASTRUCTURE	25		2.1	7.1	5.6	2.8	8.8+	3.5	2.2	3.3	[illegible]
% PERMANENT FACILITY	50		94%+	96%+	96%+	51%--	59%-	68%	97%+	74%	[illegible]
QUANTITY-DISTANCE	75		0	0	0	0	0	0	0	0	0
ENVIRONMENTAL CAP	25		8.2	8.0	7.1	5.7	8.8	9.1	7.7	8.6	[illegible]
LAND AND FACILITIES	---	225	8.7	7.6	7.5	6.6	7.9	6.2	7.9	6.4	[illegible]
EXCESS CAP STORAGE	50		0.00	0.00	137.00+ 107	76.00	0.00	0.00	282.00++	0.00	[illegible]
POTENTIAL ACRES	35		6,000	132,572++	494	10,600	23,500	6,000	1,000	14,388	[illegible]
ENCROACHMENT	30		286.2	2.7	446.1-444,167	6.2	3.9	18.9	289.5	[illegible]	[illegible]
IMA	10		715.00	435.00 205	885.00	1010.00	1240.00	880.00	1105.00	590.00	[illegible]
FUTURE REQUIREMENTS		125	1.3	5.2	2.4	4.3	3.7	2.9	5.5	2.6	[illegible]
BARGES/MON POP	100		12,990+	5,882++	17,377+	26,882	13,699+	37,599--	11,290+	40,785	[illegible]
MCA COST FACTOR	50		0.96	1.26	1.08	1.43	1.00	1.25	1.19	0.92	[illegible]
COL INDEX	50		100	107-	93	97	93	103-	103-	85+	[illegible]
COST AND MANPOWER	---	200	5.6	5.3	5.7	3.3	6.2	1.4	5.1	3.6	[illegible]
		1000									
SCORE			5.1	6.8	4.9	4.4	5.8	3.9	4.9	4.3	[illegible]
RANK			3	1	4	6	2	8	4	7	9

1 DA DATA VALUES AS OF 8 JUL 94
✓ MACOM DATA VALUES AS OF 25 MAY 94
1 AAA DATA VALUES

SUB-MODEL FOR AMMO STORAGE 5

	WEIGHT	BLUE GRASS	HAWTHORNE	SAVANNA	SIERRA	TEAD	UMATILLA	SENECA	PUEBLO	[illegible]
MILES TO RAIL TRANS	30	0	0	0	1--	0	0	0	0	[illegible]
MILES TO AIR TRANS	30	45	325--	76	0+	35	35	0+	8	0
MILES TO SEA TRANS	30	577	300+	926--	210+	711	315+	293+	1005+	[illegible]
MILES TO HIGHWAY	10	6	100-	52	7	15	1	14	13	1
DEPLOYMENT	[illegible]	8.1	5.6	5.5	6.9	7.6	9.2	9.5	6.8	[illegible]
ANNUAL TNG(# PEOPLE)	25	1069.00+	27.00-	95.00	287.00	1800.00++	475.00	213.00	[illegible]	0
IDT (MANDAYS)	25	4485.00	1506.00--	7061.00	8600.00+	20000.00++	252.00--	10608.00+	[illegible]	0
RESERVE TRAINING	[illegible]	3.2	0.6	2.8	3.6	10.0	0.7	4.3	[illegible]	0
ARCH/HIST BLDGS	5	0	0	0.004	0	0	0	[illegible]	[illegible]	0
ENDGRD FAUNA/FLORA	15	1	0	1	0	0	1	0	1	2-
WETLANDS	15	0	0	0-	1-	0	0	0	0	0
AIR QUALITY	10	1	1	1	1	1	1	1	1	1
WATER QUALITY	15	1	0	0	0	0	0	10	0	1
NOISE QUAL ZONE II	10	1138	0	0	68000-	5200	5	7	0	0
NOISE QUAL ZONE III	15	0	0	0	10510-	1400	0	0	0	0
CONTAMINATED SITES	15	54	126-	75	23	75	11	55	49	0
ENV CAR CAPACITY	[illegible]	8.2	8.0	7.1	5.7	8.8	9.1	7.7	[illegible]	5
CAPACITY WATER	[illegible]	0.72	5.40+	0.36-	4.00	8.90++	0.56-	1.60	1.20	0
CAPACITY SEWAGE	[illegible]	0.12-	3.00	7.60+	0.50-	12.00++	3.38	0.63	3.50	3
CAPACITY ELECT	25	75.00-	3900.00++	3833.00++	2441.00+	2652.00+	330.00-	620.00-	150.00	0
LANDFILL COST	25	$24	$2+	$4646	$110--	$15	$1+	$55-	$10	10+
INFRASTRUCTURE	100	2.1	7.1	5.6	2.8	8.8	3.5	2.2	3.3	.5
SCORE	300	5.4	5.3	5.2	4.7	8.8	5.6	5.9	4.7	.2
RANK		4	5	6	8	1	3	2	8	9

AMMUNITION STORAGE

INSTALLATION = BLUE GRASS ARMY DEPOT

MISSION REQUIREMENTS AND OPERATIONAL READINESS

RESERVE TRAINING	
ANNUAL TRAINING	1069 PERSONS
INACTIVE DUTY TRAINING	4485 MANDAYS
DEPLOYMENT NETWORK	
RAILHEAD	0.01 MILE
AIRPORT	45 MILES
SEAPORT	577 MILES
HIGHWAY	6 MILES
AVAILABLE WORKFORCE	**DA WILL PROVIDE**
MAINTENANCE FLEXIBILITY	**8**
AMMUNITION STORAGE	**2240K SQ FT**

LAND AND FACILITIES

PERCENT PERMANENT FACILITIES	**94 %**
AVERAGE AGE OF FACILITIES	**45 YRS** 53
INFRASTRUCTURE	
WATER SUPPLY CAPACITY	0.72 MGD
SEWAGE TREATMENT CAPACITY	0.12 MGD
ELECTRICAL CAPACITY	75
SOLID WASTE LANDFILL COSTS	$23.71/TON
QUANTITY-DISTANCE	0
ENVIRONMENTAL CAPACITY	
ARCHEOLOGY/HISTORIC BUILDINGS FACTOR	.0001
ENDANGERED SPECIES	1
WETLANDS FACTOR	.0961
AIR QUALITY	1
WATER QUALITY	1
NOISE QUALITY	
AICUZ ZONE II OFF POST	1138 ACRES
AICUZ ZONE III OFF POST	0 ACRES
CONTAMINATED SITE IRP	54
CONTAMINATED SITE NPL	0

CLOSE HOLD

CONTINGENCY, MOBILIZATION AND FUTURE REQUIREMENTS

BUILDABLE ACRES	6000 ACRES
ENCROACHMENT	211.41 POP/SQ MI
INFORMATION MISSION AREA	715 PTS
TELEPHONE SWITCHING	300 PTS
OUTSIDE CABLE PLANT	220 PTS
COMMON USER SUPPORT	75 PTS
DSN/DDN NODE	25 PTS
POST WIDE WAN/LAN	45 PTS
TCC	50 PTS
VTC	0 PTS
EXCESS CAPACITY-STORAGE	0 SQ FT

COST AND MANPOWER

COST OF LIVING INDEX	**$228.38**
MCA COST FACTOR	**0.96**
BASOPS/MISSION POPULATION	
BASOPS *	**$24745290**
MISSION POPULATION	**DA WILL PROVIDE**

* UNABLE TO PROVIDE BASOPS COSTS BY PAYROLL/NON PAYROLL

CLOSE HOLD

AMMUNITION STORAGE

INSTALLATION = HAWTHORNE AAP

MISSION REQUIREMENTS AND OPERATIONAL READINESS

RESERVE TRAINING	
ANNUAL TRAINING	27 PERSONS
INACTIVE DUTY TRAINING	1506 MANDAYS
DEPLOYMENT NETWORK	
RAILHEAD	0 MILES
AIRPORT	325 MILES
SEAPORT	300 MILES
HIGHWAY	100 MILES
AVAILABLE WORKFORCE	DA WILL PROVIDE
MAINTENANCE FLEXIBILITY	0
AMMUNITION STORAGE	7662K SQ FT

LAND AND FACILITIES

PERCENT PERMANENT FACILITIES	96 %
AVERAGE AGE OF FACILITIES	53 YRS
INFRASTRUCTURE	
WATER SUPPLY CAPACITY	5.40 MGD
SEWAGE TREATMENT CAPACITY	3.00 MGD
ELECTRICAL CAPACITY	3900
SOLID WASTE LANDFILL COSTS	$1.98/TON
QUANTITY-DISTANCE	0
ENVIRONMENTAL CAPACITY	
ARCHEOLOGY/HISTORIC BUILDINGS FACTOR	.0159
ENDANGERED SPECIES	0
WETLANDS FACTOR	.010
AIR QUALITY	1
WATER QUALITY	0
NOISE QUALITY	
AICUZ ZONE II OFF POST	0 ACRES
AICUZ ZONE III OFF POST	0 ACRES
CONTAMINATED SITE IRP	126
CONTAMINATED SITE NPL	0

CONTINGENCY, MOBILIZATION AND FUTURE REQUIREMENTS

BUILDABLE ACRES	132572 ACRES
ENCROACHMENT	1.72 POP/SQ MI
INFORMATION MISSION AREA	435 PTS **
TELEPHONE SWITCHING	0 PTS
OUTSIDE CABLE PLANT	80 PTS
COMMON USER SUPPORT	**255 PTS ****
DSN/DDN NODE	0 PTS
POST WIDE WAN/LAN	75 PTS
TCC	25 PTS
VTC	0 PTS
EXCESS CAPACITY-STORAGE	0 SQ FT

COST AND MANPOWER

COST OF LIVING INDEX	$640.65
MCA COST FACTOR	1.26
BASOPS/MISSION POPULATION	
BASOPS *	**$4194100**
MISSSION POPULATION	**DA WILL PROVIDE**

* GOCO PLANT - UNABLE TO PROVIDE BASOPS COSTS BY PAYROLL/ NON PAYROLL

** Changed IMA total from 205 points to 435 points & Changed Common User Support from 25 points to 255 points Errors on Multiplation and addition. Changed made on 27 June 1994.

AMMUNITION STORAGE

INSTALLATION = HAWTHORNE AAP

MISSION REQUIREMENTS AND OPERATIONAL READINESS

RESERVE TRAINING	
ANNUAL TRAINING	27 PERSONS
INACTIVE DUTY TRAINING	1506 MANDAYS
DEPLOYMENT NETWORK	
RAILHEAD	0 MILES
AIRPORT	325 MILES
SEAPORT	300 MILES
HIGHWAY	100 MILES
AVAILABLE WORKFORCE	**DA WILL PROVIDE**
MAINTENANCE FLEXIBILITY	**0**
AMMUNITION STORAGE	**7662K SQ FT**

LAND AND FACILITIES

PERCENT PERMANENT FACILITIES	**96 %**
AVERAGE AGE OF FACILITIES	**53 YRS**
INFRASTRUCTURE	
WATER SUPPLY CAPACITY	**5.40 MGD**
SEWAGE TREATMENT CAPACITY	**3.00 MGD**
ELECTRICAL CAPACITY	**3900**
SOLID WASTE LANDFILL COSTS	**$1.98/TON**
QUANTITY-DISTANCE	0
ENVIRONMENTAL CAPACITY	
ARCHEOLOGY/HISTORIC BUILDINGS FACTOR	.0159
ENDANGERED SPECIES	0
WETLANDS FACTOR	.010
AIR QUALITY	1
WATER QUALITY	0
NOISE QUALITY	
AICUZ ZONE II OFF POST	0 ACRES
AICUZ ZONE III OFF POST	0 ACRES
CONTAMINATED SITE IRP	126
CONTAMINATED SITE NPL	0

CONTINGENCY, MOBILIZATION AND FUTURE REQUIREMENTS

BUILDABLE ACRES	132572 ACRES
ENCROACHMENT	1.72 POP/SQ MI
INFORMATION MISSION AREA	205 PTS
TELEPHONE SWITCHING	0 PTS
OUTSIDE CABLE PLANT	80 PTS
COMMON USER SUPPORT	25 PTS
DSN/DDN NODE	0 PTS
POST WIDE WAN/LAN	75 PTS
TCC	25 PTS
VTC	0 PTS
EXCESS CAPACITY-STORAGE	0 SQ FT

COST AND MANPOWER

COST OF LIVING INDEX	$640.65
MCA COST FACTOR	**1.26**
BASOPS/MISSION POPULATION	
BASOPS *	**$4194100**
MISSSION POPULATION	**DA WILL PROVIDE**

* GOCO PLANT - UNABLE TO PROVIDE BASOPS COSTS BY PAYROLL/ NON PAYROLL

AMMUNITION STORAGE

INSTALLATION = SAVANNA DEPOT

MISSION REQUIREMENTS AND OPERATIONAL READINESS

RESERVE TRAINING	
ANNUAL TRAINING	95 PERSONS
INACTIVE DUTY TRAINING	7061 MANDAYS
DEPLOYMENT NETWORK	
RAILHEAD	0.1 MILE
AIRPORT	76 MILES
SEAPORT	956 MILES
HIGHWAY	52 MILES
AVAILABLE WORKFORCE	DA WILL PROVIDE
MAINTENANCE FLEXIBILITY	2
AMMUNITION STORAGE	2427K SQ FT

LAND AND FACILITIES

PERCENT PERMANENT FACILITIES	96 %
AVERAGE AGE OF FACILITIES	53 YRS
INFRASTRUCTURE	
WATER SUPPLY CAPACITY	0.36 MGD
SEWAGE TREATMENT CAPACITY	7.60 MGD
ELECTRICAL CAPACITY	3833
SOLID WASTE LANDFILL COSTS	$46.20/TON
QUANTITY-DISTANCE	0
ENVIRONMENTAL CAPACITY	
ARCHEOLOGY/HISTORIC BUILDINGS FACTOR	.004
ENDANGERED SPECIES	2
WETLANDS FACTOR	.4727
AIR QUALITY	1
WATER QUALITY	0
NOISE QUALITY	
AICUZ ZONE II OFF POST	0 ACRES
AICUZ ZONE III OFF POST	0 ACRES
CONTAMINATED SITE IRP	68
CONTAMINATED SITE NPL	7

CLOSE HOLD

CONTINGENCY, MOBILIZATION AND FUTURE REQUIREMENTS

BUILDABLE ACRES	1992 ACRES
ENCROACHMENT	37.83 POP/SQ MI
INFORMATION MISSION AREA	885 PTS
TELEPHONE SWITCHING	350 PTS
OUTSIDE CABLE PLANT	260 PTS
COMMON USER SUPPORT	75 PTS
DSN/DDN NODE	25 PTS
POST WIDE WAN/LAN	75 PTS
TCC	55 PTS
VTC	45 PTS
EXCESS CAPACITY-STORAGE	137K SQ FT

COST AND MANPOWER

COST OF LIVING INDEX	**$9.02** 92.54
MCA COST FACTOR	**1.08** ✓
BASOPS/MISSION POPULATION	
BASOPS *	**$10964597**
MISSION POPULATION	**DA WILL PROVIDE** 631

* UNABLE TO PROVIDE BASOPS COSTS BY PAYROLL/NON PAYROLL

CLOSE HOLD

AMMUNITION STORAGE

INSTALLATION = SIERRA DEPOT

MISSION REQUIREMENTS AND OPERATIONAL READINESS

RESERVE TRAINING	
ANNUAL TRAINING	287 PERSONS
INACTIVE DUTY TRAINING	8600 MANDAYS
DEPLOYMENT NETWORK	
RAILHEAD	0.5 MILE
AIRPORT	0.1 MILE
SEAPORT	210 MILES
HIGHWAY	7 MILES
AVAILABLE WORKFORCE	DA WILL PROVIDE
MAINTENANCE FLEXIBILITY	1
AMMUNITION STORAGE	1940K SQ FT

LAND AND FACILITIES

PERCENT PERMANENT FACILITIES	51 %
AVERAGE AGE OF FACILITIES	44 YRS
INFRASTRUCTURE	
WATER SUPPLY CAPACITY	4.00 MGD
SEWAGE TREATMENT CAPACITY	0.50 MGD
ELECTRICAL CAPACITY	2441
SOLID WASTE LANDFILL COSTS	$110.37/TON
QUANTITY-DISTANCE	1
ENVIRONMENTAL CAPACITY	
ARCHEOLOGY/HISTORIC BUILDINGS FACTOR	0
ENDANGERED SPECIES	0
WETLANDS FACTOR	.6233
AIR QUALITY	1
WATER QUALITY	0
NOISE QUALITY	
AICUZ ZONE II OFF POST	68000 ACRES
AICUZ ZONE III OFF POST	10510 ACRES
CONTAMINATED SITE IRP	23
CONTAMINATED SITE NPL	0

CONTINGENCY, MOBILIZATION AND FUTURE REQUIREMENTS

BUILDABLE ACRES	10600 ACRES
ENCROACHMENT	6.06 POP/SQ MI
INFORMATION MISSION AREA	1010 PTS
TELEPHONE SWITCHING	350 PTS
OUTSIDE CABLE PLANT	260 PTS
COMMON USER SUPPORT	225 PTS
DSN/DDN NODE	50 PTS
POST WIDE WAN/LAN	75 PTS
TCC	50 PTS
VTC	0 PTS
EXCESS CAPACITY-STORAGE	76K SQ FT

COST AND MANPOWER

COST OF LIVING INDEX	**$197.47**
MCA COST FACTOR	**1.43**
BASOPS/MISSION POPULATION	
PAYROLL	**$3490034**
NON PAYROLL	**$27558748**
MISSSION POPULATION	**DA WILL PROVIDE**

AMMUNITION STORAGE

INSTALLATION = TOOELE DEPOT

MISSION REQUIREMENTS AND OPERATIONAL READINESS

RESERVE TRAINING	
ANNUAL TRAINING	1800 PERSONS
INACTIVE DUTY TRAINING	20000 MANDAYS
DEPLOYMENT NETWORK	
RAILHEAD	0.01 MILE
AIRPORT	35 MILES
SEAPORT	711 MILES
HIGHWAY	15 MILES
AVAILABLE WORKFORCE	DA WILL PROVIDE
MAINTENANCE FLEXIBILITY	9
AMMUNITION STORAGE	4375K SQ FT

LAND AND FACILITIES

PERCENT PERMANENT FACILITIES	59 %
AVERAGE AGE OF FACILITIES	45 YRS 49
INFRASTRUCTURE	
WATER SUPPLY CAPACITY	8.90 MGD
SEWAGE TREATMENT CAPACITY	12.00 MGD
ELECTRICAL CAPACITY	2652
SOLID WASTE LANDFILL COSTS	$15.00/TON
QUANTITY-DISTANCE	0
ENVIRONMENTAL CAPACITY	
ARCHEOLOGY/HISTORIC BUILDINGS FACTOR	0
ENDANGERED SPECIES	0
WETLANDS FACTOR	.0001
AIR QUALITY	1
WATER QUALITY	0
NOISE QUALITY	
AICUZ ZONE II OFF POST	5200 ACRES
AICUZ ZONE III OFF POST	1400 ACRES
CONTAMINATED SITE IRP	29
CONTAMINATED SITE NPL	46

CONTINGENCY, MOBILIZATION AND FUTURE REQUIREMENTS

BUILDABLE ACRES	23500 ACRES
ENCROACHMENT	3.83 POP/SQ MI
INFORMATION MISSION AREA	1240 PTS
TELEPHONE SWITCHING	450 PTS
OUTSIDE CABLE PLANT	220 PTS
COMMON USER SUPPORT	420 PTS
DSN/DDN NODE	50 PTS
POST WIDE WAN/LAN	45 PTS
TCC	55 PTS
VTC	0 PTS
EXCESS CAPACITY-STORAGE	0 SQ FT

COST AND MANPOWER

COST OF LIVING INDEX	$48.87
MCA COST FACTOR	1.00
BASOPS/MISSION POPULATION	
PAYROLL	$12025296
NON PAYROLL	$38784382
MISSION POPULATION	DA WILL PROVIDE

AMMUNITION STORAGE

INSTALLATION = UMATILLA DEPOT

MISSION REQUIREMENTS AND OPERATIONAL READINESS

RESERVE TRAINING	
ANNUAL TRAINING	475 PERSONS
INACTIVE DUTY TRAINING	252 MANDAYS
DEPLOYMENT NETWORK	
RAILHEAD	0 MILES
AIRPORT	35 MILES
SEAPORT	185/315 MILES *
HIGHWAY	0.5 MILE
AVAILABLE WORKFORCE	**DA WILL PROVIDE**
MAINTENANCE FLEXIBILITY	**0**
AMMUNITION STORAGE	**1801K SQ FT**

LAND AND FACILITIES

PERCENT PERMANENT FACILITIES	**68 %**
AVERAGE AGE OF FACILITIES	**52 YRS**
INFRASTRUCTURE	
WATER SUPPLY CAPACITY	0.56 MGD
SEWAGE TREATMENT CAPACITY	3.38 MGD
ELECTRICAL CAPACITY	330
SOLID WASTE LANDFILL COSTS	$0.85/TON
QUANTITY-DISTANCE	0
ENVIRONMENTAL CAPACITY	
ARCHEOLOGY/HISTORIC BUILDINGS FACTOR	.0001
ENDANGERED SPECIES	1
WETLANDS FACTOR	0
AIR QUALITY	1
WATER QUALITY	0
NOISE QUALITY	
AICUZ ZONE II OFF POST	5 ACRES
AICUZ ZONE III OFF POST	0 ACRES
CONTAMINATED SITE IRP	10
CONTAMINATED SITE NPL	1

CONTINGENCY, MOBILIZATION AND FUTURE REQUIREMENTS

BUILDABLE ACRES	6000 ACRES
ENCROACHMENT	18.43 POP/SQ MI
INFORMATION MISSION AREA	880 PTS
TELEPHONE SWITCHING	300 PTS
OUTSIDE CABLE PLANT	260 PTS
COMMON USER SUPPORT	270 PTS
DSN/DDN NODE	0 PTS
POST WIDE WAN/LAN	0 PTS
TCC	50 PTS
VTC	0 PTS
EXCESS CAPACITY-STORAGE	0 SQ FT

COST AND MANPOWER

COST OF LIVING INDEX	$480.77
MCA COST FACTOR	1.25
BASOPS/MISSION POPULATION	
PAYROLL	$1545380
NON PAYROLL	$7929604
MISSION POPULATION	DA WILL PROVIDE

* DISTANCE TO PORT = 185 MILES FOR GENERAL CARGO
DISTANCE TO PORT = 315 MILES FOR AMMO

AMMUNITION STORAGE

INSTALLATION = SENECA DEPOT

MISSION REQUIREMENTS AND OPERATIONAL READINESS

RESERVE TRAINING	
ANNUAL TRAINING	213 PERSONS
INACTIVE DUTY TRAINING	10608 MANDAYS
DEPLOYMENT NETWORK	
RAILHEAD	0 MILES
AIRPORT	0 MILES
SEAPORT	293 MILES
HIGHWAY	14 MILES
AVAILABLE WORKFORCE	DA WILL PROVIDE
MAINTENANCE FLEXIBILITY	9
AMMUNITION STORAGE	**1492K SQ FT**

LAND AND FACILITIES

PERCENT PERMANENT FACILITIES	**97 %**
AVERAGE AGE OF FACILITIES	**49 YRS**
INFRASTRUCTURE	
WATER SUPPLY CAPACITY	**1.60 MGD**
SEWAGE TREATMENT CAPACITY	**0.63 MGD**
ELECTRICAL CAPACITY	**620**
SOLID WASTE LANDFILL COSTS	**$55.00/TON**
QUANTITY-DISTANCE	0
ENVIRONMENTAL CAPACITY	
ARCHEOLOGY/HISTORIC BUILDINGS FACTOR	.0000945
ENDANGERED SPECIES	0
WETLANDS FACTOR	.0395
AIR QUALITY	1
WATER QUALITY	10
NOISE QUALITY	
AICUZ ZONE II OFF POST	6.89 ACRES
AICUZ ZONE III OFF POST	0 ACRES
CONTAMINATED SITE IRP	52
CONTAMINATED SITE NPL	3

CONTINGENCY, MOBILIZATION AND FUTURE REQUIREMENTS

BUILDABLE ACRES	1000 ACRES
ENCROACHMENT	132.86 POP/SQ MI
INFORMATION MISSION AREA	**1105 PTS ****
TELEPHONE SWITCHING	350 PTS
OUTSIDE CABLE PLANT	220 PTS
COMMON USER SUPPORT	390 PTS
DSN/DDN NODE	25 PTS
POST WIDE WAN/LAN	**45 PTS ****
TCC	75 PTS
VTC	0 PTS
EXCESS CAPACITY-STORAGE	282K SQ FT

COST AND MANPOWER

COST OF LIVING INDEX	$492.19
MCA COST FACTOR	**1.19**
BASOPS/MISSION POPULATION	
BASOPS *	**$13774240**
MISSION POPULATION	**DA WILL PROVIDE**

* UNABLE TO PROVIDE BASOPS COSTS BY PAYROLL/NON PAYROLL. COSTS DEVELOPED BY USING COSTS THRU MAR 94 X 2 TO GET TOTAL.
FY93 WAS ANOMALOUS YEAR - DOWNSIZING OF STORAGE MISSION AND BIG MANPOWER RIF - CONSIDERED INVALID FOR COSTING PURPOSES.

** Change IMA total from 1075 points to 1105 points. Changed Post wide WAN/LAN from 15 points to 45 points through audit the data. Changed made on 27 June 1994.

AMMUNITION STORAGE

INSTALLATION = SENECA DEPOT

MISSION REQUIREMENTS AND OPERATIONAL READINESS

RESERVE TRAINING	
ANNUAL TRAINING	213 PERSONS
INACTIVE DUTY TRAINING	10608 MANDAYS
DEPLOYMENT NETWORK	
RAILHEAD	0 MILES
AIRPORT	0 MILES
SEAPORT	293 MILES
HIGHWAY	14 MILES
AVAILABLE WORKFORCE	DA WILL PROVIDE
MAINTENANCE FLEXIBILITY	9
AMMUNITION STORAGE	1492K SQ FT

LAND AND FACILITIES

PERCENT PERMANENT FACILITIES	97 %
AVERAGE AGE OF FACILITIES	49 YRS
INFRASTRUCTURE	
WATER SUPPLY CAPACITY	1.60 MGD
SEWAGE TREATMENT CAPACITY	0.63 MGD
ELECTRICAL CAPACITY	620
SOLID WASTE LANDFILL COSTS	$55.00/TON
QUANTITY-DISTANCE	0
ENVIRONMENTAL CAPACITY	
ARCHEOLOGY/HISTORIC BUILDINGS FACTOR	.0000945
ENDANGERED SPECIES	0
WETLANDS FACTOR	.0395
AIR QUALITY	1
WATER QUALITY	10
NOISE QUALITY	
AICUZ ZONE II OFF POST	6.89 ACRES
AICUZ ZONE III OFF POST	0 ACRES
CONTAMINATED SITE IRP	52
CONTAMINATED SITE NPL	3

CONTINGENCY, MOBILIZATION AND FUTURE REQUIREMENTS

BUILDABLE ACRES	1000 ACRES
ENCROACHMENT	132.86 POP/SQ MI
INFORMATION MISSION AREA	1075 PTS
TELEPHONE SWITCHING	350 PTS
OUTSIDE CABLE PLANT	220 PTS
COMMON USER SUPPORT	390 PTS
DSN/DDN NODE	25 PTS
POST WIDE WAN/LAN	15 PTS
TCC	75 PTS
VTC	0 PTS
EXCESS CAPACITY-STORAGE	282K SQ FT

COST AND MANPOWER

COST OF LIVING INDEX	**$492.19**
MCA COST FACTOR	**1.19**
BASOPS/MISSION POPULATION	
BASOPS *	**$13774240**
MISSION POPULATION	**DA WILL PROVIDE**

* UNABLE TO PROVIDE BASOPS COSTS BY PAYROLL/NON PAYROLL. COSTS DEVELOPED BY USING COSTS THRU MAR 94 X 2 TO GET TOTAL.
FY93 WAS ANOMALOUS YEAR - DOWNSIZING OF STORAGE MISSION AND BIG MANPOWER RIF - CONSIDERED INVALID FOR COSTING PURPOSES.

AMMUNITION STORAGE

INSTALLATION = PUEBLO DEPOT

MISSION REQUIREMENTS AND OPERATIONAL READINESS

RESERVE TRAINING	
ANNUAL TRAINING	0 PERSONS
INACTIVE DUTY TRAINING	0 MANDAYS
DEPLOYMENT NETWORK	
RAILHEAD	0 MILES
AIRPORT	8 MILES
SEAPORT	1005 MILES
HIGHWAY	13 MILES
AVAILABLE WORKFORCE	DA WILL PROVIDE
MAINTENANCE FLEXIBILITY	0
AMMUNITION STORAGE	2164K SQ FT

LAND AND FACILITIES

PERCENT PERMANENT FACILITIES	74 %
AVERAGE AGE OF FACILITIES	52 YRS
INFRASTRUCTURE	
WATER SUPPLY CAPACITY	1.20 MGD
SEWAGE TREATMENT CAPACITY	3.50 MGD
ELECTRICAL CAPACITY	150
SOLID WASTE LANDFILL COSTS	$10.46/TON
QUANTITY-DISTANCE	0
ENVIRONMENTAL CAPACITY	
ARCHEOLOGY/HISTORIC BUILDINGS FACTOR	.0021
ENDANGERED SPECIES	1
WETLANDS FACTOR	.00004
AIR QUALITY	1
WATER QUALITY	0
NOISE QUALITY	
AICUZ ZONE II OFF POST	0 ACRES
AICUZ ZONE III OFF POST	0 ACRES
CONTAMINATED SITE IRP	**49 ****
CONTAMINATED SITE NPL	0

CONTINGENCY, MOBILIZATION AND FUTURE REQUIREMENTS

BUILDABLE ACRES	14388 ACRES
ENCROACHMENT	51.51 POP/SQ MI
INFORMATION MISSION AREA	590 PTS
TELEPHONE SWITCHING	300 PTS
OUTSIDE CABLE PLANT	140 PTS
COMMON USER SUPPORT	75 PTS
DSN/DDN NODE	25 PTS
POST WIDE WAN/LAN	0 PTS
TCC	50 PTS
VTC	0 PTS
EXCESS CAPACITY-STORAGE	0 SQ FT

COST AND MANPOWER

COST OF LIVING INDEX	$208.47
MCA COST FACTOR	**0.92**
BASOPS/MISSION POPULATION	
BASOPS *	**$16844268**
MISSION POPULATION	**DA WILL PROVIDE**

* UNABLE TO PROVIDE BASOPS COSTS BY PAYROLL/NON PAYROLL

** Change Contaminated Site from 0 to 49. Changed made on 27 June 1994 through audit the data.

AMMUNITION STORAGE

INSTALLATION = PUEBLO DEPOT

MISSION REQUIREMENTS AND OPERATIONAL READINESS

RESERVE TRAINING	
ANNUAL TRAINING	0 PERSONS
INACTIVE DUTY TRAINING	0 MANDAYS
DEPLOYMENT NETWORK	
RAILHEAD	0 MILES
AIRPORT	8 MILES
SEAPORT	1005 MILES
HIGHWAY	13 MILES
AVAILABLE WORKFORCE	DA WILL PROVIDE
MAINTENANCE FLEXIBILITY	0
AMMUNITION STORAGE	2164K SQ FT

LAND AND FACILITIES

PERCENT PERMANENT FACILITIES	74 %
AVERAGE AGE OF FACILITIES	52 YRS
INFRASTRUCTURE	
WATER SUPPLY CAPACITY	1.20 MGD
SEWAGE TREATMENT CAPACITY	3.50 MGD
ELECTRICAL CAPACITY	150
SOLID WASTE LANDFILL COSTS	$10.46/TON
QUANTITY-DISTANCE	0
ENVIRONMENTAL CAPACITY	
ARCHEOLOGY/HISTORIC BUILDINGS FACTOR	.0021
ENDANGERED SPECIES	1
WETLANDS FACTOR	.00004
AIR QUALITY	1
WATER QUALITY	0
NOISE QUALITY	
AICUZ ZONE II OFF POST	0 ACRES
AICUZ ZONE III OFF POST	0 ACRES
CONTAMINATED SITE IRP	0
CONTAMINATED SITE NPL	0

CONTINGENCY, MOBILIZATION AND FUTURE REQUIREMENTS

BUILDABLE ACRES	14388 ACRES
ENCROACHMENT	51.51 POP/SQ MI
INFORMATION MISSION AREA	590 PTS
TELEPHONE SWITCHING	300 PTS
OUTSIDE CABLE PLANT	140 PTS
COMMON USER SUPPORT	75 PTS
DSN/DDN NODE	25 PTS
POST WIDE WAN/LAN	0 PTS
TCC	50 PTS
VTC	0 PTS
EXCESS CAPACITY-STORAGE	0 SQ FT

COST AND MANPOWER

COST OF LIVING INDEX	**$208.47**
MCA COST FACTOR	**0.92**
BASOPS/MISSION POPULATION	
BASOPS *	**$16844268**
MISSION POPULATION	**DA WILL PROVIDE**

* UNABLE TO PROVIDE BASOPS COSTS BY PAYROLL/NON PAYROLL

AMMUNITION STORAGE

INSTALLATION = CAMP STANLEY STORAGE FACILITY

MISSION REQUIREMENTS AND OPERATIONAL READINESS

RESERVE TRAINING	
ANNUAL TRAINING	0 PERSONS
INACTIVE DUTY TRAINING	0 MANDAYS
DEPLOYMENT NETWORK	
RAILHEAD	0 MILES
AIRPORT	20 MILES
SEAPORT	192 MILES
HIGHWAY	1 MILE
AVAILABLE WORKFORCE	DA WILL PROVIDE
MAINTENANCE FLEXIBILITY	0
AMMUNITION STORAGE	275K SQ FT

LAND AND FACILITIES

PERCENT PERMANENT FACILITIES	96 %
AVERAGE AGE OF FACILITIES	54 YRS
INFRASTRUCTURE	
WATER SUPPLY CAPACITY	0.10 MGD
SEWAGE TREATMENT CAPACITY	0.03 MGD
ELECTRICAL CAPACITY	100
SOLID WASTE LANDFILL COSTS	$0.00/TON
QUANTITY-DISTANCE	0
ENVIRONMENTAL CAPACITY	
ARCHEOLOGY/HISTORIC BUILDINGS FACTOR	0
ENDANGERED SPECIES	2
WETLANDS FACTOR	0
AIR QUALITY	1
WATER QUALITY	0
NOISE QUALITY	
AICUZ ZONE II OFF POST	0 ACRES
AICUZ ZONE III OFF POST	0 ACRES
CONTAMINATED SITE IRP	0
CONTAMINATED SITE NPL	0

CONTINGENCY, MOBILIZATION AND FUTURE REQUIREMENTS

BUILDABLE ACRES	0 ACRES
ENCROACHMENT	3.76 POP/SQ MI
INFORMATION MISSION AREA	405 PTS
TELEPHONE SWITCHING	200 PTS
OUTSIDE CABLE PLANT	60 PTS
COMMON USER SUPPORT	0 PTS
DSN/DDN NODE	50 PTS
POST WIDE WAN/LAN	75 PTS
TCC	20 PTS
VTC	0 PTS
EXCESS CAPACITY-STORAGE	0 SQ FT

COST AND MANPOWER

COST OF LIVING INDEX	$266.59
MCA COST FACTOR	0.87
BASOPS/MISSION POPULATION	
BASOPS *	**$6000000**
MISSION POPULATION	**DA WILL PROVIDE**

* UNABLE TO PROVIDE BASOPS COSTS BY PAYROLL/NON PAYROLL

AMMUNITION PRODUCTION

INSTALLATION = MCALESTER AAP

MISSION REQUIREMENTS AND OPERATIONAL READINESS

RESERVE TRAINING	
ANNUAL TRAINING	3755 PERSONS
INACTIVE DUTY TRAINING	2150 MANDAYS
DEPLOYMENT NETWORK	
RAILHEAD	0.5 MILE
AIRPORT	67 MILES
SEAPORT	403 MILES
HIGHWAY	40 MILES
AVAILABLE WORKFORCE	DA WILL PROVIDE
PRODUCTION FLEXIBILITY	10
AMMUNITION STORAGE	6992K SQ FT
PRODUCTION CAPACITY	2003731 MANHOURS

LAND AND FACILITIES

PERCENT PERMANENT FACILITIES	99 %
AVERAGE AGE OF FACILITIES	51 YRS
INFRASTRUCTURE	
WATER SUPPLY CAPACITY	15.00 MGD
SEWAGE TREATMENT CAPACITY	4.50 MGD
ELECTRICAL CAPACITY	1900
SOLID WASTE LANDFILL COSTS	$70.00/TON
QUANTITY-DISTANCE	0
ENVIRONMENTAL CAPACITY	
ARCHEOLOGY/HISTORIC BUILDINGS FACTOR	.00002
ENDANGERED SPECIES	1
WETLANDS FACTOR	.01
AIR QUALITY	1
WATER QUALITY	10
NOISE QUALITY	
AICUZ ZONE II OFF POST	21.01 ACRES
AICUZ ZONE III OFF POST	0 ACRES
CONTAMINATED SITE IRP	44

CONTAMINATED SITE NPL	0

CONTINGENCY, MOBILIZATION AND FUTURE REQUIREMENTS

BUILDABLE ACRES	21697 ACRES
ENCROACHMENT	56.43 POP/SQ MI
INFORMATION MISSION AREA	1140 PTS
TELEPHONE SWITCHING	300 PTS
OUTSIDE CABLE PLANT	300 PTS
COMMON USER SUPPORT	375 PTS
DSN/DDN NODE	50 PTS
POST WIDE WAN/LAN	75 PTS
TCC	40 PTS
VTC	0 PTS
EXCESS CAPACITY-PRODUCTION	**315K SQ FT**

COST AND MANPOWER

COST OF LIVING INDEX	**$0.00** 91.6
MCA COST FACTOR	**0.85** ✓
BASOPS/MISSION POPULATION	
BASOPS *	**$81747299**
MISSION POPULATION	**DA WILL PROVIDE**

* GOCO PLANT - IOC REPORTS THAT PAYROLL/NON PAYROLL COSTS NOT IDENTIFIABLE IN TOTAL CONTRACT COSTS

AMMUNITION PRODUCTION

INSTALLATION = LONE STAR AAP

MISSION REQUIREMENTS AND OPERATIONAL READINESS

RESERVE TRAINING	
ANNUAL TRAINING	2 PERSONS
INACTIVE DUTY TRAINING	0 MANDAYS
DEPLOYMENT NETWORK	
RAILHEAD	0 MILES
AIRPORT	1052 MILES
SEAPORT	939 MILES
HIGHWAY	0.25 MILE
AVAILABLE WORKFORCE	DA WILL PROVIDE
PRODUCTION FLEXIBILITY	1
AMMUNITION STORAGE	723K SQ FT
PRODUCTION CAPACITY	4314475 MANHOURS

LAND AND FACILITIES

PERCENT PERMANENT FACILITIES	95 %
AVERAGE AGE OF FACILITIES	52 YRS
INFRASTRUCTURE	
WATER SUPPLY CAPACITY	7.70 MGD
SEWAGE TREATMENT CAPACITY	3.00 MGD
ELECTRICAL CAPACITY	0
SOLID WASTE LANDFILL COSTS	$90.16/TON
QUANTITY-DISTANCE	0
ENVIRONMENTAL CAPACITY	
ARCHEOLOGY/HISTORIC BUILDINGS FACTOR	.0327
ENDANGERED SPECIES	0
WETLANDS FACTOR	.010
AIR QUALITY	1
WATER QUALITY	0
NOISE QUALITY	
AICUZ ZONE II OFF POST	0 ACRES
AICUZ ZONE III OFF POST	0 ACRES

CONTAMINATED SITE IRP	61
CONTAMINATED SITE NPL	1

CONTINGENCY, MOBILIZATION AND FUTURE REQUIREMENTS

BUILDABLE ACRES	12055 ACRES
ENCROACHMENT	79.45 POP/SQ MI
INFORMATION MISSION AREA	1225 PTS
TELEPHONE SWITCHING	500 PTS
OUTSIDE CABLE PLANT	260 PTS
COMMON USER SUPPORT	270 PTS
DSN/DDN NODE	50 PTS
POST WIDE WAN/LAN	45 PTS
TCC	100 PTS
VTC	0 PTS
EXCESS CAPACITY-PRODUCTION	**1375K SQ FT**

COST AND MANPOWER

COST OF LIVING INDEX	**$12.41** 93.6
MCA COST FACTOR	**0.94**
BASOPS/MISSION POPULATION	
BASOPS *	**$3018000**
MISSION POPULATION	**DA WILL PROVIDE** 1094

* GOCO PLANT - IOC REPORTS THAT PAYROLL/NON PAYROLL COSTS NOT IDENTIFIABLE IN TOTAL CONTRACT COSTS

AMMUNITION PRODUCTION

INSTALLATION = IOWA AAP

MISSION REQUIREMENTS AND OPERATIONAL READINESS

RESERVE TRAINING	
ANNUAL TRAINING	0 PERSONS
INACTIVE DUTY TRAINING	3400 MANDAYS
DEPLOYMENT NETWORK	
RAILHEAD	0 MILES
AIRPORT	1073 MILES
SEAPORT	970 MILES
HIGHWAY	50 MILES
AVAILABLE WORKFORCE	DA WILL PROVIDE
PRODUCTION FLEXIBILITY	1
AMMUNITION STORAGE	919K SQ FT
PRODUCTION CAPACITY	1874577 MANHOURS

LAND AND FACILITIES

PERCENT PERMANENT FACILITIES	98 %
AVERAGE AGE OF FACILITIES	51 YRS
INFRASTRUCTURE	
WATER SUPPLY CAPACITY	3.00 MGD
SEWAGE TREATMENT CAPACITY	0.80 MGD
ELECTRICAL CAPACITY	105
SOLID WASTE LANDFILL COSTS	$30.60/TON
QUANTITY-DISTANCE	0
ENVIRONMENTAL CAPACITY	
ARCHEOLOGY/HISTORIC BUILDINGS FACTOR	.0238
ENDANGERED SPECIES	0
WETLANDS FACTOR	.010
AIR QUALITY	1
WATER QUALITY	0
NOISE QUALITY	
AICUZ ZONE II OFF POST	0 ACRES
AICUZ ZONE III OFF POST	0 ACRES
CONTAMINATED SITE IRP	30

CONTAMINATED SITE NPL	4

CONTINGENCY, MOBILIZATION AND FUTURE REQUIREMENTS

BUILDABLE ACRES	15433 ACRES
ENCROACHMENT	102.39 POP/SQ MI
INFORMATION MISSION AREA	720 PTS
TELEPHONE SWITCHING	250 PTS
OUTSIDE CABLE PLANT	80 PTS
COMMON USER SUPPORT	345 PTS
DSN/DDN NODE	0 PTS
POST WIDE WAN/LAN	45 PTS
TCC	0 PTS
VTC	0 PTS
EXCESS CAPACITY-PRODUCTION	**108K SQ FT**

COST AND MANPOWER

COST OF LIVING INDEX	**$420.61** 104.2
MCA COST FACTOR	**0.95**
BASOPS/MISSION POPULATION	
BASOPS *	**$1046660**
MISSION POPULATION	**DA WILL PROVIDE** 1040

* GOCO PLANT - IOC REPORTS THAT PAYROLL/NON PAYROLL COSTS NOT IDENTIFIABLE IN TOTAL CONTRACT COSTS

AMMUNITION PRODUCTION

INSTALLATION = MILAN AAP

MISSION REQUIREMENTS AND OPERATIONAL READINESS

RESERVE TRAINING	
ANNUAL TRAINING	1 PERSON
INACTIVE DUTY TRAINING	0 MANDAYS
DEPLOYMENT NETWORK	
RAILHEAD	0 MILES
AIRPORT	758 MILES
SEAPORT	653 MILES
HIGHWAY	20 MILES
AVAILABLE WORKFORCE	DA WILL PROVIDE
PRODUCTION FLEXIBILITY	**1 ****
AMMUNITION STORAGE	**1884K SQ FT**
PRODUCTION CAPACITY	**2400000 MANHOURS**

LAND AND FACILITIES

PERCENT PERMANENT FACILITIES	**94 %**
AVERAGE AGE OF FACILITIES	51 YRS
INFRASTRUCTURE	
WATER SUPPLY CAPACITY	4.80 MGD
SEWAGE TREATMENT CAPACITY	1.20 MGD
ELECTRICAL CAPACITY	319
SOLID WASTE LANDFILL COSTS	$2.45/TON
QUANTITY-DISTANCE	0
ENVIRONMENTAL CAPACITY	
ARCHEOLOGY/HISTORIC BUILDINGS FACTOR	.0391
ENDANGERED SPECIES	0
WETLANDS FACTOR	.010
AIR QUALITY	1
WATER QUALITY	2
NOISE QUALITY	
AICUZ ZONE II OFF POST	433 ACRES
AICUZ ZONE III OFF POST	0 ACRES
CONTAMINATED SITE IRP	5

CONTAMINATED SITE NPL	1

CONTINGENCY, MOBILIZATION AND FUTURE REQUIREMENTS

BUILDABLE ACRES	9324 ACRES
ENCROACHMENT	61.43 POP/SQ MI
INFORMATION MISSION AREA	575 PTS
TELEPHONE SWITCHING	300 PTS
OUTSIDE CABLE PLANT	80 PTS
COMMON USER SUPPORT	150 PTS
DSN/DDN NODE	0 PTS
POST WIDE WAN/LAN	45 PTS
TCC	0 PTS
VTC	0 PTS
EXCESS CAPACITY-PRODUCTION	164K SQ FT

COST AND MANPOWER

COST OF LIVING INDEX	**$0.00**
MCA COST FACTOR	**0.88**
BASOPS/MISSION POPULATION	
BASOPS *	**$18474400**
MISSSION POPULATION	**DA WILL PROVIDE**

* GOCO PLANT - IOC REPORTS THAT PAYROLL/NON PAYROLL COSTS NOT IDENTIFIABLE IN TOTAL CONTRACT COSTS

** Changed Production Flexibility from 2 to 1. Changed made on 27 June 1994 through audit the data.

AMMUNITION PRODUCTION

INSTALLATION = MILAN AAP

MISSION REQUIREMENTS AND OPERATIONAL READINESS

RESERVE TRAINING	
ANNUAL TRAINING	1 PERSON
INACTIVE DUTY TRAINING	0 MANDAYS
DEPLOYMENT NETWORK	
RAILHEAD	0 MILES
AIRPORT	758 MILES
SEAPORT	653 MILES
HIGHWAY	20 MILES
AVAILABLE WORKFORCE	DA WILL PROVIDE
PRODUCTION FLEXIBILITY	2
AMMUNITION STORAGE	1884K SQ FT
PRODUCTION CAPACITY	2400000 MANHOURS

LAND AND FACILITIES

PERCENT PERMANENT FACILITIES	94 %
AVERAGE AGE OF FACILITIES	51 YRS
INFRASTRUCTURE	
WATER SUPPLY CAPACITY	4.80 MGD
SEWAGE TREATMENT CAPACITY	1.20 MGD
ELECTRICAL CAPACITY	319
SOLID WASTE LANDFILL COSTS	$2.45/TON
QUANTITY-DISTANCE	0
ENVIRONMENTAL CAPACITY	
ARCHEOLOGY/HISTORIC BUILDINGS FACTOR	.0391
ENDANGERED SPECIES	0
WETLANDS FACTOR	.010
AIR QUALITY	1
WATER QUALITY	2
NOISE QUALITY	
AICUZ ZONE II OFF POST	433 ACRES
AICUZ ZONE III OFF POST	0 ACRES
CONTAMINATED SITE IRP	5

CONTAMINATED SITE NPL	1

CONTINGENCY, MOBILIZATION AND FUTURE REQUIREMENTS

BUILDABLE ACRES	9324 ACRES
ENCROACHMENT	61.43 POP/SQ MI
INFORMATION MISSION AREA	575 PTS
TELEPHONE SWITCHING	300 PTS
OUTSIDE CABLE PLANT	80 PTS
COMMON USER SUPPORT	150 PTS
DSN/DDN NODE	0 PTS
POST WIDE WAN/LAN	45 PTS
TCC	0 PTS
VTC	0 PTS
EXCESS CAPACITY-PRODUCTION	**164K SQ FT**

COST AND MANPOWER

COST OF LIVING INDEX	**$0.00**
MCA COST FACTOR	**0.88**
BASOPS/MISSION POPULATION	
BASOPS *	**$18474400**
MISSSION POPULATION	**DA WILL PROVIDE**

* GOCO PLANT - IOC REPORTS THAT PAYROLL/NON PAYROLL COSTS NOT IDENTIFIABLE IN TOTAL CONTRACT COSTS

AMMUNITION PRODUCTION

INSTALLATION = LAKE CITY AAP

MISSION REQUIREMENTS AND OPERATIONAL READINESS

RESERVE TRAINING	
ANNUAL TRAINING	486 PERSONS
INACTIVE DUTY TRAINING	1246 MANDAYS
DEPLOYMENT NETWORK	
RAILHEAD	0 MILES
AIRPORT	1172 MILES
SEAPORT	1162 MILES
HIGHWAY	5 MILES
AVAILABLE WORKFORCE	**DA WILL PROVIDE**
PRODUCTION FLEXIBILITY	**1**
AMMUNITION STORAGE	**102K SQ FT**
PRODUCTION CAPACITY	**3835625 MANHOURS**

LAND AND FACILITIES

PERCENT PERMANENT FACILITIES	**88 %**
AVERAGE AGE OF FACILITIES	**52 YRS**
INFRASTRUCTURE	
WATER SUPPLY CAPACITY	1.50 MGD
SEWAGE TREATMENT CAPACITY	0.85 MGD
ELECTRICAL CAPACITY	391
SOLID WASTE LANDFILL COSTS	$89.94/TON
QUANTITY-DISTANCE	0
ENVIRONMENTAL CAPACITY	
ARCHEOLOGY/HISTORIC BUILDINGS FACTOR	.0745
ENDANGERED SPECIES	0
WETLANDS FACTOR	.010
AIR QUALITY	1
WATER QUALITY	0
NOISE QUALITY	
AICUZ ZONE II OFF POST	975 ACRES
AICUZ ZONE III OFF POST	96 ACRES
CONTAMINATED SITE IRP	35

CONTAMINATED SITE NPL	3

CONTINGENCY, MOBILIZATION AND FUTURE REQUIREMENTS

BUILDABLE ACRES	1162 ACRES
ENCROACHMENT	292.76 POP/SQ MI
INFORMATION MISSION AREA	495 PTS
TELEPHONE SWITCHING	200 PTS
OUTSIDE CABLE PLANT	40 PTS
COMMON USER SUPPORT	210 PTS
DSN/DDN NODE	0 PTS
POST WIDE WAN/LAN	45 PTS
TCC	0 PTS
VTC	0 PTS
EXCESS CAPACITY-PRODUCTION	**531K SQ FT**

COST AND MANPOWER

COST OF LIVING INDEX	**$281.56**
MCA COST FACTOR	**1.03**
BASOPS/MISSION POPULATION	
BASOPS *	**$2925200**
MISSION POPULATION	**DA WILL PROVIDE**

* GOCO PLANT - IOC REPORTS THAT PAYROLL/NON PAYROLL COSTS NOT IDENTIFIABLE IN TOTAL CINTRACT COSTS

AMMUNITION PRODUCTION

INSTALLATION = RADFORD AAP

MISSION REQUIREMENTS AND OPERATIONAL READINESS

RESERVE TRAINING	
ANNUAL TRAINING	50 PERSONS
INACTIVE DUTY TRAINING	350 MANDAYS
DEPLOYMENT NETWORK	
RAILHEAD	0 MILES
AIRPORT	328 MILES
SEAPORT	280 MILES
HIGHWAY	10 MILES
AVAILABLE WORKFORCE	DA WILL PROVIDE
PRODUCTION FLEXIBILITY	1
AMMUNITION STORAGE	483K SQ FT
PRODUCTION CAPACITY	3300000 MANHOURS

LAND AND FACILITIES

PERCENT PERMANENT FACILITIES	64 %
AVERAGE AGE OF FACILITIES	47 YRS
INFRASTRUCTURE	
WATER SUPPLY CAPACITY	53.50 MGD
SEWAGE TREATMENT CAPACITY	1.10 MGD
ELECTRICAL CAPACITY	4150
SOLID WASTE LANDFILL COSTS	$0.00/TON
QUANTITY-DISTANCE	0
ENVIRONMENTAL CAPACITY	
ARCHEOLOGY/HISTORIC BUILDINGS FACTOR	.1607
ENDANGERED SPECIES	0
WETLANDS FACTOR	.010
AIR QUALITY	1
WATER QUALITY	28
NOISE QUALITY	
AICUZ ZONE II OFF POST	0 ACRES
AICUZ ZONE III OFF POST	0 ACRES
CONTAMINATED SITE IRP	43

CONTAMINATED SITE NPL	0

CONTINGENCY, MOBILIZATION AND FUTURE REQUIREMENTS

BUILDABLE ACRES	350 ACRES
ENCROACHMENT	1626.53 POP/SQ MI
INFORMATION MISSION AREA	660 PTS
TELEPHONE SWITCHING	250 PTS
OUTSIDE CABLE PLANT	80 PTS
COMMON USER SUPPORT	255 PTS
DSN/DDN NODE	0 PTS
POST WIDE WAN/LAN	75 PTS
TCC	0 PTS
VTC	0 PTS
EXCESS CAPACITY-PRODUCTION	**714K SQ FT**

COST AND MANPOWER

COST OF LIVING INDEX	**$55.27**
MCA COST FACTOR	**0.95**
BASOPS/MISSION POPULATION	
BASOPS *	**$476304**
MISSION POPULATION	**DA WILL PROVIDE**

* GOCO PLANT - IOC REPORTS THAT PAYROLL/NON PAYROLL COSTS NOT IDENTIFIABLE IN TOTAL CONTRACT COSTS

AMMUNITION PRODUCTION

INSTALLATION = PINE BLUFF ARSENAL

MISSION REQUIREMENTS AND OPERATIONAL READINESS

RESERVE TRAINING	
ANNUAL TRAINING	37 PERSONS
INACTIVE DUTY TRAINING	3444 MANDAYS
DEPLOYMENT NETWORK	
RAILHEAD	1 MILE
AIRPORT	58 MILES
SEAPORT	401 MILES
HIGHWAY	33 MILES
AVAILABLE WORKFORCE	DA WILL PROVIDE
PRODUCTION FLEXIBILITY	2
AMMUNITION STORAGE	1276K SQ FT
PRODUCTION CAPACITY	1635510 MANHOURS

LAND AND FACILITIES

PERCENT PERMANENT FACILITIES	97 %
AVERAGE AGE OF FACILITIES	41 YRS
INFRASTRUCTURE	
WATER SUPPLY CAPACITY	2.00 MGD
SEWAGE TREATMENT CAPACITY	4.00 MGD
ELECTRICAL CAPACITY	40
SOLID WASTE LANDFILL COSTS	$156.00/TON
QUANTITY-DISTANCE	0
ENVIRONMENTAL CAPACITY	
ARCHEOLOGY/HISTORIC BUILDINGS FACTOR	.03
ENDANGERED SPECIES	1
WETLANDS FACTOR	.1673
AIR QUALITY	1
WATER QUALITY	5
NOISE QUALITY	
AICUZ ZONE II OFF POST	0 ACRES
AICUZ ZONE III OFF POST	0 ACRES
CONTAMINATED SITE IRP	0

CONTAMINATED SITE NPL	0

CONTINGENCY, MOBILIZATION AND FUTURE REQUIREMENTS

BUILDABLE ACRES	5053 ACRES
ENCROACHMENT	97.02 POP/SQ MI
INFORMATION MISSION AREA	1205 PTS
TELEPHONE SWITCHING	400 PTS
OUTSIDE CABLE PLANT	180 PTS
COMMON USER SUPPORT	420 PTS
DSN/DDN NODE	50 PTS
POST WIDE WAN/LAN	75 PTS
TCC	80 PTS
VTC	0 PTS
EXCESS CAPACITY-PRODUCTION	797K SQ FT

COST AND MANPOWER

COST OF LIVING INDEX	**$366.49**
MCA COST FACTOR	**0.78**
BASOPS/MISSION POPULATION	
BASOPS *	**$37202678**
MISSION POPULATION	**DA WILL PROVIDE**

* GOCO PLANT - IOC REPORTS THAT PAYROLL/NON PAYROLL COSTS NOT IDENTIFIABLE IN TOTAL CONTRACT COSTS

AMMUNITION PRODUCTION

INSTALLATION = HOLSTON AAP

MISSION REQUIREMENTS AND OPERATIONAL READINESS

RESERVE TRAINING	
ANNUAL TRAINING	300 PERSONS
INACTIVE DUTY TRAINING	3400 MANDAYS
DEPLOYMENT NETWORK	
RAILHEAD	0 MILES
AIRPORT	383 MILES
SEAPORT	346 MILES
HIGHWAY	5 MILES
AVAILABLE WORKFORCE	**DA WILL PROVIDE**
PRODUCTION FLEXIBILITY	**1**
AMMUNITION STORAGE	**220K SQ FT**
PRODUCTION CAPACITY	**2661924 manhours**

LAND AND FACILITIES

PERCENT PERMANENT FACILITIES	**65 %**
AVERAGE AGE OF FACILITIES	**53 YRS** 47
INFRASTRUCTURE	
WATER SUPPLY CAPACITY	7.00 MGD
SEWAGE TREATMENT CAPACITY	0.75 MGD
ELECTRICAL CAPACITY	0
SOLID WASTE LANDFILL COSTS	$36.26/TON
QUANTITY-DISTANCE	0
ENVIRONMENTAL CAPACITY	
ARCHEOLOGY/HISTORIC BUILDINGS FACTOR	.209
ENDANGERED SPECIES	3
WETLANDS FACTOR	.010
AIR QUALITY	1
WATER QUALITY	5
NOISE QUALITY	
AICUZ ZONE II OFF POST	0 ACRES
AICUZ ZONE III OFF POST	0 ACRES
CONTAMINATED SITE IRP	8

CONTAMINATED SITE NPL	0

CONTINGENCY, MOBILIZATION AND FUTURE REQUIREMENTS

BUILDABLE ACRES	0 ACRES
ENCROACHMENT	152.17 POP/SQ MI
INFORMATION MISSION AREA	475 PTS
TELEPHONE SWITCHING	200 PTS
OUTSIDE CABLE PLANT	80 PTS
COMMON USER SUPPORT	195 PTS
DSN/DDN NODE	0 PTS
POST WIDE WAN/LAN	0 PTS
TCC	0 PTS
VTC	0 PTS
EXCESS CAPACITY-PRODUCTION	360 K SQ FT

COST AND MANPOWER

COST OF LIVING INDEX	**$3.48** 77.6
MCA COST FACTOR	**0.88** ✓
BASOPS/MISSION POPULATION	
BASOPS *	**$260000**
MISSION POPULATION	**DA WILL PROVIDE** 895

* GOCO PLANT - IOC REPORTS THAT PAYROLL/NON PAYROLL COSTS NOT IDENTIFIABLE IN TOTAL CONTRACT COSTS

DEPARTMENT OF THE ARMY
HEADQUARTERS
MILITARY TRAFFIC MANAGEMENT COMMAND
5611 COLUMBIA PIKE
FALLS CHURCH, VA 22041-5050

REPLY TO
ATTENTION OF

MTCS (570-4a)

MEMORANDUM FOR HQDA(DACS-TABS), WASH DC 20310-0200

SUBJECT: BRAC 95 Installation Assessment (IA) Program
BRAC 95 Data Call #1

1. References:

a. Memorandum, DACS-TABS, 26 Apr 94, subject as above.

b. Memorandum, Chief of Staff, United States Army, 21 Mar 94, subject: Base Realignment and Closure (BRAC) 95.

c. Memorandum, Director of Management, 21 Mar 94, subject: Army Preparation for BRAC 95.

2. Enclosed are the Installation Assessment Data Call #1 submissions for the military ports (encl 1), along with a word processing disk (encl 2).

3. The three MTMC ports are all considered essential for the deployability mission and satisfy unique components of the mission. The 1301st Major Port Command (MPC), located in Bayonne, is the only Army-owned ocean terminal on the east coast. The 1302nd MPC, located in Oakland, is the only Army-owned ocean terminal for general cargo on the west coast. The 1303rd MPC, located in Sunny Point, is the only Army-owned ammunition terminal. The locations and one-of-a-kind nature of the three terminals preclude competition among them.

4. The information contained in this report is accurate and complete to the best of my knowledge and belief.

5. Points of contact for this action are Loretta Graves and N. Dianne Luna, MTRM-M, (703) 756-1144.

FOR THE COMMANDER:

2 Encls

DEAN T. SMITH
Colonel, GS
Acting Chief of Staff

BRAC 95 INSTALLATION ASSESSMENT

ATTRIBUTES AND WEIGHTS

FOR PORTS

MILITARY TRAFFIC MANAGEMENT COMMAND

ATTRIBUTES AND WEIGHTS FOR PORTS

INSTALLATION ASSESSMENTS
DATA CALL #1

			BAYONNE MOTBY	OAKLAND MOTBA	SUNNY POINT MOTSU
SPECIAL CARGO CAPACITY	100		100	100	100
SUPPORT FACILITIES	75		2129	5109 (1)	36
NORMAL THROUGHPUT	100		24000	13500 (2)	5275 (3)
PIERS AND WHARVES	100				
Water Depth			35	35	34 (4)
Type Vessel			20	(5)	20
Length of Pier			7763	3636	6000
STAGING AREAS	75		2128	3573	4214
MISSION REQUIREMENT ---		450			
AVG AGE OF FACILITY	85		53 (6)	51 (7)	26
INFRASTRUCTURE	50				
Water			1.73	13.80	.40
Sewage			.60	1.58	.38
Electricity			5.20	6.70	.15
Landfill			7.16 (8)	28.28 (8a)	27.50
% PERM FACILITIES	65		79	44 (9)	84
ENVIRONMENTAL CAPACITY	25				
Arch & Historical			0	.055 (10)	.002 (11)
Endangered Species			0	0	3
Wetlands			.030	0	.244
Air Quality			10	10	1
Water Quality			0	0	0
Noise Quality			0	0	0
Contaminated Sites			1	11 (12)	4
LAND AND FACILITIES ---		225			
BUILDABLE ACRES	50		45	0	800
AVAILABLE WORKFORCE	20	HQDA			
MOBILIZATION THROUGHPUT	45		42000 (13)	29900 (14)	17250 (3a)
IMA	10		1260	1195	1000
CONT, MOB & FUT REQ --		125			
COST OF LIVING INDEX	50	HQDA			
MCA COST FACTOR	50	HQDA			
BASOPS/MISSION POP	100		5804 (15)	(16)	8653 (17)
COST & MANPOWER ------		200			
TOTAL		1000			

NOTES

(1) Includes 2,668,014 square feet of open storage and hardstand shop, i.e., category codes 452-10 and 452-20, respectively. Source: Real Property Inventory Report dated 14 April 1994.

(2) Source: Memorandum, MTTE-SEF, 25 March 1994, subject: Ports for National Defense (PND), West Coast (Port of Oakland and 1302ND Major Port Command (MPC) Second Coordination, enclosing the latest corrected draft report. The specified source for this attribute does not distinguish between "normal" and "mobilization" throughput capacity. It merely states the throughput capacity for each berth. In order to arrive at a regular peacetime capacity, we have used the mixed-vessel capacity of Wharf 7, our regular berth for most peacetime operations. This is 13,500 MTs loaded and/or unloaded per day.

(3) Daily normal throughput capability is 1600 MTON of Breakbuld ammunition and 210 containers (20 foot equivalent unit). An average weight of 17.5 MTON was used per container to compute total MTONS. Total MTON for Normal Throughput was computed using a normal 8 hour shift.

(3a) The Mobilization Throughput capability is over 5000 MTON of Breakbulk ammunition and over 700 containers (twenty foot equivalent unit) of ammunition per 24 hour day. An average of 17.5 MTON per container was used to compute total MTON.

(4) With a two foot over cut.

(5) Length of piers contained in Building Information Schedule Oakland Army Base, CA, March 1992, page 3. Type of vessels that each pier can accommodate are as follows: P6=15, P6 1/2=15, and P7=20.

(6) Year age does not reflect renovations that upgraded buildings over the years.

(7) Percentage calculated from HQRPLAN Part 3 - Percent of Total Building Area by Age Distribution.

(8) Contractor for installation deals with cubic yards. Total is per cubic yard not short ton.

(8a) Utility capacities calculated by Base facilities engineers. Land fill costs are the costs of collection and disposal of refuse, extracted from the HQDA Facilities Engineering and Housing Annual Summary of Operations; Vol III - Installation Performance; FY92; viz: M20000.

(9) Figure was extracted from the Real Property Inventory (RPI) report dated 14 April 1994 with the following revisions made to reflect existing conditions:

Bldg T834 (Cat Code 610-50). This structure is a portable trailer; deduct the 1,200 SF shown for this facility.

Bldg T6 (Cat Code 442-70). This structure is a portable trailer; deduct the 1,800 SF shown for this facility.

(9) con't

Bldg 780 (Cat Code 131-80). The 4,964 SF for this permanent facility was not picked-up on the RPI report.

Structure 65 (Cat Code 143-10). This is not a building, it is a truck weigh scale. Deduct the 600 SF shown on the RPI report.

Bldg 148 (Cat Code 832-31). The RPI shows 69 SF for this building. The actual square footage is 215 square feet.

Bldg 812 (Cat Code 214-10). The RPI shows this as a permanent building. The building is semi-permanent.

Bldg 99 (Cat Code 214-20 and 217-10). The RPI shows this as a permanent building. The building is semi-permanent.

Bldg 141 (Cat Code 442-60). This building has been demolished.

Bldg 161 (Cat Code 442-60). This building has been demolished.

Bldg 161 (Cat Code 442-60). Permanent Bldg 161 of 79,142 square feet was constructed as a replacement for previous Bldg 161, and was given the same building number.

Bldg 88 (Cat Code 442-70). The RPI shows this as a permanent building. The building is semi-permanent.

Bldg 9 (Cat Code 442-62). The square footage for this building was not picked-up on the RPI.

Bldg 664 (Cat Code 730-55). The RPI shows this as a permanent building. The building is semi-permanent.

Bldg 776 (Cat Code 730-55). The RPI shows this as a permanent building. The building is semi-permanent.

Bldg B0001 (Cat Code 730-55). The RPI shows this as a permanent building. The building is temporary. The building number has been changed to Bldg 8.

Bldg B0002 (Cat Code 730-55). The RPI shows this as a permanent building. The building is temporary. The building number has been changed to Bldg 644.

Bldg B0003 (Cat Code 730-55). This building has been demolished.

Bldg B0004 (Cat Code 730-55). This building has been demolished.

Bldg B0005 (Cat Code 730-55). The RPI shows this as a permanent building. The building is temporary. The building number has also been changed to Bldg 914.

Bldg 60 (Cat Code 740-51). The RPI shows this as a permanent building. The building is semi-permanent.

(9) con't

Bldg 5 (Cat Code 811-60). The RPI shows this as a permanent building. The building is semi-permanent.

Bldg 10 (Cat Code 872-30). The RPI shows this as a permanent building. The building is semi-permanent.

Bldg 11 (Cat Code 872-30). The RPI shows this as a permanent building. The building is semi-permanent.

Bldg 765 (Cat Code 872-30). The building is not shown on the RPI. The building is a permanent facility.

Bldg 164 (Cat Code 832-31). This permanent building was picked-up as a non-building on the RPI.

Bldg 640 (Cat Code 740-34). An 881 square foot handball court was added to gymnasium.

Bldg 902 (Cat Code 214-30). This permanent building of 15,360 square feet is not shown o the RPI. Building to be demolished by the Southern Pacific Transportation Company as part of lease termination condition.

Bldg 904 (Cat Code 214-52). This permanent building of 1,250 square feet is not shown on the RPI. Building is to be demolished by the Southern Pacific Transportation Company as part of lease termination condition.

Bldg 908 (Cat Code 740-60). This permanent building of 1,200 square feet is not shown on the RPI. Building to be demolished by the Southern Pacific Transportation Company as part of lease termination condition.

Building scheduled for demolition in FY94:

Temporary Building 647; 8,800 SF
Temporary Building 648; 3,379 SF
Temporary Building 905; 180 SF

(10) Twenty-three buildings/structures eligible for National Register.

(11) Two register sites + 32 potentially eligible sites= 34.

(12) Ten underground tank sites have hydrocarbon contamination. One site has chlorinated solvent contamination.

(13) Source references: (a) TEA formula used in the Port Operational Performance Simulator (POPS).

(b) G3 Throughput evaluation.

(14) Memorandum, MTTE-SEF, 25 March 1994, subject: Ports for National Defense (PND), West Coast (Port of Oakland and 1302D Major Port Command (MPC) Second Coordination, enclosing the latest corrected draft report, pages 30 and 37 apply. The 1302D MPC can load (and/or unload) 29,900 MTs daily in an emergency. This is based on loading the same mixture of different types of vessels as were loaded for the Persian Gulf War. It is also based on using Wharves 7, 6 1/2, and 6 (also names respectively Berths 7, 8, and 9 by the Port of Oakland). Wharf 7 is owned and operated by the 1302nd. Wharves 6 1/2 and 6 are owned by the Army and leased to the Port of Oakland, with a seven day recapture clause. Wharves 6 1/2 and 6 have been used regularly by the 1302nd without recourse to formally exercising the recapture clause for the Persian Gulf War, exercises, and normal operations. It should be recognized that the 1302nd also stuffs and unstuffs sea vans. However, that separate throughput capacity is not addressed in the IA.

(15) Total Base Support is $ 15,537,262. Population total used is 2677.

(16) Source: Cost of Sales Report, FY93 Actual OMA Execution FY93 for the dollar figues. Population data to be supplied by DA.

(17) Total Base Support is $ 3,443,818. Population total used is 398.

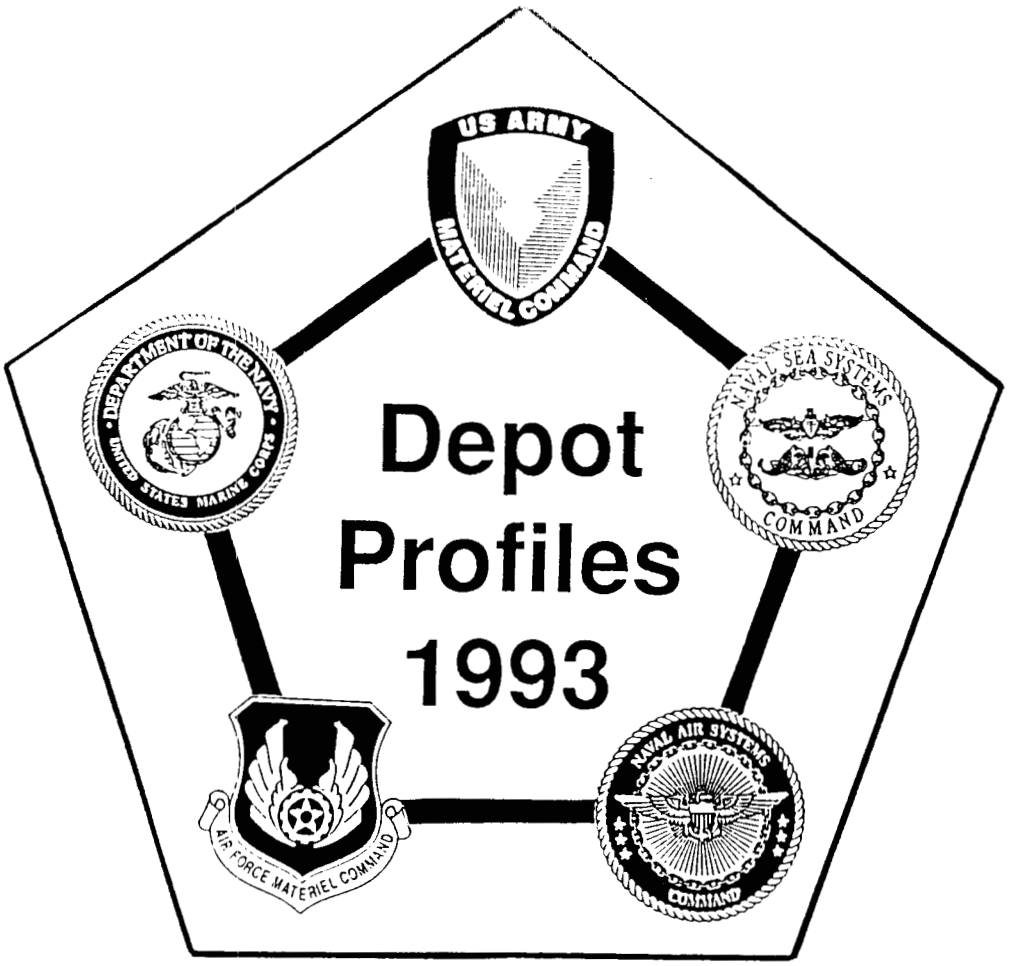
MILITARY OCEAN TERMINAL

MILITARY TRAFFIC MANAGEMENT COMMAND

Encl 2

ENCLOSURE 2 IS A FLOPPY DISK OF THE DATA SUBMITTED

Document Separator



Depot Profiles 1993

Prepared by: Joint Depot Maintenance Analysis Group
Technology Assessment Division
September 1993

1.1 Anniston Army Depot (ANAD), Anniston, Alabama

1.1.1 OVERVIEW

HISTORY/MISSION: When it opened in 1942 under the auspices of the Army, the depot was known as Anniston Ordnance Depot. From 1943 to 1945 the depot, managed by Chrysler Corporation, stored and shipped ammunition on an around-the-clock basis. During this time, depot employees handled more than 1.25 million (M) tons of material. In September 1945, the Army resumed direct management of the depot. In the early 1950s the depot assumed additional missions, the main tank overhaul facility was completed, and supply facilities were increased.

Anniston Ordnance Depot became Anniston Army Depot (ANAD) in 1962, when it was placed under AMC. Supporting various missile systems stimulated continued growth during the 1960s. In September 1976, ANAD was placed under the direction of DESCOM, a major subordinate command of AMC. ANAD is unique today in that it is the Army's sole CONUS combat vehicle rebuild depot, dedicated to producing the highest quality reworked items in a "like-new" condition at a fraction of the cost of the new item.

The three major missions at ANAD are maintenance, supply, and ammunition. The maintenance mission includes the overhaul and depot rebuild of combat vehicles, missiles, small arms, munitions and other commodities, related spare parts, and sub-assemblies. Current responsibilities include the M1 Abrams tank, the M48 and M60 series medium battle tanks, M551 vehicles, M88A1, AVLB, TOW, DRAGON, HELLFIRE, TOW 2, AIRBORNE TOW, SHILLELAGH, LANCE Missiles and associated launchers, and a large variety of small arms and light artillery weapons.

The supply mission consists of the storage and worldwide distribution of combat vehicles, small arms, and associated spare parts and sub-assemblies; the receipt, storage, and shipment of General Services Administration (GSA) and Defense Logistics Agency (DLA) commodities and both serviceable and non-serviceable commodities within the Army, for the AMCCOM, MICOM, TACOM, and ATCOM. Anniston's annual supply outloading capacity (based on 250 working days) is 1,000 rail carloads, 3,750 truckloads, and 2,000 filled containers. Supply storage capacity is 3.02 M gross square feet (GSF) covered space and 1.8 M square feet (SF) open storage.

The ammunition mission consists of the storage and maintenance of conventional and chemical munitions and missiles. The ammunition mission supports AMCCOM and MICOM Materiel Readiness Commands and both the US Navy (USN) and US Air Force (USAF) missions. Anniston's annual ammunition outloading capacity (based on 250 working days) is 1,000 rail carloads, 1,000 truckloads concurrently, and 1,659 filled containers. Ammunition storage capacity is 2.8 million GSF covered storage and 537,000 SF open storage. Ammunition maintenance/renovation space is 96,174 SF for conventional ammunition, 15,731 SF for Lance refurbishment, and 5,360 SF for chemical

and toxic munitions maintenance.

LOCATION: ANAD is located in northeast Alabama, approximately 10 miles west of the city of Anniston and Fort McClellan, another active US Army installation. The small community of Bynum lies on the depot's southern boundary. The north boundary is Pelham Range, a wooded operational training area owned by Fort McClellan. The east and west boundaries are bordered by lightly populated rural lands. A short distance to the south is Interstate 20, a major east-west artery that provides easy access to two of the south's largest cities, Birmingham, Alabama (50 miles west) and Atlanta, Georgia (110 miles east).

SIZE: ANAD occupies 18,113 acres, with 96 maintenance buildings, 82 shops, and 1,558,724 SF of shop space. The total facility value is $176M, with the maintenance facility valued at $38M and plant equipment value at $138M. The main depot covers 15,279 acres and contains the major functions of ammunition, base operations, maintenance, and supply. In addition to the main depot, there is a separate inactive ammunition storage area known as the Coosa River Storage Annex. This 2,834 acres is located approximately 12 miles southwest of the main reservation on Talladega County Highway 93.

WORK FORCE/PAYROLL: Work force end strength at the end of fiscal year 1992 was 3,599. The average number of military personnel assigned to ANAD is nine. Having an annual operating budget of $334M, ANAD impacts the local economy with an approximate $152M payroll; $5M for utilities, and $9M in local procurement.

1.1.2 DEMOGRAPHIC DATA

POPULATION: The work force 1s drawn primarily from six surrounding counties: 70.8 percent Calhoun County, 11.7 percent Talladega County, 6.9 percent Etowah County, 3.5 percent St. Clair County, 2.4 percent Cleburne County, 1.5 percent Clay County, and 3.2 percent from 27 other counties in two states.

SKILL BASE: The population base is well educated and the source of skilled and semi-skilled labor is expanding as more and more industries relocate to the Anniston area. Educational institutions in the area include Jacksonville State University, Talladega College, Ayers State Technical College, and Gadsden State College, all within 30 miles; and the University of Alabama at Birmingham, 50 miles away. It is estimated that 17 percent of the base are unskilled and would require training, 49 percent are semi-skilled, and 34 percent are highly skilled.

TRANSPORTATION ACCESS: ANAD with access to a major east-west interstate highway system (I-20), numerous (30-50) regular route common carriers (motor freight), two small commercial airports within an eight mile radius, is 50 miles from major airport facilities at Birmingham. It also has immediate access to main rail lines, and is in close

proximity to major rail switching yards at Birmingham and Atlanta.

ENVIRONMENTAL PROGRAMS: The environmental program at ANAD is divided into the following major categories: air, wastewater, groundwater, and solid/hazardous waste. Air emission consists of bulk hydrocarbon dispensing and storage tanks, five large coal fired boilers at the main boiler plant, and thermal destruction of ammunition. There are two wastewater treatment plants with a total capacity of 520,000 gallons per day (gpd). There is a remedial groundwater program with plans to treat up to 700,000 gpd of contaminated groundwater from four areas. The installation has a permitted sanitary landfill for disposal of solid waste, and the hazardous waste program consists of storage areas for hazardous wastes and thermal destruction of ammunition under the auspices of Resource Conservation and Recovery Act (RCRA) regulations. Future plans include a project for destruction of chemical munitions stored here.

LOCAL INDUSTRIES:

COMPETITIVE -

Chalkline Fabrication Co	Union Yarn Co
Monsanto Chemical	FMC Corp
Goodyear Tire and Rubber Co	Republic Steel Co
Federal Mogul Electrical Co	Phelps-Dodge
Garret Industries	

COMPLEMENTARY -

Willings-Detroit Diesel	Dixie Bearing Co
Birmingham Rubber & Gasket Co	Parts & Equipment Co
Post Welding Supply Co	Hall Building Co
Industrial Steel & Processing Co	Sterling Lumber Co
Porter-Warner Co (abrasives)	Jeffery Steel Co

1.1.3 TECHNOLOGICAL ENHANCEMENTS

STATE-OF-THE-ART TECHNOLOGY: Many high tech equipment projects have been installed or are approved for funding. They include:

Automated-infrared Printed Circuit Board (PCB) Tester
Automated Storage & Retrieval System (ASRS)
Automated Tool Crib System
CA Turbine Engine Diagnostic System
Computer Numerical Control (CNC) Dabber Welder
Computer Assisted Drafting Network
Coordinate Measurement Machines

Electrical Discharge Machines, Wire and Ram Type
Electron Beam Welder
Gantry Mounted Machining Center
Inhibited RF Nitric Acid Rehabilitation Facility
Laser Tracking System
Maintenance Shop Floor System
Robotic Camouflage Painting of Vehicles
Robotic Metalizing
Robotic Painting of Containers
Robotic Welding
Ultrasonic Flaw Detection System
Various CNC Machine Tools and Fabricators
Water Jet Brakeband Denuder

SPECIAL SKILLS: Repair and manufacturing skills available at ANAD include.

Electroplating
Small Arms Repair
Optical Instrument Repair
Machine Tooling
Artillery and Heavy Mobile Equipment Repair
Automotive Repair
Sheet Metal Working, Handling and Repair
Certified Ballistic Welding
Metal Surface Treating and Plating
Electromechanical and Electronic Repair and Manufacturing

MANUFACTURING TECHNIQUES/PROCESSES: Anniston is modernizing and replacing facilities and equipment with state-of-the-art technology to include new machine shop, bearing rebuild, engine rebuild, and small arms rebuild facilities. This effort will improve work flow, increase productivity, and decrease repair cycle time and unit cost. ANAD will be integrating high technology equipment at an increasing rate. The capital investments in manufacturing technology will be oriented toward increasing productivity, assuring quality, enhancing responsive capability, and reducing personnel hazards. Technologies under consideration are:

Ammunition Handling/Assembly Robotics
Ceramics/Composites Manufacturing
Computer Assisted Material Resource Planning (MRP) and Inventory Control
Flexible Computer Integrated Manufacturing (FCIM)
Mixed Text/Graphics Computer Aided Design (CAD) System - Desk-top Publishing
Water Knife/Jet Cutting Machine

REPAIR TECHNIQUES/PROCESSES: Areas currently being studied include:

Acoustical Small Arms Targeting and Accuracy Equipment.
Automated Machine Vision Inspection and Reverse Engineering System
Artificial Intelligence, Engine Diagnostic System
Power and Inertia Simulator for Combat Vehicles
Auto Infrared Printed Circuit Board Tester
Ultra-sonic Flaw Detection System
Vehicle X-Ray Facility and Equipment

Capital Investment Strategy and Modernization Program

1. Anniston Army Depot (ANAD) has planned capital equipment purchases of $3.4M for FY93 and of $4M for FY94. ANAD has infrastructure improvements and modernization planned totaling $4M a year for FY93 and FY94.

2. The environmental program at ANAD is concentrating on three regulations and the operations that are impacted immediately.

   a. Montreal Protocol on substances that deplete the ozone layer - chloroflurocarbons (Freon, Halon, chlorinated solvents).

   b. Clean Air Act amendments of 1990 - Volatile organic compounds (VOC) from such operations as painting, degreasing, and paint removal from solvent based paint strippers).

   c. Resource Conservation and Recovery Act (RCRA) - Disposal of hazardous waste from metal finishing operations such as: painting, degreasing, chemical cleaning, electroplating, chemical conversion coating, and paint removal (both chemical and abrasive based systems).

3. Funding for projects will be from the Defense Environmental Restoration Account (DERA) for FY92 and the Waste Minimization Capital Account (WMCA) for FY92, FY93, and FY94. The ANAD target for WMCA funds is $1M per year.

4. The Anniston Flexible Computer Integrated Manufacturing (FCIM) project is part of the AMC FCIM initiative and is currently listed in the AMC FCIM Business Plan as a candidate site for the manufacture of mechanical components. Anniston is the lead effort for FCIM in the area of mechanical components for DESCOM. The computer integrated manufacturing technology and architecture developed by the South Carolina Research Authority (SCRA) is to be transferred to Anniston. This technology was developed for the Navy Rapid Acquisition of Manufactured Parts (RAMP) program. The project is fully funded ($7.775M) and the funds are obligated.

5. As a result of the Defense Depot Maintenance Council (DDMC) studies, a charter was established for the Joint Technical Coordinating Group - Flexible Computer Integrated Manufacuturing (JTCG-FCIM). The charter provides for the formation of a JTCG-FCIM management group to satisfy the needs of the JTCG-FCIM in accomplishing the assigned tasks. A representative from Anniston was a member of a working group supporting the management group. Anniston teamed with Rock Island Arsenal, Illinois and responded to a request for submission of estimates from the JTCG-FCIM. The Anniston/Rock Island Arsenal team was selected as the Army representative in the area of small mechanical parts.

6. Anniston is participating in other efforts relating to FCIM. Anniston is working with the program manager of Digital Storage and Retrieval of Engineering Data Systems (DSREDS) at (MICOM) to establish a remote site at Anniston.

1.2 Corpus Christi Army Depot (CCAD), Corpus Christi, Texas

1.2.1 OVERVIEW

HISTORY/MISSION: This installation was opened in 1961 as an aircraft overhaul and repair facility with a work force of 1,000 military and civilian employees. The installation was formally commissioned as the US Army Aeronautical Depot Maintenance Center (ARADMAC). In 1967, changing needs and increased demand for helicopter repair resulted in a mission change, requiring the phasing out of fixed wing aircraft repair and the starting up of a complete rotary wing program. This sparked a great deal of new construction on the depot. In 1974, it was renamed Corpus Christi Army Depot (CCAD) with a work force of approximately 4,000 employees. Today the depot is the only aeronautical overhaul and repair facility for the Army. CCAD performs overhaul, repair, modifications, retrofit, and modernization on rotary wing aircraft, engines and components for all Services and the foreign military sales program. CCAD provides worldwide on-site maintenance services, aircraft crash analysis, lubricating oil analysis, and chemical and metallurgical support. CCAD also serves as the depot training base for 2,000 active duty, reserve, National Guard, and foreign military personnel annually. A prior mission of performing worldwide maintenance programs was eliminated in 1992 by the transfer of this mission to the DLA.

LOCATION: The depot is a tenant on the Corpus Christi Naval Air Station, located on Flour Bluff Point, about thirteen miles southeast of downtown Corpus Christi. Flour Bluff Point is a promontory bordered on three sides with lagoons and bays situated on the Gulf of Mexico. The city is about 225 miles southwest of the major industrial center and seaport of Houston and the seaport and resort area of Galveston. The city of San Antonio, famous for the Alamo, Spanish missions, and the Institute of Texas Cultures, as well as a large military presence, is situated about 150 miles northwest of the depot on I-37. About 160 miles south of the depot on Highway 77 are the Republic of Mexico and the Texas Rio Grande Valley, a major national supplier of citrus fruits and vegetables.

The climate is semi-tropical with mild winters and warm, humid summers, and an average temperature of 71.8 degrees Fahrenheit. Normal rainfall is 28.5 inches a year. The Texas coast is affected by hurricanes on the average of once each 2.5 years. A specific area is subject to a severe tropical storm on the average of once every 10 years.

SIZE: CCAD consists of 140 acres, with 126 acres dedicated to maintenance. Total number of buildings is 47, with 24 buildings for maintenance operations. Total available building space is 2,357,509 SF with 1,509,162 SF dedicated to maintenance. The maintenance facilities have a replacement value of $307M, with plant equipment valued at $91,098,619.

WORK FORCE/PAYROLL: The depot has a workforce of more than 3,600 civilian employees an ten military. The depot operates with an annual budget of about $350M,

with an annual payroll of approximately $155.M.

1.2.2 DEMOGRAPHIC DATA

POPULATION: The total work force at the depot is 3,600, with approximately 3,200 residing in the city of Corpus Christi itself and the remainder in nearby communities.

SKILL BASE: Recent Department of Defense (DOD) downsizing efforts have restricted external hires, and have resulted in a gradual decrease in strength. When in a hiring posture, most external recruitment is for entry level clerical or mechanical helper positions. On a smaller scale, there is usually some external hiring for specialized, highly skilled positions, i.e., engineers, chemists, etc. Primary wage grade skills include aircraft mechanic, transmission mechanic, jet engine mechanic, machinist, electronics mechanic, and aircraft electrician. Total work force percentage assigned in the highly skilled category is approximately 59 percent; moderately skilled, 26 percent; and entry level, 15 percent.

TRANSPORTATION ACCESS: The city of Corpus Christi is situated at the junctions of Interstate Highway 37 and US Highways 77 and 181, which, with several excellent state highways, provide ideal access for land transportation. The city is serviced by 20 motor freight lines and three railroads. The Port of Corpus Christi, the deepest port on the Gulf Coast, provides the capability for maritime shipping as needed. The Corpus Christi International Airport, located 15 miles north of CCAD, is served by four major airlines. The Naval Air Station is capable of handling the largest military aircraft.

ENVIRONMENTAL CONSTRAINTS:

The following are all local, state and federal legislation that are in effect at CCAD.

- Clean Air Act
- Clean Water Act
- Spill Prevention and Cleanup
- Resource Conservation and Recovery Act - Hazardous Waste
- Solid Waste Landfill Disposal
- Toxic Substance Control Act
- Safe Drinking Water Act
- Noise Pollution Control
- Federal Insecticide, Fungicide and Rodenticide Act

Currently, the host Navy and state have a consent decree forbidding Navy to receive hazardous waste in the industrial sludge drying beds (ISDB). In addition, they were directed to close the existing ISDB. These beds are dedicated to treat CCAD waste. New ISDBs were constructed using Army funds and the contaminated beds were secured. Host Navy has assumed responsibility for closure.

Disposing of hazardous materials, installing pollution prevention devices and training personnel in procedures for preventing pollution have added significantly to the cost of doing business and have created the need for continuing research into improved materials, equipment and processes.

LOCAL INDUSTRIES: CCAD is the largest industrial employer in south Texas. Industries in the area include agriculture, fishing, shrimping, petroleum, petrochemical, maquiladora, industrial construction, deep water port, and tourism. The principal products produced are petroleum refining products, petrochemical, chemical and allied products. Also the Port of Corpus Christi handles a variety of commerce products, including petroleum products, chemicals and grain.

COMPETITIVE - There are no major local industries or organizations that compete for skills or resources with CCAD.

COMPLEMENTARY - There are no local industries that compliment CCAD to a significant extent.

1.2.3 TECHNOLOGICAL ENHANCEMENTS

Laser Vane Removal Process. Damaged gas turbine engine vanes will be removed by a 1,000 watt Industrial CO_2 laser system. This process will perform the operation in approximately 10 minutes per vane compared to the present electric discharge machining process, which requires about one hour per vane for removal.

Advanced Composite Repair. The repair and rework of bonded composite honeycomb assemblies have been identified as high cost areas to the Army. It is CCAD's objective to establish the manufacturing methods required to integrate all the key repair/rework elements needed for reliable and low cost maintenance of adhesive-bonded structures. This approach will provide the Army with a modern, efficient honeycomb repair center that integrates the available new technologies with the necessary equipment and facilities to meet increased production requirements.

Computer Simulation. The depot uses Computer Aided Design/Computer Aided Manufacturing (CAD/CAM) system to simulate robotic movements to determine feasibility of applications. Other computer simulation packages will be used for automatic storage/retrieval system, wire guided vehicles, work flow with shop, work flow through complete depot overhaul, and machine tool cutting.

Thermal Imaging System. Many areas of the depot have steam lines and traps needing repair or replacement that cannot be identified by the present method of visual inspection. These heat loss areas can be quickly located using a thermal imaging system. This system focuses a thermal image onto a pyro-electric target with infrared lens in a television camera. From this thermal image, the temperature of an object can be

determined with an accuracy of +0.5 degrees centigrade. Applications for this system include identification of faulty integrated chips, steam traps, and uninsulated steam lines. Significant reductions in energy utilization are projected through utilization of the thermal imaging system.

Artificial Intelligence. Expert systems using artificial intelligence will assist in troubleshooting complex systems for the UH-60 Black Hawk and AH-64 Apache helicopters and in the inspection, testing, and evaluation of repairable helicopter components for all aircraft types during the depot maintenance repair cycle. The expert system will be configured to support both depot and field maintenance operations and will consist of appropriate computer equipment and software to simulate a standardized, efficient evaluation procedure. These artificial intelligence based systems will improve the effectiveness of preliminary aircraft inspections by standardizing and expediting analysis required to identify the source and cause of malfunctions and to determine corrective action to be applied.

Laser Paint Stripping. To reduce the high cost of stripping paint from aircraft, CCAD is investigating the low cost, reduced toxicity, and increased stripping speed possible using lasers. The laser paint stripping investigation is being directed toward CO_2 pulsed lasers. This type of laser appears to be the most efficient type of laser and has the proper operating parameters for paint removal. This is because the high power exists only during the pulse. The pulse allows for easy control during high power, which vaporizes paint. The laser penetrates the paint and forms a gaseous layer. This gaseous layer blisters (forms paint bubbles) and pops, thus facilitating removal.

1.3 Letterkenny Army Depot (LEAD), Chambersburg, Pennsylvania

1.3.1 OVERVIEW

HISTORY/MISSION: LEAD was conceived in the hectic pre-war atmosphere of 1941, when America began gearing up for war. Realizing the forthcoming deluge of war material would swamp existing storage facilities, the War Department laid plans for 12 large, new ordnance depots. Letterkenny township, Pennsylvania, was chosen as one site because of its location, close to the major ports of the eastern seaboard, yet far enough inland to make enemy attack unlikely. In addition, the site offered good rail connections and an adequate water supply.

Letterkenny received its first shipment of ammunition on 23 September 1942, less than nine months after construction began. By 1943 the installation had hit full stride. When the war ended in August 1945, Letterkenny had shipped more than 3M tons of ammunition and supplies, and had made maintenance modifications on more than 1,300 tanks.

In 1948 the depot began reworking guns and fire control equipment as well as combat and general purpose vehicles. The installation experienced another surge of activity during the Korean War years, when the work force swelled to 6,500 persons. These years also saw a construction boom at the depot that included a large, new maintenance building. The introduction of missile system repair in the late 1950s continues to provide the depot with growth into the 1990s.

The major missions that have evolved at Letterkenny are maintenance, supply, and ammunition. The maintenance mission provides repair, overhaul, and modification of missile systems, trucks, combat vehicles, detection systems, muzzle velocity radar, and associated sub-assemblies and support equipment. Specific responsibilities include HAWK and PATRIOT missile systems, 2 1/2- and 5-ton trucks, self-propelled and towed howitzers, forward area alert radar (FAAR) detection system, and M90 chronograph muzzle velocity radar. The depot serves as the Center for Technical Excellence (CTX) for artillery and the HAWK and PATRIOT missile systems.

The ammunition mission includes receiving, storing, maintaining, and issuing general supplies and ammunition. Depot ammunition operations include all types of class V items from small arms ammunition to large bombs and missiles. Through a Depot Maintenance Interservice Support Agreement, Letterkenny up-rounds SPARROW and SIDEWINDER missiles and performs wing modifications on Sparrow missiles. Demilitarization of ammunition at LEAD destroys obsolete or hazardous bulk explosives as well as class A, B, and C, ammunition by demolition, burning, or deactivation furnace.

The Defense Depot Maintenance Council (DDMC) directed that LEAD become the consolidated tactical missile maintenance depot for DOD. This is documented in the Joint

Service Business Plan, February 1991, and the DDMC Corporate Business Plan, May 1991. The directed consolidation was also included in the Army's Base Realignment and Closure 1991 (BRAC91) submitted.

The action, which is being implemented under Public Law 101-510, consolidates the tactical missile workload to include guidance and control section repair for all current and future air and ground launched missiles and the ground support equipment to include launchers and radars at LEAD. The current estimate of total direct labor workload transitioning to LEAD is 1,326,400 direct labor hours between 1993 and 1996.

The Directorate of Product Assurance utilizes a radiographic (x-ray) inspection facility that houses a 25 megavolt Betatron x-ray machine. The Betatron unit can x-ray through 20 inches of steel and is used for inspection of large items (i.e., the interior of large rocket motors).

LOCATION: Letterkenny is located in south central Pennsylvania in the Cumberland Valley, approximately 25 miles west of Gettysburg, near Chambersburg, Pennsylvania.

SIZE: Total installation size at LEAD is 19,243 acres of Army owned-in-fee land; 270 acres of which is dedicated to industrial operations. There is a total of 1,866 buildings on the installation of which 64 are dedicated to maintenance. Total maintenance space is 879,288 SF. The maintenance facility value is $26,090,600 and total installation facility is valued at $123,929,500.

WORK FORCE/PAYROLL: Work force and strength at the end of fiscal year 1992 was 2,622. The average number of military personnel assigned to LEAD is 21. LEAD impacts the local economy with an approximate $78.0M payroll.

1.3.2 DEMOGRAPHIC DATA

POPULATION: Of the 3,300 employees (including tenant activities), most live in Franklin County (2,200); 86 are military.

SKILL BASE: The skill level required to perform LEAD's various missions are:

General Schedule Employees:

Administrative	31%
Clerical	35%
Professional	8%
Technical	26%

Wage Grade Employees:

Skilled	58%
Semiskilled	37%
Unskilled	5%

TRANSPORTATION ACCESS: Interstate Route 81 and US Routes 11 and 30 serve the general area and are within five miles of the main entrance to the depot. Letterkenny's location provides highway access to convenient seaports of embarkation at Dundalk Marine Terminal, Baltimore, Maryland (80 miles); Military Ocean Terminal, Bayonne, New Jersey (215 miles), and Naval Weapons Station, Earle, New Jersey (200 miles).

LEAD is served by the Baltimore and Ohio Railway, which is part of the Chessie System. Government track connects with the Chessie System track at the extreme southeast section of the depot. The government performs all internal switching. The Chessie System has a freight station at Culbertson, Pennsylvania, east of the depot along State Route 433. The Railway Express Office for Class A or B ammunition is Harrisburg. Interchange service is provided with ConRail and the Norfolk and Western Railway.

There are more than 50 major truck lines serving the depot. Additionally, the depot has a 100' X 100' helicopter landing pad located north of Coffey Avenue, along Cargo Road. Military fixed wing aircraft and helicopters utilize the Chambersburg Municipal Airport located one mile south of the depot. Letterkenny is close to the Harrisburg (55 miles) and Baltimore (70 miles), and Washington County Regional (25 miles) airports.

ENVIRONMENTAL CONSTRAINTS:

a. Air Pollution Control Act. The Volatile Organic Compound (VOC) Compliance Plan affects LEAD's painting operations by regulating the emission of VOCs from spray painting to 50 tons/year or 500 pound/day maximum, or the depot must use all compliant coatings and/or emission control equipment.

b. Air Pollution Control Act. Permit system requires permits, and in some cases, controls to operate air pollutant sources.

c. Clean Streams Law. National Pollutant Discharge Elimination System (NPDES) permits require a permit to operate the industrial wastewater treatment plant, which limits the amount of certain water pollutants that can be discharged.

d. Solid Waste Management Act/RCRA Part B Permit. Requires a permit for treatment, storage, and disposal of solid and hazardous wastes.

The emissions of VOCs cited above will lessen due to increased use of compliant coatings and installations of ultraviolet light-activated oxygen emission control system. Other constraints will not cease. The current status of the environment at Letterkenny is good.

LOCAL INDUSTRIES:

COMPETITIVE - Normally, LEAD's current employees leave only for better opportunities in other federal agencies. In a few rare instances employees go into business for themselves. As such, LEAD does not have anyone in the local area competing against it.

COMPLEMENTARY - The depot hires individuals from surrounding industries such as Grove Manufacturing, JLG Industries, T.B. Woods, Ingersoll-Rand, Chambersburg Engineering, SKF Industries, Landis Tool Co., Mack Truck and Arnold Industries. No significant hiring has been done within the last five years, and none is anticipated in the near future. Additional complementary industries are outside a 30-mile radius from the depot.

1.3.3 TECHNOLOGICAL ENHANCEMENTS

MANUFACTURING TECHNIQUES/PROCESSES:

Transmission Test Stand

The Hicklin Power Company has installed a transmission test stand at LEAD to meet the test requirements of the M109-HIPXTG-411 crossdrive transmission. The stand is powered by a remotely located diesel engine and generator drive power and dynamic loading of each output by hydrostatic pressure. The control console features a computer for date acquisition and storage. The test stand will provide increased capability, accuracy, and reliability compared to the previous test stand.

Computer Numerical Control (CNC) Computer Aided Design Workstations

Three CNC CAD workstations are scheduled for installation at LEAD. The workstation's major attributes include a 380 megabyte disk subsystem, a 380 megabyte main memory expansion, a paper type disk puncher and reader, an asynchronous multiplexer, and 18 new software packages. These new workstations will increase the industrial capability and efficiency of Letterkenny Army Depot.

CNC/Manual Punch Press With CAD/CAM Interactive Graphics

The CNC/manual punch press provides the capability to punch louvers, extrusions, and round, rectangular and square holes. The TC240 machine is a sheet metal machining center with graphic programming and automatic rotation of a minimum of 10 tools.

CNC Lathe With Power Rotary Tools

The CNC lathe provides the capability of turning, milling, and drilling in one set with the rotating tool turret and contouring spindle. The turret has 12 tool stations, 6 each powered and 6 each stationary. The lathe is equipped with a CNC control unit with Cathode Ray Tube (CRT) defined menu legends that take you step by step through programming and operation functions, along with shop floor program capability.

Electric Discharge Machine (Wire)

The electric discharge machine (EDM) provides the capability to manufacture repair parts of complex shapes and special materials. The EDM performs machining functions that provides for intricate cuts, tight corners, extreme tapers, and simultaneous cutting of work pieces with different geometrical shapes. It interfaces with the depot's CAD/CAM system, which will ultimately reduce direct labor hours, increase productivity, and enhance the quality of depot manufactured parts.

Heat Treating

a. Atmosphere controlled integral quench furnace with endothermic generator provides a wide spectrum of metallurgical processes, i.e., hardening of carbon and tool steel, annealing and normalizing of carbon steel, carburizing, sintering, brazing, and carbon restoration of any manufactured part, 18" X 24" X 36".

The ability to process a load of parts while loading the heat treating system with the next load makes a production line type operation possible.

b. Atmosphere controlled furnace with internal dimensions of 5' X 6' X 6' with a maximum operating temperature of 1800 degrees Fahrenheit. The furnace provides heat treating and stress relieving capabilities for large components during manufacture, repair, and rebuild procedures.

Matsuura CNC Vertical Machining Center

The CNC vertical machining center is capable of performing complicated full four-axis contouring work along with straight-forward drilling, milling, tapping, reaming, and boring. The automatic tool changing system, using a 36-tool magazine, automatically changes the tools preselected by the NC program.

Hillyer CNC Vertical Machining Center

The CNC vertical machining center is capable of performing complicated full

three-axis contouring work along with straight-forward drilling, milling, tapping, reaming, and boring. The automatic tool changing system, using a 24-tool magazine, automatically changes the tools preselected by the NC program.

Jones and Lamson CNC Turning Center

The CNC universal 2-axis lathe, is designed to perform bar feed, chucking, and shaft type work. This turning center is equipped with an 8-station side turret and a 6-station end turret.

Hardinge CNC Superslant 3-Axis Lathe, Bar, and Chucking Machine

The CNC superslant 3-axis lathe, bar, and chucking machine, equipped with a 60 degree slant bed, improves the operator's access and visual control. A rigid 8-station vertical turret simplifies jobs such as turning, facing, boring, threading, and chamfering.

Unique to the 3-axis model is a programmable precision 8-station end working turret with a 72-tooth coupling for 20-millionth-of-an-inch indexing repeatability utilized in center drilling, drilling, reaming, end milling, and tapping.

Warner and Swasey CNC Grinding Machine

The CNC, 2-axis cylindrical step grinder is used for grinding multiple diameters on the same part. The grinder can store up to 10 different grinds in an automatic program. The system can be run in automatic cycle, single cycle, or manual modes.

Jones and Lamson Optical Comparator

This precision measuring instrument makes possible absolute measurement of fabricated parts and tooling vital to NC equipment. It magnifies the object to be measured and projects it onto a 30-inch screen for finite measurement. Using a powerful tungsten halogen light source, measurements down to 50 millionths of an inch can be made. A six-position electrically operated lens selector allows magnification from 10X to 200X.

Eitel Stroke Controlled Press

The stroke controlled press is used to straighten recoil rods and rails of various recoil mechanisms. The recoil rods and rails are positioned between two work holders beneath the straightening ram and a set stroke distance is dialed in by the operator. This stroke distance is determined by measuring the amount of bend in the rod or rail, then applied to the bent item with the straightening ram. Once set,

strokes of the same depth may be repeated as many times as required and with a high degree of accuracy, which prevents overbending.

Pacific CNC 200 Ton Hydraulic Press Brake

The press brake is equipped with a Hurco autobend power press brake gauging system control with digital readout. This control uses a microprocessor, which reduces setup time, improves forming accuracy, reduces material handling, and reduces scrap.

Okamoto Precision CNC Surface Grinding Machine

This is a column type surface grinding machine with a 20" X 120" reciprocating table. The table bed and horizontal spindle are constructed to afford maximum rigidity and constant accuracy down to 80 millionths of an inch. A control unit, Heidenhain Corporation's POS-E-TOUCH II, permits automatic grinding cycles controlling the entire grinding operation such as roughing, finishing, and sizing.

Hardinge CNC Superslant 2-Axis Lathe Bar, and Chucking Machine

The CNC hardinge CNC superslant 2-axis lathe, bar, and chucking machine equipped with a 60-degree slant bed, improves the operator's access and visual control.

Programmable resolution and programmable tool offset capabilities are 10 millionths of an inch (1/4 micron). These extremely close tolerances allow micro-inch finishing without grinding.

A rigid 8-station vertical turret simplifies jobs such as turning, facing, boring, threading, and chamfering.

Installed with an optional programmable tailstock, which includes a live spindle with a number 2 Morse taper center, the tailstock can be programmed to advance or retract during a machining cycle. This eliminates manual movement and saves cycle time in facing, turning, boring, and other machining operations.

Pressure Blast Wet Blasting System

The wet blasting system blasts surfaces of chrome plated hydraulic components to a degree necessary to provide for adherence of lubricating oils. It is a one-of-a-kind system built especially to finish the surface of hydraulic recoil rods. In the wet blasting process, the abrasive is carried by water in the form of a slurry. Water, as the carrying medium, allows the use of extremely fine abrasives with mesh sizes ranging as high as 5,000 and extending as low as 100. Wet blasting

is always conducted in an enclosed cabinet, which permits the abrasive slurry to be continually reclaimed and reused.

Gymnasticator

The mechanical gymnasticator is designed to "break-in" and test various applications of recoil mechanisms associated with field artillery weapons. It has dual function capabilities of either exercising (break-in) or gymnasticating (test of recoil buffer action) and can be operated in both manual or fully automatic modes. The operator selects various programs through the control terminal and the controller program automatically sequences the gymnastication test and prints countercoil data as required.

Engine Test Cell Control

The dynamometer controller is manufactured by Digilog Corporation and features digital readout of speed and load with faster response and increased accuracy. The Digilog controller will be mated to a microprocessor to provide automatic, semi-automatic, or manual control of engine test procedures and data accumulation. This will reduce manhours expended during testing and increase the reliability, accuracy, and repeatability of engine testing operations.

Trumpf CNC Plasma Arc Punch Press

The plasma arc punch press is a 2-Axis NC punching and contouring machine with fully automatic tool change. Punch, stripper, and die are changed within 8 seconds using random select universal 20-stations tool changer. High speed punching and nibbling can be accomplished at speeds of 265 and 400 continuous strokes per minute. A punching capacity of 33 tons provides full punching capacity in material up to 1/2 inch thick and continuous stroke contour nibbling capacity in material up to 3/8 inch thick. The machine is also equipped with hypertherm water injection plasma arc cutting system with automatic torch height control.

Kearny and Trecker CNC Horizontal Machining Center

This CNC machining center is capable of performing complicated full 4-axis contouring work along with straight-forward drilling, milling, tapping, reaming, and boring. The automatic tool changing system, using a 29-tool magazine, automatically changes the tools preselected by the NC program. This machine is capable of 30 feet of X travel, 8 feet of Y travel, and 3 feet of Z travel. A 12' X 18' floor plate and a 360,000-position, 3-axis, 60" X 60" tilting table will give machine a total of 7 axes of capability.

MDI/CNC Universal Milling Machine

The milling machine with the ULTIMATE 2 controller will provide various milling, drilling, and tapping requirements. The controller provides manual computer generated program[illegible] shop prints. The op[illegible] input minimum data into the controller from a shop drawing. The ULTIMATE 2 automatically calculates all additional information needed to program the part. When the program is complete, the controller stores the program on cassette for future use.

CNC Robotic Waterjet System

CNC robotic 5-axis waterjet system will be capable of cutting metallic and non-metallic materials up to 250 inches per minute with a 4' X 8' working envelope. The cutting head will be mounted on a CNC robotic system. The system will be capable of cutting 6-inch-thick mild steel. A sample of materials that could be cut with this system are: nickel and cobalt based alloys, titanium, glass, plastics, marble, granite, kevlar, and every aerospace composite.

Desktop Publishing

The Personal Computer (PC) based desktop publishing (DTP) system runs WordPerfect and Xerox Ventura Publisher software. It interfaces with the CAD system to import illustrations directly into documents. The DTP system imports text and graphic files previously created with all common word processing and drafting software. Hewlett Packard LaserJet printers produce high resolution camera ready output. The DTP system generates a variety of publications in accordance with military standards, customized formats, and computger aided logistic support (CALS) compatible output. Entire publications are provided in hard copy camera ready originals or magnetic media.

Flexible Computer Integrated Manufacturing (FCIM)

The FCIM architecture integrates advanced manufacturing technologies with current systems and provides for compatibility with existing and emerging technologies and standards. FCIM currently consists of CAD/CAM workstations, a drawing scanning system, plotters, and a DNC system (shop floor workstation control). This equipment integration interconnects the planning, engineering, quality, and manufacturing processes. FCIM provides the capability of using part model information in various formats (i.e., drawings, digital data, etc.) and manipulating the data to produce parts at reduced time and cost while increasing quality.

1.4 Red River Army Depot (RRAD), Texarkana, Texas

1.4.1 OVERVIEW

HISTORY/MISSION: Activated on 9 August 1941 as an ordnance depot, RRAD was carved from 116 East Texas farms and ranches in 1941-42. Although originally intended to serve only as an ammunition storage depot, Red River's responsibilities soon expanded to include the maintenance, repair, and overhaul of tanks, artillery pieces, and other heavy weapons. The depot also was assigned a general supply mission in 1943 and it shipped thousands of tons of ordnance materiel during World War II. RRAD was later assigned the general supply distribution mission in 1949 and maintained that roll until the arrival of the Defense Logistics Agency in 1991. RRAD also geared up to support US troops in the Korean War, and in 1951 the depot's employment level increased to an all-time high of 11,500.

The depot retained its prominence in the depot system in the 1950s by pioneering work in logistics. During the Vietnam conflict, the depot responded to increased requirements for maintenance and supply support. Due to its reputation for quality overhaul of combat vehicles, the depot was designated as the rebuild point for the M113 Armored Personnel Carrier family of vehicles in 1977. The mission for repair and overhaul of the Bradley Fighting Vehicle and the Multiple Launch Rocket System was assigned to the depot in 1980.

Red River continues to have major maintenance and ammunition missions focusing attention on repair and overhaul of light and medium tracked vehicles.

LOCATION: RRAD stands at the hub of an area surrounded by the corners of four southwestern states - Arkansas, Oklahoma, Louisiana, and Texas. The depot is located 18 miles west of Texarkana, Texas. (Population 55,000)

SIZE: RRAD occupies 19,081 acres of which 208 acres are devoted to the maintenance mission. Total buildings on the facility are 1,400 with 86 devoted to maintenance operations. Maintenance facilities consist of 825,094 SF out of the facility's total of 7,796078 SF. Total facility value is $159.86M and plant equipment value is $140.8M.

WORK FORCE/PAYROLL: Military personnel, 11; civilian personnel, 3,294. Annual payroll, $123M.

1.4.2 DEMOGRAPHIC DATA

POPULATION: RRAD and its tenant activities employ 44 percent of the local industrial labor force. The majority of the workers commute from cities within a 20-mile radius of the depot.

SKILL BASE: The population base is well educated and provides a range of highly

skilled resources, to include heavy industry, business and management, all engineering specialties, machine tooling, welding skills, and electronic and optic repair skills.

TRANSPORTATION ACCESS: RRAD is supported by one airport, multiple rail and motor freight carriers to include 23 regular route common carriers and 34 specialized commodity carriers, and one east-west interstate highway (I-30).

ENVIRONMENTAL CONDITIONS/CONSTRAINTS:

Environmental Conditions.

The Environmental Management Division is now a part of the Directorate of Industrial Risk Management, which was created effective 1 January 1991. Based on the size and diversity of missions assigned to this installation, the environmental activity has multifaceted environmental challenges to effectively deal with including air, water, wastewater, hazardous waste, and solid waste management. Red River has its own water plant, steam generation plant, sewage and industrial waste treatment facilities, and sanitary landfill.

Water/Wastewater Management.

The existing sewer treatment plant is capable of properly treating the sanitary sewage generated by the depot and Lone Star Ammunition Plant. NDPES permit limitations are easily met. The plant has design capability that allows twice the amount of flow presently being treated.

The Industrial Waste Treatment Plant treats phosphate and heavy metal rinse water from various operations on depot. This is an NPDES permitted facility and also generates RCRA regulated wastewater sludge, which is disposed of as an Environmenal Protection Agency (EPA) F006 waste. Treated rinse waters are released three to four times a week after in-house analytical testing verifies the rinsewaters are below NPDES permit effluent limitations.

RRAD has submitted to the EPA a notice of intent (NOI) to comply with the requirements of the general permit for storm water management. Storm water sampling requirements have been completed. A storm water pollution prevention plan for RRAD is being prepared by Army Environmental Hygiene Agency (AEHA), but implementation, compliance, and maintenance of the plan will be the responsibility of the environmental management staff.

Hazardous Waste Management.

An automated hazardous waste tracking system, developed by Red River environmental and systems analyst personnel, became operational in August 1990. The system tracks

hazardous waste from "cradle-to-grave" and regulatory inspectors are very impressed with the system. Red River's tracking system is the cornerstone for an Army-wide standardized system Department of the Army (DA) is developing for implementation in calendar year 1992.

The depot was issued a ten year RCRA Hazardous Waste Permit by both the Texas Water Commission and EPA in August 1988. A Part B permit application for open burning/open detonation of waste explosives was submitted to both the Texas Water Commission and EPA in November 1988. The regulatory agencies have yet to issue a permit pursuant to this application and RRAD continues operation of this site under interim status.

Red River is actively engaged in hazardous waste minimization (HAZMIN) actions to reduce the volume and toxicity of hazardous waste generation. RRAD is designated as a Center of Technical Excellence (CTX) for the reduction of chlorinated solvents. Water blast equipment that uses non-toxic detergents and hot water under pressure of 150-400 pounds are being used to separate oil and grease from parts being cleaned. A 1,1,1, trichloroethane distillation system was installed in 1991 to remove contaminates and recover 1,1,1, trichloroethane for reuse until water blast equipment could be procured to replace degreaser vats.

Solid Waste Management.

RRAD has two permitted Type I sanitary landfills. One is currently in use and will be closed in late fiscal year 93 the new landfill, permitted 16 November 1989, will begin operation. This landfill will meet the newly promulgated Subtitle D regulations prior to operation and has a life expectancy of 20 - 25 years. The landfill serves RRAD and the Lone Star Ammunition Plant.

Air Quality Management.

RRAD has several air permits from the Texas Air Control Board covering a gamut of air emission sources such as: degreasing, plating, painting, abrasive cleaning, coal/wood natural gas fired boilers, open burning/open detonation of explosives, and propellants. We are currently in the process of completing a comprehensive air emission inventory in order to meet the permitting requirements of the Clean Air Act Amendments of 1990. We successfully negotiated an air permit for the fluidized bed rubber denuding system,which removes rubber from track and road wheels. This process greatly reduced the quantities of chlorinated solvents that were required to perform the operation.

Environmental Summary.

Required reports and certifications are regularly provided to the state regulatory agencies and the EPA, and a good working relationship exists between the agencies and the

environmental staff at RRAD. Regulatory inspectors from these agencies conduct multi-media inspections at the depot at least annually. These inspections have become more in-depth in recent years, and despite the fact RRAD has one of the smallest environmental management organizations within Depot System Command, very few major notices of violations are issued.

LOCAL INDUSTRIES

COMPETITIVE - The following local industries compete for the same skills, resources and transportation as RRAD.

Georgia Pacific Paper Company	3 Large Medical Centers
International Paper Company	Weyerhauser Paper Co
Cooper Tire & Rubber Company	Hotel/Motel/Restaurants
Defense Depot Red Rive (DLA)	Lone Star Ammunition Plant
Federal Correctional Institute	Alumax
Texana Tank Car	Smith Blair
Johnson Controls	

1.4.3 TECHNOLOGICAL ENHANCEMENTS

SIGNIFICANT EXISTING/CURRENT CAPABILITIES -

EQUIPMENT: RRAD uses a large scale mainframe computer (IBM 4381-P13) interconnected to a Local Area Network with over 180 terminal devices in its maintenance shop floor system (MSFS).

SOFTWARE: The MSFS application provides total asset visibility from acquisition of an item to end item completion. This MSFS application modules in support of product production at RRAD include:

Requisition	Inventory
Requisition Suspense	End Item Tracking
Component Tracking	Bench Stock
Test Equipment	Kitting
Work Station Requirement	Administration
Hazardous Waste Tracking	

MANUFACTURING TECHNIQUES/PROCESSES: The draw down in troop strength, along with the Defense Depot Management Council (DDMC) and BRAC initiatives have caused RRAD to take a fresh approach to long term planning. Some earlier initiatives that were in the planning stages fell by the wayside; however, they currently appear to be back on track. Our current plans and investigative efforts include injection molding of road wheel and track; power and inertia simulator; automated diesel engine assembly;

construction of an outdoor laser safe range with required features and equipment for test firing of laser range finders; construction of a centralized modern facility to primarily house machining, forming, cutting, grinding, plating, punching, and metallurgical treating of metals, including preliminary cleaning; and composite material repair.

Some new items and processes have been planned as a result of new products introduced or to meet Occupational Safety and Health Act (OSHA) and EPA requirements. The Are:

Intermediate Forward Test Equipment to support Multiple Launch Rocket System (MLRS), Bradley Fighting Vehicle System (BFVS), possibly Paladin and future weapon systems and support equipment.

The use of computer aided coordinate measuring systems to determine critical hull measurements to be used during conversion programs on light track vehicles. These systems will also support prototype development and other program developments under way and planned by RRAD.

Use of ASCII 5 x 7 dot matrix stamps to identify ordnance material to aid in planning and scheduling of production.

Use of electroless nickel in lieu of chrome plating on selected items.

Use of zinc plating in lieu of cadmium plating on selected items.

Process logic controller to automate track and road wheel rebuild operations.

Fluidized Bed Denuding System

RRAD has the only CONUS road wheel and track rebuild facility operated by DOD. RRAD supports the road wheel and track block requirements for all of DOD, not just the Army. RRAD Production Engineering Division and Rubber Products Division personnel have developed and initiated a production improvement and modernization program. This five year modernization program addresses work place safety, environmental improvements, quality improvements, increased productivity, and cost reductions. The modernization program includes the installation of a fluidized bed rubber denuding system to strip rubber from metal parts.

The fluidized bed system (FBS) represents an investment of over $3M. AMC and DESCOM provided quidance and support after evaluating the FBS as environmentally necessary, technically feasible, and economically justified.

FBS rubber removal, or denuding, is a process in which road wheels or track blocks are submerged in a fluidized bed heating tank at an appropriate temperature, and for an appropriate time period, to totally pyrolyze the rubber material. To pyrolyze means all

organic components or the rubber are converted to gases, which are then removed and burned in a secondary combustion chamber. The air steam is cleaned before being exhausted to the atmosphere. After rubber removal is complete, the road wheels or track [illegible] transported to a water quench tank for cooling and then to an unloading station. The hot FBS tanks are totally enclosed with the operators remotely located in a control room. The heating, cooling, ventilation/pollution control, and material handling systems are all automated and computer controlled.

Implementation of the FBS system of denuding is a major factor in achieving the Rubber Products Modernization program objectives that include a 50 percent reduction in hazardous waste, a 29 percent reduction of volatile organic compounds emitted to the atmosphere, and a 38 percent reduction in utility costs. This system will enable RRAD to reach the highest competitive level in road wheel and track remanufacturing with the capability to rebuild all configurations of road wheels and track in quantities required to support all DOD activities.

Red River Army Depot Investment Strategy/Modernization Program.

The DDMC, Corporate Business Plan - Army, outlines the future strategies that each depot shall pursue in attaining the target savings while maintaining a responsive depot maintenance capability in support of mission requirements.

Under this plan, RRAD will be postured as the light combat vehicle CTX and depot maintenance facility for the Army. Included are armored personnel carriers, assault vehicles, air defense weapon systems carriers, land combat missile system platforms, (where system integration requirements demand repair/overhaul of the platforms at RRAD), light tracked anti-tank and communications station carriers, and towed and self-propelled artillery. Inherent in the repair/modification for assigned systems is the associated repair of engines and other secondary items. The theater readiness monitoring facility for the HAWK and PATRIOT missile systems will be retained at RRAD.

Capability in the light track area has been established for many years and RRAD has constantly been in pursuit of the latest technological advancements to upgrade and maintain the current level of support. With the decision to send artillery to RRAD, some new priorities were established. The final planning documents have not been laid in place but preparations to acquire full support have already begun.

RRAD has made a commitment to invest in facilities required to enhance this new phase of its mission. Some of these facilities include an upgraded area capable of working tritium, an upgraded hydraulics area capable of maintaining the requirements for artillery, developing a functional firing simulator facility and developing a firing range capable of handling artillery firings.

The equipment required to support the mission has been identified; however, there are

many logistics problems associated with acquiring this depot maintenance plant equipment (DMPE). The funding will be identified and split between Defense Business Operations Fund (DBOF) and BRAC 91 funds (exactly how has not been determined). Some DPME will be transferred from other sources within DOD.

Included in future investment programs is the FCIM PProgram. This program is now beginning to gain influence at RRAD. The total parameters of the program have not been determined at this time; however, investigation into its feasibility at RRAD has begun. RRAD has, for planning purposes, defined a requirement for $1M of funding to do the design phase prior to implementation. In the implementation phase it is envisioned there will be a requirement for an additional $9.9M. This will allow for the implementation and compliance with the following initiatives; (1) Computer Aided Acquisition, Logistics and Support (CALS), (2) Equipment Data Management and Information Control System (EDMICS), and (3) RAMP.

Individuals visiting RRAD, that have been here in the past, will surely recognize a major effort to give the depot a facelift. Those that have never been at RRAD will see a depot dedicated to beauty and professionally kept.

All of the structures on RRAD have been or are in the process of being painted. The front gate area has undergone a beautification project which has greatly enhanced the depot image. Streets and sidewalks, that have long ago needed repairs, have been repaired. The old World War II wooden barrack type structures have been demolished which has greatly enhanced the beauty and professional image of the depot. This is but another phase of RRAD's investment strategy. With competition a by-word in the Army community RRAD has committed to increase the moral of the work force by instilling pride in the depot and to gain a long range savings, by spending dollars that will stop unnecessary repairs down the road. As a result of this initiative, RRAD is fast becoming a show place within the DESCOM community.

Red River Army Depot has won the DESCOM Communities of Excellence award for the past two years. Currently, RRAD is one of two finalist in the Army Communities of Excellence competition.

1.5 Tobyhanna Army Depot (TOAD), Tobyhanna, Pennsylvania

1.5.1 OVERVIEW

HISTORY/MISSION: The history of Tobyhanna began in 1913, when it was activated as the Tobyhanna Military Reservation and used as an Army and National Guard field artillery training site. During World War I, it became an ambulance and tank training center. Tobyhanna was deactivated after the war. In 1938, West Point cadets began using it for field artillery training. After the outbreak of World War II, Tobyhanna became an Army Air Corps training center and was also used as a prisoner of war camp. After World War II, it became idle and remained so until April 1953, when it reopened as the Tobyhanna Signal Depot. It became Tobyhanna Army Depot when it joined the Army Materiel Command and was given expanded responsibilities. Tobyhanna became part of DESCOM when that command was organized in 1976. Tobyhanna Army Depot currently is scheduled to acquire from Lexington-Blue Grass Army Depot its Communications-Electronics and Communications-Security (COMSEC) workload. As a result of announced base closures, Sacramento Army Depot's mission may also be transferred to Tobyhanna Army Depot.

GENERAL MISSION RESPONSIBILITIES: Tobyhanna Army Depot provides for the receipt, storage, maintenance, issue, and disposal of assigned commodities. All of the organizations are integral members of a highly motivated team that meets the challenges of changing technology, force modernization, and special mission requirements. Mission functions are in support of the Army, other military services, government agencies and allies.

TOAD is a Communications-Electronics Maintenance and Supply Depot. Its mission includes: the receipt, storage, assembly, disassembly, care and preservation, and shipment of materiel as directed by commodity managers; overhaul, rebuild modification, conversion, repair, manufacturing and fabrication of assigned commodities; "quick reaction" fabrication support for the US Armed Forces and other government agencies; operation of an automatic test and diagnostic equipment programming facility; and mobile maintenance support for the automatic digital network (AUTODIN) facilities in CONUS and overseas. The depot possesses a antenna pattern range, which supports the Army, Navy, Air Force, and Marine Corps radar requirements. As part of its mission the depot also procures transportation and provides storage and related services for movement of DOD household goods of military and civilian personnel in designated areas of Pennsylvania and New Jersey, conducts training for military personnel, and provides support maintenance to satellite organizations and tenant activities. Tobyhanna Army Depot is a HQ DESCOM designated CTX for communications-electronics equipment. The depot also has a new reserve training center, one of two in the Army, designated as high tech regional training sites/maintenance. It is responsible for US Army reserves (USAR) and National Guard units east of the Mississippi River.

LOCATION: The depot is situated in the northeast region of Pennsylvania in the Pocono Mountains. It is approximately 90 miles east of New York City, 100 miles north of Philadelphia, 22 miles south of the city of Scranton, 15 miles northwest of Stroudsburg, and 1.5 miles north of the borough of Mount Pocono.

SIZE: TOAD's total installation occupies a total of 1,293 acres, of which 398 acres are in the industrial area. There are 141 buildings (11 maintenance) with an estimated replacement value of $655.5M The maintenance facility value is $14.1M. These buildings house $132.5M of industrial machinery and equipment.

WORK FORCE/PAYROLL: Overall employment at the close of FY91 included 3,510 depot civilian employees, 387 civilians employed by the tenant activities, 78 non-appropriated fund (NAF) workers, 2 Army interns, and 30 military personnel for a total of 3,977. Payroll for FY91 was $107.3M.

1.5.2 DEMOGRAPHIC DATA

POPULATION: The work force population at the depot comes from nine surrounding counties: 42 percent from Lackawanna County, 31 percent from Luzerne County, 14 percent from Monroe County, 6 percent from Wayne County, and a combined 7 percent from Carbon, Wyoming, Susquehanna, Schuylkill, Pike, and Northampton counties.

SKILL BASE: This depot is located in a predominately resort area. Approximately 65 percent of initially hired personnel are semi-skilled, and most have military or technical school training. A permanent classroom training program provides state-of-the-art electronics training to maintain a viable, qualified work force. At any given time, TOAD has approximately 25 percent semi-skilled, 40 percent skilled, 10 percent highly skilled, 20 percent professional, and the remaining 5 percent are unskilled laborers.

TRANSPORTATION ACCESS: An intercontinental trucking activity, Consolidated Freightways, has a major terminal 5 miles south of the depot with immediate access to Interstates 80, 81, and 380. Also, there are additional trucking companies within a 20-mile radius that provide long haul services.

Military airlift facilities are available at McGuire AFB, New Jersey, and Dover AFB, Delaware, which are within 200 miles of the depot. Two major airports, Wilkes-Barre/Scranton and Allentown-Bethlehem-Easton, can accommodate jet aircraft and are located 22 and 50 miles, respectively, from the depot. In addition, Mount Pocono Airport can accommodate a variety of fixed- and rotary-wing Army aircraft.

Water transportation for heavy freight shipments overseas is available within 120 miles at the Military Ocean Terminal, Bayonne, New Jersey.

ENVIRONMENTAL CONSTRAINTS: Change in operations due to environmental regulations are numerous. Hazardous Wastes (HW) are strictly regulated in accordance with RCRA and Superfund Reauthorization Act (SARA). This has created over 100 jobs in HW handling and mandatory annual training requirements plus associated record-keeping requirements to satisfy state and federal environmental inspectors. There has been a complex on-going training program in respect to environmental and hazardous waste handling. The Depot Environmental Office and Directorate of Information Management (DOIM) have developed a data base to determine who is required to be trained and who has received training.

Located in the Pocono mountains, the depot is in a natural environment setting surrounded by a state park and a wildlife refuge. In the past decade the surrounding area has experienced a population growth, with new homes and small businesses as people move in from metropolitan areas. Resorts and tourist attractions are within a 30-mile radius and offer all year-round activities. At 2,000 feet elevation, the seasonal mean temperatures are 40 degrees Fahrenheit during spring, and 71 degrees Fahrenheit during summer.

LOCAL INDUSTRIES:

COMPETITIVE -

Allied Bendix Corporation
Loral Inc
Grumman Aerospace Corp., Electronics Division

COMPLEMENTARY -

Nivert Metal
Allentown Valve & Fitting
The Bittenbender Company
Pennsylvania State University
Scranton University

1.5.3 TECHNOLOGICAL ENHANCEMENTS

MANUFACTURING TECHNIQUES/ PROCESSES: The latest state-of-the-art computer aided engineering (CAE) system is being upgraded and integrated into our design/manufacturing environment. It is used for mechanical, electronic and printed circuit board design. It has the capability to perform finite element analysis and circuit card simulation to prove out the design prior to manufacture. It will be networked to the shop floor system for ordering material, automatic storage and retrieval system (ASRS) for repositioning parts, and finally to the automated test systems for inspection and test.

The depot is affiliated with the Commonwealth of Pennsylvania Department of Commerce Program designated the Ben Franklin Partnership. This entity fosters cooperative projects between industry and universities to improve productivity through application of modern technology. Hi-tech projects identified [illegible] Partnership include Surface Mount Testing and Repair, Applications for Composite Materials, Artificial Intelligence, and Reverse Engineering to Avoid Sole Source Contracting. The application of any of these proposed projects using the latest state-of-the-art equipment, materials, and procedures will increase the efficiency and effectiveness of the depot.

REPAIR TECHNIQUES/PROCESSES/FACILITIES:

In cooperation with the Navy, a project for the laser robotic welding of equipment racks is nearing completion. Design of the system has been completed and the prototype developed. Pennsylvania State University is the prime contractor. Another joint project just starting is with the Air Force for the solder/desolder of electronic components. This project will be to develop a system to semi-automatically repair printed wiring board assemblies with surface mount devices. It will be modular with stations to identify the type of conformal coating, remove the conformal coating, desolder the surface mounted device, re-insert a new component, solder the component to the board and re-apply the conformal coating.

Depot Modernization Plan. Some of the additions and modifications to depot facilities planned to enable simultaneous improvement in all phases of operation and to update the depot's image are listed below:

Satellite Communications (SATCOM) Mission Facility - a permanent secure building of 52,500 SF at a cost of approximately $6.2M in FY92, to provide a consolidated, self-contained, secure facility for prototype fabrication, staging, repair, and overhaul of satellite communications systems and equipment.

Shelter/Van Repair Facility - a permanent enclosure of 91,200 SF at a cost of approximately $8M in FY94, to provide a centralized area for the disassembly and assembly of large communications-electronics shelters and vans.

Industrial Operations Facility - a permanent enclosure scheduled for FY96 to provide a centralized area for the cleaning, preparation, and painting of large communication-electronics shelters and vans before movement into electronic repair areas.

Communications Security (COMSEC) Facility - a permanent secure building of 160,000 SF at a cost of $13.2M in FY91, to repair, package, ship, and store COMSEC material.

ARMY DEPOT

MAINTENANCE

BRIEFING TO THE DOD

DEPOT MAINTENANCE TASK FORCE

3 FEBRUARY 1994

ARMY DEPOT MAINTENANCE

OVERVIEW

- WHAT IS DEPOT MAINTENANCE?
- WHAT IS OUR DEPOT MAINTENANCE REQUIREMENT?
- HOW DO WE DETERMINE OUR REQUIREMENT?
- HOW DO WE SELECT OUR SOURCE OF REPAIR?
- WHO PERFORMS DEPOT MAINTENANCE?
- RELATED TOPICS
  - A DECADE OF CHANGE
  - PARTNERSHIP WITH INDUSTRY
  - ISSUES FACING THE ARMY
  - COMMENTS ON THIS STUDY

A DEFINITION

WHAT IS DEPOT MAINTENANCE?

DEFINITION

☑ OVERHAUL OF END ITEMS & COMPONENTS

RESTORATION TO COMPLETELY SERVICEABLE CONDITION. ITEM IS DISASSEMBLED AND ALL PARTS ARE REPAIRED OR REPLACED TO MEET SPECIFIED STANDARDS

OFFSHO

IRON - INSP T & REPAIR ON AS NECESSARY. LY OUT-OF-SP PARTS, NOT L, ARE REPLAC D.

☑ SUPPORT TO LOWER LEVELS OF MAINTENANCE:

- TECHNICAL EXPERTISE - FORWARD, ON-SITE SUPPORT
- MAINTENANCE OVERFLOW
- TRAINING

☑ MODIFICATION/MODERNIZATION/MINOR ALTERATION

☑ SPECIAL INSPECTIONS

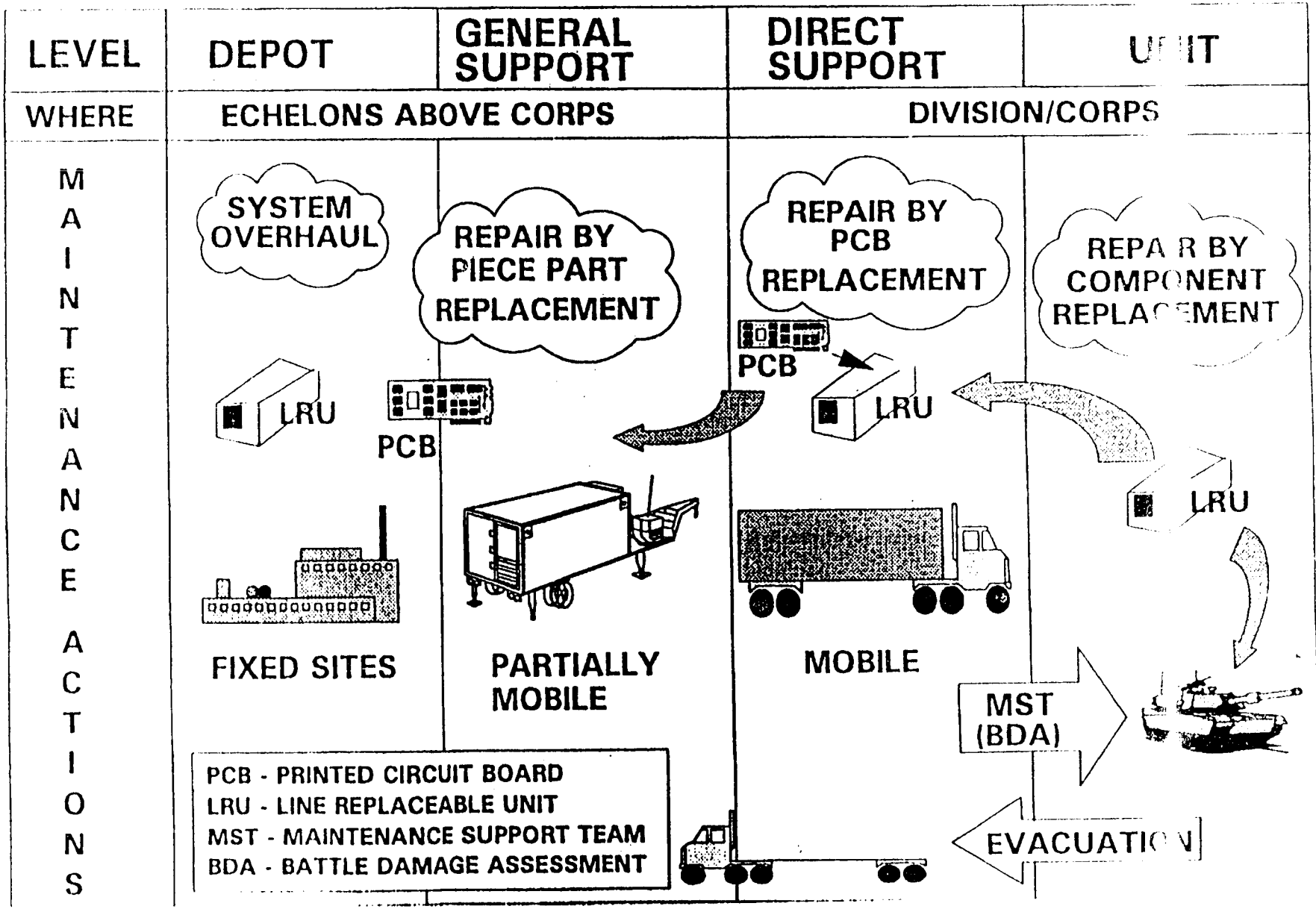
☑ NONDESTRUCTIVE TESTING OF REMOVED USED PARTS

☑ MANUFACTURE OF PARTS/ITEMS NOT IN THE SUPPLY SYSTEM

RELATIONSHIP TO OTHER LEVELS

MAIN2

ARMY MAINTENANCE



HOW DEPOT MAINTENANCE FITS INTO THE ARMY MAINTENANCE SYSTEM

SUMMARY

UNIT:
- QUICK FIX/RETURN
- REPLACE
- MINOR REPAIR, ADJUST, LUBRICATE

DIRECT SUPPORT:
- REPAIR MINOR COMPONENTS, REPLACE MAJOR COMPONENTS
- REPAIR AND RETURN TO USER
- MOBILE FORWARD SUPPORT MAINTENANCE TEAMS

GENERAL SUPPORT:
- COMPONENT REPAIR
- BACKUP DIRECT SUPPOR
- THEATER ORIENTED
- SEMI-MOBILE
- REPAIR FOR THEATER SUPPLY SYSTEM

DEPOT:
- OVERHAUL
- FIXED PLANTS
- REPAIR FOR ARMY SUPPLY SYSTEM

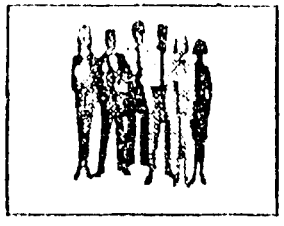
THE FUTURE

MAIN3

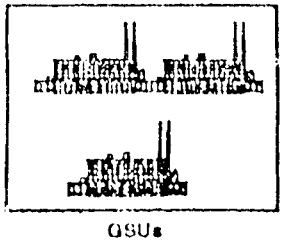
INTEGRATED SUSTAINMENT MAINTENANCE

NOW

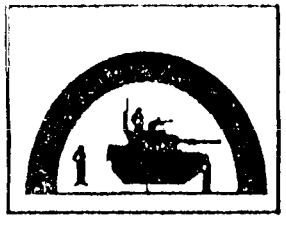
CONTRACTORS



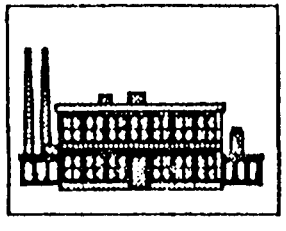
DOLS



GSUs



DEPOTS



INDIVIDUAL WEAPON SYSTEMS

> 100 INSTALLATIONS ARMYWIDE
(39 PRIMARY DOLs IN CONUS)

(LIKE INDIVIDUAL BUSINESSES)

ABOVE CORPS

ORGANIC VS CONTRACT

DESCOM MSCs

NATIONAL MAINTENANCE CONTRACTS

DETERMINE SOURCE DEPOT REPAIR

FUTURE

CENTRAL INTEGRATED WORKLOADING

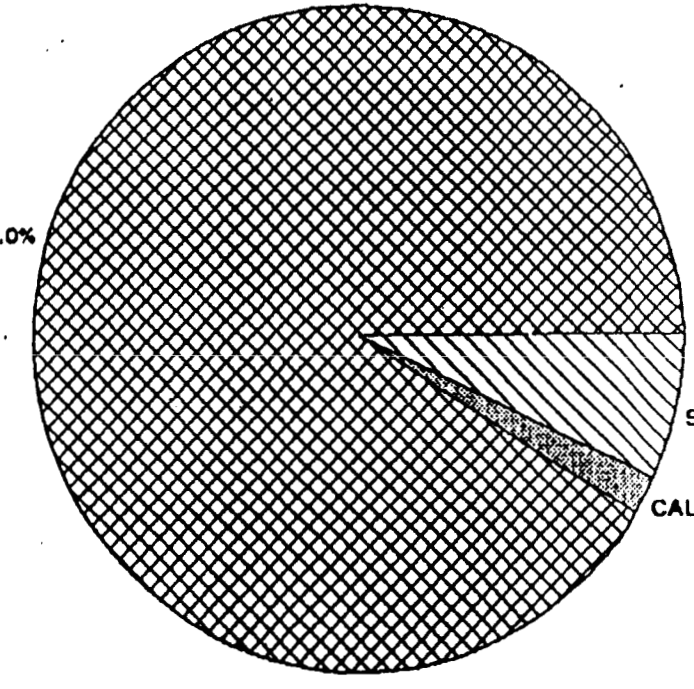
AFFORDABLE/EFFICIENT
SUSTAINING BASE
PEACE & WAR

GOAL: ISM - MAXIMIZE REPAIR CAPABILITY ABOVE DIRECT SUPPORT

DEPOT MAINTENANCE IS HARDWARE, SOFTWARE AND SUPPORT SERVICES

CATEGORIES BY $'s:

FY93 DEPOT
MAINTENANCE PROGRAM
TOTAL $1520M



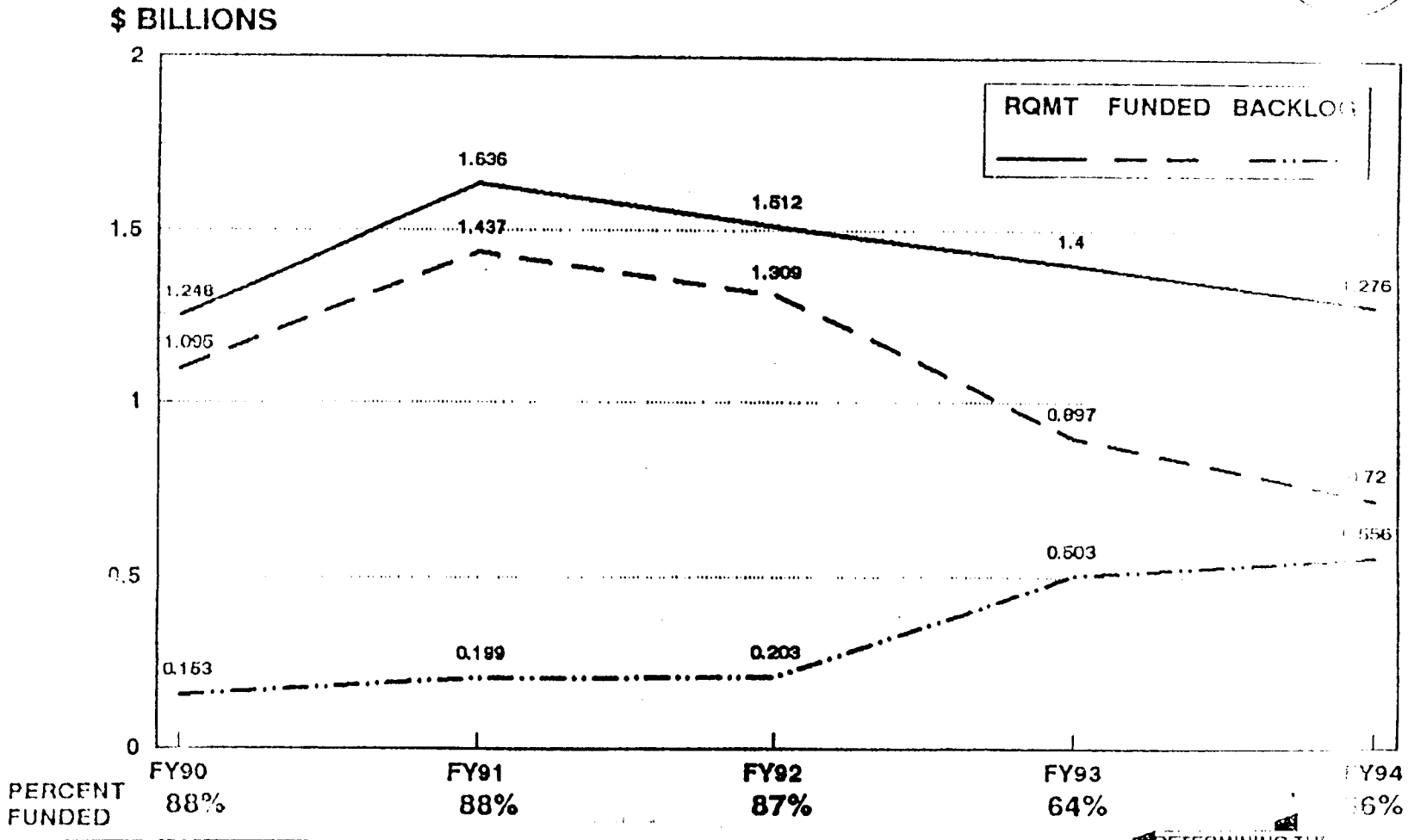
DEPOT MAINTENANCE IS 91% HARDWARE

MAGNITUDE

BACKLOG PREVENTS EARLY DISTRIBUTION OF WEAPONS TO FOLLOW-ON UNITS AND RESERVES

WHAT IS OUR REQUIREMENT? - MAJOR ITEMS -

BACKLOG EXAMPLES
88 BRADLEYS
2150 MLRS PODS
3 M198
34 BLACKHAWKS
22 TANK RECOV



SOURCE: PRESIDENT'S BUDGET, FY90 - FY94

DETERMINING THE REQUIREMENT

MIKE

HOW DO WE DETERMINE OUR REQUIREMENT?

- FOR END ITEMS:
  - INSPECTORS IDENTIFY CANDIDATES FOR OVERHAUL (AIRCRAFT, COMBAT VEHICLES).
  - MATERIEL MANAGERS IDENTIFY REQUIRED CONVERSIONS AND MODIFICATIONS BASED UPON FIELDING SCHEDULES
  - MATERIEL MANAGERS FORECAST REQUIREMENTS FOR UPGRADES BASED UPON DIRECTED REDISTRIBUTIONS TO SATISFY FORCE STRUCTURE CHANGES.
- FOR END ITEMS AND COMPONENTS:
  - MATERIEL MANAGERS FORECAST ADDITIONAL REQUIREMENTS (E.G., CRASH DAMAGE) BASED UPON PROJECTED UTILIZATION, FAILURE RATES, PAST DEMANDS.
- FOR SOFTWARE MAINTENANCE:
  - MATERIEL MANAGERS IDENTIFY SOFTWARE DEFICIENCIES. THEY OBTAIN CONFIGURATION CONTROL BOARD APPROVAL FOR CORRECTIVE ACTIONS BEFORE INCLUDING IN DEPOT MAINTENANCE REQUIREMENTS.

SOURCE OF REPAIR DECISION

MAIN7

HOW DO WE DETERMINE OUR SOURCE OF REPAIR?

PREVIOUS METHODOLOGY:

- IN EARLY SYSTEM DEVELOPMENT, PROGRAM MANAGER SELECTS TYPE OF LOGISTICS SUPPORT. OPTIONS INCLUDE:
  - ORGANIC
  - LIFE CYCLE CONTRACTOR
  - INTERIM CONTRACTOR
- DECISION IS BASED ON NUMEROUS FACTORS, INCLUDING:
  - COST OF SETTING UP MAINTENANCE.
  - SYSTEM DENSITY, LOCATION, AND PLANNED USE.
  - DESIGN STABILITY

- SUBJECTIVE
- NO DIRECT ANALYTICAL LINK TO WARFIGHTING

- IF ORGANIC SUPPORT, SUBSEQUENT INTERSERVICE ANALYSIS DETERMINES SOURCE OF REPAIR.
  - ARMY DEPOT
  - OTHER SERVICE DEPOT

- ACQUISITION MANAGERS PLAYED THE KEY ROLE.
- 700 MISSION-ESSENTIAL SYSTEMS REPAIRED IN ORGANIC DEPOTS.

NEW METHODOLOGY

WDEPOT24

CORE - NEW METHODOLOGY

AN ANALYTICAL TOOL -- PROVIDES DIRECT LINK TO WARFIGHTING REQUIREMENT... MINIMIZES RISK TO COMBAT COMMANDER... DEFINES PUBLIC-PRIVATE WORKLOAD

FOR 45 CRITICAL ITEMS

STEP 1

DPG → REGIONAL CONFLICTS → DEPLOYED UNITS → DEPLOYED EQUIPMENT (PORTION OF TOTAL INVENTORY)

STEP 2

DEPLOYED EQUIPMENT X FACTORS
- COMBAT DAMAGE
- USAGE
- ENVIRONMENT

= WARTIME DAMAGE REPAIR

STEP 3

WARTIME DAMAGE REPAIR X ACTUAL REPAIR TIMES = WARTIME REQUIREMENT

STEP 4

WARTIME REQUIREMENT − SURGE CAPABILITY + OR − ECONOMIC ADJUSTMENTS = CORE

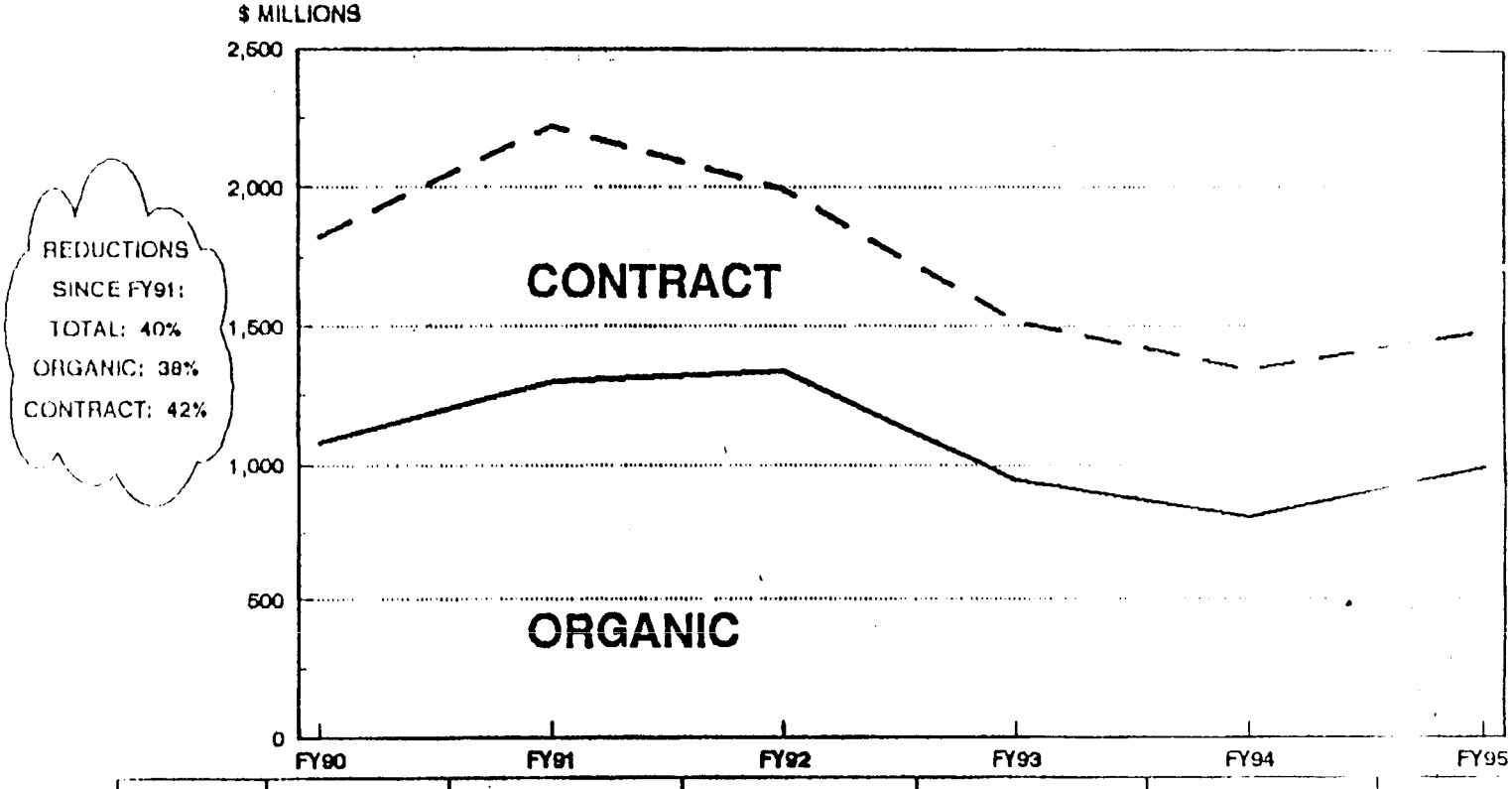
STEP 5

TOTAL REQUIREMENT − CORE = PRIVATE SECTOR WORKLOAD

WHO DOES THE WORK

MAINTY

WORKLOAD ALLOCATION
MAJOR ITEMS AND COMPONENTS



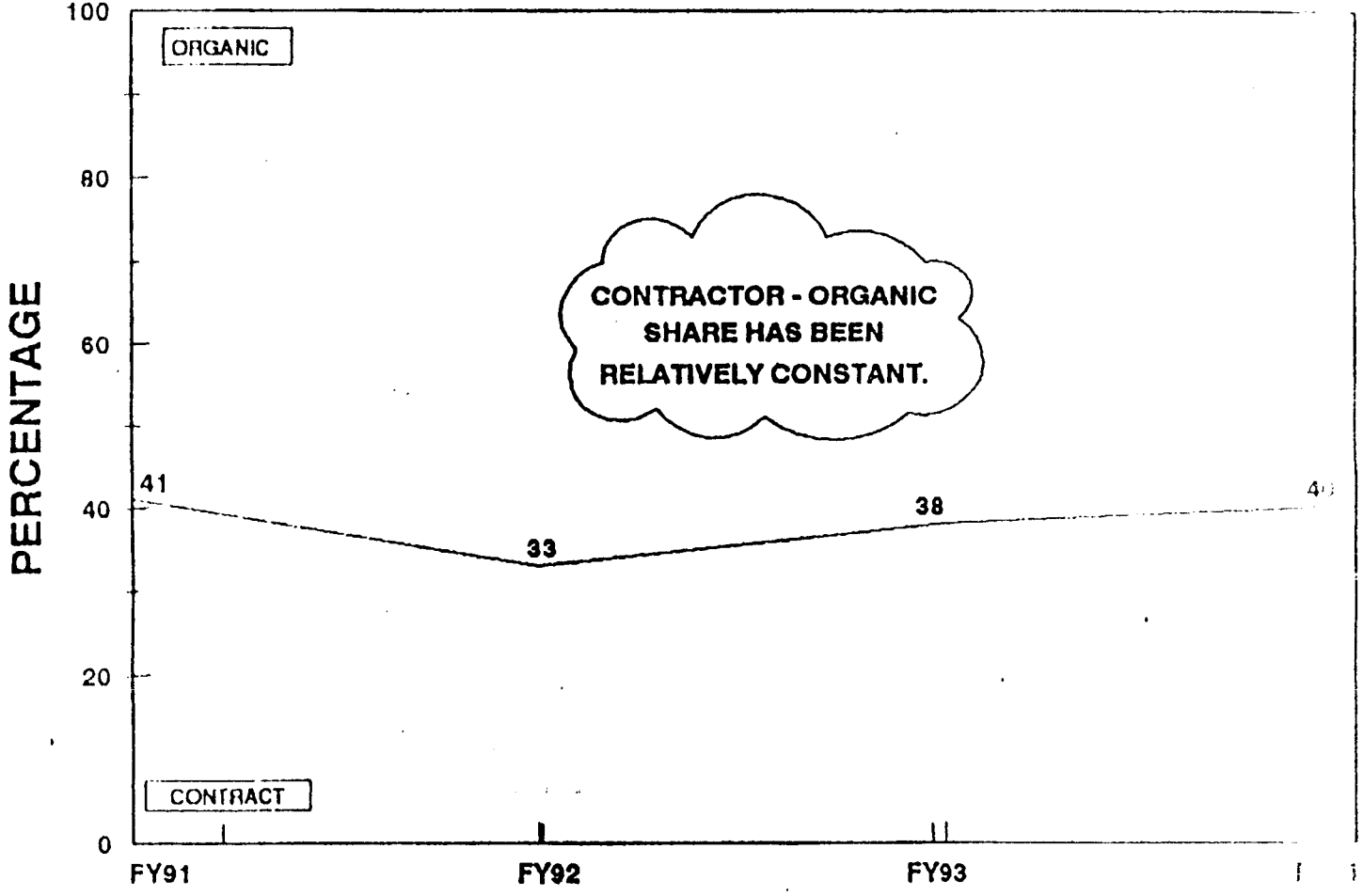
	FY90	FY91	FY92	FY93	FY94	FY95
TOTAL	1829	2225	1995	1520	1343	1486
CONTR	742	923	657	574	537	495
ORG	1087	1302	1338	946	806	991

PERCENT SHARES

MAIN16

CONTRACT - ORGANIC SHARE

FISCAL YEARS 1991 - 1994

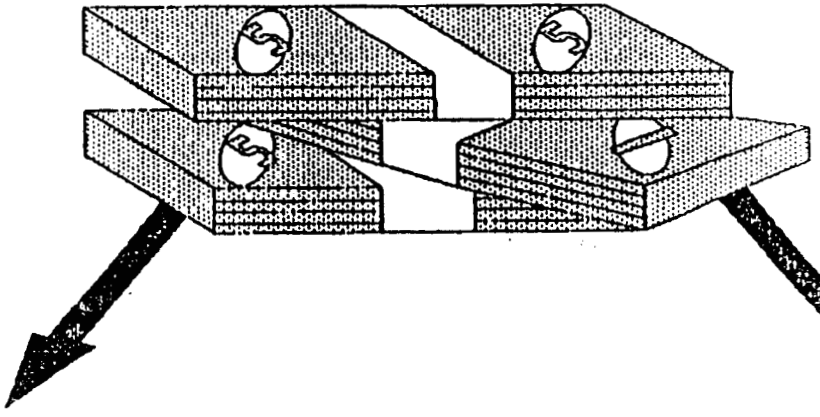


PROGRAM TOTAL VALUE	$2.2B	$2.0B	$1.5B	$1.3B

HOW THE $ ARE SPENT

MAIN22

HOW THE DOLLAR IS REALLY SPENT



61 ¢ TO DOD DEPOTS

42 ¢ DEPOT

13 ¢ PARTS
6 ¢ SUBCONTRACTING

19 ¢ TO PRIVATE INDUSTRY

39 ¢ TO MAINTENANCE CONTRACTS

EVERY DOLLAR BRINGS 58 ¢ TO PRIVATE INDUSTRY

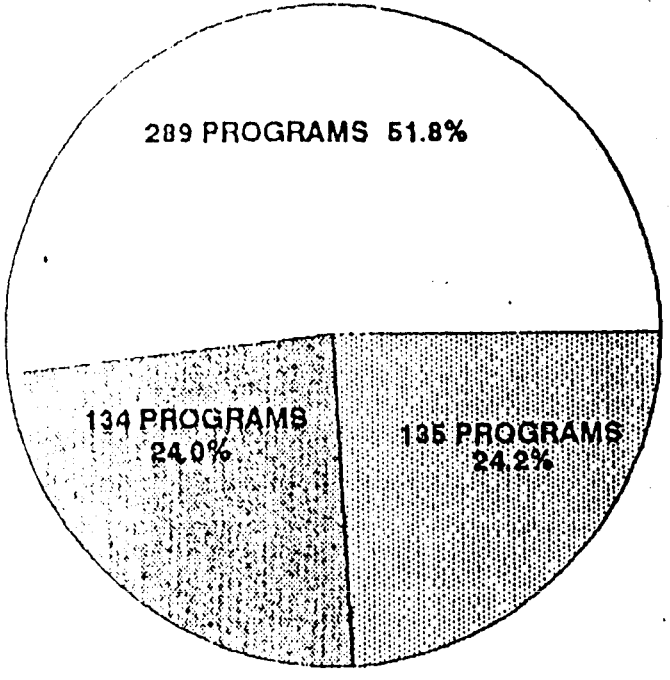
SOURCE: AVG OF FY90-93 EXPENDITURES

PROGRAM PROFILE

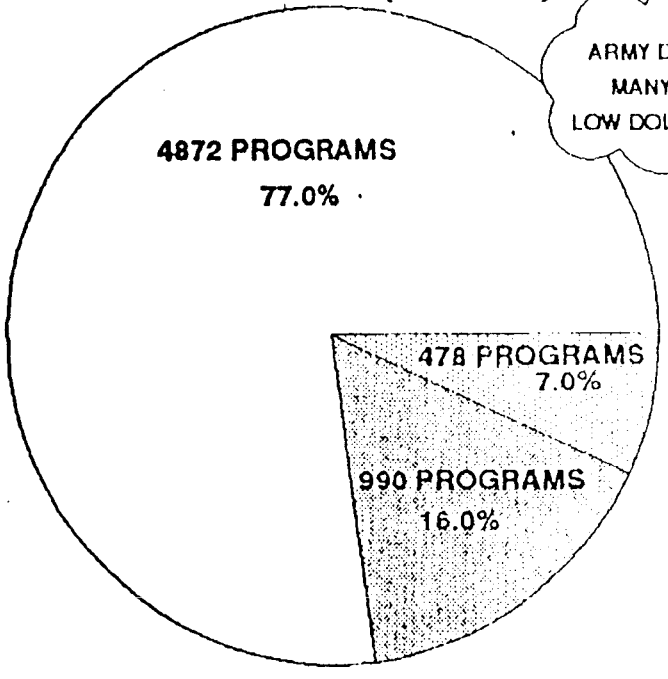
MAINTS

MAINTENANCE PROGRAMS BY VALUE
FY93

CONTRACT ($574M)



ORGANIC ($946M)



ARMY DEPOTS REPAIR
MANY DIVERSIFIED
LOW DOLLAR PROGRAMS

LESS THAN $100K | $100K TO $500K | OVER $500K

TOTAL CONTRACTS - 558

TOTAL ORGANIC PROGRAMS - 6340

DEPOTS

MAIN20

THE ORGANIC BASE

ARMY MAINTENANCE DEPOTS

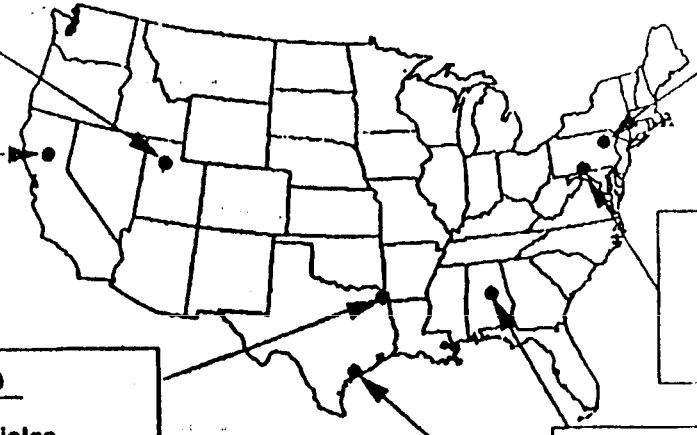
Downsizing

From 10 Depots in 1988
to 5 depots post-BRAC 1993

Tooele AD
Tactical Wheeled Vehicles
BRAC 93

Sacramento AD
Communication and Electronics Equipment
BRAC 91

Tobyhanna AD
- Communication and Electronics Equipment
- AVIONICS



Letterkenny AD
Artillery
DOD Tactical Missiles
Fire Control Systems

Red River AD
- LT Combat Vehicles
- Automotive Components

Corpus Christi AD
Helicopters

Anniston AD
Combat Vehicles
Small Arms

ORGANIZED AS COMMODITY REPAIR CENTERS - CENTERS OF TECHNICAL EXCELLENCE

DEPOT SYSTEM PROFILE

MAIN11

DEPOT PROFILE

ARMY MAINTENANCE DEPOT SYSTEM - ALL MISSIONS

5 DEPOTS
55,035 ACRES
5,467 BUILDINGS
31 MILLION SQUARE FEET COVERED FLOOR SPACE
19,014 PEOPLE (WITH TENANTS)

DEPOTS ARE LARGE, MULTIFUNCTIONAL COMPLEXES

MISSIONS

MAINTENANCE
AMMUNITION STORAGE & RENOVATION
CHEMICAL DEMILITARIZATION
FIRING/TEST RANGE OPERATION
HOST TO:
- SUPPLY STORAGE & DISTRIBUTION
- MILITARY & CIVILIAN TRAINING SCHOOLS
- HEADQUARTERS ACTIVITIES

EXAMPLE: ANNISTON

ALL	MAINT ONLY
2013 BUILDINGS	96 BUILDINGS
24 SQUARE MILES	0.5 SQUARE MILES
3965 PEOPLE	2586 PEOPLE

MAINTENANCE ONLY

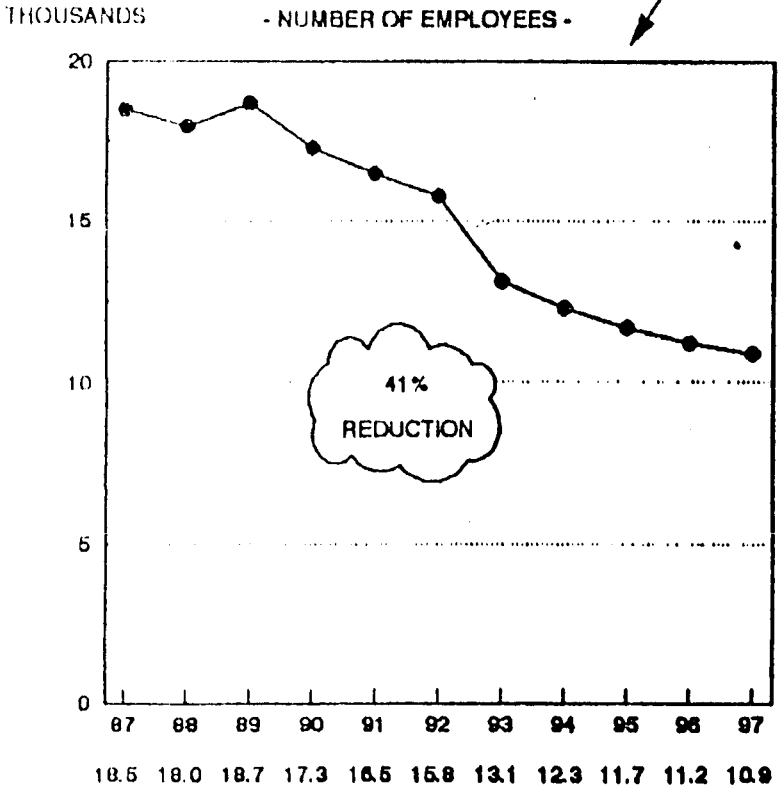
281 BUILDINGS	5%
5.7 MILLION SQUARE FEET COVERED FLOOR SPACE	18%
11,139 PEOPLE	59%

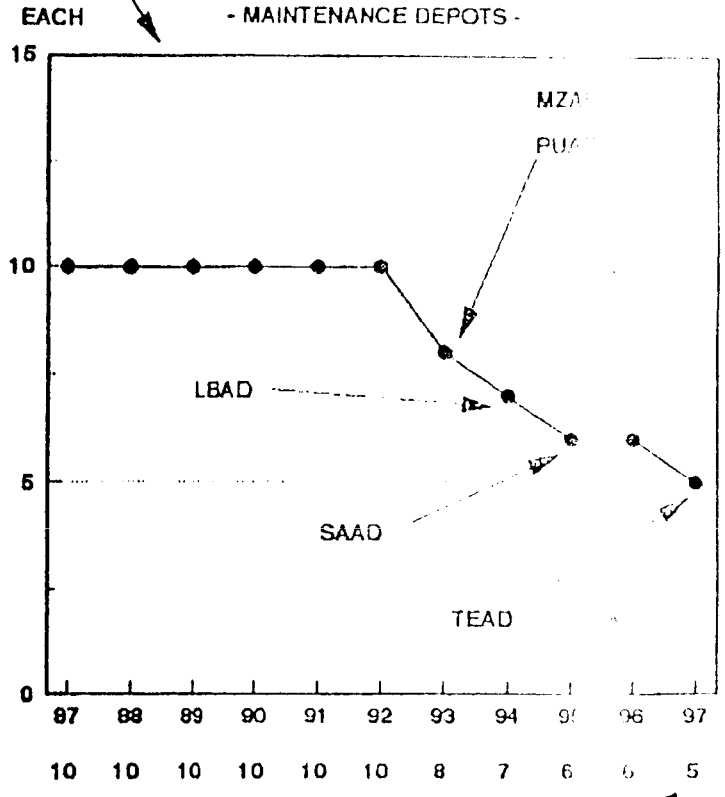
HOW WE CHANGED

MAIN25

DECADE OF CHANGE
ARMY MAINTENANCE DEPOTS 1987 - 1997

SIGNIFICANT DOWNSIZING





WHERE WE SHOULD GO

MAINT

PARTNERSHIP WITH INDUSTRY... WORKING AS A TEAM MAXIMIZES BENEFITS

- UNITED DEFENSE - LETTERKENNY PARTNERSHIP
  - CONVERT M109A2/A3 TO M109A6 PALADIN.
  - LETTERKENNY DISASSEMBLES, OVERHAULS.
  - FMC BUILDS NEW CAB, ASSEMBLES AT THE GOVERNMENT DEPOT.
  - 824 CONVERSIONS 1992 - 1999. $334M TO FMC, $227M TO LEAD.
- GENERAL DYNAMICS LAND SYSTEMS - ANNISTON PARTNERSHIP
  - UPGRADE M1 ABRAMS TANK TO M1A2.
  - ANNISTON DISASSEMBLES, OVERHAULS.
  - GENERAL DYNAMICS AND SUBCONTRACTORS BUILD NEW TURRET, ASSEMBLE.
  - 1079 CONVERSIONS 1992 - 2003. $5.8B VALUE-- $5B TO GENERAL DYNAMICS AND SUBCONTRACTORS
- FUTURE CONTRACTOR - ANNISTON PARTNERSHIP
  - HEAVY ASSAULT BRIDGE AND BREACHER.
  - 115,000 DLH PER YEAR, 1997 - 2000

- MAJOR BENEFITS FOR BOTH SECTORS.
- MORE TO COME.

- BENEFITS OF PARTNERSHIP
  - REDUCES OVERHEAD FOR GOVERNMENT AND INDUSTRY
  - KEEPS JOBS IN THE COMMUNITIES
  - MAXIMUM USE OF GOVERNMENT AND INDUSTRY TALENTS

CHALLENGES

EPOT31

ISSUES FACING THE SERVICES... OUR CHALLENGES

- POWER PROJECTION REQUIREMENT.
  - 80% OF ARMY TO BE IN CONUS. MOST SINCE PRE WWII. LESS ABLE TO SUPPORT FROM FORWARD LOCATIONS.

MUST BE MOBILE

- GROWING BACKLOG.
  - $571M IN FY94. 80% OF THE FUNDED LEVEL.
  - RESERVES SHORT OF NEWEST EQUIPMENT.

CAREFULLY HUSBAND, PRIORITIZE RESOURCES

- HOW TO BEST IDENTIFY AND SUPPORT CRITICAL PRIVATE SECTORS.
  - MUST INTEGRATE INTO A UNIFIED INDUSTRIAL BASE.
  - HOW DO WE PRESERVE CRITICAL R&D, PRODUCTION CAPABILITY?
  - HOW MUCH SUPPORT IS NEEDED?

LOOK AT THE TOTAL INDUSTRIAL BASE: R&D, ACQUISITION MAINTENANCE

- REDUCE COSTS.
  - EXCESS CAPACITY.
  - STANDARD BUSINESS PRACTICES IN A NONSTANDARD ENVIRONMENT.
    - GOVERNMENT PERSONNEL INFLEXIBILITY.
    - DEPRECIATION OF FACILITIES.
    - FIXED PRICES

INCREASE EFFICIENCY

CONGRESSION TASKS

WDEP

COMMENTS ON CONGRESSIONAL TASKS

RELATED TO #5
"WHAT IS CORE?

- THE KEY TASKS ARE:
  - #7 BALANCE BETWEEN PUBLIC-PRIVATE SECTORS.
  - #8 IDENTIFICATION OF PUBLIC-PRIVATE FUNCTIONS AND ACTIVITIES.

- BECAUSE:
  - BOTH PUBLIC AND PRIVATE SECTORS ARE NECESSARY FOR NATIONAL SECURITY.
  - BOTH OFFER UNIQUE TALENTS.
  - DEPOT MAINTENANCE IS ONLY ONE COMPONENT OF THE INDUSTRIAL BASE.

* READINESS -- IT'S THE BOTTOM LINE

- THE ABILITY TO DEPLOY, FIGHT, WIN AND BE PREPARED FOR FOLLOW-ON CONFLICTS MUST BE THE PARAMOUNT CONSIDERATION.

Document Separator

DEPARTMENT OF THE ARMY
HEADQUARTERS, UNITED STATES ARMY FORCES COMMAND
FORT MCPHERSON, GEORGIA 30330-6000

REPLY TO
ATTENTION OF

15 JUN 1994

AFPI-BC (5-10c)

MEMORANDUM FOR DEPARTMENT OF THE ARMY, DIRECTOR OF MANAGEMENT, WASHINGTON, DC 20310-0200

SUBJECT: Base Realignment and Closure (BRAC) 95 Installation Assessment (IA) Program

1. References:

a. Memorandum, DACS-TABS, 6 Apr 94, subject: BRAC 95 Installation Assessment (IA) Program.

b. Memorandum, DACS-TABS, 26 Apr 94, subject: BRAC 95 Installation Assessment (IA) Program - BRAC 95 Data Call #1.

c. Memorandum, DACS-TABS, 20 May 94, subject: BRAC 95 Installation Assessment (IA) Program - Change 2.

2. The quantitative data portion of the IA requested by above references is provided as follows: Maneuver Installations, enclosure 1; Major Training Areas, enclosure 2; Command and Control Installations, enclosure 3; and Training Schools, enclosure 4.

3. The information contained in this report is accurate and complete to the best of my knowledge and belief. Actions taken to assure data accuracy and record keeping procedures are detailed at enclosure 5.

4. We are concerned about how Deployment Network attribute is evaluated. While we fully agree that the ability to deploy quickly is an important characteristic of maneuver installations, we believe the way it is evaluated should be revised.

a. The variance in data on distance to highway is zero to ten miles. The way this data is treated by the software package results in the installation with ten miles getting very little to no points when in fact ten miles is an extremely low distance and not sufficiently different from zero miles to warrant any delta in the scores.

CLOSE HOLD

b. While the range of distances to deployment airports is greater, 0 to 80 miles, it appears illogical to make any significant difference over a 7-mile distance versus a 0-mile distance.

c. Suggest a range of distances be used versus the absolute numbers. A range for highway and airport distances could be 0 to 30 miles receives 10 points; 31 to 60 miles receives 8 points, etc.

d. While the range of distances to seaports is greater, 17 to 1,095 miles, the same issues apply. Also, all installations are able to easily move their equipment to seaports faster than ships are able to get there to load. With the use of POMCUS equipment also playing a role in deployment, perhaps distance to seaports should have less weight. Bottom line, all installations can deploy within appropriate times, but the data in this attribute does not give them full credit for this.

5. For additional information, contact Neta Adams, DSN 367-6315.

FOR THE COMMANDER:

5 Encls

GUY A. J. LABOA
Major General, USA
Chief of Staff

CLOSE HOLD

DEPARTMENT OF THE ARMY
HEADQUARTERS, UNITED STATES ARMY FORCES COMMAND
FORT MCPHERSON, GEORGIA 30330-6000

REPLY TO ATTENTION OF

AUG 12 1994

AFPI-BC (5-10c)

MEMORANDUM FOR DEPARTMENT OF THE ARMY, DIRECTOR OF MANAGEMENT, ATTN: DACS-TABS, WASHINGTON, DC 20310-0200

SUBJECT: Decision-PAD (D-PAD) Run by The Army Basing Study (TABS)

1. Reference memorandum, DACS-DM, 21 Jul 94, SAB.

2. Comments to above reference are furnished at enclosure.

Encl

JOSEPH H. PLUNKETT
Chief, Base Realignment and Closure Division

Bundle

OPTIONAL FORM 99 (7-90)

FAX TRANSMITTAL # of pages ▶ 4

To MAT SCHUMATE	From JOE PLUNKETT
Dept./Agency HQ DA TABS	Phone # DSN 367-5524
Fax # 703-693-9322/DSN 223	Fax #

NSN 7540-01-317-7368 5099-101 GENERAL SERVICES ADMINISTRATION

CLOSE HOLD

MANEUVER

FORT BRAGG
ATTRIBUTE:
BARRACKS AND AFH
Number should be 41,368 instead of 41,358.

FORT HOOD
ATTRIBUTE:
FAM HSG COST/UNIT
Number should be $5,272 instead of $5,064.

MAJOR TRAINING

FORT POLK
No data provided except sub-model.

FORT PICKETT
ATTRIBUTE:
BARRACKS
Number should be 47 instead of 37. ✓

FORT DIX
ATTRIBUTE:
MOUT
Should be a Yes instead of a No.

MOB CAPABILITY - DEPLOYMENT NETWORK SUB-ELEMENT

	SHOULD BE	INSTEAD OF
FORT DIX	9.7	4.0
FIG	8.7	6.3
IRWIN	4.8	.8
McCOY	8.8	6.6
PICKETT	7.8	5.8
POLK	7.9	6.5
HUNTER LIGGETT	7.1	0.0

COMMAND AND CONTROL

FORT GILLEM
ATTRIBUTE:
OP/ADMIN FACILITIES
Number should be 244 instead of 156.

UPH + AFH
Number should be 13,615 instead of 4,565.

CLOSE HOLD

encl 1

CLOSE HOLD

CAPACITY ELECT
Number should be 22,400 instead of 22,000.

FORT HAMILTON
ATTRIBUTE:
UPH + AFH
Number should be 822 instead of 1,556.

ARCH/HIST BLDGS
Number should be .07344 instead of .07345.

FORT McPHERSON
ATTRIBUTE:
UPH + AFH
Number should be 14,264 instead of 9,607.

PRESIDIO OF SAN FRANCISCO
ATTRIBUTE:
UPH + AFH
Number should be 720 instead of 1,643.

No sum-model data was provided for Presidio of San Francisco.

TRAINING SCHOOL

FORT SAM HOUSTON
ATTRIBUTE:

FAMILY HOUSING
Appears off-post housing was not included since number on report is only on-post housing. Total number should be 4,266.

BUILDABLE ACRES
Number should be 616. This reversal of numbers was found by AAA and we were told would be changed from their report.

IMPACT AREA
Number of impact acres should be 5,892. This reversal of numbers was found by AAA and we were told would be changed from their report.

RANGES
Although there were only numbers provided with no identification as to the sub-model or the specific attribute, it appears that the sub-element for Number of MPRC has been changed to a Yes and No answer with the 0 answer becoming a No.

CLOSE HOLD

CLOSE HOLD

MECHANIZED MANEUVER ACRES

Number should be 20,000 instead of 0.

ENVIRONMENTAL CARRYING CAPACITY

Although there were only numbers provided with no identification as to the sub-model or the specific sub-element, it appears that the sub-element for Air Quality has been changed to a Yes and No answer with the 1 answer becoming a Yes.

MOBILIZATION CAPABILITY

Only numbers were provided with no identification as to the sub-model or the specific sub-element, it appears that the numbers input were 20,000 acres for sub-element Net Maneuver Acres and 0 for sub-element Contiguous Maneuver Acres. The acreage number should be 20,000 for Contiguous Maneuver, Mechanized Maneuver or Net Maneuver.

CLOSE HOLD

DEPARTMENT OF THE ARMY
HEADQUARTERS, UNITED STATES ARMY FORCES COMMAND
FORT MCPHERSON, GEORGIA 30330-6000

REPLY TO
ATTENTION OF

AFPI-BC (5-10c)

07 JUL 1994

MEMORANDUM FOR DEPARTMENT OF THE ARMY, DIRECTOR OF MANAGEMENT, ATTN: DACS-TABS, WASHINGTON, DC 20310-0200

SUBJECT: Base Realignment and Closure (BRAC) 95 Installation Assessment (IA) Program

1. Reference FORSCOM memorandum, AFPI-BC, 15 Jun 94, SAB.

2. Request following data be incorporated as change to initial data submitted for Fort Bragg, Environmental Carrying Capacity, Noise Quality Factor. Fort Bragg recently provided this change to the data which had been provided showing a total of 33,000 acres for Zones II and III.

Zone II area (acres) 15,988
Zone III area (acres) 1,858

3. For additional information, contact Mohsin Bharmal, DSN 367-6363.

for JOSEPH H. PLUNKETT
Chief, Base Realignment and
Closure Division

DEPARTMENT OF THE ARMY
HEADQUARTERS, UNITED STATES ARMY FORCES COMMAND
FORT MCPHERSON, GEORGIA 30330-6000

REPLY TO
ATTENTION OF

AFPI-BC (5-10c)

27 JUN 1994

MEMORANDUM FOR DEPARTMENT OF THE ARMY, DIRECTOR OF MANAGEMENT,
ATTN: DACS-TABS, WASHINGTON, DC 20310-0200

SUBJECT: Base Realignment and Closure (BRAC) 95 Installation Assessment (IA) Program

1. Reference FORSCOM memorandum, AFPI-BC, 15 Jun 94, SAB.

2. We have found two minor changes which should be made to data submitted at reference. The changes are:

a. Change Information Mission Area score for Presidio of San Francisco to 1225 from 1275. Change corrects an arithmetic error.

b. Change Family Housing Cost per Dwelling Unit for Fort Hood from $5,064 to $5,272. Original computation included 227 housing units which are to be built due to a FY 93 construction project.

3. For additional information, contact Neta Adams, DSN 367-6315.

FOR THE DCS FOR PERSONNEL AND INSTALLATION MANAGEMENT:

JOSEPH H. PLUNKETT
Chief, Base Realignment
and Closure Division, DCSPIM

DEPARTMENT OF THE ARMY
HEADQUARTERS UNITED STATES ARMY FORCES COMMAND
FORT MCPHERSON GEORGIA 30330-6000

REPLY TO
ATTENTION OF

AFPI-BC (5-10c) 27 J[illegible]4

MEMORANDUM FOR DEPARTMENT OF THE ARMY, DIRECTOR OF MANAGEMENT,
ATTN: DACS-TABS, WASHINGTON, DC 20310-0200

SUBJECT: Base Realignment and Closure (BRAC) 95 Installation Assessment (IA) Program

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FOR THE DCS FOR PERSONNEL AND INSTALLATION MANAGEMENT:

JOSEPH H. PLUNKETT
Chief, Base Realignment
and Closure Division, DCSPIM

HEADQUARTERS FORSCOM
DEPUTY CHIEF OF STAFF FOR
PERSONNEL & INSTALLATION MANAGEMENT
BASE REALIGNMENT & CLOSURE DIVISION

TO: Maj Fletcher

FAX TELEPHONE NUMBER	VOICE TELEPHONE NUMBER	DATE/TIME /GROUP
DSN 223-9322	(703) 693-9332	7 July 94

NUMBER OF PAGES 3 + HEADER

POC: Victor Tate

TELEPHONE NUMBERS
DSN: 367 - 7529
COMM: (404) 669 -
FAX: 7040

FROM:
HQ. FORSCOM
AFPI-BC
FT. McPHERSON, GA 30330

REMARKS: This is the exact explanation that was sent to me concerning the differences in Zones II and III. We had a total of 33,600 for the two zones. However, it should be a total of 17,846.

Zone II - 15,988
Zone III - 1,858
Total = 17,846

In addition, notice that the break down of Ft. Stewart has also been added.

XVIII AIRBORNE CORPS

DIRECTORATE OF PUBLIC WORKS & ENVIRONMENT
Facilities, Planning & Mobilization Division (AFZA-PW-P)
FT BRAGG, NC 28307-5000
FAX (910) 396-3069

FACSIMILE TRANSMITTAL HEADER SHEET

TO: Victor Tate -- BRAC 95

FROM: Glen Prillaman

SUBJECT: BRAC 95 Information

MESSAGE:

This was more complex than I thought. An explanation follows on why the Zone II and III figures don't match the earlier figure of 33,600 acres that we had provided. The bottom line after much research is that Zone II should be 15,988 acres and Zone III should be 1,858 acres.

Glen W. Prillaman

THIS IS PAGE ONE OF 2 PAGES

ANY PROBLEMS WITH THIS TRANSMISSION PLEASE CALL.

MASTER PLANNING (910) 396-5300
REAL PROPERTY (910) 396-7819
MOBILIZATION (910) 396-5469
** DSN 236

1 July 1994

1. The following is information abstracted from our January 1991 Joint Compatible Land Use Plan Report which does beyond

2. Zone II noise contours are those where:

a. The sound level is 65-75 dB (A weighted noise is aircraft noise)

b. The sound level is 62-70 dB (C weighted noise is artillery noise)

Fort Bragg has 15,988 acres of off post land that fall within Zone II noise contours which include both aircraft and artillery noise.

3. Zone III noise contours are those where:

a. The sound level is greater than 75 dB for A-weighted aircraft noise.

b. The sound level is greater than 70 dB for C-weighted aircraft noise.

Fort Bragg has 1,858 acres of off post land that fall within Zone III noise contours which include both aircraft and artillery noise.

4. There is another 14,687 acres that fall within 60 to 65 dB (A weighted noise - aircraft noise) The local communities participated in valued in the Joint Compatible Land Use Study wanted to use this as a buffer. Those fall that land uses would be allowed [illegible] Zone I — it is not Zone II or Zone III.

FROM:

MANUAL

ENVIRONMENTAL CARRYING CAPACITY

ATTRIBUTE: NOISE IN QUALITY AREA

INSTALLATION	ZONE II	ZONEIII	TOTAL
BRAGG	15988	1858	17846
CAMPBELL	14085	8060	22145
CARSON	3400	0	3400
DRUM	1378	0	1378
HOOD	75	0	75
LEWIS	600	0	600
RILEY	1120	0	1120
STEWART	431	0	431

This data was obtained from the POC's of the different installations. The information was supplied to us on 30 June 94. The addition of the Stewart data was obtained on 5 July 94.

INSTALLATIONS

ATTRIBUTES	BRAGG	COMMENTS	CAMPBELL	COMMENTS	CARSON	COMMENTS	DRUM	COMMENTS	HOOD	COMMENTS	LEWIS	COMMENTS	RILEY	COMMENTS	STEWART	COMMENTS
Ranges & Open Read:																
Maneuver Acres																
Acres (000)	100	1	71		330		65		156		317		71		250	
Rights (000/2)	0.8		83		0		0		0		0		0		0	
Ranges																
# MPRC Ranges	1		1		1		1		1		1		1		1	
# RSTS Eq M-16 Fir Pts	32		32		32		41		51		16		16		16	
MOUT Range (Yes/No)	yes		no	note 1	no	note 1	yes		yes		no	note 1	no	note 1	no	note 1
Total # Ranges	64		38		67		28		71		93		23		23	
Deployment Network (Dist in Miles)												1				
Railhead	0		0		0		0		0		0		0		0	
Airport	0		0		7		80		0		3		70		38	
Seaport	100		627		1095	3	350		274		17		727		40	
Highway	10		4.2		0		7		0		0		0		0.25	
Reserve Training																
AT (# people)	14,258		7,077		9,713		26,923		21,479		14,093		4,868		15,257	
FY91	10,902		7,869		14,873		31,278		24,320		17,373		3,977		13,258	
FY92	17,546		5,784		6,584		23,363		18,766		11,584		7,550		17,490	
FY93	14,325		7,578		7,683		26,107		21,302		13,323		3,078		15,023	
ITT (Mandays)	153,167		58,396		13,748		10,575		37,611		144,001		75,344		33,050	
FY91	66,700		46,087		13,748		11,556		41,162		152,790		76,745		19,062	
FY92	206,300		58,608		12,112		12,229		34,582		133,077		75,741		44,133	
FY93	166,500		70,294		15,384		7,941		37,090		146,137		73,547		35,955	
Impact Area	33,000		22,629		19,537		29,537		62,000		33,531		16,170		19,040	
AF Bomb Capable (Y/N)	yes		yes		yes		yes		yes		yes		yes		yes	
Attack Heli Cap (Y/N)	yes		yes		yes		yes		yes		yes		yes		yes	
Tube Artill Cap (Y/N)	yes		yes		yes		yes		yes		yes		yes		yes	
MLRS Artill Cap (Y/N)	yes		no		yes		yes		yes		yes		yes		yes	
Mechanized Maneuver Acres	74		51		277		25		156		203		68		171	
and & Facilities																
Barracks & Fam Housing																
& UOPH (7240P)	0	2	48		12		6		52		81		48		54	
& UEPH (7210S)	16526		9372	4278	6366		5596		17428		8755		6025		6704	
Fam Hous on Post (7110F)	4842		4248		1836		4272		5783		3504		3136		2927	
Fam Hous Off Post (7110P)	20000		9539		6873		1472		38162		14108		4406		10168	
Trainee Assets (7216P)	0		0		0		0		0		0		0		0	
Work Space (KSF)	5707		3089		2581		2015		5624		3937		3107		2639	
MNT Hangar AVUM (21110)	598	3	664		176		150		394		236		159	1	401	
MNT Hangar AVIM (21111)	52		225		62		133		306		190		88	1	17	
MS Maint FAC (21407)	0		0		26		77		0		19		34		31	
AR Maint FAC (21409)	13		9		12		38		0		0		29		4	
VEH MNT SH Org (21410)	788	4	478		608		461		1409	1	669		633	2	576	
VEH MNT Shop DS (21420)	331	5	68		438		193		561	2	426		414	2	320	
SF Perm MNT Shp (21800)	407	6	50		6		66		43		120		112	2	3	

CLOSE HOLD

[illegible] INSTALLATIONS

[illegible]

[illegible]	BRAGG	COMMENTS	CAMPBELL	COMMENTS	CARSON	COMMENTS	DRUM	COMMENTS	HOOD	COMMENTS	LEWIS	COMMENTS	RILEY	COMMENTS	STEWART	COMMENTS
[illegible] (21900)	23		1		2		4		4		84		56	2	25	
[illegible] GPS Bldg (14112)	7		44		9		22		31		11		28		0	
[illegible] GPS Bldg (14110)	10		20		3		16		26		12		11		24	
[illegible] Bldg (14182)	237	7	65		68		59		130		154		60		49	
[illegible] Bldg (14183)	639	8	343		311		229		454		180		256	3	275	
[illegible] Bldg (14185)	1229	9	879		517		406		1186		953		567		575	
[illegible] Purpose Admin (61050)	1373	10	203		343		161		1060	3	663		638		339	
[illegible] Permanent Facilities																
Total perm SF all bldgs/total SF	81.8		76.1		79.6		71.5		84.8		70.4		89.2		72.9	
[illegible]structure - capacity												2				
water (MGD)	13.6		7.6		30		6		17.5		19.1		8.4		13.9	
Sewage treatment (MGD)	13		4		4		4.3		7.5		9.6		4.25		5.4	
Electrical distri (MVA)	159		44		26		70		173		95		62.5		72	
Land Fill ($/Short Ton)	$40.00	11	$38.00		$17.10		$70.00		$21.00		$36.00		$28.31		$25.00	
[illegible]ronmental Capacity Factors												2				
[illegible] & [illegible] Bldg W/Insti Acres	0.00075		0.00068		0.00475		0.00032		0.00237		0.00146		0.0031		0.000097	
Endangered Species W	7		0		3		0		3		3		0		5	
Wetlands Acres/Instl Acres	0.03637		0.02421		0.00780		0.13098		0		0.01870		0.0143		0.320668	
Air Quality (Status Y=1, N=10)	1		1		1		10		1		10		1		1	
Water Qual (Times NPDES exceeded)	11		386	1	0	2	0		7		0				0	
Noise Qual Area Acres-AICUZ/ICUZ Zone	33,000		22,145		3,400		1,378		75		600	ALL	1,120		114	
Contaminated Sites	31		38		69		23		39		19		47		2	
ontingency, Mobilization																
Future Requirements																
Mobilization Capability																
Billets	33985	15838	11468		19847		26166		37934		42114		21217		26294	
Buildable Acres	1949		9000		2252		10304		10000		10747		5930		30659	
[illegible]	1315		1335		1400		1215		1110		1265		1415		1280	
ost & Manpower									5272							
Housing Cost per DU	5189	5037	4923		4231		8114		5064		5016		5690		3888	
BASOPS/Mission Pop (000)																
BASOPS Direct	101554		51336		47489		68962		83791		77567		50175		53119	
BASOPS Reimb	22543		10481		7946		10859		15449		11773		7741		9807	
RPMA Direct	22765		12992		11115		15963		17279		15844		15494		14532	
RPMA Reimb	6876		7825		2337		4015		3064		7589		1439		5243	
Environ PGM Direct	6166		13114		4241		3419		3932		11055		5294		3560	
Environ PGM Reimb	5071		233		992		439		551		1011		205		366	
Audio Visual Direct	1071		760		1143		514		1606		444		722		588	
Audio Visual Reimb	266		2		0		0		0		4		0		7	
Base Comms Direct	4811		2851		3116		1301		161899		2902		1479		1481	
Base Comms Reimb	3341		731		209		182		438		797		391		667	
Family PGM Direct	2521		2150		3096		1832		3331		3533		1948		2794	
Family PGM Reimb	10		163		0		0		0		0		0		3	

CLOSE HOLD

MANEUVER INSTALLATIONS

MATESCAP

ATTRIBUTES	BRAGG	COMMENTS	CAMPBELL	COMMENTS	CARSON	COMMENTS	DRUM	COMMENTS	HOOD	COMMENTS	LEWIS	COMMENTS	RILEY	COMMENTS	STEWART	COMMENTS
FY97 DoD RPMD (97301311)	7468		9845		10240		2279		10789		6777		8419		4473	

Note ACU installations have minimal MOUT capability.
Bragg 1. Did not include Camp Mackall maneuver acerage.
Bragg 2. RPLANS reflect 652 billets; Ft Bragg states these billets were transferred to FCG 22411 (Transient Qtrs)
Bragg 3. Square footage updated thru May 94 IFSM. RPLANS = 417K.
Bragg 4. RPLANS = 536K. Square footage updated thru May 94 IFSM (+41,131 SF)
Bragg 5. RPLANS = 254,693 SF, plus IFSM May update = +6,337 SF, plus new construction = 70,150 SF.
Bragg 6. RPLANS = 103,154 SF plus new construction = 303,845 SF.
Bragg 7. RPLANS = 148,972 SF, plus new construction = 88,444 SF.
Bragg 8. RPLANS = 437,188 SF plus May IFSM update 2,471 SF, plus new construction = 150,737 SF.
Bragg 9. RPLANS = 1,053,085 SF plus new construction = 175,577 SF.
Bragg 10. RPLANS = 1,144,624 SF plus IFSM update = -631 SF, plus new construction = 229,797 SF.
Bragg 11. Infrastructure: Landfill cost current $10 and in 3 Yrs $40

Campbell 1. Problem with water quality in FY92 has been corrected.

Carson 1. RPLANS reflect 145 UOFH spaces. UOFH transferred to transient qtrs FCG.
Carson 2. RPLANS = 320,086 SF plus add 22,509 SF IFSM update.
Carson 3. Deployment Network. # of Miles to Seaport by Convoy is 991 miles.

Hood 1. RPLANS plus 137,355 SF new construction
Hood 2. RPLANS plus 221,372 SF new construction
Hood 3. RPLANS plus 193,500 SF of new construction and conversion of barracks to admin

Lewis 1. Deployment Network: Data represent distances from Lewis only. Yakima not considered.
Lewis 2. Infrastructure & Env Carrying Capacity: Data represents total of Lewis and Yakima.

Riley 1. AVN Maint agree w/RPLANS at total. Some differences between AVIM/AVUM. Maint areas capable of org maint; however, being used by units.
Riley 2. Net veh maint SF = RPLANS plus 90,000 SF new construction of TDE shop.
Riley 3. Bn HQ = RPLANS plus 20,000 SF of new construction (2 Bn HQs)

CLOSE HOLD

DEPARTMENT OF THE ARMY
HEADQUARTERS, UNITED STATES ARMY, PACIFIC
FORT SHAFTER, HAWAII 96858-5100

REPLY TO
ATTENTION OF:

APRM-MC (5-10)

2 June 1994

MEMORANDUM FOR HQDA (DACS-TABS), WASHINGTON, DC 20310-0200

SUBJECT: BRAC 95 Installation Assessment (IA) Program

1. Reference memorandum, HQDA, DACS-TABS, 6 Apr 94, SAB.

2. Requested Installation Assessment is enclosed. With respect to data for the attribute "BASOPS/MISSION POPULATION," USARPAC has apportioned total obligations between two of its installations (Fort Shafter and Schofield Barracks) based on reasonable assumptions since current Army accounting policies do not require the tracking of expenditures by geographic site.

3. Significant organizational changes taking place in Alaska have caused us to reexamine the present categorization of Fort Richardson as a maneuver installation. It is our judgment that it may be more appropriate to classify Fort Richardson as a C2/Admin Support installation. During the visit of your representatives to Alaska (13-15 June) we ask that this issue be reviewed. USARPAC will comply with whatever determination is made by your office. This data call reflects Fort Richardson as a maneuver installation.

4. Major subordinate commands (MSCs) were instructed to provide information in accordance with the references and sources provided as specified in the BRAC 95 IA Program instructions and to follow prescribed methodology to derive attribute results. Major subordinate commands report reasonable assurance that recordkeeping for the various data sources complies with standing operating procedures. Functional proponents at both installation and HQ USARPAC levels have reviewed and validated the data.

5. The information contained in this report is accurate and complete to the best of my knowledge. To assist any future audit of this data call, this headquarters, APRM-MC, maintains multiple copies of MSC input as well as a list of installation POCs.

APRM-MC
SUBJECT: BRAC 95 Installation Assessment (IA) Program

HQ USARPAC points of contact are Mr. Craig Stevaux, APRM-MC, DSN 438-9583, and Ms. Barbara Mitchell, DSN 438-8966, FAX DSN 438-9234.

FOR THE COMMANDER:

Encl

David R.E. Hale
DAVID R.E. HALE
Major General, USA
Chief of Staff

DEPARTMENT OF THE ARMY
HEADQUARTERS, U.S. ARMY ALASKA
600 RICHARDSON DRIVE # 5000
FORT RICHARDSON, ALASKA 99505-5000

REPLY TO ATTENTION OF:

18 JAN 1995

APVR-RPW-BMR

MEMORANDUM FOR Commander, U.S. Army, Pacific, ATTN: APEN-C-RE, Ft. Shafter, HI 96858-5100

SUBJECT: Acreage - Ft. Richardson, AK

1. Per your conversation with Mr. Thorson, Real Property Officer, Public Works, Alaska, the following information concerning acreage at Ft. Richardson is submitted as requested:

TOTAL ACREAGE	71,494.03
Maneuver Acreage*	44,071
Cantonment Acreage	800
Training Acreage	2,500
Firing Ranges	6,420
Impact Area	7,915
Wetlands	4,000
Surface Water	400
Non-Impact Firing	5,388.03
Mech Maneuver	0

*Discussions with Mr. Paul Bates, DPTSM, at 384-2230, indicate the acreage identified above for maneuvers is capable of supporting mechanized maneuver training. Limitations to use of this acreage during certain times of the year are expected due to environmental issues.

2. Requests for additional information or assistance in this matter should be directed to Mr. Thorson, at (907) 384-3015.

ALBERT J. KRAUS
COL, EN
Director of Public Works

FACSIMILE TRANSMITTAL HEADER SHEET

COMMAND/ OFFICE	NAME/OFFICE SYMBOL	OFFICE PHONE (DSN/COMM)	FAX NO (DSN/COMM)
FROM HQ USARPAC DCSRM	BARBARA MITCHELL APRM-MC	438-8966	DSN 438-9234
TO HQDA D 4CS-TABS	MAJ SHUMATE	DSN ~~227-9265~~ 223-1766	DSN 223-~~2857~~ 9322

CLASSIFICATION	PRECEDENCE	NO. PAGES (INCL HEADER)	DATE - TIME	MONTH	YEAR	RELEASER'S SIGNATURE
UNCLAS	ROUTINE	1	16 1245	2	95	Barbara Mitchell

REMARKS

Average daily Waste Water Usage for Fort Stainwright is 1.65 MGD.

LAND & FACILITIES	FORT SHAFTER	SCHOFIELD BARRACKS	FORT RICHARDSON	REMARKS	FORT WAINWRIGHT	REMARKS	FORT GREELY	REMARKS
Average Age of Facilities (sq ft)	40.9	35.9	35.2		27.3		31.6	
Barracks			0		0		806	1
Barracks & Family Housing								
a. Family Housing								
On the Installation		5,802	1,757	1	2,169			
Off Post Housing		2,195	928		5,765	1		
Total		7,997	2,685		6,790			
b. UOPH		36	199		212			
UEPH		7,034	2,564		6,370			
Total		7,070	2,763		6,582			
Environmental Capacity								
Archaeology & Historical Buildings	0.0263	0.0014	0.0000139		0.0000015	7	0.0000125	8
Endangered Species	0	66	0		0		0	
Wetlands	0	0	0.056		0.18		0.468	
Air Quality	1	1	1		1		1	
Water Quality	Not Available	15	0		0		0	
Noise Quality								
Zone II Off Post	0	Not Available	0		500		0	
Zone III Off Post	0	13,510	0		300		0	
Contaminated Sites								
IRP	20	30	66	9	92		42	
NPL	0	1	0		1	9	0	
Infrastructure								
Water Capacity (MGD)	3.2	10.2	7	13	1.50		4.2	
Sewage Treatment (MGD)	2.3	3.2	2.6	12	1.28	11	13.7	
Electrical Distribution (KVA)	10,000	59,100	24,700		22,500		6,200	
Land Fill Cost (Short Ton)	$54.00	$54.00	0	14	9.06	12	0	
Maintenance Facilities (sq ft)(000)	107							
Percent Permanent Facilities (%)	76	85	96		90.6		70.6	
Supply & Storage (sq ft)(000)	143.3							
Work Space (gross sq ft)(000)		1,008	1,082		959		199	

MISSION REQUIREMENTS & OPERATIONAL READINESS	FORT SHAFTER	SCHOFIELD BARRACKS	FORT RICHARDSON	REMARKS	FORT WAINWRIGHT	REMARKS	FORT GREELY	REMARKS	TRIPLER MED CTR
Accessability (miles)	9.75								
Applied Instruction Facilities (Sq Ft)									9,000
Barracks & Family Housing									
a. Family Housing Units:									
On Base	1,267								
Off Base	1346								
Total	2,613								
b. UOPH	22								
UEPH	500								
Total	522								
Deployment Network									
Railhead		None	0	3	0				None
Airport (miles)		18	3	5	0				5.8
Seaport		15	7	4	365				5.4
Highway		1	1	6	1				1.9
Impact Area									
Impact Acres (Number of Acres)		55,724	7,915		60,000		254,103		
Air Force Bombing Capable		YES	NO		YES		YES		
Attack Helicopter Capable		YES	YES	11	YES		YES		
Tube Artillery Capable		YES	YES		YES		YES		
MLRS Capable		YES	NO		NO		YES		
Information Mission Area (Total)	910								
Telephone Switching	350								
Outside Cable Plant	60								
Common User Support	285								
DSN/DDN Node	25								
Post Wide	45								
TCC	100								
VTC	45								

JUL-07-'94 10:30 T-DCSM USAKPHC HI

MISSION REQUIREMENTS & OPERATIONAL READINESS	FORT SHAFTER	SCHOFIELD BARRACKS	FORT RICHARDSON		FORT WAINWRIGHT		FORT GREELY		TRIPLER MED CTR
				REMARKS		REMARKS		REMARKS	
Maneuver Acres (000)		79.3	31.8	15	329.8	13	319.5		
Mechanized Maneuver Acres(000)		30	44		0	14	0		
Medical Research Facilities									
Existing Facilities (Sq Ft/000)									
Planned FY96 Construction of New Facilities (Sq Ft /000)									20.1
Ops/Admin Facilities (SqFt/000)	245.4								65
Patient Care Facilities (Sq Ft /000)									
Ranges									1,493
Number of MPRC Range		1	0		0		0		
Number of RETS Equipped firing pts		20	16		0		0		
Standard MOUT Range Available?		NO YES	NO	16	NO	15	NO		
Total Number of Ranges		75	31		21		15		
Reserve Support									
Reserve Training									
Annual Training (Number of Troops)	189	3,733	835		1,020		151		306
Inactive Duty Training (Mandays)	1,739	103,089	3,184		528		44		3,460
Special Airspace	DA Provided	DA Provided	DA Provided		DA Provided		DA Provided		DA Provided

CONTINGENCY, MOBILIZATION, & FUTURE REQUIREMENTS	FORT SHAFTER	SCHOFIELD BARRACKS	FORT RICHARDSON	REMARKS	FORT WAINWRIGHT	REMARKS	FORT GREELY	REMARKS	TRIPLER MED CTR
Buildable Acres	11.3	110.3	700	4	700		500		17.2
Encroachment	DA Provided	DA Provided	DA Provided		10.4 (PSM)		.23(PSM)		DA Provided
Information Mission Area (IMA)									
Telephone Switching		350	400		350		300		350
Outside Cable Plant		60	180		220		220		100
Common User Support		0	330		150		75		420
DSN/DDN Node		25	25		25		25		75
Post Wide		0	75		75		75		75
TCC		75	50		50		25		0
VTC		0	45		45		45		45
Total		510	1,105		915		765		1,065
Mobilization Capability									
Mobilization Billets	0	4,440	0		0		0		0
Deployment Network									
Railhead	Not Applicable						107		
Airport (Miles)	5						70	6	
Seaport (Miles)	8						253		
Highway (Miles)	0.1						1	7	
Ranges	0								
Net Maneuver Acres	0								
Contiguous Maneuver Acres	0	54							
Workspace	282								

COST & MANPOWER	FORT SHAFTER	SCHOFIELD BARRACKS	FORT RICHARDSON		FORT WAINWRIGHT		FORT GREELY		TRIPLER MED CTR
BASOPS/Mission Population				REMARKS		REMARKS		REMARKS	
a. BASOPS(-),Account (XXXX96)									
A. Real Estate Leases		842,523	0		0		0		
B. Supply Operations	864,004	7,776,035	4,975,566		2,064,935		702,512		
C. Maintenance of Material	306,341	2,757,072	3,085,680		1,165,327		30,267		
D. Transportation Services	3,327,569	4,595,214	1,844,276		1,869,372		553,252		
E. Laundry & Dry Cleaning		1,083,757	1,161,843		910,680		0		
F. Army Food Service	260,000	3,394,272	888,253		1,215,357		257,697		
G. Personnel Support	821,391	5,497,003	2,206,956		614,944		228,405		
H. Unaccompanied Pers Hsg Ops	57,853	1,099,200	1,027,806		436,439		258,236		
J. Utilities	13,182,787	17,474,858	9,807,649		11,429,125		3,459,726		
M . Other Engineering Support	12,718,898	19,078,347	12,015,151		6,223,803		1,862,071		
N. Administration	2,553,482	3,993,908	4,002,008		1,510,587		464,817		
P. Automation Activities	931,362	6,232,961	2,127,591		18,101		N/A	3	
Q. Reserve Component Support	0	0	11,778		N/A		N/A	3	
S. Community & Morale Support	2,266,851	3,130,413	3,072,437		2,091,318		1,176,900		
T. Preservation of Order	1,711,953	2,364,126	468,519		100,213		22,206		
U. Dir of Resource Mgt	853,876	5,714,399	3,494,776		447,034		122,827		
W. Dir of Contracting	2,340,684		1,399,716		259,031		0		
X. Security & Counterintel Ops			343,171		55,834		36,779		
Y. Records Management, Pubs	817,386	817,387	1,438,100		N/A	2	N/A		

COST & MANPOWER	FORT SHAFTER	SCHOFIELD BARRACKS	FORT RICHARDSON	REMARKS	FORT WAINWRIGHT	REMARKS	FORT GREELY	REMARKS	TRIPLER MED CTR
Accts (XXXX76 - XXXX78)									
K. Maint & Repair of Real Property	9,720,471	14,580,706	5,734,822		9,745,318		2,789,078		
L. Minor Construction	497,632	746,449	1,011,474		161,522		87,529		
DOD Separate Major Repair/Minor Construction Appropriation in FY93			7,836,188	1A	15,425,220	2A	2,643,801	4	
c. Environmental Program (XXXX56)	485,774	9,229,706	10,264,547		15,910,184		953,939		
d. Audio-Visual, Acct (XXXX90)	486,642	486,642	333,831		168,500		72,500		
e. Base Commo, Accts (XXXX95)	401,063	3,609,571	112,154		112,954		68,408		
f. Family Programs, Accts (878708, 878719, 878720)	373,947	3,365,520	1,816,945		1,252,035		380,341		
Cost of Living Index	DA Provided	DA Provided	DA Provided		DA Provided		DA Provided		DA Provided
Health Care Support Index									1,158
Housing Cost									5,651
Housing Cost Per Dwelling Unit	5,651.00	4,203.00	8,200.00		7,200.00				
Locality Pay Factor	1.08	1.08	1.08		1.08		1.08		
MCA Cost Factor	DA Provided	DA Provided	DA Provided		DA Provided		DA Provided		DA Provided
VHA Factor	DA Provided	DA Provided	DA Provided		DA Provided		DA Provided		

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FORT RICHARDSON, ALASKA
DATA NOTES

REMARKS	EXPLANATORY DATA
1	EXCESS UNITS AT FORT RICHARDSON (FRA) ARE BEING DIVERTED/CONVERTED TO OTHER USES. AT FRA, UNITS ARE BEING ASSIGNED TO PRIORITY 4 PERSONNEL (OTHER MILITARY ASSIGNED TO THE AREA), COMBINED INTO LARGER UNITS UNDER THE EXISTING CONVERSIONS AUTHORITY OF REVITALIZATION PROJECT, AND INACTIVATED FOR THE REVITALIZATION PROJECT. INTERIM HOUSING HAS BEEN ESTABLISHED FOR TEMPORARY USE AND RENTAL TO OTHER PRIORITY PERSONNEL SUCH AS PUBLIC HEALTH EMPLOYEES. A LOW OFFICIAL VACANCY RATE IS BEING MAINTAINED THROUGH AN AGGRESSIVE MARKETING PROGRAM, FOCUSING ON VARIOUS CATEGORIES OF POTENTIAL TENANTS, REIMBURSABLE AND OTHERWISE. FOUR BUILDINGS ARE CURRENTLY BEING HELD FOR DEMOLITION UNDER THE DA PROGRAM FOR DIVESTITURE OF FAMILY HOUSING.
1A	WITHDRAWN K AND L MONIES WERE RETURNED TO THE INSTALLATION THROUGH A SEPARATE DOD APPROPRIATION.
2	INCLUDES BASE COMMUNICATIONS COSTS FOR SUB INSTALLATIONS OF FORT WAINWRIGHT AND FORT GREELY
3	0 MILES (FREIGHT RAIL SPURS ON POST)
4	7 MILES (PORT OF ANCHORAGE)
5	0 MILES (BRYANT ARMY AIRFIELD - HELICOPTERS); 3 MILES ELMENDORF AFB; AND 11 MILES (ANCHORAGE INTERNATIONAL/KULIS AIR GUARD BASE).
6	THERE ARE NO DESIGNATED INTER-STATE HIGHWAYS IN ALASKA
7	NATIONAL CEMETERY (VETERAN'S ADMINISTRATION OWNED)
8	INSTALLATION ACREAGE FOR FT RICHARDSON IS DERIVED FROM EXECUTIVE ORDER (EO) NOs EO 8755, EO 8343, EO 8102, AND PUBLIC LAND ORDERS (PLO) NOs PLO 1673, PLO 95, PLO 2968, AND PLO 6244.
9	DERIVED FROM AN INSTALLATION ACTION PLAN SUBMITTED TO THE ARMY ENVIRONMENTAL CENTER IN FEB 94.
10	(1) THE MILITARY FAIR SHARE FOR FORT RICHARDSON IS 928 UNITS, AS REPORTED TO USARPAC ON 10 MAY 1994 IN RESPONSE TO DA REQUESTS FOR THE CORRECTION OF AFH PLANNING DATA. (2) THE STOCK OF ADEQUATE RENTALS WITHIN COMMUTING DISTANCE OF FRA IS 31,064, AS IDENTIFIED BY PRIVATE AND MUNICIPAL SURVEYS AND VERIFIED BY THE HOUSING OFFICE. VACANCY RATES ARE APPROXIMATELY THREE PERCENT AT THIS TIME. (3) BRAC INFORMATION REQUESTS TEND TO IGNORE CERTAIN SEGMENTED HOUSING INFORMATION, INCLUDING HOME OWNERSHIP, POTENTIAL FOR MANDATORY ASSIGNMENTS TO INCREASE OCCUPANCY, SHARED MARKET WITH ADJACENT ELMENDORF AFB. OCCUPANCY DATA FOR FRA WILL CHANGE SUBSTANTIALLY IN THE COMING MONTHS.

FORT RICHARDSON, ALASKA
DATA NOTES

REMARKS	EXPLANATORY DATA
11	A 7.62 CALIBER DOOR GUN RANGE IS AVAILABLE AT FORT RICHARDSON.
12	(1) SEWAGE TREATMENT CAPACITY (MGD). SEWAGE FROM FRA IS DISCHARGED INTO THE MUNICIPALITY OF ANCHORAGE (MOA) COLLECTION SYSTEM AND TREATED AT THE MUNICIPALITY TREATMENT PLANT AT POINT WORONZOF (2) THE U.S. ARMY CONTRIBUTED TO THE FUNDING OF THE MUNICIPAL SEWAGE TREATMENT PLANT IN EXCHANGE FOR AN AGREEMENT TO TREAT SEWAGE GENERATED BY FRA. FORT RICHARDSON PAYS THE MUNICIPALITY FOR SEWAGE TREATMENT SERVICES AT A RATE BASED ON CURRENT PLANT OPERATION AND MAINTENANCE COSTS. THERE APPEARS TO BE NO PROBLEMS WITH THE CURRENT SEWAGE TREATMENT SYSTEM. NO NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (MPDES) DISCHARGE POINTS EXITS ON THE POST. (3) THE MUNICIPALITY HAS INDICATED THAT THERE IS NO MAXIMUM LIMIT FOR FRA WITH RESPECT TO WASTE WATER FLOW, ALTHOUGH THE ORIGINAL CONTRACT STATED THAT 1.5 MGE WOULD BE AVAILABLE FOR FRA's USE. AT THE TIME OF ORIGINAL CONTRACT, THE PLANT CAPACITY WAS 34 MGD. IT IS NOT 58 MGD. ASSUMING THE SAME RATIO, 2.6 MDG WOULD NOW BE AVAILABLE FOR THE USE OF FRA (4) THE SEWAGE FLOW FROM FRA IS METERED AT A STATION LOCATED ON ELMENDORF AFB BEFORE IT ENTERS A 24-INCH COLLECTION MAIN WITHIN THE MUNICIPALITY SYSTEM.
13	WATER SUPPLY CAPACITY (MD): (1) SHIP CREEK IS THE PRIMARY SOURCE OF WATER FOR FRA, ELMENDORF AFB, AND THE MUNICIPALITY OF ANCHORAGE (MOA). THE APPROPRIATED AMOUNT FOR WATER FOR FRA AND ELMENDORF AFB IS 7.5 MILLION GALLONS PER DAY (MGD), AS GRANTED BY THE STATE OF ALASKA, WHICH GOVERNS PUBLIC WATER (STATE RECORDS OF WATER RIGHT CERTIFICATES VOL. XII, PAGE 1554, ADL 45839 AND VOL. XII, PAGE 1558, ADL 65557). (2) FORT RICHARDSON PROVIDES WATER OT ELMENDORF AFB. THE TWO INSTALLATIONS RECEIVE APPROXIMATELY 30 PERCENT OF THE SHIP CREEK WATER, WHICH IS PROCESSED THROUGH A TREATMENT PLANT ON FRA BEFORE BEING DISTRIBUTED THROUGH A 20 INCH LINE AND A 14 INCH LINE TO THE TWO INSTALLATIONS. (3) THERE ARE THREE STANDBY WELLS LOCATED ON FRA, WHICH SUPPLY WATER WHEN THE FLOW RATE ON SHIP CREEK CAN NOT SUPPORT THE DEMAND OR WHEN EMERGENCY CONDITIONS EXIST. THE STATE OF ALASKA HAS APPROPRIATED A TOTAL OF 3.6 MGD FOR WELL 1, 2, AND 3. STATE RECORD OF WATER CERTIFICATES VOL. XII, PG 1551, AND 1553, ADLS 45840, 45841, AND 45842). (4) THE MUNICIPALITY OF ANCHORAGE WATER TREATMENT PLANT HAS A 20-INCH TIE-IN WITH THE FORT RICHARDSON DISTRIBUTION SYSTEM. IT CON PRESENTLY SUPPLY 10 MGD OF TREATED WATER TO FRA. TO DATE, THIS SOURCE HAS NOT BEEN USED TO MEET WATER DEMAND. FRA WATER MAY SUPPLY THE MUNICIPALITY IN THE EVENT OF AN EMERGENCY OR NATURAL DISASTER.

FORT RICHARDSON, ALASKA
DATA NOTES

REMARKS	EXPLANATORY DATA
14	IN 1987, FORT RICHARDSON CLOSED ITS LAST ACTIVE LANDFILL AND BEGAN USING THE NEW MUNICIPALITY OF ANCHORAGE LANDFILL. THE LANDFILL IS ON 300 ACRES EXCESSED BY FORT RICHARDSON IN AN AGREEMENT WHICH PROVIDES FORT RICHARDSON WITH FREE LANDFILL SERVICES FOR THE LIFE OF THE LANDFILL (ESTIMATED TO BE 50 PLUS YEARS). THE MUNICIPALITY CONSTRUCTED A ROAD CONNECTING FORT RICHARDSON TO THE LANDFILL.
15	SOURCE: INSTALLATION COMMANDERS ANNUAL REAL PROPERTY SURVEY: LAND STATUS IS AS FOLLOWS (1) FEE - 2,463 ACRES; COST $311,581.50 (2) PUBLIC DOMAIN - 58,555 ACRES (3) LESSER INTEREST - APPROXIMATELY 242 ACRES UNDER PERMIT, EASEMENT, OR CO-OP AGREEMENT.
16	FORT RICHARDSON HAS TWO MILITARY OPERATIONS ON URBAN TERRAIN (MOUT) FACILITIES CONSISTING OF AN ADVANCED LIVE-FIRE TIRE HOUSE FACILITY AND A NON LIVE-FIRE PLYWOOD CITY

FORT WAINWRIGHT, ALASKA
DATA NOTES

REMARKS	EXPLANATORY NOTES
1	(1) THE MILITARY FAIR SHARE FOR FORT WAINWRIGHT IS 1144, AS REPORTED TO USARPAC ON 10 MAY 1994 IN RESPONSE TO A DA REQUEST FOR THE CORRECTION OF AFH PLANNING DATA. (2) THE STOCK OF ADEQUATE RENTALS WITHIN COMMUTING DISTANCE OF FORT WAINWRIGHT, AS IDENTIFIED BY PRIVATE AND MUNICIPAL SURVEYS AND VERIFIED BY THE HOUSING OFFICE IS 5,765. VACANCY RATES ARE APPROXIMATELY THREE PERCENT (3%) AT THIS TIME.
2	COSTED AS A SUBINSTALLATION OF FORT RICHARDSON
2A	WITHDRAWN K AND L MONIES RETURNED TO INSTALLATION THROUGH SEPARATE DOD APPROPRIATION.
3	AS A SUBINSTALLATION, INCLUDED IN BASE COMMUNICATIONS COSTS FOR FORT RICHARDSON, AK ($166,700)
4	DIVERTED FROM INSTALLATION LEVEL REAL PROPERTY DATABASES AND RECORDS
5	0 MI (FORT WAINWRIGHT, AK); 25 MI (EIELSON AFB, AK); AND 10 MI (FAIRBANKS INTERNATIONAL AIRPORT)
6	THERE ARE NO DESIGNATED INTER-STATE HIGHWAYS IN ALASKA
7	LADD FIELD HISTORICAL SITE COMMEMORATING U.S./USSR COOPERATION DURING W.W.II
8	INSTALLATION ACREAGE FOR FT WAINWRIGHT OBTAINED FROM PUBLIC LAW (PL) 99-606, ALASKA MILITARY LANDS WITHDRAWAL ACT OF 1986.
9	DERIVED FROM THE INSTALLATION ACTION PLAN SUBMITTED TO THE ARMY ENVIRONMENTAL CENTER IN FEB 94.
10	ON-POST ASSETS ARE THE SAME AS FOR ANNEX D, PAGE 11 (2,169)
11	SEWAGE FROM FT WAINWRIGHT IS DISCHARGED INTO THE CITY OF FAIRBANKS COLLECTION SYSTEM AND TREATED AT THE CITY'S WASTE WATER TREATMENT PLANT THE SERVICE AGREEMENT, DATED 30 MAR 76, STATES THAT 1.6 MGD OF TREATMENT WILL BE AVAILABLE FOR USE BY FT WAINWRIGHT. THE CAPACITY OF THE CITY'S TREATMENT PLANT IS 8 MGD. APPROXIMATELY 15% OF THIS TOTAL SEWAGE IS FROM FT WAINWRIGHT. PROVIDED BY DPW, OPERATIONS AND MAINTENANCE DIVISION
12	FT WAINWRIGHT HAS ITS OWN SANITARY LANDFILL LOCATED ON A 37 ACRE SITE ON THE NORTH SIDE OF THE CHENA RIVER. IT ACCEPTS GENERAL REFUSE AND HAS A DESIGNATED AREA FOR ASBESTOS DISPOSAL. OTHER HAZARDOUS MATERIALS ARE CONTAINERIZED AND TRANSPORTED FOR DISPOSAL THROUGH THE DEFENSE UTILIZATION AND MARKETING OFFICE (DRMO). THE LANDFILL HAS THE CAPACITY TO SUPPORT AN EFFECTIVE POPULATION OF 15,000 FOR 20+ YEARS.
13	ALL LANDS USED FOR MANEUVERS ARE TAKEN FROM THE PUBLIC DOMAIN FOR MILITARY PURPOSES
14	DURING WINTER MONTHS WHEN GROUND IS FROZEN, VIRTUALLY ALL MANEUVER ACRES CAN BE USED FOR MECHANIZED EXERCISES. DURING SUMMER MONTHS, 646,000 ACRES AT FORT WAINWRIGHT ARE WETLAND ACRES
15	FORT WAINWRIGHT HAS A NON LIVE-FIRE MILITARY OPERATIONS IN URBAN TERRAIN (MOUT) PLYWOOD CITY

	DATA NOTES
REMARKS	EXPLANATORY NOTES
1	THE BLACK RAPIDS TRAINING FACILITY IS USED INTERMITTENTLY FOR TRAINING ONLY. THE NEW OPEN BAY BARRACKS CONSTRUCTED THERE IN FY 93 DOES NOT MEET SPACE CRITERIA FOR PERMANENT UEPH. BOLIO LAKE BARRACKS FACILITIES ARE INCLUDED UNDER FORT GREELY UEPH ASSETS. THERE IS NO EXCESS SPACE
1	EXCESS UNITS AT FORT GREELY ARE BEING DIVERTED/CONVERTED TO OTHER USES
2	(1) THE MILITARY FAIR SHARE FOR FT GREELY IS 5, AS REPORTED TO USARPAC ON 10 MAY 94 IN RESPONSE TO A DA REQUEST FOR THE CORRECTION OF AFH PLANNING DATA. (2) THE STOCK OF ADEQUATE RENTALS WITHIN COMMUTING DISTANCE OF INSTALLATION, AS IDENTIFIED BY THE PRIVATE AND MUNICIPAL SURVEYS AND VERIFIED BY THE DPW HOUSING OFFICE IS 211. THE VACANCY RATE IN THE SURROUNDING COMMUNITY AT FORT GREELY IS APPROXIMATELY 20 PERCENT
3	COSTED AS A SUBINSTALLATION, INCLUDED UNDER FT RICHARDSON ACCOUNT
4	WITHDRAWN K AND L MONIES RETURNED TO THE INSTALLATION THROUGH A SPECIAL DOD APPROPRIATION.
5	COSTED AS A SUBINSTALLATION, INCLUDED UNDER BASE COMMUNICATIONS COST FOR FORT RICHARDSON, AK ($166,700.00)
6	FORT GREELY HAS WHAT IS ESSENTIALLY A WINTER AIRFIELD, SINCE LOAD BEARING CAPABILITY INCREASES APPRECIABLY WITH FREEZING. FORT GREELY HAS A 7,500 FT RUNWAY AND HAS BEEN ABLE TO LAND C-5s DURING WINTER MONTHS. AIRFIELD CONDITIONS DURING OTHER THAN WINTER MONTHS DO NOT PERMIT THE FT GREELY AIRFIELD TO BE USED FOR LANDING LARGER, HEAVIER AIRCRAFT (i.e. C-141s, 747s)
7	THERE ARE NO DESIGNATED INTER-STATE HIGHWAYS IN ALASKA
8	THE SULLIVAN ROADHOUSE, A STRUCTURE BUILT IN APPROXIMATELY 1906 DURING THE GOLD RUSH ERA AND OPERATING UNTIL 1923 IS LOCATED IN A REMOTE SECTION OF FORT GREELY. THE STRUCTURE IS NO LONGER ACCESSIBLE BY OTHER THAN HELICOPTER. FORT GREELY NO LONGER MAINTAINS IT OTHER THAN TO PROTECT IT FROM FOREST FIRES. AN OLD MINERS' CABIN LOCATED ON PTARMIGAN CREEK HAS BEEN NOMINATED FOR THE REGISTER, BUT HAS YET TO BE INCLUDED
9	SOLID WASTE IS TAKEN TO A BURN PIT FROM WHICH THE REMAINS ARE TAKEN TO A LANDFILL ON FORT GREELY. THE AVERAGE VOLUME OF SOLID WASTE GENERATED PER CAPITA IS 2.4 CF/DAY. THE VOLUME GOING TO THE LANDFILL IS 0.21 CF/DAY PER CAPITA.
10	WHILE NOT CURRENTLY USED FOR MECHANIZED MANEUVERS (BECAUSE OF A LACK OF ASSIGNED MECHANIZED UNITS) VIRTUALLY ALL OF THE INSTALLATIONS 638,912 CONTIGUOUS MANEUVER ACRES ARE MECHANIZED MANEUVER CAPABLE DURING WINTER MONTHS. DURING THE SUMMER, 300,000 ACRES OF THIS AREA ARE WETLANDS

INSTALLATION	OFF	ENL	STU	%AFH	CIV	TOTAL FAC	OFF VHA	EN VHA	PERDIEM	ACF	RPMA-NON	COMMO	BOS-NON	BOS-PAY	AFH
ABERDEEN PG	436	1847	2987	0.762	6771	[illegible]	[illegible]	[illegible]	[illegible]	0.92	34274	0	124706	50936	7649
ANNISTON ARMY DEPOT	7	6	0	0	3798	[illegible]	[illegible]	[illegible]	[illegible]	0.77	16006	331	7115	17294	46
CARLISLE BARRACKS	185	222	334	0.641	760	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	2413	1538	4803	10304	2841
DETROIT ARSENAL	151	43	0	0.03	4035	1771000	117	14	110	1.22	8383	0	25763	18113	7297
DUGWAY PG	28	169	0	1	687	[illegible]	[illegible]	46	96	0.97	6150	0	23666	9666	2942
FITZSIMONS AMC	496	620	250	0.348	1748	2414000	128	127	116	1.08	20344	135	11032	13108	1652
FORT AP HILL	18	103	0	0.325	212	1120000	116	166	69	0.8	2040	0	4598	2369	0
FORT BELVOIR	1188	1970	689	0.935	11134	7086000	209	256	161	1.03	18803	0	60637	31237	30132
FORT BENNING	1423	[illegible]	8191	0.549	[illegible]	20043000	[illegible]	[illegible]	74	0.76	23878	2954	50994	57528	17957
FORT BLISS	[illegible]	[illegible]	2196	0.438	[illegible]	12968000	31	82	88	0.98	25043	4526	64637	52130	13155
FORT BRAGG	5512	36499	1752	0.191	4976	19263000	98	77	69	0.8	24492	9266	97041	64694	26962
FORT BUCHANAN	84	331	18	1	553	1230000	600	180	170	1.05	3986	856	9106	6071	3699
FORT CAMPBELL	2811	19531	0	0.308	3493	11627000	0	20	67	0.99	20237	3984	53774	35849	22442
FORT CARSON	1927	16338	0	0.149	2320	8791000	173	64	77	1.12	15637	3815	45911	30607	8336
FORT CHAFFEE	6	61	182	0	250	4849000	0	0	68	0.92	9096	0	16806	14025	303
FORT DETRICK	219	592	3	0.28	3005	1470000	196	196	89	0.83	5971	0	15111	17739	595
FORT DIX	278	645	22	1	1523	6728000	267	266	108	1.19	9126	631	36365	24243	11803
FORT DRUM	1210	9379	0	0.679	2063	11813000	64	87	84	1.19	14689	1547	54841	36561	37197
FORT EUSTIS	[illegible]	[illegible]	1734	0.436	2440	4915000	199	129	117	0.86	9889	2718	24551	23364	8289
FORT GILLEM	399	606	0	0.014	531	6527000	175	133	119	0.97	1149	568	3629	2419	259
FORT GORDON	[illegible]	[illegible]	5046	0.217	2386	9727000	[illegible]	[illegible]	70	0.83	12264	2850	45142	26441	4626
FORT GREELY	44	379	51	1	341	978000	430	400	165	2.17	2962	73	6079	4776	380
FORT HAMILTON	35	303	0	1	221	808000	610	302	180	1.23	2833	357	11424	7616	7772
FORT HOOD	4918	40382	0	0.199	3837	17324000	47	44	99	0.9	20547	2663	75836	50557	31426
FORT HUACHUCA	[illegible]	[illegible]	207	0.51	3160	5886000	49	67	72	1.12	12450	4908	40042	35499	11216
FORT HUNTER LIGGETT	55	353	0	0.069	425	730000	366	298	96	1.44	2169	414	4795	3197	73
FORT INDIANTOWN GAP	33	119	529	0.019	461	4276000	42	32	109	1.05	6122	0	18730	11154	89
FORT JACKSON	572	2852	10220	0.45	2379	8639000	60	74	63	0.73	10814	2139	22168	30860	48334
FORT KNOX	1042	7135	8462	0.707	1726	11681000	10	20	94	0.98	20640	3734	64696	57385	21603
FORT LEAVENWORTH	[illegible]	1185	2071	0.497	1745	4063000	143	64	86	1.06	10188	2166	32527	31813	11648
FORT LEE	747	2290	[illegible]	0.662	3046	8224000	57	[illegible]	70	0.83	10050	4166	16128	24139	9870
FORT LEONARD WOOD	580	3460	8927	1	1962	8249000	0	0	82	1.1	17391	1481	26644	19014	17218
FORT LEWIS	2320	15499	0	0.302	3668	18009000	140	130	86	1.08	19939	4392	76730	51154	18861
FORT MC COY	58	162	399	0.517	1572	6721000	0	0	86	1.33	12148	1117	33104	22069	719
FORT MCCLELLAN	400	1771	4227	0.332	1221	6839000	0	0	67	0.78	8007	1832	16521	20246	2921
FORT MCPHERSON	619	848	0	0.089	2166	1606000	176	133	119	0.96	5500	1563	18600	12400	1974
FORT MEADE	2069	8604	312	0.546	24704	5242000	323	361	110	1.03	16043	0	44745	23050	19717
FORT MONMOUTH	521	1727	170	1	6551	6050000	477	336	102	1.19	13001	0	60417	39183	3861
FORT MONROE	585	278	31	0.289	1569	2058000	199	129	117	0.86	5194	1868	1822	12862	2519
FORT PICKETT	1	12	0	0	247	4849000	57	63	70	0.92	3776	0	9300	6200	73
FORT RICHARDSON	178	2089	0	1	1294	4506000	694	472	241	1.73	7824	120	26997	21212	15461
FORT RILEY	1609	13171	0	0.357	2171	8470000	36	0	79	0.98	16732	1939	42275	28183	19148
FORT RITCHIE	89	941	0	0.478	1042	887000	63	40	96	0.92	7446	0	18029	9287	23458
FORT RUCKER	1265	2075	2087	0.522	2369	[illegible]	0	0	69	0.78	11654	5010	18182	55767	6952
FORT SILL	[illegible]	[illegible]	8765	0.195	2666	[illegible]	70	20	71	0.88	30026	3161	67631	37993	8320
FORT STEWART	1692	16886	0	0.267	2885	9928000	12	74	79	0.81	16004	2277	45842	30561	12212
FORT TOTTEN	64	206	0	0.647	291	693000	610	302	180	1.23	346	0	1224	816	855
FORT WAINWRIGHT	512	3991	0	0.845	858	6764000	430	400	165	1.97	13592	121	23826	18721	16758
KELLY SUPPORT CENTER	44	95	0	0	141	751000	128	37	109	1.1	601	196	2440	1627	0
LETTERKENNY ARMY DEP	19	58	0	1	3404	6336000	29	0	66	1.02	6300	630	39769	16501	416
NATICK RDEC	38	83	0	0.926	1100	716000	617	327	139	1.28	5089	0	20680	13979	0
PICATINNY ARSENAL	65	76	0	1	3762	3818000	418	290	84	1.29	12741	0	13445	30147	4137
PRICE SUPPORT CENTER	6	37	0	1	135	2801000	104	67	112	1.14	1916	0	9582	3914	3446
RED RIVER ARMY DEPOT	9	6	0	1	4025	7745000	0	0	66	0.94	18440	912	53676	21924	191
REDSTONE ARSENAL	435	2097	1076	0.877	11091	9275000	70	0	89	0.78	22156	0	78214	49150	11965
ROCK ISLAND ARSENAL															2606
SAVANNA DEPOT	2	2	59	1	393	4097000	0	0	73	1.08	1694	0	5132	2096	119
SCHOFIELD BARRACKS	1647	15763	0	0.473	1532	8788000	666	664	107	1.73	8224	8953	67507	53041	26168
SELFRIDGE	69	233	0	1	163	2169000	317	64	118	1.22	832	0	1295	2384	5850
SENECA DEPOT	4	5	0	1	318	4474000	202	95	93	1.19	2128	0	2515	1027	0
SIERRA DEPOT	21	352	0	0.522	646	6324000	0	0	66	1.43	4798	0	24904	3564	777
TERMINAL BAYONNE	46	128	0	1	1784	5026000	418	290	125	1.21	2501	0	16482	166	443
TERMINAL OAKLAND	43	71	0	0.667	1017	3331000	478	366	109	1.37	1959	0	12638	128	2027
WALTER REED AMC															
WHITE SANDS MR	120	694	0	1	6697	6346000	66	41	74	1.06	13748	0	67701	27653	5399
YUMA PG	34	234	0	1	1818	1706000	120	153	84	1.11	5300	0	19455	7946	3533
AVERAGE	719.55	4317.61	1123.5	0.67	2733.81	8164912.8	[illegible]	[illegible]	100.92	1.08	10870.25	1436.42	31231.13	22588.42	8384.55

6697474 - 858000 =

8085888 - 2015,000

14567728 - 2355000

Document Separator

Name: FORT LEE, VA

Total Officer Employees:	751	RPMA Non-Payroll ($K/Year):	10,050
Total Enlisted Employees:	2,312	Communications ($K/Year):	4,166
Total Student Employees:	4,658	BOS Non-Payroll ($K/Year):	16,128
Total Civilian Employees:	3,057	BOS Payroll ($K/Year):	24,140
Mil Families Living On Base:	66.0%	Family Housing ($K/Year):	9,871
Civilians Not Willing To Move:	6.0%	Area Cost Factor:	0.83
Officer Housing Units Avail:	0	CHAMPUS In-Pat ($/Visit):	0
Enlisted Housing Units Avail:	0	CHAMPUS Out-Pat ($/Visit):	0
Total Base Facilities(KSF):	5,224	CHAMPUS Shift to Medicare:	
0.0%			
Officer VHA ($/Month):	44	Activity Code:	51315
Enlisted VHA ($/Month):	80		
Per Diem Rate ($/Day):	70	Homeowner Assistance Program:	No
Freight Cost ($/Ton/Mile):	0.07	Unique Activity Information:	No

Name: FORT HUACHUCA, AZ

Total Officer Employees:	793	RPMA Non-Payroll ($K/Year):	12,450
Total Enlisted Employees:	4,813	Communications ($K/Year):	4,908
Total Student Employees:	2,073	BOS Non-Payroll ($K/Year):	40,042
Total Civilian Employees:	3,180	BOS Payroll ($K/Year):	35,499
Mil Families Living On Base:	51.0%	Family Housing ($K/Year):	11,216
Civilians Not Willing To Move:	6.0%	Area Cost Factor:	1.12
Officer Housing Units Avail:	0	CHAMPUS In-Pat ($/Visit):	0
Enlisted Housing Units Avail:	0	CHAMPUS Out-Pat ($/Visit):	0
Total Base Facilities(KSF):	5,886	CHAMPUS Shift to Medicare:	
0.0%			
Officer VHA ($/Month):	25	Activity Code:	4005
Enlisted VHA ($/Month):	51		
Per Diem Rate ($/Day):	76	Homeowner Assistance Program:	No
Freight Cost ($/Ton/Mile):	0.07	Unique Activity Information:	No

Help File DataBase Input Data Reports Windows Quit 13:33:50

Screen Four - Base Information (Static)

Base: LONE STAR AAP

Total Officers (1995):	2	RPMA Non-Payroll ($K/Yr):	456
Total Enlisted (1995):	0	Communication Costs ($K/Yr):	0
Total Students (1995):	0	BOS Non-Payroll ($K/Yr):	1215
Total Civilians (1995):	30	BOS Payroll ($K/Yr):	453
		Fam Housing Costs ($K/Yr):	0
% Mil Families On Base:	0.0 %		
% Civs Not Will to Move:	6.0 %	Area Cost Factor:	0.94
Off Housing Units Vacant:	0	CHAMPUS In-Patient($/Vis):	0
Enl Housing Units Vacant:	0	CHAMPUS Out-Patient($/Vis):	0
Total Facilities (KSF):	3099	CHAMPUS Shift to Medicare:	1.0 %
Officer VHA ($/Month):	21	Activity Code:	48305
Enlisted VHA ($/Month):	2		
		[ ] Homeowner Assistance Program	
Per Diem Rate ($/Day):	73	[ ] Unique Activity Information	
Freight Cost ($/Ton/Mi):	0.07		

Next Previous Done

ESC-Close window F1-Help APSCR4 COBRA v5.08, R&K Engineering, Inc, 1991-4

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  Help  File  DataBase  Input Data  Reports  Windows  Quit          12:22:04
èë[±]ëëëëëëëëëëëëëë Screen Four - Base Information (Static) ëëëëëëëëëëëëëëëëëëë£
¤ Base:  TOBYHANNA ARMY DEPOT, PA                                             ¤
¤     Total Officers (1995): 15          RPMA Non-Payroll ($K/Yr):    13130   ¤
¤     Total Enlisted (1995):      100  Communication Costs ($K/Yr):     419   ¤
¤     Total Students (1995):        0      BOS Non-Payroll ($K/Yr):    5920   ¤
¤    Total Civilians (1995):     3602          BOS Payroll ($K/Yr):   13064   ¤
¤                                       Fam Housing Costs ($K/Yr):      373   ¤
¤    % Mil Families On Base:     95.4 %                                       ¤
¤   % Civs Not Will to Move:      0.6 %              Area Cost Factor:   1.20   ¤
¤                                                                             ¤
¤  Off Housing Units Vacant:        0   CHAMPUS In-Patient($/Vis):        0   ¤
¤  Enl Housing Units Vacant:        0  CHAMPUS Out-Patient($/Vis):        0   ¤
¤    Total Facilities (KSF):     4231   CHAMPUS Shift to Medicare:      0.0 %¤
¤                                                                             ¤
¤     Officer VHA ($/Month):       69                Activity Code: 42780     ¤
¤    Enlisted VHA ($/Month):       49                                         ¤
¤                                       [ ] Homeowner Assistance Program      ¤
¤     Per Diem Rate ($/Day):       82   [ ] Unique Activity Information       ¤
¤   Freight Cost ($/Ton/Mi):     0.07                                         ¤
¤                                                                             ¤
¤                                     Next    É     Previous É      Done    É ¤
¤                                   ôôôôôôôôôô     ôôôôôôôôôô     ôôôôôôôôôô ¤
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 ESC-Close window  F1-Help  DE2&3-2L  COBRA v5.08, R&K Engineering, Inc, 1991-4
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  Help  File  DataBase  Input Data  Reports  Windows  Quit                12:19:24
èë[±]ëëëëëëëëëëëëë Screen Four - Base Information (Static) ëëëëëëëëëëëëëëëëëëë£
¤ Base:  RED RIVER ARMY DEPOT, TX                                               ¤
¤     Total Officers (1995): 8              RPMA Non-Payroll ($K/Yr):    14500  ¤
¤     Total Enlisted (1995):       6     Communication Costs ($K/Yr):      850  ¤
¤     Total Students (1995):       0         BOS Non-Payroll ($K/Yr):    32450  ¤
¤    Total Civilians (1995):    2957             BOS Payroll ($K/Yr):    13250  ¤
¤                                          Fam Housing Costs ($K/Yr):      446  ¤
¤    % Mil Families On Base:     100.0 %                                        ¤
¤   % Civs Not Will to Move:       6.0 %                Area Cost Factor:  0.94  ¤
¤                                                                               ¤
¤  Off Housing Units Vacant:       0       CHAMPUS In-Patient($/Vis):        0  ¤
¤  Enl Housing Units Vacant:       0      CHAMPUS Out-Patient($/Vis):        0  ¤
¤     Total Facilities (KSF):   7745      CHAMPUS Shift to Medicare:       0.0 %¤
¤                                                                               ¤
¤     Officer VHA ($/Month):      21                 Activity Code: 48515       ¤
¤    Enlisted VHA ($/Month):       2                                            ¤
¤                                          [X] Homeowner Assistance Program     ¤
¤     Per Diem Rate ($/Day):      73       [ ] Unique Activity Information      ¤
¤   Freight Cost ($/Ton/Mi):    0.07                                            ¤
¤                                                                               ¤
¤                                        Next    É     Previous É       Done   É ¤
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 ESC-Close window  F1-Help  DE2&3-2R  COBRA v5.08, R&K Engineering, Inc, 1991-4
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  Help  File  DataBase  Input Data  Reports  Windows  Quit              12:_1:21
èë[±]ëëëëëëëëëëëëëë Screen Four - Base Information (Static) ëëëëëëëëëëëëëëëëëëë
¤ Base:  LETTERKENNY ARMY DEP, PA                                              =
¤     Total Officers (1995): 17          RPMA Non-Payroll ($K/Yr):     6_00  =
¤     Total Enlisted (1995):       56   Communication Costs ($K/Yr):      _00  =
¤     Total Students (1995):        0       BOS Non-Payroll ($K/Yr):   34_00  =
¤    Total Civilians (1995):     2944           BOS Payroll ($K/Yr):    __10  =
¤                                         Fam Housing Costs ($K/Yr):     __0  =
¤    % Mil Families On Base:    100.0 %                                        =
¤   % Civs Not Will to Move:      6.0 %              Area Cost Factor:   _.02  =
¤                                                                              =
¤  Off Housing Units Vacant:        0     CHAMPUS In-Patient($/Vis):        0  =
¤  Enl Housing Units Vacant:        0    CHAMPUS Out-Patient($/Vis):        0  =
¤    Total Facilities (KSF):     8336     CHAMPUS Shift to Medicare:      _.0 %=
¤                                                                              =
¤     Officer VHA ($/Month):        0                 Activity Code: 4234_     =
¤    Enlisted VHA ($/Month):        1                                          =
¤                                         [X] Homeowner Assistance Progr__     =
¤     Per Diem Rate ($/Day):       66     [ ] Unique Activity Informatic_      =
¤   Freight Cost ($/Ton/Mi):     0.07                                          =
¤                                                                              =
¤                                         Next    É     Previous É      Done    É =
¤                                       ôôôôôôôôôô    ôôôôôôôôôô     ôôôôôôôôôô =
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 ESC-Close window  F1-Help  DE2&3-2L  COBRA v5.08, R&K Engineering, Inc, _991-4
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  Help  File  DataBase  Input Data  Reports  Windows  Quit              12:27:53
èë[±]ëëëëëëëëëëëëë Screen Four - Base Information (Static) ëëëëëëëëëëëëëëëëëë£
¤ Base:  CORPUS CHRISTI DEPOT, TX                                              ¤
¤     Total Officers (1995): 10          RPMA Non-Payroll ($K/Yr):        906  ¤
¤     Total Enlisted (1995):         12   Communication Costs ($K/Yr):       0  ¤
¤     Total Students (1995):          0        BOS Non-Payroll ($K/Yr):    25770  ¤
¤    Total Civilians (1995):       2857            BOS Payroll ($K/Yr):    13284  ¤
¤                                          Fam Housing Costs ($K/Yr):        0  ¤
¤     % Mil Families On Base:       0.0 %                                       ¤
¤   % Civs Not Will to Move:        6.0 %              Area Cost Factor:     0.84  ¤
¤                                                                               ¤
¤  Off Housing Units Vacant:          0    CHAMPUS In-Patient($/Vis):        0  ¤
¤  Enl Housing Units Vacant:          0   CHAMPUS Out-Patient($/Vis):        0  ¤
¤    Total Facilities (KSF):       1957    CHAMPUS Shift to Medicare:      0.0 %¤
¤                                                                               ¤
¤     Officer VHA ($/Month):         97              Activity Code: 48188       ¤
¤    Enlisted VHA ($/Month):        151                                         ¤
¤                                          [X] Homeowner Assistance Program     ¤
¤     Per Diem Rate ($/Day):         94    [ ] Unique Activity Information      ¤
¤   Freight Cost ($/Ton/Mi):       0.07                                         ¤
¤                                                                               ¤
¤                                    Next    É      Previous É        Done    É ¤
¤                                  ôôôôôôôôôô     ôôôôôôôôôô     ôôôôôôôôôô ¤
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 ESC-Close window  F1-Help  JCCADCH2  COBRA v5.08, R&K Engineering, Inc, 1991-4
```

Help File DataBase Input Data Reports Windows Quit 12:20:04

Screen Four - Base Information (Static)

Base: ANNISTON ARMY DEPOT, AL

Total Officers (1995):	7	RPMA Non-Payroll ($K/Yr):	3862
Total Enlisted (1995):	5	Communication Costs ($K/Yr):	818
Total Students (1995):	0	BOS Non-Payroll ($K/Yr):	21987
Total Civilians (1995):	3796	BOS Payroll ($K/Yr):	[illegible]
		Fam Housing Costs ($K/Yr):	36
% Mil Families On Base:	0.0 %		
% Civs Not Will to Move:	6.0 %	Area Cost Factor:	1.77
Off Housing Units Vacant:	0	CHAMPUS In-Patient($/Vis):	0
Enl Housing Units Vacant:	0	CHAMPUS Out-Patient($/Vis):	0
Total Facilities (KSF):	8482	CHAMPUS Shift to Medicare:	0.0 %
Officer VHA ($/Month):	0	Activity Code: 0101[illegible]	
Enlisted VHA ($/Month):	0		
		[ ] Homeowner Assistance Program	
Per Diem Rate ($/Day):	68	[ ] Unique Activity Information	
Freight Cost ($/Ton/Mi):	0.07		

Next Previous Done

ESC-Close window F1-Help DE2&3-2R COBRA v5.08, R&K Engineering, Inc, 1991-4

"LEASE"

COBRA Screen 4 data

Help File DataBase Input Data Reports Windows Quit 09:03:17

èë[±]ëëëëëëëëëëëëëë Screen Four - Base Information (Static) ëëëëëëëëëëëëëëëëëëë£

¤ Base: ATCOM, MO ¤

¤ Total Officers (1995): 163 RPMA Non-Payroll ($K/Yr): 7595 ¤

¤ Total Enlisted (1995): 84 Communication Costs ($K/Yr): 0 ¤

¤ Total Students (1995): 0 BOS Non-Payroll ($K/Yr): 0 ¤

¤ Total Civilians (1995): 3956 BOS Payroll ($K/Yr): 0 ¤

¤ Fam Housing Costs ($K/Yr): 0 ¤

¤ % Mil Families On Base: 0.0 % ¤

¤ % Civs Not Will to Move: 6.0 % Area Cost Factor: 1.02 ¤

¤ ¤

¤ Off Housing Units Vacant: 0 CHAMPUS In-Patient($/Vis): 0 ¤

¤ Enl Housing Units Vacant: 0 CHAMPUS Out-Patient($/Vis): 0 ¤

¤ Total Facilities (KSF): 1 CHAMPUS Shift to Medicare: 0.0 %¤

¤ ¤

¤ Officer VHA ($/Month): 121 Activity Code: 2979J ¤

¤ Enlisted VHA ($/Month): 77 ¤

¤ [ ] Homeowner Assistance Program ¤

¤ Per Diem Rate ($/Day): 112 [ ] Unique Activity Information ¤

¤ Freight Cost ($/Ton/Mi): 0.07 ¤

¤ ¤

¤ Next É Previous É Done É ¤

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ESC-Close window F1-Help STATIC COBRA v5.08, R&K Engineering, Inc, 1991-4

CMD & CNT'L"

Help File DataBase Input Data Reports Windows Quit 09:03:32

Screen Four - Base Information (Static)

Base: PRICE SUPPORT CENTER, IL

Total Officers (1995):	16	RPMA Non-Payroll ($K/Yr):	1916
Total Enlisted (1995):	134	Communication Costs ($K/Yr):	0
Total Students (1995):	0	BOS Non-Payroll ($K/Yr):	9582
Total Civilians (1995):	145	BOS Payroll ($K/Yr):	3914
		Fam Housing Costs ($K/Yr):	3466
% Mil Families On Base:	100.0 %		
% Civs Not Will to Move:	6.0 %	Area Cost Factor:	1.14
Off Housing Units Vacant:	0	CHAMPUS In-Patient($/Vis):	0
Enl Housing Units Vacant:	0	CHAMPUS Out-Patient($/Vis):	0
Total Facilities (KSF):	2801	CHAMPUS Shift to Medicare:	0.0 %
Officer VHA ($/Month):	121	Activity Code:	17255
Enlisted VHA ($/Month):	77		
		[ ] Homeowner Assistance Program	
Per Diem Rate ($/Day):	72	[ ] Unique Activity Information	
Freight Cost ($/Ton/Mi):	0.07		

Next Previous Done

ESC-Close window F1-Help STATIC COBRA v5.08, R&K Engineering, Inc, 1991-4

"Commodity"   COBRA Screen 4 data

Help File DataBase Input Data Reports Windows Quit   09:00:18

èë[±]ëëëëëëëëëëëëëë Screen Four - Base Information (Static) ëëëëëëëëëëëëëëëëëëë£

¤ Base: ADELPHI LAB CENTER, MD ¤

¤ Total Officers (1995): 15   RPMA Non-Payroll ($K/Yr): 5384 ¤

¤ Total Enlisted (1995): 8   Communication Costs ($K/Yr): 0 ¤

¤ Total Students (1995): 0   BOS Non-Payroll ($K/Yr): 22841 ¤

¤ Total Civilians (1995): 1185   BOS Payroll ($K/Yr): 9330 ¤

¤ Fam Housing Costs ($K/Yr): 0 ¤

¤ % Mil Families On Base: 0.0 % ¤

¤ % Civs Not Will to Move: 6.0 %   Area Cost Factor: 1.03 ¤

¤ ¤

¤ Off Housing Units Vacant: 0   CHAMPUS In-Patient($/Vis): 0 ¤

¤ Enl Housing Units Vacant: 0   CHAMPUS Out-Patient($/Vis): 0 ¤

¤ Total Facilities (KSF): 751   CHAMPUS Shift to Medicare: 0.0 %¤

¤ ¤

¤ Officer VHA ($/Month): 462   Activity Code: 24234 ¤

¤ Enlisted VHA ($/Month): 332 ¤

¤ [ ] Homeowner Assistance Program ¤

¤ Per Diem Rate ($/Day): 151   [ ] Unique Activity Information ¤

¤ Freight Cost ($/Ton/Mi): 0.07 ¤

¤ ¤

¤ Next É   Previous É   Done É ¤

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ESC-Close window F1-Help STATIC COBRA v5.08, R&K Engineering, Inc, 1991-4

"Commodity"   COBRA Screen 4 data

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 Help File DataBase Input Data Reports Windows Quit        09:00:54
èë[ ± ]ëëëëëëëëëëëëëë Screen Four - Base Information (Static) ëëëëëëëëëëëëëëëëëëëë£
¤ Base: CRREL, NH                                                        ¤
¤   Total Officers (1995): 0        RPMA Non-Payroll ($K/Yr):    913  ¤
¤   Total Enlisted (1995):      0  Communication Costs ($K/Yr):      0  ¤
¤   Total Students (1995):      0     BOS Non-Payroll ($K/Yr):     4343  ¤
¤  Total Civilians (1995):     194       BOS Payroll ($K/Yr):      592  ¤
¤                              Fam Housing Costs ($K/Yr):        0  ¤
¤   % Mil Families On Base:     0.0 %                                   ¤
¤  % Civs Not Will to Move:     6.0 %         Area Cost Factor:    1.00  ¤
¤                                                                       ¤
¤ Off Housing Units Vacant:       0   CHAMPUS In-Patient($/Vis):        0  ¤
¤ Enl Housing Units Vacant:       0  CHAMPUS Out-Patient($/Vis):        0  ¤
¤  Total Facilities (KSF):     259   CHAMPUS Shift to Medicare:     0.0 %¤
¤                                                                       ¤
¤   Officer VHA ($/Month):     329          Activity Code: 33450    ¤
¤  Enlisted VHA ($/Month):     229                                      ¤
¤                             [ ] Homeowner Assistance Program    ¤
¤   Per Diem Rate ($/Day):     120    [ ] Unique Activity Information    ¤
¤ Freight Cost ($/Ton/Mi):     0.07                                     ¤
¤                                                                       ¤
¤                            Next  É     Previous É      Done  É ¤
¤                         ÔÔÔÔÔÔÔÔÔÔ   ÔÔÔÔÔÔÔÔÔÔ   ÔÔÔÔÔÔÔÔÔÔ ¤
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 ESC-Close window  F1-Help   STATIC   COBRA v5.08, R&K Engineering, Inc, 1991-4
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"Commodity"

COBRA Screen 4 data

Help File DataBase Input Data Reports Windows Quit 09:01:11

èë[±]ëëëëëëëëëëëëëëë Screen Four - Base Information (Static) ëëëëëëëëëëëëëëëëëëëë£

¤ Base: DETROIT ARSENAL, MI ¤

¤ Total Officers (1995): 151 RPMA Non-Payroll ($K/Yr): 8383 ¤

¤ Total Enlisted (1995): 43 Communication Costs ($K/Yr): 0 ¤

¤ Total Students (1995): 0 BOS Non-Payroll ($K/Yr): 25763 ¤

¤ Total Civilians (1995): 4035 BOS Payroll ($K/Yr): 18113 ¤

¤ Fam Housing Costs ($K/Yr): 6956 ¤

¤ % Mil Families On Base: 3.0 % ¤

¤ % Civs Not Will to Move: 6.0 % Area Cost Factor: 1.22 ¤

¤ ¤

¤ Off Housing Units Vacant: 0 CHAMPUS In-Patient($/Vis): 0 ¤

¤ Enl Housing Units Vacant: 0 CHAMPUS Out-Patient($/Vis): 0 ¤

¤ Total Facilities (KSF): 2905 CHAMPUS Shift to Medicare: 0.0 %¤

¤ ¤

¤ Officer VHA ($/Month): 264 Activity Code: 26155 ¤

¤ Enlisted VHA ($/Month): 75 ¤

¤ [ ] Homeowner Assistance Program ¤

¤ Per Diem Rate ($/Day): 117 [ ] Unique Activity Information ¤

¤ Freight Cost ($/Ton/Mi): 0.07 ¤

¤ ¤

¤ Next É Previous É Done É ¤

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ESC-Close window F1-Help STATIC COBRA v5.08, R&K Engineering, Inc, 1991-4

"Commodity"   COBRA Screen 4 data

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 Help File DataBase Input Data Reports Windows Quit       09:01:28
èë[ ± ]ëëëëëëëëëëëëëëë Screen Four - Base Information (Static) ëëëëëëëëëëëëëëëëëëëë£
¤ Base: FORT DETRICK, MD                                  ¤
¤   Total Officers (1995): 222     RPMA Non-Payroll ($K/Yr):   5972 ¤
¤   Total Enlisted (1995):    592  Communication Costs ($K/Yr):     0 ¤
¤   Total Students (1995):      3   BOS Non-Payroll ($K/Yr):  15111 ¤
¤  Total Civilians (1995):   3005     BOS Payroll ($K/Yr):  17739 ¤
¤                          Fam Housing Costs ($K/Yr):    596 ¤
¤  % Mil Families On Base:   28.0 %                        ¤
¤  % Civs Not Will to Move:   6.0 %      Area Cost Factor:   0.83 ¤
¤                                            ¤
¤ Off Housing Units Vacant:     0  CHAMPUS In-Patient($/Vis):     0 ¤
¤ Enl Housing Units Vacant:     0  CHAMPUS Out-Patient($/Vis):     0 ¤
¤  Total Facilities (KSF):   1469  CHAMPUS Shift to Medicare:   0.0 %¤
¤                                            ¤
¤   Officer VHA ($/Month):    196          Activity Code: 24225  ¤
¤  Enlisted VHA ($/Month):    198                           ¤
¤                        [ ] Homeowner Assistance Program  ¤
¤   Per Diem Rate ($/Day):    89   [ ] Unique Activity Information  ¤
¤  Freight Cost ($/Ton/Mi):   0.07                          ¤
¤                                            ¤
¤                       Next  É   Previous É    Done  É ¤
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 ESC-Close window  F1-Help  STATIC  COBRA v5.08, R&K Engineering, Inc, 1991-4
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"Commodity"   COBRA Screen 4 data

Help File DataBase Input Data Reports Windows Quit 09:01:41

èë[±]ëëëëëëëëëëëëëëë Screen Four - Base Information (Static) ëëëëëëëëëëëëëëëëëëëë£
¤ Base: FORT MONMOUTH, NJ ¤
¤ Total Officers (1995): 416 RPMA Non-Payroll ($K/Yr): 13001 ¤
¤ Total Enlisted (1995): 505 Communication Costs ($K/Yr): 0 ¤
¤ Total Students (1995): 406 BOS Non-Payroll ($K/Yr): 60417 ¤
¤ Total Civilians (1995): 7341 BOS Payroll ($K/Yr): 39183 ¤
¤ Fam Housing Costs ($K/Yr): 3861 ¤
¤ % Mil Families On Base: 100.0 % ¤
¤ % Civs Not Will to Move: 6.0 % Area Cost Factor: 1.19 ¤
¤ ¤
¤ Off Housing Units Vacant: 0 CHAMPUS In-Patient($/Vis): 0 ¤
¤ Enl Housing Units Vacant: 0 CHAMPUS Out-Patient($/Vis): 0 ¤
¤ Total Facilities (KSF): 4474 CHAMPUS Shift to Medicare: 0.0 %¤
¤ ¤
¤ Officer VHA ($/Month): 441 Activity Code: 34555 ¤
¤ Enlisted VHA ($/Month): 261 ¤
¤ [ ] Homeowner Assistance Program ¤
¤ Per Diem Rate ($/Day): 103 [ ] Unique Activity Information ¤
¤ Freight Cost ($/Ton/Mi): 0.07 ¤
¤ ¤
¤ Next É Previous É Done É ¤
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ESC-Close window F1-Help STATIC COBRA v5.08, R&K Engineering, Inc, 1991-4

"Commodity"   COBRA Screen 4 data

Help File DataBase Input Data Reports Windows Quit 09:02:04

èë[±]ëëëëëëëëëëëëëë Screen Four - Base Information (Static) ëëëëëëëëëëëëëëëëëëë£

¤ Base: NATICK RDEC, MA ¤

¤ Total Officers (1995): 38 RPMA Non-Payroll ($K/Yr): 5089 ¤

¤ Total Enlisted (1995): 83 Communication Costs ($K/Yr): 0 ¤

¤ Total Students (1995): 0 BOS Non-Payroll ($K/Yr): 20680 ¤

¤ Total Civilians (1995): 1100 BOS Payroll ($K/Yr): 13979 ¤

¤ Fam Housing Costs ($K/Yr): 1457 ¤

¤ % Mil Families On Base: 92.6 % ¤

¤ % Civs Not Will to Move: 6.0 % Area Cost Factor: 1.28 ¤

¤ ¤

¤ Off Housing Units Vacant: 0 CHAMPUS In-Patient($/Vis): 0 ¤

¤ Enl Housing Units Vacant: 0 CHAMPUS Out-Patient($/Vis): 0 ¤

¤ Total Facilities (KSF): 716 CHAMPUS Shift to Medicare: 0.0 %¤

¤ ¤

¤ Officer VHA ($/Month): 452 Activity Code: 25690 ¤

¤ Enlisted VHA ($/Month): 317 ¤

¤ [ ] Homeowner Assistance Program ¤

¤ Per Diem Rate ($/Day): 139 [ ] Unique Activity Information ¤

¤ Freight Cost ($/Ton/Mi): 0.07 ¤

¤ ¤

¤ Next É Previous É Done É ¤

¤ ôôôôôôôôôô ôôôôôôôôôô ôôôôôôôôôô ¤

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ESC-Close window F1-Help STATIC COBRA v5.08, R&K Engineering, Inc, 1991-4

"Commodity"   COBRA Screen 4 data

```
 Help  File  DataBase  Input Data  Reports  Windows  Quit          09:02:15
èë[ ± ]ëëëëëëëëëëëëëë Screen Four - Base Information (Static) ëëëëëëëëëëëëëëëëëëë£
¤ Base:  PICATINNY ARSENAL, NJ                                        ¤
¤    Total Officers (1995): 76        RPMA Non-Payroll ($K/Yr):    12741  ¤
¤    Total Enlisted (1995):      84   Communication Costs ($K/Yr):     0  ¤
¤    Total Students (1995):       0   BOS Non-Payroll ($K/Yr):    13445  ¤
¤   Total Civilians (1995):    3784      BOS Payroll ($K/Yr):    30147  ¤
¤                               Fam Housing Costs ($K/Yr):    4048  ¤
¤   % Mil Families On Base:     100.0 %                               ¤
¤  % Civs Not Will to Move:      6.0 %          Area Cost Factor:    1.29  ¤
¤                                                   ¤
¤  Off Housing Units Vacant:      0   CHAMPUS In-Patient($/Vis):      0  ¤
¤  Enl Housing Units Vacant:      0   CHAMPUS Out-Patient($/Vis):      0  ¤
¤   Total Facilities (KSF):    3818   CHAMPUS Shift to Medicare:     0.0 %¤
¤                                                   ¤
¤    Officer VHA ($/Month):      384          Activity Code: 34855     ¤
¤   Enlisted VHA ($/Month):      245                                  ¤
¤                           [ ] Homeowner Assistance Program     ¤
¤    Per Diem Rate ($/Day):      118   [ ] Unique Activity Information    ¤
¤  Freight Cost ($/Ton/Mi):     0.07                                  ¤
¤                                                   ¤
¤                        Next  É    Previous É     Done  É ¤
¤                       ÔÔÔÔÔÔÔÔÔÔ   ÔÔÔÔÔÔÔÔÔÔ   ÔÔÔÔÔÔÔÔÔÔ ¤
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ESC-Close window  F1-Help   STATIC   COBRA v5.08, R&K Engineering, Inc, 1991-4
```

"Commodity" COBRA Screen 4 data

```
 Help File DataBase Input Data Reports Windows Quit        09:02:36
èë[ ± ]ëëëëëëëëëëëëëë Screen Four - Base Information (Static) ëëëëëëëëëëëëëëëëëëëë£
¤ Base: REDSTONE ARSENAL, AL                                      ¤
¤   Total Officers (1995): 377      RPMA Non-Payroll ($K/Yr):  22156 ¤
¤   Total Enlisted (1995):    1097  Communication Costs ($K/Yr):     0 ¤
¤   Total Students (1995):    1076     BOS Non-Payroll ($K/Yr):  78214 ¤
¤  Total Civilians (1995):  11073        BOS Payroll ($K/Yr):  49150 ¤
¤                         Fam Housing Costs ($K/Yr):  11406 ¤
¤  % Mil Families On Base:    87.7 %                          ¤
¤  % Civs Not Will to Move:    6.0 %        Area Cost Factor:   0.78 ¤
¤                                              ¤
¤ Off Housing Units Vacant:       0   CHAMPUS In-Patient($/Vis):      0 ¤
¤ Enl Housing Units Vacant:       0   CHAMPUS Out-Patient($/Vis):      0 ¤
¤  Total Facilities (KSF):   9275   CHAMPUS Shift to Medicare:   0.0 %¤
¤                                              ¤
¤   Officer VHA ($/Month):    102           Activity Code: 1202    ¤
¤  Enlisted VHA ($/Month):      0                           ¤
¤                        [ ] Homeowner Assistance Program   ¤
¤   Per Diem Rate ($/Day):     92   [ ] Unique Activity Information   ¤
¤  Freight Cost ($/Ton/Mi):   0.07                           ¤
¤                                              ¤
¤                       Next  É    Previous É    Done  É ¤
¤                     ôôôôôôôôôô   ôôôôôôôôôô    ôôôôôôôôôô ¤
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 ESC-Close window  F1-Help   STATIC   COBRA v5.08, R&K Engineering, Inc, 1991-4
```

"Commodity"   COBRA Screen 4 data

```
 Help  File  DataBase  Input Data  Reports  Windows  Quit          09:03:04
èë[ ± ]ëëëëëëëëëëëëëë Screen Four - Base Information (Static) ëëëëëëëëëëëëëëëëëëëë£
¤ Base: ROCK ISLAND ARSENAL, IL                                          ¤
¤    Total Officers (1995): 162        RPMA Non-Payroll ($K/Yr):     5209 ¤
¤    Total Enlisted (1995):      356  Communication Costs ($K/Yr):      0 ¤
¤    Total Students (1995):      194      BOS Non-Payroll ($K/Yr):  10016 ¤
¤   Total Civilians (1995):     7881          BOS Payroll ($K/Yr):  22049 ¤
¤                               Fam Housing Costs ($K/Yr):     2606 ¤
¤   % Mil Families On Base:    15.4 %                                  ¤
¤  % Civs Not Will to Move:     6.0 %       Area Cost Factor:    1.11 ¤
¤                                                                      ¤
¤ Off Housing Units Vacant:      0   CHAMPUS In-Patient($/Vis):      0 ¤
¤ Enl Housing Units Vacant:      0  CHAMPUS Out-Patient($/Vis):      0 ¤
¤   Total Facilities (KSF):   6487   CHAMPUS Shift to Medicare:    0.0 %¤
¤                                                                      ¤
¤    Officer VHA ($/Month):     35         Activity Code: 17775        ¤
¤   Enlisted VHA ($/Month):      7                                     ¤
¤                           [ ] Homeowner Assistance Program           ¤
¤    Per Diem Rate ($/Day):     90    [ ] Unique Activity Information  ¤
¤  Freight Cost ($/Ton/Mi):   0.07                                     ¤
¤                                                                      ¤
¤                          Next  É    Previous É     Done  É ¤
¤                      ôôôôôôôôôô   ôôôôôôôôôô   ôôôôôôôôôô ¤
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 ESC-Close window  F1-Help  STATIC  COBRA v5.08, R&K Engineering, Inc, 1991-4
```

```
  Help  File  DataBase  Input Data  Reports  Windows  Quit              10:01:44
èë[±]ëëëëëëëëëëëëëë Screen Four - Base Information (Static) ëëëëëëëëëëëëëëëëëëë£
¤ Base:  ABERDEEN PG, MD                                                        ¤
¤     Total Officers (1995): 446          RPMA Non-Payroll ($K/Yr):     34274  ¤
¤     Total Enlisted (1995):      1863  Communication Costs ($K/Yr):        0  ¤
¤     Total Students (1995):      2996      BOS Non-Payroll ($K/Yr):   124706  ¤
¤    Total Civilians (1995):      6771          BOS Payroll ($K/Yr):    50936  ¤
¤                                         Fam Housing Costs ($K/Yr):     7292  ¤
¤    % Mil Families On Base:      76.2 %                                        ¤
¤   % Civs Not Will to Move:       6.0 %              Area Cost Factor:    0.92  ¤
¤                                                                               ¤
¤  Off Housing Units Vacant:         0      CHAMPUS In-Patient($/Vis):        0  ¤
¤  Enl Housing Units Vacant:         0     CHAMPUS Out-Patient($/Vis):        0  ¤
¤    Total Facilities (KSF):     12121      CHAMPUS Shift to Medicare:      0.0 %¤
¤                                                                               ¤
¤     Officer VHA ($/Month):       130                 Activity Code: 24015     ¤
¤    Enlisted VHA ($/Month):       155                                          ¤
¤                                           [ ] Homeowner Assistance Program    ¤
¤     Per Diem Rate ($/Day):       116      [ ] Unique Activity Information     ¤
¤   Freight Cost ($/Ton/Mi):      0.07                                          ¤
¤                                                                               ¤
¤                                      Next    É      Previous É       Done    É ¤
¤                                     ôôôôôôôôôô     ôôôôôôôôôô     ôôôôôôôôôô ¤
àëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëë¥
 ESC-Close window  F1-Help   (none)   COBRA v5.08, R&K Engineering, Inc, 1991-4
```

Help File DataBase Input Data Reports Windows Quit 10:02:03

Screen Four - Base Information (Static)

Base: DUGWAY PG, UT

Total Officers (1995):	28	RPMA Non-Payroll ($K/Yr):	6150
Total Enlisted (1995):	169	Communication Costs ($K/Yr):	0
Total Students (1995):	0	BOS Non-Payroll ($K/Yr):	23666
Total Civilians (1995):	687	BOS Payroll ($K/Yr):	9667
		Fam Housing Costs ($K/Yr):	2089
% Mil Families On Base:	100.0 %		
% Civs Not Will to Move:	6.0 %	Area Cost Factor:	0.97
Off Housing Units Vacant:	0	CHAMPUS In-Patient($/Vis):	0
Enl Housing Units Vacant:	0	CHAMPUS Out-Patient($/Vis):	0
Total Facilities (KSF):	1596	CHAMPUS Shift to Medicare:	0.0 %
Officer VHA ($/Month):	113	Activity Code:	49295
Enlisted VHA ($/Month):	61		
		[X] Homeowner Assistance Program	
Per Diem Rate ($/Day):	98	[ ] Unique Activity Information	
Freight Cost ($/Ton/Mi):	0.07		

Next Previous Done

ESC-Close window F1-Help (none) COBRA v5.08, R&K Engineering, Inc, 1991-4

Help File DataBase Input Data Reports Windows Quit 10:18:36

Screen Four - Base Information (Static)

Base: WSMR, NM

Total Officers (1995):	120	RPMA Non-Payroll ($K/Yr):	13747
Total Enlisted (1995):	694	Communication Costs ($K/Yr):	0
Total Students (1995):	0	BOS Non-Payroll ($K/Yr):	67701
Total Civilians (1995):	3143	BOS Payroll ($K/Yr):	27653
		Fam Housing Costs ($K/Yr):	5405
% Mil Families On Base:	100.0 %		
% Civs Not Will to Move:	6.0 %	Area Cost Factor:	1.06
Off Housing Units Vacant:	0	CHAMPUS In-Patient($/Vis):	0
Enl Housing Units Vacant:	0	CHAMPUS Out-Patient($/Vis):	0
Total Facilities (KSF):	4368	CHAMPUS Shift to Medicare:	0.0
Officer VHA ($/Month):	79	Activity Code:	35955
Enlisted VHA ($/Month):	113		
		[ ] Homeowner Assistance Program	
Per Diem Rate ($/Day):	76	[ ] Unique Activity Information	
Freight Cost ($/Ton/Mi):	0.07		

Next Previous Done

ESC-Close window F1-Help TE3-2X1 COBRA v5.08, R&K Engineering, Inc, 1991-4

```
  Help  File  DataBase  Input Data  Reports  Windows  Quit              10:02:29
èë[±]ëëëëëëëëëëëëë Screen Four - Base Information (Static) ëëëëëëëëëëëëëëëëë
¤ Base:  YUMA PG, AZ                                                           =
¤     Total Officers (1995): 34          RPMA Non-Payroll ($K/Yr):     5300   =
¤     Total Enlisted (1995):       234  Communication Costs ($K/Yr):      0   =
¤     Total Students (1995):         0      BOS Non-Payroll ($K/Yr):  19455   =
¤    Total Civilians (1995):      1518          BOS Payroll ($K/Yr):   7946   =
¤                                        Fam Housing Costs ($K/Yr):    3597   =
¤    % Mil Families On Base:     100.0 %                                       =
¤   % Civs Not Will to Move:       6.0 %            Area Cost Factor:    1.11  =
¤                                                                              =
¤  Off Housing Units Vacant:         0      CHAMPUS In-Patient($/Vis):    0   =
¤  Enl Housing Units Vacant:         0    CHAMPUS Out-Patient($/Vis):     0   =
¤    Total Facilities (KSF):      1353    CHAMPUS Shift to Medicare:    0.0 %=
¤                                                                              =
¤      Officer VHA ($/Month):      250              Activity Code: 4985        =
¤     Enlisted VHA ($/Month):      138                                         =
¤                                        [ ] Homeowner Assistance Program     =
¤      Per Diem Rate ($/Day):       86   [ ] Unique Activity Information      =
¤    Freight Cost ($/Ton/Mi):     0.07                                         =
¤                                                                              =
¤                                     Next    É     Previous É       Done    É =
¤                                     ôôôôôôôôôô    ôôôôôôôôôô     ôôôôôôôôôô =
àëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëë¥
 ESC-Close window   F1-Help    (none)    COBRA v5.08, R&K Engineering, Inc, 1991-4
```

Help File DataBase Input Data Reports Windows Quit 10:08:50

Screen Four - Base Information (Static)

Base: MDW MTMC, VA

Total Officers (1995):	46	RPMA Non-Payroll ($K/Yr):	2600
Total Enlisted (1995):	13	Communication Costs ($K/Yr):	0
Total Students (1995):	0	BOS Non-Payroll ($K/Yr):	0
Total Civilians (1995):	661	BOS Payroll ($K/Yr):	0
		Fam Housing Costs ($K/Yr):	0
% Mil Families On Base:	0.0 %		
% Civs Not Will to Move:	6.0 %	Area Cost Factor:	1.00
Off Housing Units Vacant:	0	CHAMPUS In-Patient($/Vis):	0
Enl Housing Units Vacant:	0	CHAMPUS Out-Patient($/Vis):	0
Total Facilities (KSF):	1	CHAMPUS Shift to Medicare:	0.0 %
Officer VHA ($/Month):	462	Activity Code:	XROAD
Enlisted VHA ($/Month):	332		
		[ ] Homeowner Assistance Program	
Per Diem Rate ($/Day):	152	[ ] Unique Activity Information	
Freight Cost ($/Ton/Mi):	0.07		

Next Previous Done

ESC-Close window F1-Help LE6-3X10 COBRA v5.08, R&K Engineering, Inc, 1991-4

```
  Help  File  DataBase  Input Data  Reports  Windows  Quit            10:10:08
èë[±]ëëëëëëëëëëëëë Screen Four - Base Information (Static) ëëëëëëëëëëëëëëëëëë£
¤ Base:  USA SPACE COMMAND, CO                                                ¤
¤     Total Officers (1995): 145          RPMA Non-Payroll ($K/Yr):      518  ¤
¤     Total Enlisted (1995):     218   Communication Costs ($K/Yr):        0  ¤
¤     Total Students (1995):       0      BOS Non-Payroll ($K/Yr):         0  ¤
¤    Total Civilians (1995):      97          BOS Payroll ($K/Yr):         0  ¤
¤                                       Fam Housing Costs ($K/Yr):         0  ¤
¤    % Mil Families On Base:     0.0 %                                        ¤
¤   % Civs Not Will to Move:     6.0 %           Area Cost Factor:      1.12  ¤
¤                                                                             ¤
¤  Off Housing Units Vacant:       0    CHAMPUS In-Patient($/Vis):         0  ¤
¤  Enl Housing Units Vacant:       0   CHAMPUS Out-Patient($/Vis):         0  ¤
¤    Total Facilities (KSF):       1    CHAMPUS Shift to Medicare:       0.0 %¤
¤                                                                             ¤
¤     Officer VHA ($/Month):      73                 Activity Code: LE7       ¤
¤    Enlisted VHA ($/Month):      54                                          ¤
¤                                       [ ] Homeowner Assistance Program      ¤
¤     Per Diem Rate ($/Day):      77    [ ] Unique Activity Information       ¤
¤   Freight Cost ($/Ton/Mi):    0.07                                          ¤
¤                                                                             ¤
¤                                    Next    É     Previous É       Done    É ¤
¤                                  ôôôôôôôôôô     ôôôôôôôôôô      ôôôôôôôôôô  ¤
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 ESC-Close window   F1-Help  LE7-1X2   COBRA v5.08, R&K Engineering, Inc, 1991-4
```

Help File DataBase Input Data Reports Windows Quit 10:10:48

Screen Four - Base Information (Static)

Base: USACAA, MD

Total Officers (1995):	56	RPMA Non-Payroll ($K/Yr):	1496
Total Enlisted (1995):	1	Communication Costs ($K/Yr):	0
Total Students (1995):	0	BOS Non-Payroll ($K/Yr):	0
Total Civilians (1995):	144	BOS Payroll ($K/Yr):	0
		Fam Housing Costs ($K/Yr):	0
% Mil Families On Base:	0.0 %		
% Civs Not Will to Move:	6.0 %	Area Cost Factor:	1.00
Off Housing Units Vacant:	0	CHAMPUS In-Patient($/Vis):	0
Enl Housing Units Vacant:	0	CHAMPUS Out-Patient($/Vis):	0
Total Facilities (KSF):	1	CHAMPUS Shift to Medicare:	0.0 %
Officer VHA ($/Month):	462	Activity Code:	CAA
Enlisted VHA ($/Month):	358		
		[ ] Homeowner Assistance Program	
Per Diem Rate ($/Day):	151	[ ] Unique Activity Information	
Freight Cost ($/Ton/Mi):	0.07		

Next Previous Done

ESC-Close window F1-Help LE8-1X11 COBRA v5.08, R&K Engineering, Inc, 1991-4

Help File DataBase Input Data Reports Windows Quit 10:1[illegible]:43

Screen Four - Base Information (Static)

Base: ARMY RESEARCH OFFICE, NC

Total Officers (1995):	2	RPMA Non-Payroll ($K/Yr):	5[illegible]0
Total Enlisted (1995):	0	Communication Costs ($K/Yr):	0
Total Students (1995):	0	BOS Non-Payroll ($K/Yr):	0
Total Civilians (1995):	117	BOS Payroll ($K/Yr):	0
		Fam Housing Costs ($K/Yr):	0
% Mil Families On Base:	0.0 %		
% Civs Not Will to Move:	6.0 %	Area Cost Factor:	0.[illegible]5
Off Housing Units Vacant:	0	CHAMPUS In-Patient($/Vis):	0
Enl Housing Units Vacant:	0	CHAMPUS Out-Patient($/Vis):	0
Total Facilities (KSF):	1	CHAMPUS Shift to Medicare:	0.0 %
Officer VHA ($/Month):	99	Activity Code: LE9	
Enlisted VHA ($/Month):	80		
		[ ] Homeowner Assistance Program	
Per Diem Rate ($/Day):	104	[ ] Unique Activity Information	
Freight Cost ($/Ton/Mi):	0.07		

Next Previous Done

ESC-Close window F1-Help LE9-1X1 COBRA v5.08, R&K Engineering, Inc, 1991-4

Help File DataBase Input Data Reports Windows Quit 10:05:14

Screen Four - Base Information (Static)

Base: CROWN RIDGE, VA

Total Officers (1995):	141	RPMA Non-Payroll ($K/Yr):	2143
Total Enlisted (1995):	0	Communication Costs ($K/Yr):	0
Total Students (1995):	0	BOS Non-Payroll ($K/Yr):	0
Total Civilians (1995):	191	BOS Payroll ($K/Yr):	0
		Fam Housing Costs ($K/Yr):	0
% Mil Families On Base:	0.0 %		
% Civs Not Will to Move:	6.0 %	Area Cost Factor:	1.03
Off Housing Units Vacant:	0	CHAMPUS In-Patient($/Vis):	0
Enl Housing Units Vacant:	0	CHAMPUS Out-Patient($/Vis):	0
Total Facilities (KSF):	1	CHAMPUS Shift to Medicare:	0.0 %
Officer VHA ($/Month):	462	Activity Code:	CRRDG
Enlisted VHA ($/Month):	332		
Per Diem Rate ($/Day):	152		
Freight Cost ($/Ton/Mi):	0.07		

[ ] Homeowner Assistance Program
[ ] Unique Activity Information

Next Previous Done

ESC-Close window F1-Help LE11-1X8 COBRA v5.08, R&K Engineering, Inc, 1991-4

Help File DataBase Input Data Reports Windows Quit 10:07:19

èë[±]ëëëëëëëëëëëëë Screen Four - Base Information (Static) ëëëëëëëëëëëëëëëëëë£

Base: USARPERCEN, MO

Total Officers (1995):	288	RPMA Non-Payroll ($K/Yr):	7500
Total Enlisted (1995):	440	Communication Costs ($K/Yr):	0
Total Students (1995):	0	BOS Non-Payroll ($K/Yr):	0
Total Civilians (1995):	1474	BOS Payroll ($K/Yr):	0
		Fam Housing Costs ($K/Yr):	0
% Mil Families On Base:	0.0 %		
% Civs Not Will to Move:	6.0 %	Area Cost Factor:	1.14
Off Housing Units Vacant:	0	CHAMPUS In-Patient($/Vis):	0
Enl Housing Units Vacant:	0	CHAMPUS Out-Patient($/Vis):	0
Total Facilities (KSF):	1	CHAMPUS Shift to Medicare:	0.0 %
Officer VHA ($/Month):	121	Activity Code:	ARPER
Enlisted VHA ($/Month):	77		
		[ ] Homeowner Assistance Program	
Per Diem Rate ($/Day):	112	[ ] Unique Activity Information	
Freight Cost ($/Ton/Mi):	0.07		

Next É Previous É Done É

ESC-Close window F1-Help LE4-3 COBRA v5.08, R&K Engineering, Inc, 1991-4

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  Help  File  DataBase  Input Data  Reports  Windows  Quit              10:07:52
èë[±]ëëëëëëëëëëëëëë Screen Four - Base Information (Static) ëëëëëëëëëëëëëëëëëëë£
¤ Base:  HQ SSDC, AL                                                            ¤
¤     Total Officers (1995): 33           RPMA Non-Payroll ($K/Yr):      3800  ¤
¤     Total Enlisted (1995):        2  Communication Costs ($K/Yr):         0  ¤
¤     Total Students (1995):        0      BOS Non-Payroll ($K/Yr):         0  ¤
¤    Total Civilians (1995):      915          BOS Payroll ($K/Yr):         0  ¤
¤                                        Fam Housing Costs ($K/Yr):         0  ¤
¤     % Mil Families On Base:     0.0 %                                        ¤
¤    % Civs Not Will to Move:     6.0 %           Area Cost Factor:      0.78  ¤
¤                                                                              ¤
¤  Off Housing Units Vacant:        0    CHAMPUS In-Patient($/Vis):         0  ¤
¤  Enl Housing Units Vacant:        0   CHAMPUS Out-Patient($/Vis):         0  ¤
¤    Total Facilities (KSF):        1    CHAMPUS Shift to Medicare:       0.0 %¤
¤                                                                              ¤
¤     Officer VHA ($/Month):       70                Activity Code: SDC        ¤
¤    Enlisted VHA ($/Month):        0                                          ¤
¤                                        [ ] Homeowner Assistance Program      ¤
¤     Per Diem Rate ($/Day):       89    [ ] Unique Activity Information       ¤
¤   Freight Cost ($/Ton/Mi):     0.07                                          ¤
¤                                                                              ¤
¤                                      Next    É     Previous É       Done    É ¤
¤                                     ôôôôôôôôôô    ôôôôôôôôôô     ôôôôôôôôôô ¤
àëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëë¥
 ESC-Close window  F1-Help   LE5-1    COBRA v5.08, R&K Engineering, Inc, 1991-4
```

Help File DataBase Input Data Reports Windows Quit 10:08:30

Screen Four - Base Information (Static)

Base: BAILEY'S JAG, VA

Total Officers (1995):	64	RPMA Non-Payroll ($K/Yr):	500
Total Enlisted (1995):	0	Communication Costs ($K/Yr):	0
Total Students (1995):	0	BOS Non-Payroll ($K/Yr):	0
Total Civilians (1995):	41	BOS Payroll ($K/Yr):	0
		Fam Housing Costs ($K/Yr):	0
% Mil Families On Base:	0.0 %		
% Civs Not Will to Move:	6.0 %	Area Cost Factor:	1.00
Off Housing Units Vacant:	0	CHAMPUS In-Patient($/Vis):	0
Enl Housing Units Vacant:	0	CHAMPUS Out-Patient($/Vis):	0
Total Facilities (KSF):	1	CHAMPUS Shift to Medicare:	0.0 %
Officer VHA ($/Month):	462	Activity Code:	XROAD
Enlisted VHA ($/Month):	332		
		[ ] Homeowner Assistance Program	
Per Diem Rate ($/Day):	152	[ ] Unique Activity Information	
Freight Cost ($/Ton/Mi):	0.07		

Next Previous Done

ESC-Close window F1-Help LE6-3X10 COBRA v5.08, R&K Engineering, Inc, 1991-4

Help File DataBase Input Data Reports Windows Quit 10:04:38

Screen Four - Base Information (Static)

Base: USAOPTEC, VA

Total Officers (1995):	27	RPMA Non-Payroll ($K/Yr):	150
Total Enlisted (1995):	10	Communication Costs ($K/Yr):	0
Total Students (1995):	0	BOS Non-Payroll ($K/Yr):	0
Total Civilians (1995):	47	BOS Payroll ($K/Yr):	0
		Fam Housing Costs ($K/Yr):	0
% Mil Families On Base:	0.0 %		
% Civs Not Will to Move:	6.0 %	Area Cost Factor:	1.03
Off Housing Units Vacant:	0	CHAMPUS In-Patient($/Vis):	0
Enl Housing Units Vacant:	0	CHAMPUS Out-Patient($/Vis):	0
Total Facilities (KSF):	1	CHAMPUS Shift to Medicare:	0.0 %
Officer VHA ($/Month):	462	Activity Code: OPTEC	
Enlisted VHA ($/Month):	332		
		[ ] Homeowner Assistance Program	
Per Diem Rate ($/Day):	152	[ ] Unique Activity Information	
Freight Cost ($/Ton/Mi):	0.07		

Next Previous Done

ESC-Close window F1-Help LE10-1X3 COBRA v5.08, R&K Engineering, Inc, 1991-4

```
  Help  File  DataBase  Input Data  Reports  Windows  Quit                10:03:44
èë[±]ëëëëëëëëëëëëëë Screen Four - Base Information (Static) ëëëëëëëëëëëëëëëëëëëëëëëë¸
¤ Base:  AMC, VA                                                                    ¤
¤     Total Officers (1995): 124            RPMA Non-Payroll ($K/Yr):      7900    ¤
¤     Total Enlisted (1995):       42   Communication Costs ($K/Yr):         0    ¤
¤     Total Students (1995):        0       BOS Non-Payroll ($K/Yr):         0    ¤
¤    Total Civilians (1995):     1229           BOS Payroll ($K/Yr):         0    ¤
¤                                         Fam Housing Costs ($K/Yr):         0    ¤
¤    % Mil Families On Base:      0.0 %                                           ¤
¤   % Civs Not Will to Move:      6.0 %            Area Cost Factor:      1.00    ¤
¤                                                                                 ¤
¤  Off Housing Units Vacant:        0     CHAMPUS In-Patient($/Vis):         0    ¤
¤  Enl Housing Units Vacant:        0    CHAMPUS Out-Patient($/Vis):         0    ¤
¤    Total Facilities (KSF):        1     CHAMPUS Shift to Medicare:       0.0 %  ¤
¤                                                                                 ¤
¤     Officer VHA ($/Month):      462                 Activity Code: LE1          ¤
¤    Enlisted VHA ($/Month):      332                                             ¤
¤                                          [ ] Homeowner Assistance Program       ¤
¤     Per Diem Rate ($/Day):      152      [ ] Unique Activity Information        ¤
¤   Freight Cost ($/Ton/Mi):     0.07                                             ¤
¤                                                                                 ¤
¤                                     Next   É     Previous É       Done   É     ¤
¤                                   ÔÔÔÔÔÔÔÔÔÔ    ÔÔÔÔÔÔÔÔÔÔ     ÔÔÔÔÔÔÔÔÔÔ     ¤
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 ESC-Close window  F1-Help  LE1-1X6   COBRA v5.08, R&K Engineering, Inc, 1991-4
```

```
  Help  File  DataBase  Input Data  Reports  Windows  Quit              10:13:49
èë[±]ëëëëëëëëëëëëëë Screen Four - Base Information (Static) ëëëëëëëëëëëëëëëëëëë£
¤ Base:  FSTC, VA                                                                ¤
¤     Total Officers (1995): 72            RPMA Non-Payroll ($K/Yr):      1680  ¤
¤     Total Enlisted (1995):      36   Communication Costs ($K/Yr):          0  ¤
¤     Total Students (1995):       0       BOS Non-Payroll ($K/Yr):          0  ¤
¤    Total Civilians (1995):     522           BOS Payroll ($K/Yr):          0  ¤
¤                                        Fam Housing Costs ($K/Yr):          0  ¤
¤    % Mil Families On Base:     0.0 %                                          ¤
¤   % Civs Not Will to Move:     6.0 %                Area Cost Factor:   0.88  ¤
¤                                                                               ¤
¤  Off Housing Units Vacant:       0     CHAMPUS In-Patient($/Vis):          0  ¤
¤  Enl Housing Units Vacant:       0    CHAMPUS Out-Patient($/Vis):          0  ¤
¤    Total Facilities (KSF):       1     CHAMPUS Shift to Medicare:        0.0 %¤
¤                                                                               ¤
¤     Officer VHA ($/Month):     189                Activity Code: LE13         ¤
¤    Enlisted VHA ($/Month):     124                                            ¤
¤                                        [ ] Homeowner Assistance Program       ¤
¤     Per Diem Rate ($/Day):      87     [ ] Unique Activity Information        ¤
¤   Freight Cost ($/Ton/Mi):    0.07                                            ¤
¤                                                                               ¤
¤                                      Next    É     Previous É       Done    É ¤
¤                                     ôôôôôôôôôô     ôôôôôôôôôô     ôôôôôôôôôô ¤
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 ESC-Close window  F1-Help   LE13-1   COBRA v5.08, R&K Engineering, Inc, 1991-4
```

```
  Help  File  DataBase  Input Data  Reports  Windows  Quit            10:14:23
èë[±]ëëëëëëëëëëëëë Screen Four - Base Information (Static) ëëëëëëëëëëëëëëëëëë
¤ Base:  JAG SCHOOL, VA                                                      ¤
¤     Total Officers (1995): 46          RPMA Non-Payroll ($K/Yr):     2000  ¤
¤     Total Enlisted (1995):      10  Communication Costs ($K/Yr):        0  ¤
¤     Total Students (1995):      86      BOS Non-Payroll ($K/Yr):        0  ¤
¤    Total Civilians (1995):      37          BOS Payroll ($K/Yr):        0  ¤
¤                                       Fam Housing Costs ($K/Yr):        0  ¤
¤    % Mil Families On Base:     0.0 %                                       ¤
¤   % Civs Not Will to Move:     6.0 %              Area Cost Factor:  0.88  ¤
¤                                                                            ¤
¤  Off Housing Units Vacant:       0    CHAMPUS In-Patient($/Vis):        0  ¤
¤  Enl Housing Units Vacant:       0   CHAMPUS Out-Patient($/Vis):        0  ¤
¤    Total Facilities (KSF):       1    CHAMPUS Shift to Medicare:    0.0 %¤
¤                                                                            ¤
¤     Officer VHA ($/Month):     189              Activity Code: LE14        ¤
¤    Enlisted VHA ($/Month):     124                                         ¤
¤                                       [ ] Homeowner Assistance Program     ¤
¤     Per Diem Rate ($/Day):      87    [ ] Unique Activity Information      ¤
¤   Freight Cost ($/Ton/Mi):    0.07                                         ¤
¤                                                                            ¤
¤                                   Next    É     Previous É      Done    É  ¤
¤                                 ôôôôôôôôôô     ôôôôôôôôôô     ôôôôôôôôôô  ¤
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 ESC-Close window  F1-Help  LE14-1X1  COBRA v5.08, R&K Engineering, Inc, 1991-4
```

Data As Of 09:32 03/08/1995, Report Created 09:33 03/08/1995

Department :
Option Package :
Scenario File : (none)
Std Fctrs File : (none)

INPUT SCREEN FOUR - STATIC BASE INFORMATION

Name: FT WAINWRIGHT, AK

Total Officer Employees:	512	RPMA Non-Payroll ($K/Year):	13,592
Total Enlisted Employees:	3,991	Communications ($K/Year):	121
Total Student Employees:	0	BOS Non-Payroll ($K/Year):	23,826
Total Civilian Employees:	858	BOS Payroll ($K/Year):	18,721
Mil Families Living On Base:	84.5%	Family Housing ($K/Year):	16,758
Civilians Not Willing To Move:	6.0%	Area Cost Factor:	1.97
Officer Housing Units Avail:	0	CHAMPUS In-Pat ($/Visit):	0
Enlisted Housing Units Avail:	0	CHAMPUS Out-Pat ($/Visit):	0
Total Base Facilities(KSF):	5,768	CHAMPUS Shift to Medicare:	
0.0%			
Officer VHA ($/Month):	386	Activity Code:	0281
Enlisted VHA ($/Month):	376		
Per Diem Rate ($/Day):	137	Homeowner Assistance Program:	No
Freight Cost ($/Ton/Mile):	0.07	Unique Activity Information:	No

Name: SCHOFIELD BARRACKS

Total Officer Employees:	1,647	RPMA Non-Payroll ($K/Year):	8,224
Total Enlisted Employees:	15,763	Communications ($K/Year):	8,953
Total Student Employees:	0	BOS Non-Payroll ($K/Year):	67,507
Total Civilian Employees:	1,532	BOS Payroll ($K/Year):	53,041
Mil Families Living On Base:	47.3%	Family Housing ($K/Year):	26,168
Civilians Not Willing To Move:	6.0%	Area Cost Factor:	1.73
Officer Housing Units Avail:	0	CHAMPUS In-Pat ($/Visit):	0
Enlisted Housing Units Avail:	0	CHAMPUS Out-Pat ($/Visit):	0
Total Base Facilities(KSF):	8,765	CHAMPUS Shift to Medicare:	
20.9%			
Officer VHA ($/Month):	679	Activity Code:	
Enlisted VHA ($/Month):	576		
Per Diem Rate ($/Day):	167	Homeowner Assistance Program:	No
Freight Cost ($/Ton/Mile):	0.07	Unique Activity Information:	No

Name: FT BRAGG

Total Officer Employees:	5,512	RPMA Non-Payroll ($K/Year):	24,492
Total Enlisted Employees:	36,499	Communications ($K/Year):	9,266
Total Student Employees:	1,752	BOS Non-Payroll ($K/Year):	97,041
Total Civilian Employees:	4,976	BOS Payroll ($K/Year):	64,694
Mil Families Living On Base:	19.1%	Family Housing ($K/Year):	26,962
Civilians Not Willing To Move:	6.0%	Area Cost Factor:	0.80
Officer Housing Units Avail:	0	CHAMPUS In-Pat ($/Visit):	0
Enlisted Housing Units Avail:	0	CHAMPUS Out-Pat ($/Visit):	0
Total Base Facilities(KSF):	19,263	CHAMPUS Shift to Medicare:	
20.9%			
Officer VHA ($/Month):	76	Activity Code:	
Enlisted VHA ($/Month):	75		
Per Diem Rate ($/Day):	71	Homeowner Assistance Program:	No
Freight Cost ($/Ton/Mile):	0.07	Unique Activity Information:	No

Name: FT CAMPBELL

Total Officer Employees:	2,811	RPMA Non-Payroll ($K/Year):	20,237
Total Enlisted Employees:	19,531	Communications ($K/Year):	3,984
Total Student Employees:	0	BOS Non-Payroll ($K/Year):	53,774
Total Civilian Employees:	3,493	BOS Payroll ($K/Year):	35,849
Mil Families Living On Base:	30.8%	Family Housing ($K/Year):	22,442
Civilians Not Willing To Move:	6.0%	Area Cost Factor:	0.99
Officer Housing Units Avail:	0	CHAMPUS In-Pat ($/Visit):	0
Enlisted Housing Units Avail:	0	CHAMPUS Out-Pat ($/Visit):	0
Total Base Facilities(KSF):	11,627	CHAMPUS Shift to Medicare:	
20.9%			
Officer VHA ($/Month):	0	Activity Code:	
Enlisted VHA ($/Month):	8		
Per Diem Rate ($/Day):	67	Homeowner Assistance Program:	No
Freight Cost ($/Ton/Mile):	0.07	Unique Activity Information:	No

Data As Of 09:32 03/08/1995, Report Created 09:33 03/08/1995

Department :
Option Package :
Scenario File : (none)
Std Fctrs File : (none)

INPUT SCREEN FOUR - STATIC BASE INFORMATION

Name: FT CARSON, CO

Total Officer Employees:	1,927	RPMA Non-Payroll ($K/Year):	15,637
Total Enlisted Employees:	16,338	Communications ($K/Year):	3,815
Total Student Employees:	0	BOS Non-Payroll ($K/Year):	45,911
Total Civilian Employees:	2,320	BOS Payroll ($K/Year):	30,607
Mil Families Living On Base:	14.9%	Family Housing ($K/Year):	8,336
Civilians Not Willing To Move:	6.0%	Area Cost Factor:	1.12
Officer Housing Units Avail:	0	CHAMPUS In-Pat ($/Visit):	0
Enlisted Housing Units Avail:	0	CHAMPUS Out-Pat ($/Visit):	0
Total Base Facilities(KSF):	8,791	CHAMPUS Shift to Medicare:	
20.9%			
Officer VHA ($/Month):	119	Activity Code:	
Enlisted VHA ($/Month):	100		
Per Diem Rate ($/Day):	81	Homeowner Assistance Program:	No
Freight Cost ($/Ton/Mile):	0.07	Unique Activity Information:	No

Name: FT DRUM, NY

Total Officer Employees:	1,210	RPMA Non-Payroll ($K/Year):	14,689
Total Enlisted Employees:	9,379	Communications ($K/Year):	1,547
Total Student Employees:	0	BOS Non-Payroll ($K/Year):	54,841
Total Civilian Employees:	2,063	BOS Payroll ($K/Year):	36,561
Mil Families Living On Base:	67.9%	Family Housing ($K/Year):	37,197
Civilians Not Willing To Move:	6.0%	Area Cost Factor:	1.19
Officer Housing Units Avail:	0	CHAMPUS In-Pat ($/Visit):	0
Enlisted Housing Units Avail:	0	CHAMPUS Out-Pat ($/Visit):	0
Total Base Facilities(KSF):	11,813	CHAMPUS Shift to Medicare:	
20.9%			
Officer VHA ($/Month):	39	Activity Code:	
Enlisted VHA ($/Month):	53		
Per Diem Rate ($/Day):	89	Homeowner Assistance Program:	No
Freight Cost ($/Ton/Mile):	0.07	Unique Activity Information:	No

Name: FT GREELY, AK

Total Officer Employees:	44	RPMA Non-Payroll ($K/Year):	2,962
Total Enlisted Employees:	379	Communications ($K/Year):	73
Total Student Employees:	35	BOS Non-Payroll ($K/Year):	6,079
Total Civilian Employees:	237	BOS Payroll ($K/Year):	4,776
Mil Families Living On Base:	100.0%	Family Housing ($K/Year):	5,210
Civilians Not Willing To Move:	0.6%	Area Cost Factor:	2.17
Officer Housing Units Avail:	0	CHAMPUS In-Pat ($/Visit):	0
Enlisted Housing Units Avail:	0	CHAMPUS Out-Pat ($/Visit):	0
Total Base Facilities(KSF):	1,032	CHAMPUS Shift to Medicare:	
0.0%			
Officer VHA ($/Month):	385	Activity Code:	02341
Enlisted VHA ($/Month):	378		
Per Diem Rate ($/Day):	137	Homeowner Assistance Program:	No
Freight Cost ($/Ton/Mile):	0.07	Unique Activity Information:	No

Name: FT HOOD, TX

Total Officer Employees:	4,918	RPMA Non-Payroll ($K/Year):	20,547
Total Enlisted Employees:	40,382	Communications ($K/Year):	2,663
Total Student Employees:	0	BOS Non-Payroll ($K/Year):	75,836
Total Civilian Employees:	3,837	BOS Payroll ($K/Year):	50,557
Mil Families Living On Base:	19.9%	Family Housing ($K/Year):	31,426
Civilians Not Willing To Move:	6.0%	Area Cost Factor:	0.90
Officer Housing Units Avail:	0	CHAMPUS In-Pat ($/Visit):	0
Enlisted Housing Units Avail:	0	CHAMPUS Out-Pat ($/Visit):	0
Total Base Facilities(KSF):	17,324	CHAMPUS Shift to Medicare:	
20.9%			
Officer VHA ($/Month):	115	Activity Code:	
Enlisted VHA ($/Month):	77		
Per Diem Rate ($/Day):	101	Homeowner Assistance Program:	No
Freight Cost ($/Ton/Mile):	0.07	Unique Activity Information:	No

Data As Of 09:32 03/08/1995, Report Created 09:33 03/08/1995

Department :
Option Package :
Scenario File : (none)
Std Fctrs File : (none)

INPUT SCREEN FOUR - STATIC BASE INFORMATION

Name: FT LEWIS

Total Officer Employees:	2,320	RPMA Non-Payroll ($K/Year):	19,939
Total Enlisted Employees:	15,499	Communications ($K/Year):	4,392
Total Student Employees:	0	BOS Non-Payroll ($K/Year):	76,730
Total Civilian Employees:	3,668	BOS Payroll ($K/Year):	51,154
Mil Families Living On Base:	30.2%	Family Housing ($K/Year):	18,861
Civilians Not Willing To Move:	6.0%	Area Cost Factor:	1.08
Officer Housing Units Avail:	0	CHAMPUS In-Pat ($/Visit):	0
Enlisted Housing Units Avail:	0	CHAMPUS Out-Pat ($/Visit):	0
Total Base Facilities(KSF):	18,009	CHAMPUS Shift to Medicare:	
20.9%			
Officer VHA ($/Month):	177	Activity Code:	
Enlisted VHA ($/Month):	112		
Per Diem Rate ($/Day):	81	Homeowner Assistance Program:	No
Freight Cost ($/Ton/Mile):	0.07	Unique Activity Information:	No

Name: FT RICHARDSON, AK

Total Officer Employees:	178	RPMA Non-Payroll ($K/Year):	7,824
Total Enlisted Employees:	2,089	Communications ($K/Year):	120
Total Student Employees:	0	BOS Non-Payroll ($K/Year):	26,997
Total Civilian Employees:	1,294	BOS Payroll ($K/Year):	21,212
Mil Families Living On Base:	100.0%	Family Housing ($K/Year):	15,461
Civilians Not Willing To Move:	6.0%	Area Cost Factor:	1.73
Officer Housing Units Avail:	0	CHAMPUS In-Pat ($/Visit):	0
Enlisted Housing Units Avail:	0	CHAMPUS Out-Pat ($/Visit):	0
Total Base Facilities(KSF):	4,723	CHAMPUS Shift to Medicare:	
0.0%			
Officer VHA ($/Month):	570	Activity Code:	02781
Enlisted VHA ($/Month):	479		
Per Diem Rate ($/Day):	159	Homeowner Assistance Program:	No
Freight Cost ($/Ton/Mile):	0.07	Unique Activity Information:	No

Name: FT RILEY

Total Officer Employees:	1,609	RPMA Non-Payroll ($K/Year):	16,732
Total Enlisted Employees:	13,171	Communications ($K/Year):	1,950
Total Student Employees:	0	BOS Non-Payroll ($K/Year):	42,499
Total Civilian Employees:	2,171	BOS Payroll ($K/Year):	28,332
Mil Families Living On Base:	35.7%	Family Housing ($K/Year):	19,149
Civilians Not Willing To Move:	6.0%	Area Cost Factor:	0.99
Officer Housing Units Avail:	0	CHAMPUS In-Pat ($/Visit):	0
Enlisted Housing Units Avail:	0	CHAMPUS Out-Pat ($/Visit):	0
Total Base Facilities(KSF):	8,470	CHAMPUS Shift to Medicare:	
20.9%			
Officer VHA ($/Month):	54	Activity Code:	
Enlisted VHA ($/Month):	0		
Per Diem Rate ($/Day):	79	Homeowner Assistance Program:	No
Freight Cost ($/Ton/Mile):	0.07	Unique Activity Information:	No

Name: FT STEWART

Total Officer Employees:	1,892	RPMA Non-Payroll ($K/Year):	16,004
Total Enlisted Employees:	16,886	Communications ($K/Year):	2,277
Total Student Employees:	0	BOS Non-Payroll ($K/Year):	45,842
Total Civilian Employees:	2,885	BOS Payroll ($K/Year):	30,561
Mil Families Living On Base:	26.7%	Family Housing ($K/Year):	12,212
Civilians Not Willing To Move:	6.0%	Area Cost Factor:	0.81
Officer Housing Units Avail:	0	CHAMPUS In-Pat ($/Visit):	0
Enlisted Housing Units Avail:	0	CHAMPUS Out-Pat ($/Visit):	0
Total Base Facilities(KSF):	9,928	CHAMPUS Shift to Medicare:	
20.9%			
Officer VHA ($/Month):	0	Activity Code:	
Enlisted VHA ($/Month):	49		
Per Diem Rate ($/Day):	79	Homeowner Assistance Program:	No
Freight Cost ($/Ton/Mile):	0.07	Unique Activity Information:	No

Data As Of 09:32 03/08/1995, Report Created 09:33 03/08/1995

Department :
Option Package :
Scenario File : (none)
Std Fctrs File : (none)

INPUT SCREEN FOUR - STATIC BASE INFORMATION

Name: FT WAINWRIGHT, AK

Total Officer Employees:	512	RPMA Non-Payroll ($K/Year):	13,592
Total Enlisted Employees:	3,991	Communications ($K/Year):	121
Total Student Employees:	0	BOS Non-Payroll ($K/Year):	23,826
Total Civilian Employees:	858	BOS Payroll ($K/Year):	18,721
Mil Families Living On Base:	84.5%	Family Housing ($K/Year):	16,758
Civilians Not Willing To Move:	6.0%	Area Cost Factor:	1.97
Officer Housing Units Avail:	0	CHAMPUS In-Pat ($/Visit):	0
Enlisted Housing Units Avail:	0	CHAMPUS Out-Pat ($/Visit):	0
Total Base Facilities(KSF):	5,768	CHAMPUS Shift to Medicare:	
0.0%			
Officer VHA ($/Month):	386	Activity Code:	0281
Enlisted VHA ($/Month):	376		
Per Diem Rate ($/Day):	137	Homeowner Assistance Program:	No
Freight Cost ($/Ton/Mile):	0.07	Unique Activity Information:	No

Name: SCHOFIELD BARRACKS

Total Officer Employees:	1,647	RPMA Non-Payroll ($K/Year):	8,224
Total Enlisted Employees:	15,763	Communications ($K/Year):	8,953
Total Student Employees:	0	BOS Non-Payroll ($K/Year):	67,507
Total Civilian Employees:	1,532	BOS Payroll ($K/Year):	53,041
Mil Families Living On Base:	47.3%	Family Housing ($K/Year):	26,168
Civilians Not Willing To Move:	6.0%	Area Cost Factor:	1.73
Officer Housing Units Avail:	0	CHAMPUS In-Pat ($/Visit):	0
Enlisted Housing Units Avail:	0	CHAMPUS Out-Pat ($/Visit):	0
Total Base Facilities(KSF):	8,765	CHAMPUS Shift to Medicare:	
20.9%			
Officer VHA ($/Month):	679	Activity Code:	
Enlisted VHA ($/Month):	576		
Per Diem Rate ($/Day):	167	Homeowner Assistance Program:	No
Freight Cost ($/Ton/Mile):	0.07	Unique Activity Information:	No

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  Help  File  DataBase  Input Data  Reports  Windows  Quit               13:16:[illegible]
èë[±]ëëëëëëëëëëëëë Screen Four - Base Information (Static) ëëëëëëëëëëëëëëëëëë
¤ Base:  DETROIT ARSENAL, MI                                                    
¤      Total Officers (1995): 151        RPMA Non-Payroll ($K/Yr):      [illegible]383
¤      Total Enlisted (1995):        43  Communication Costs ($K/Yr):         0
¤      Total Students (1995):         0       BOS Non-Payroll ($K/Yr):   [illegible]763
¤     Total Civilians (1995):      4035           BOS Payroll ($K/Yr):   [illegible]
¤                                         Fam Housing Costs ($K/Yr):     [illegible]956
¤     % Mil Families On Base:       3.0 %
¤    % Civs Not Will to Move:       6.0 %              Area Cost Factor:     [illegible].22
¤
¤   Off Housing Units Vacant:         0     CHAMPUS In-Patient($/Vis):         0
¤   Enl Housing Units Vacant:         0    CHAMPUS Out-Patient($/Vis):         0
¤     Total Facilities (KSF):      2905     CHAMPUS Shift to Medicare:       0.0 %
¤
¤      Officer VHA ($/Month):       264                Activity Code: 261[illegible]5
¤     Enlisted VHA ($/Month):        75
¤                                           [ ] Homeowner Assistance Program
¤      Per Diem Rate ($/Day):       117     [ ] Unique Activity Information
¤    Freight Cost ($/Ton/Mi):      0.07
¤
¤                                           Next    É      Previous É        Done    É
¤                                          ôôôôôôôôôô     ôôôôôôôôôô       ôôôôôôôôôô
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 ESC-Close window  F1-Help   CO3-1    COBRA v5.08, R&K Engineering, Inc, 1991-[illegible]
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  Help  File  DataBase  Input Data  Reports  Windows  Quit              13:17:34
èë[±]ëëëëëëëëëëëëë Screen Four - Base Information (Static) ëëëëëëëëëëëëëëëëëëë£
¤ Base:  LIMA TANK PLANT, OH                                                   ¤
¤     Total Officers (1995): 6              RPMA Non-Payroll ($K/Yr):     2300  ¤
¤     Total Enlisted (1995):         2  Communication Costs ($K/Yr):        6  ¤
¤     Total Students (1995):         0      BOS Non-Payroll ($K/Yr):     3400  ¤
¤    Total Civilians (1995):         1          BOS Payroll ($K/Yr):      50C  ¤
¤                                        Fam Housing Costs ($K/Yr):            ¤
¤    % Mil Families On Base:       0.0 %                                       ¤
¤   % Civs Not Will to Move:       6.0 %              Area Cost Factor:   0.91 ¤
¤                                                                              ¤
¤  Off Housing Units Vacant:         0     CHAMPUS In-Patient($/Vis):       C  ¤
¤  Enl Housing Units Vacant:         0    CHAMPUS Out-Patient($/Vis):       C  ¤
¤    Total Facilities (KSF):      1631     CHAMPUS Shift to Medicare:    0.C  %¤
¤                                                                              ¤
¤     Officer VHA ($/Month):         0                 Activity Code: 39335    ¤
¤    Enlisted VHA ($/Month):         1                                         ¤
¤                                          [X] Homeowner Assistance Program    ¤
¤     Per Diem Rate ($/Day):        66     [ ] Unique Activity Information     ¤
¤   Freight Cost ($/Ton/Mi):      0.07                                         ¤
¤                                                                              ¤
¤                                      Next    É     Previous É       Done    É ¤
¤                                     ôôôôôôôôôô     ôôôôôôôôôô     ôôôôôôôôôô ¤
àëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëë¥
 ESC-Close window  F1-Help    LIMA    COBRA v5.08, R&K Engineering, Inc, 1991-4
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  Help  File  DataBase  Input Data  Reports  Windows  Quit            13:14:59
èë[±]ëëëëëëëëëëëëëë Screen Four - Base Information (Static) ëëëëëëëëëëëëëëëëëëë£
¤ Base:  STRATFORD ARMY ENG, CT                                                 ¤
¤     Total Officers (1995): 2             RPMA Non-Payroll ($K/Yr):      4970  ¤
¤     Total Enlisted (1995):        0   Communication Costs ($K/Yr):         0  ¤
¤     Total Students (1995):        0       BOS Non-Payroll ($K/Yr):         0  ¤
¤    Total Civilians (1995):        0           BOS Payroll ($K/Yr): [illegible]  ¤
¤                                        Fam Housing Costs ($K/Yr): [illegible]  ¤
¤    % Mil Families On Base:      0.0 %                                         ¤
¤   % Civs Not Will to Move:      6.0 %            Area Cost Factor:      1.24  ¤
¤                                                                               ¤
¤  Off Housing Units Vacant:        0    CHAMPUS In-Patient($/Vis):          0  ¤
¤  Enl Housing Units Vacant:        0   CHAMPUS Out-Patient($/Vis):          0  ¤
¤     Total Facilities (KSF):     1638    CHAMPUS Shift to Medicare:       0.0 %¤
¤                                                                               ¤
¤      Officer VHA ($/Month):      502              Activity Code: 09540        ¤
¤     Enlisted VHA ($/Month):      292                                          ¤
¤                                        [ ] Homeowner Assistance Program       ¤
¤      Per Diem Rate ($/Day):      101   [ ] Unique Activity Information        ¤
¤    Freight Cost ($/Ton/Mi):     0.07                                          ¤
¤                                                                               ¤
¤                                     Next   É     Previous É       Done    É ¤
¤                                   ôôôôôôôôôô    ôôôôôôôôôô     ôôôôôôôôôô ¤
àëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëë¥
 ESC-Close window  F1-Help  STRAT-2   COBRA v5.08, R&K Engineering, Inc, 1991-4
```

```
  Help  File  DataBase  Input Data  Reports  Windows  Quit            13:34:58
èë[±]ëëëëëëëëëëëëë Screen Four - Base Information (Static) ëëëëëëëëëëëëëëëëëëë
¤ Base:  watervliet, NY                                                      =
¤     Total Officers (1995):       4    RPMA Non-Payroll ($K/Yr):     2305  =
¤     Total Enlisted (1995):       0  Communication Costs ($K/Yr):    1306  =
¤     Total Students (1995):       0      BOS Non-Payroll ($K/Yr):    3054  =
¤    Total Civilians (1995):    1553          BOS Payroll ($K/Yr):    8164  =
¤                                     Fam Housing Costs ($K/Yr):      472  =
¤    % Mil Families On Base:   100.0 %                                       =
¤   % Civs Not Will to Move:     6.0 %              Area Cost Factor:  1.10  =
¤                                                                            =
¤  Off Housing Units Vacant:       0    CHAMPUS In-Patient($/Vis):       0  =
¤  Enl Housing Units Vacant:       0   CHAMPUS Out-Patient($/Vis):       0  =
¤    Total Facilities (KSF):    2038    CHAMPUS Shift to Medicare:     0.0 %=
¤                                                                            =
¤      Officer VHA ($/Month):    214              Activity Code: 36990      =
¤     Enlisted VHA ($/Month):    171                                         =
¤                                     [X] Homeowner Assistance Program       =
¤      Per Diem Rate ($/Day):     98   [ ] Unique Activity Information       =
¤    Freight Cost ($/Ton/Mi):   0.07                                         =
¤                                                                            =
¤                                        Next    É    Previous É      Done   É =
¤                                      ôôôôôôôôôô    ôôôôôôôôôô     ôôôôôôôôôô =
àëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëë
 ESC-Close window   F1-Help    (none)    COBRA v5.08, R&K Engineering, Inc, 1991-4
```

Help File DataBase Input Data Reports Windows Quit 08:21:21

Screen Four - Base Information (Static)

Base: TERMINAL OAKLAND, CA

Total Officers (1995):	30	RPMA Non-Payroll ($K/Yr):	1959
Total Enlisted (1995):	37	Communication Costs ($K/Yr):	0
Total Students (1995):	0	BOS Non-Payroll ($K/Yr):	12638
Total Civilians (1995):	999	BOS Payroll ($K/Yr):	128
		Fam Housing Costs ($K/Yr):	2029
% Mil Families On Base:	66.7 %		
% Civs Not Will to Move:	6.0 %	Area Cost Factor:	1.37
Off Housing Units Vacant:	0	CHAMPUS In-Patient($/Vis):	0
Enl Housing Units Vacant:	0	CHAMPUS Out-Patient($/Vis):	0
Total Facilities (KSF):	3331	CHAMPUS Shift to Medicare:	0.0 %
Officer VHA ($/Month):	478	Activity Code:	6605
Enlisted VHA ($/Month):	365		
		[ ] Homeowner Assistance Program	
Per Diem Rate ($/Day):	109	[ ] Unique Activity Information	
Freight Cost ($/Ton/Mi):	0.07		

Next Previous Done

ESC-Close window F1-Help PO2-2C COBRA v5.08, R&K Engineering, Inc, 1991-4

```
  Help  File  DataBase  Input Data  Reports  Windows  Quit              08:1[illegible]:59
èë[±]ëëëëëëëëëëëëë Screen Four - Base Information (Static) ëëëëëëëëëëëëëëëëë£
¤ Base:  TERMINAL SUNNY POINT, NC                                                  ¤
¤     Total Officers (1995): 5             RPMA Non-Payroll ($K/Yr):    [illegible] ¤
¤     Total Enlisted (1995):         6   Communication Costs ($K/Yr):   [illegible] ¤
¤     Total Students (1995):         0      BOS Non-Payroll ($K/Yr):    [illegible] ¤
¤    Total Civilians (1995):       247          BOS Payroll ($K/Yr):    [illegible] ¤
¤                                         Fam Housing Costs ($K/Yr):    [illegible] ¤
¤    % Mil Families On Base:      62.5 %                                            ¤
¤   % Civs Not Will to Move:       6.0 %             Area Cost Factor:  [illegible] ¤
¤                                                                                   ¤
¤  Off Housing Units Vacant:         0    CHAMPUS In-Patient($/Vis):    [illegible] ¤
¤  Enl Housing Units Vacant:         0   CHAMPUS Out-Patient($/Vis):    [illegible] ¤
¤    Total Facilities (KSF):       207    CHAMPUS Shift to Medicare:  [illegible] % ¤
¤                                                                                   ¤
¤     Officer VHA ($/Month):       126              Activity Code: 37841            ¤
¤    Enlisted VHA ($/Month):        86                                              ¤
¤                                         [ ] Homeowner Assistance Program          ¤
¤     Per Diem Rate ($/Day):        75    [ ] Unique Activity Information           ¤
¤   Freight Cost ($/Ton/Mi):      0.07                                              ¤
¤                                                                                   ¤
¤                                        Next    É      Previous É       Done    É  ¤
¤                                       ôôôôôôôôôô      ôôôôôôôôôô      ôôôôôôôôôô  ¤
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 ESC-Close window  F1-Help   P01-3   COBRA v5.08, R&K Engineering, Inc, 19[illegible]1-4
```

```
  Help  File  DataBase  Input Data  Reports  Windows  Quit              13:41:25
èë[±]ëëëëëëëëëëëëë Screen Four - Base Information (Static) ëëëëëëëëëëëëëëëëëëë£
¤ Base:  RADFORD AAP                                                            ¤
¤     Total Officers (1995): 5             RPMA Non-Payroll ($K/Yr):        72  ¤
¤     Total Enlisted (1995):         2  Communication Costs ($K/Yr):         0  ¤
¤     Total Students (1995):         0      BOS Non-Payroll ($K/Yr):       185  ¤
¤    Total Civilians (1995):       132          BOS Payroll ($K/Yr):        76  ¤
¤                                          Fam Housing Costs ($K/Yr):        0  ¤
¤    % Mil Families On Base:       0.0 %                                        ¤
¤   % Civs Not Will to Move:       6.0 %           Area Cost Factor:      0.95  ¤
¤                                                                               ¤
¤  Off Housing Units Vacant:         0     CHAMPUS In-Patient($/Vis):        0  ¤
¤  Enl Housing Units Vacant:         0    CHAMPUS Out-Patient($/Vis):        0  ¤
¤    Total Facilities (KSF):      3387     CHAMPUS Shift to Medicare:      0.0 %¤
¤                                                                               ¤
¤     Officer VHA ($/Month):         0                 Activity Code: 51565     ¤
¤    Enlisted VHA ($/Month):         0                                          ¤
¤                                           [ ] Homeowner Assistance Program    ¤
¤     Per Diem Rate ($/Day):        66      [ ] Unique Activity Information     ¤
¤   Freight Cost ($/Ton/Mi):      0.07                                          ¤
¤                                                                               ¤
¤                                       Next    É     Previous É       Done    É ¤
¤                                      ôôôôôôôôôô    ôôôôôôôôôô    ôôôôôôôôôô ¤
àëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëë¥
 ESC-Close window  F1-Help   APSCR4   COBRA v5.08, R&K Engineering, Inc, 1991-4
```

```
  Help  File  DataBase  Input Data  Reports  Windows  Quit                 13:40:
èë[±]ëëëëëëëëëëëëë Screen Four - Base Information (Static) ëëëëëëëëëëëëëëëëëë£
¤ Base:  PINE BLUFF AAP                                                          ¤
¤     Total Officers (1995): 20          RPMA Non-Payroll ($K/Yr):     574      ¤
¤     Total Enlisted (1995):      80   Communication Costs ($K/Yr):             ¤
¤     Total Students (1995):       0       BOS Non-Payroll ($K/Yr):    2650     ¤
¤    Total Civilians (1995):     985           BOS Payroll ($K/Yr):    1082     ¤
¤                                        Fam Housing Costs ($K/Yr):             ¤
¤    % Mil Families On Base:    54.0 %                                           ¤
¤   % Civs Not Will to Move:     6.0 %              Area Cost Factor:    0.7    ¤
¤                                                                                ¤
¤  Off Housing Units Vacant:       0     CHAMPUS In-Patient($/Vis):             ¤
¤  Enl Housing Units Vacant:       0    CHAMPUS Out-Patient($/Vis):             ¤
¤    Total Facilities (KSF):    3470     CHAMPUS Shift to Medicare:      0.   %¤
¤                                                                                ¤
¤      Officer VHA ($/Month):      0                 Activity Code: 05087       ¤
¤    Enlisted VHA ($/Month):       0                                             ¤
¤                                        [ ] Homeowner Assistance Program       ¤
¤      Per Diem Rate ($/Day):     69     [ ] Unique Activity Information        ¤
¤    Freight Cost ($/Ton/Mi):   0.00                                             ¤
¤                                                                                ¤
¤                                         Next    É     Previous É      Done    É ¤
¤                                       ôôôôôôôôôô    ôôôôôôôôôô     ôôôôôôôôôô ¤
àëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëë¥
 ESC-Close window  F1-Help   APSCR4   COBRA v5.08, R&K Engineering, Inc, 199 -4
```

```
  Help  File  DataBase  Input Data  Reports  Windows  Quit              13:40:18
èë[±]ëëëëëëëëëëëëëë Screen Four - Base Information (Static) ëëëëëëëëëëëëëëëëëëë£
¤ Base:  MILAN AAP                                                             ¤
¤     Total Officers (1995): 2             RPMA Non-Payroll ($K/Yr):      2855  ¤
¤     Total Enlisted (1995):        0   Communication Costs ($K/Yr):         0  ¤
¤     Total Students (1995):        0       BOS Non-Payroll ($K/Yr):     11405  ¤
¤    Total Civilians (1995):       38           BOS Payroll ($K/Yr):      4658  ¤
¤                                        Fam Housing Costs ($K/Yr):          0  ¤
¤    % Mil Families On Base:      0.0 %                                         ¤
¤   % Civs Not Will to Move:      6.0 %               Area Cost Factor:   0.88  ¤
¤                                                                               ¤
¤  Off Housing Units Vacant:        0    CHAMPUS In-Patient($/Vis):          0  ¤
¤  Enl Housing Units Vacant:        0   CHAMPUS Out-Patient($/Vis):          0  ¤
¤    Total Facilities (KSF):     3916    CHAMPUS Shift to Medicare:        0.0 %¤
¤                                                                               ¤
¤     Officer VHA ($/Month):        0                Activity Code: 47475       ¤
¤    Enlisted VHA ($/Month):        0                                           ¤
¤                                         [ ] Homeowner Assistance Program      ¤
¤     Per Diem Rate ($/Day):       66     [ ] Unique Activity Information       ¤
¤   Freight Cost ($/Ton/Mi):     0.07                                           ¤
¤                                                                               ¤
¤                                    Next    É     Previous É       Done     É ¤
¤                                  ôôôôôôôôôô     ôôôôôôôôôô       ôôôôôôôôôô ¤
àëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëë¥
 ESC-Close window  F1-Help   APSCR4   COBRA v5.08, R&K Engineering, Inc, 1991-4
```

Help File DataBase Input Data Reports Windows Quit 13:39:01

Screen Four - Base Information (Static)

Base: LAKE CITY AAP

Total Officers (1995):	20	RPMA Non-Payroll ($K/Yr):	45[illegible]
Total Enlisted (1995):	0	Communication Costs ($K/Yr):	[illegible]
Total Students (1995):	0	BOS Non-Payroll ($K/Yr):	[illegible]
Total Civilians (1995):	1538	BOS Payroll ($K/Yr):	62[illegible]
		Fam Housing Costs ($K/Yr):	[illegible]
% Mil Families On Base:	0.0 %		
% Civs Not Will to Move:	6.0 %	Area Cost Factor:	1.0[illegible]
Off Housing Units Vacant:	0	CHAMPUS In-Patient($/Vis):	[illegible]
Enl Housing Units Vacant:	0	CHAMPUS Out-Patient($/Vis):	[illegible]
Total Facilities (KSF):	3146	CHAMPUS Shift to Medicare:	0.[illegible] %
Officer VHA ($/Month):	0	Activity Code:	29405
Enlisted VHA ($/Month):	0		
		[ ] Homeowner Assistance Program	
Per Diem Rate ($/Day):	66	[ ] Unique Activity Information	
Freight Cost ($/Ton/Mi):	0.07		

Next Previous Done

ESC-Close window F1-Help APSCR4 COBRA v5.08, R&K Engineering, Inc, 1991-4

Help File DataBase Input Data Reports Windows Quit 13:35:24

Screen Four - Base Information (Static)

Base: IOWA AAP

Total Officers (1995):	2	RPMA Non-Payroll ($K/Yr):	62
Total Enlisted (1995):	0	Communication Costs ($K/Yr):	0
Total Students (1995):	0	BOS Non-Payroll ($K/Yr):	76
Total Civilians (1995):	29	BOS Payroll ($K/Yr):	76
		Fam Housing Costs ($K/Yr):	0
% Mil Families On Base:	100.0 %		
% Civs Not Will to Move:	6.0 %	Area Cost Factor:	1.95
Off Housing Units Vacant:	0	CHAMPUS In-Patient($/Vis):	0
Enl Housing Units Vacant:	0	CHAMPUS Out-Patient($/Vis):	0
Total Facilities (KSF):	4382	CHAMPUS Shift to Medicare:	1.0 %
Officer VHA ($/Month):	0	Activity Code:	19103
Enlisted VHA ($/Month):	0		
		[ ] Homeowner Assistance Program	
Per Diem Rate ($/Day):	66	[ ] Unique Activity Information	
Freight Cost ($/Ton/Mi):	0.07		

Next Previous Done

ESC-Close window F1-Help APSCR4 COBRA v5.08, R&K Engineering, Inc, 1991-4

```
  Help  File  DataBase  Input Data  Reports  Windows  Quit             13:37:37
èë[±]ëëëëëëëëëëëëëë Screen Four - Base Information (Static) ëëëëëëëëëëëëëëëëëëëë£
¤ Base:  HOLSTON AAP                                                          ¤
¤     Total Officers (1995): 1             RPMA Non-Payroll ($K/Yr):       40 ¤
¤     Total Enlisted (1995):        0  Communication Costs ($K/Yr):         0 ¤
¤     Total Students (1995):        0      BOS Non-Payroll ($K/Yr):       150 ¤
¤    Total Civilians (1995):       30          BOS Payroll ($K/Yr):        61 ¤
¤                                        Fam Housing Costs ($K/Yr):         0 ¤
¤    % Mil Families On Base:      0.0 %                                       ¤
¤   % Civs Not Will to Move:      6.0 %               Area Cost Factor:   0.88 ¤
¤                                                                             ¤
¤  Off Housing Units Vacant:        0     CHAMPUS In-Patient($/Vis):        0 ¤
¤  Enl Housing Units Vacant:        0    CHAMPUS Out-Patient($/Vis):        0 ¤
¤    Total Facilities (KSF):     2500     CHAMPUS Shift to Medicare:     0.0 %¤
¤                                                                             ¤
¤     Officer VHA ($/Month):       11               Activity Code: 47305      ¤
¤    Enlisted VHA ($/Month):        0                                         ¤
¤                                        [ ] Homeowner Assistance Program     ¤
¤     Per Diem Rate ($/Day):       73    [ ] Unique Activity Information      ¤
¤   Freight Cost ($/Ton/Mi):     0.07                                         ¤
¤                                                                             ¤
¤                                     Next    É     Previous É       Done    É ¤
¤                                    ôôôôôôôôôô     ôôôôôôôôôô     ôôôôôôôôôô ¤
àëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëë¥
 ESC-Close window  F1-Help   APSCR4   COBRA v5.08, R&K Engineering, Inc, 1991-4
```

```
 Help  File  DataBase  Input Data  Reports  Windows  Quit            08:`5:5?
èë[±]ëëëëëëëëëëëëë Screen Four - Base Information (Static) ëëëëëëëëëëëëë=ëëë=
¤ Base:  SIERRA DEPOT, CA                                                    =
¤     Total Officers (1995): 21          RPMA Non-Payroll ($K/Yr):     4`98 =
¤     Total Enlisted (1995):     352  Communication Costs ($K/Yr):        0 =
¤     Total Students (1995):       0      BOS Non-Payroll ($K/Yr):     ?-?4 =
¤    Total Civilians (1995):     646          BOS Payroll ($K/Yr):     ??54 =
¤                                        Fam Housing Costs ($K/Yr):     `78 =
¤    % Mil Families On Base:    52.2 %                                      =
¤   % Civs Not Will to Move:     6.0 %             Area Cost Factor:    .43 =
¤                                                                           =
¤  Off Housing Units Vacant:       0     CHAMPUS In-Patient($/Vis):       0 =
¤  Enl Housing Units Vacant:       0    CHAMPUS Out-Patient($/Vis):       0 =
¤    Total Facilities (KSF):    5324     CHAMPUS Shift to Medicare:     ?.0 %=
¤                                                                           =
¤     Officer VHA ($/Month):       0                 Activity Code: 0681?   =
¤    Enlisted VHA ($/Month):       0                                        =
¤                                          [ ] Homeowner Assistance Progra  =
¤     Per Diem Rate ($/Day):      68       [ ] Unique Activity Informatio   =
¤   Freight Cost ($/Ton/Mi):    0.07                                        =
¤                                                                           =
¤                                      Next   É     Previous É     Done   É =
¤                                     ôôôôôôôôôô    ôôôôôôôôôô    ôôôôôôôôôô =
àëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëë
 ESC-Close window  F1-Help   AS6-1    COBRA v5.08, R&K Engineering, Inc, `991-4
```

```
  Help  File  DataBase  Input Data  Reports  Windows  Quit              08:15:13
èë[±]ëëëëëëëëëëëëë Screen Four - Base Information (Static) ëëëëëëëëëëëëëëëëëë£
¤ Base:  SENECA DEPOT, NY                                                      ¤
¤     Total Officers (1995): 4               RPMA Non-Payroll ($K/Yr):     2128  ¤
¤     Total Enlisted (1995):         5   Communication Costs ($K/Yr):        0  ¤
¤     Total Students (1995):         0       BOS Non-Payroll ($K/Yr):     2515  ¤
¤    Total Civilians (1995):       315           BOS Payroll ($K/Yr):     1027  ¤
¤                                          Fam Housing Costs ($K/Yr):     1678  ¤
¤    % Mil Families On Base:     100.0 %                                        ¤
¤   % Civs Not Will to Move:       6.0 %              Area Cost Factor:     1.19  ¤
¤                                                                              ¤
¤  Off Housing Units Vacant:         0     CHAMPUS In-Patient($/Vis):        0  ¤
¤  Enl Housing Units Vacant:         0    CHAMPUS Out-Patient($/Vis):        0  ¤
¤    Total Facilities (KSF):      4474     CHAMPUS Shift to Medicare:      0.0 %¤
¤                                                                              ¤
¤     Officer VHA ($/Month):       177                 Activity Code: 36760     ¤
¤    Enlisted VHA ($/Month):       142                                          ¤
¤                                          [ ] Homeowner Assistance Program     ¤
¤     Per Diem Rate ($/Day):        96     [ ] Unique Activity Information      ¤
¤   Freight Cost ($/Ton/Mi):      0.07                                          ¤
¤                                                                              ¤
¤                                       Next    É     Previous É      Done    É ¤
¤                                     ôôôôôôôôôô     ôôôôôôôôôô     ôôôôôôôôôô ¤
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 ESC-Close window  F1-Help   AS5-1A   COBRA v5.08, R&K Engineering, Inc, 1991-4
```

```
   Help  File  DataBase  Input Data  Reports  Windows  Quit                08:13:57
èë[±]ëëëëëëëëëëëëë Screen Four - Base Information (Static) ëëëëëëëëëëëëëëëëë£
¤ Base:  SAVANNA ARMY DEPOT, IL                                                  ¤
¤     Total Officers (1995): 2            RPMA Non-Payroll ($K/Yr):     1634     ¤
¤     Total Enlisted (1995):       2   Communication Costs ($K/Yr):        0     ¤
¤     Total Students (1995):      59      BOS Non-Payroll ($K/Yr):  [illegible]  ¤
¤    Total Civilians (1995):     393          BOS Payroll ($K/Yr):  [illegible]  ¤
¤                                        Fam Housing Costs ($K/Yr): [illegible]  ¤
¤    % Mil Families On Base:   100.0 %                                           ¤
¤   % Civs Not Will to Move:     6.0 %             Area Cost Factor: [illegible] ¤
¤                                                                                ¤
¤  Off Housing Units Vacant:       0     CHAMPUS In-Patient($/Vis):        0     ¤
¤  Enl Housing Units Vacant:       0    CHAMPUS Out-Patient($/Vis):        0     ¤
¤    Total Facilities (KSF):    4097     CHAMPUS Shift to Medicare:      0.0 %   ¤
¤                                                                                ¤
¤      Officer VHA ($/Month):      0                Activity Code: 17795         ¤
¤     Enlisted VHA ($/Month):      0                                             ¤
¤                                        [ ] Homeowner Assistance Program        ¤
¤      Per Diem Rate ($/Day):     71     [ ] Unique Activity Information         ¤
¤    Freight Cost ($/Ton/Mi):   0.07                                             ¤
¤                                                                                ¤
¤                                         Next    É     Previous É      Done    É ¤
¤                                        ôôôôôôôôôô    ôôôôôôôôôô     ôôôôôôôôôô  ¤
àëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëë¥
 ESC-Close window  F1-Help   AS4-4A   COBRA v5.08, R&K Engineering, Inc, 1991-4
```

Help File DataBase Input Data Reports Windows Quit 10:_6:2_

èë[±]ëëëëëëëëëëëëëë Screen Four - Base Information (Static) ëëëëëëëëëëëëëëëëëëë

¤ Base: USA PERSCOM, VA

Total Officers (1995):	439	RPMA Non-Payroll ($K/Yr):	9_00
Total Enlisted (1995):	394	Communication Costs ($K/Yr):	0
Total Students (1995):	0	BOS Non-Payroll ($K/Yr):	0
Total Civilians (1995):	3429	BOS Payroll ($K/Yr):	0
		Fam Housing Costs ($K/Yr):	0
% Mil Families On Base:	0.0 %		
% Civs Not Will to Move:	6.0 %	Area Cost Factor:	_.00
Off Housing Units Vacant:	0	CHAMPUS In-Patient($/Vis):	0
Enl Housing Units Vacant:	0	CHAMPUS Out-Patient($/Vis):	0
Total Facilities (KSF):	1	CHAMPUS Shift to Medicare:	_.0 %
Officer VHA ($/Month):	462	Activity Code:	LE3
Enlisted VHA ($/Month):	358		
		[ ] Homeowner Assistance Progra_	
Per Diem Rate ($/Day):	151	[ ] Unique Activity Informatio_	
Freight Cost ($/Ton/Mi):	0.07		

Next É Previous É Done É

ESC-Close window F1-Help LE3-1X1 COBRA v5.08, R&K Engineering, Inc, 1991-4

Help File DataBase Input Data Reports Windows Quit 10:09:30

Screen Four - Base Information (Static)

Base: PARK CENTER, VA

Total Officers (1995):	27	RPMA Non-Payroll ($K/Yr):	295
Total Enlisted (1995):	10	Communication Costs ($K/Yr):	0
Total Students (1995):	0	BOS Non-Payroll ($K/Yr):	0
Total Civilians (1995):	47	BOS Payroll ($K/Yr):	0
		Fam Housing Costs ($K/Yr):	0
% Mil Families On Base:	0.0 %		
% Civs Not Will to Move:	6.0 %	Area Cost Factor:	1.03
Off Housing Units Vacant:	0	CHAMPUS In-Patient($/Vis):	0
Enl Housing Units Vacant:	0	CHAMPUS Out-Patient($/Vis):	0
Total Facilities (KSF):	1	CHAMPUS Shift to Medicare:	0.0 %
Officer VHA ($/Month):	462	Activity Code:	OPTEC
Enlisted VHA ($/Month):	332		
		[ ] Homeowner Assistance Program	
Per Diem Rate ($/Day):	152	[ ] Unique Activity Information	
Freight Cost ($/Ton/Mi):	0.07		

Next Previous Done

ESC-Close window F1-Help LE6-3X10 COBRA v5.08, R&K Engineering, Inc, 1991-4

```
 Help  File  DataBase  Input Data  Reports  Windows  Quit                 10:09:12
èë[±]ëëëëëëëëëëëëëë Screen Four - Base Information (Static) ëëëëëëëëëëëëëëëëëëë£
¤ Base:  CRYSTAL CITY, VA                                                         ¤
¤     Total Officers (1995): 21            RPMA Non-Payroll ($K/Yr):       326   ¤
¤     Total Enlisted (1995):      0    Communication Costs ($K/Yr):          0   ¤
¤     Total Students (1995):      0        BOS Non-Payroll ($K/Yr):          0   ¤
¤    Total Civilians (1995):     50            BOS Payroll ($K/Yr):          0   ¤
¤                                         Fam Housing Costs ($K/Yr):         0   ¤
¤    % Mil Families On Base:     0.0 %                                            ¤
¤   % Civs Not Will to Move:     0.0 %              Area Cost Factor:     1.00   ¤
¤                                                                                 ¤
¤  Off Housing Units Vacant:      0     CHAMPUS In-Patient($/Vis):           0   ¤
¤  Enl Housing Units Vacant:      0    CHAMPUS Out-Patient($/Vis):           0   ¤
¤    Total Facilities (KSF):      1     CHAMPUS Shift to Medicare:         0.0 %¤
¤                                                                                 ¤
¤     Officer VHA ($/Month):    462                Activity Code: CCITY          ¤
¤    Enlisted VHA ($/Month):    332                                               ¤
¤                                       [ ] Homeowner Assistance Program          ¤
¤     Per Diem Rate ($/Day):    152     [ ] Unique Activity Information           ¤
¤   Freight Cost ($/Ton/Mi):   0.07                                               ¤
¤                                                                                 ¤
¤                                    Next    É      Previous É       Done     É  ¤
¤                                   ôôôôôôôôôô      ôôôôôôôôôô      ôôôôôôôôôô   ¤
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 ESC-Close window  F1-Help  LE6-3X10  COBRA v5.08, R&K Engineering, Inc, 1991-4
```

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  Help  File  DataBase  Input Data  Reports  Windows  Quit           08:14:28
èë[±]ëëëëëëëëëëëëë Screen Four - Base Information (Static) ëëëëëëëëëëëëëëëëëë£
¤ Base:  McALESTER AAP, OK                                                    ¤
¤     Total Officers (1995): 4           RPMA Non-Payroll ($K/Yr):    12632  ¤
¤     Total Enlisted (1995):        7  Communication Costs ($K/Yr):       0  ¤
¤     Total Students (1995):        0       BOS Non-Payroll ($K/Yr):   12021  ¤
¤    Total Civilians (1995):      665           BOS Payroll ($K/Yr):   11065  ¤
¤                                        Fam Housing Costs ($K/Yr):     333  ¤
¤    % Mil Families On Base:    100.0 %                                      ¤
¤   % Civs Not Will to Move:      6.0 %               Area Cost Factor:    0.85  ¤
¤                                                                            ¤
¤  Off Housing Units Vacant:        0    CHAMPUS In-Patient($/Vis):        0  ¤
¤  Enl Housing Units Vacant:        0   CHAMPUS Out-Patient($/Vis):        0  ¤
¤    Total Facilities (KSF):     9504    CHAMPUS Shift to Medicare:     0.0 %¤
¤                                                                            ¤
¤     Officer VHA ($/Month):        0              Activity Code: 40520      ¤
¤    Enlisted VHA ($/Month):        0                                        ¤
¤                                         [ ] Homeowner Assistance Program   ¤
¤     Per Diem Rate ($/Day):       67     [ ] Unique Activity Information    ¤
¤   Freight Cost ($/Ton/Mi):     0.07                                        ¤
¤                                                                            ¤
¤                                    Next   É     Previous É      Done    É ¤
¤                                  ôôôôôôôôôô    ôôôôôôôôôô    ôôôôôôôôôô ¤
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 ESC-Close window  F1-Help   AS4-4A   COBRA v5.08, R&K Engineering, Inc, 1991-4
```

Help File DataBase Input Data Reports Windows Quit 13:4?:44

èë[±]ëëëëëëëëëëëëëë Screen Four - Base Information (Static) ëëëëëëëëëëëëëëëëëë£

¤ Base: HAWTHORNE, NV ¤

Total Officers (1995):	3	RPMA Non-Payroll ($K/Yr):	648
Total Enlisted (1995):	5	Communication Costs ($K/Yr):	0
Total Students (1995):	0	BOS Non-Payroll ($K/Yr):	2[illegible]
Total Civilians (1995):	77	BOS Payroll ($K/Yr):	[illegible]
		Fam Housing Costs ($K/Yr):	0
% Mil Families On Base:	100.0 %		
% Civs Not Will to Move:	0.0 %	Area Cost Factor:	1.[illegible]
Off Housing Units Vacant:	0	CHAMPUS In-Patient($/Vis):	0
Enl Housing Units Vacant:	0	CHAMPUS Out-Patient($/Vis):	0
Total Facilities (KSF):	0	CHAMPUS Shift to Medicare:	[illegible].0 %
Officer VHA ($/Month):	0	Activity Code:	32225
Enlisted VHA ($/Month):	0		
		[ ] Homeowner Assistance Program	
Per Diem Rate ($/Day):	66	[ ] Unique Activity Information	
Freight Cost ($/Ton/Mi):	0.07		

Next É Previous É Done É

ESC-Close window F1-Help ASSCR4 COBRA v5.08, R&K Engineering, Inc, 1991-4

```
  Help  File  DataBase  Input Data  Reports  Windows  Quit             13:43:`3
èë[±]ëëëëëëëëëëëëë Screen Four - Base Information (Static) ëëëëëëëëëëëëëëëëëë£
¤ Base:  TOOELE DEPOT, UT                                                      ¤
¤     Total Officers (1995): 15            RPMA Non-Payroll ($K/Yr):      7851  ¤
¤     Total Enlisted (1995):       37   Communication Costs ($K/Yr):         C  ¤
¤     Total Students (1995):        0       BOS Non-Payroll ($K/Yr):     27677  ¤
¤    Total Civilians (1995):     2256           BOS Payroll ($K/Yr):     1030[illegible] ¤
¤                                        Fam Housing Costs ($K/Yr):            ¤
¤    % Mil Families On Base:     14.0 %                                        ¤
¤   % Civs Not Will to Move:      6.0 %              Area Cost Factor:     1.0C ¤
¤                                                                              ¤
¤  Off Housing Units Vacant:        0     CHAMPUS In-Patient($/Vis):         C  ¤
¤  Enl Housing Units Vacant:        0    CHAMPUS Out-Patient($/Vis):         C  ¤
¤    Total Facilities (KSF):     7756     CHAMPUS Shift to Medicare:       0.C %¤
¤                                                                              ¤
¤     Officer VHA ($/Month):        0                Activity Code: 49575      ¤
¤    Enlisted VHA ($/Month):        0                                          ¤
¤                                         [ ] Homeowner Assistance Program     ¤
¤     Per Diem Rate ($/Day):       66     [ ] Unique Activity Information      ¤
¤   Freight Cost ($/Ton/Mi):     0.07                                          ¤
¤                                                                              ¤
¤                                       Next   É     Previous É      Done    É ¤
¤                                      ôôôôôôôôôô    ôôôôôôôôôô     ôôôôôôôôôô ¤
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 ESC-Close window  F1-Help   ASSCR4   COBRA v5.08, R&K Engineering, Inc, 1991-4
```

Help File DataBase Input Data Reports Windows Quit 13:42:44

Screen Four - Base Information (Static)

Base: BLUE GRASS DEPOT, KY

Total Officers (1995):	3	RPMA Non-Payroll ($K/Yr):	3324
Total Enlisted (1995):	5	Communication Costs ($K/Yr):	0
Total Students (1995):	0	BOS Non-Payroll ($K/Yr):	6330
Total Civilians (1995):	584	BOS Payroll ($K/Yr):	2790
		Fam Housing Costs ($K/Yr):	0
% Mil Families On Base:	85.0 %		
% Civs Not Will to Move:	6.0 %	Area Cost Factor:	1.96
Off Housing Units Vacant:	0	CHAMPUS In-Patient($/Vis):	0
Enl Housing Units Vacant:	0	CHAMPUS Out-Patient($/Vis):	0
Total Facilities (KSF):	3647	CHAMPUS Shift to Medicare:	1.0 %
Officer VHA ($/Month):	0	Activity Code: 21479	
Enlisted VHA ($/Month):	0		
		[ ] Homeowner Assistance Program	
Per Diem Rate ($/Day):	66	[ ] Unique Activity Information	
Freight Cost ($/Ton/Mi):	0.07		

Next Previous Done

ESC-Close window F1-Help ASSCR4 COBRA v5.08, R&K Engineering, Inc, 1991-4

Help File DataBase Input Data Reports Windows Quit 08:17:30

Screen Four - Base Information (Static)

Base: UMATILLA DEPOT, OR

Total Officers (1995):	4	RPMA Non-Payroll ($K/Yr):	454
Total Enlisted (1995):	5	Communication Costs ($K/Yr):	0
Total Students (1995):	0	BOS Non-Payroll ($K/Yr):	6378
Total Civilians (1995):	222	BOS Payroll ($K/Yr):	7559
		Fam Housing Costs ($K/Yr):	0
% Mil Families On Base:	100.0 %		
% Civs Not Will to Move:	6.0 %	Area Cost Factor:	1.08
Off Housing Units Vacant:	0	CHAMPUS In-Patient($/Vis):	0
Enl Housing Units Vacant:	0	CHAMPUS Out-Patient($/Vis):	0
Total Facilities (KSF):	3415	CHAMPUS Shift to Medicare:	1.0 %
Officer VHA ($/Month):	0	Activity Code:	41899
Enlisted VHA ($/Month):	0		
		[ ] Homeowner Assistance Program	
Per Diem Rate ($/Day):	66	[ ] Unique Activity Information	
Freight Cost ($/Ton/Mi):	0.07		

Next Previous Done

ESC-Close window F1-Help AS8-1 COBRA v5.08, R&K Engineering, Inc, 1991-4

Help File DataBase Input Data Reports Windows Quit 13:42:10

Screen Four - Base Information (Static)

Base: PUEBLO DEPOT, CO

Total Officers (1995):	2	RPMA Non-Payroll ($K/Yr):	2603
Total Enlisted (1995):	1	Communication Costs ($K/Yr):	0
Total Students (1995):	0	BOS Non-Payroll ($K/Yr):	9826
Total Civilians (1995):	369	BOS Payroll ($K/Yr):	4013
		Fam Housing Costs ($K/Yr):	0
% Mil Families On Base:	100.0 %		
% Civs Not Will to Move:	6.0 %	Area Cost Factor:	0.92
Off Housing Units Vacant:	0	CHAMPUS In-Patient($/Vis):	0
Enl Housing Units Vacant:	0	CHAMPUS Out-Patient($/Vis):	0
Total Facilities (KSF):	6255	CHAMPUS Shift to Medicare:	0.0 %
Officer VHA ($/Month):	0	Activity Code:	08505
Enlisted VHA ($/Month):	0		
Per Diem Rate ($/Day):	75		
Freight Cost ($/Ton/Mi):	0.07		

[ ] Homeowner Assistance Program

[ ] Unique Activity Information

Next Previous Done

ESC-Close window F1-Help ASSCR4 COBRA v5.08, R&K Engineering, Inc, 1991-4

```
  Help  File  DataBase  Input Data  Reports  Windows  Quit              08:16:46
èë[±]ëëëëëëëëëëëëë Screen Four - Base Information (Static) ëëëëëëëëëëëëëëëëëëë£
¤ Base:  PUEBLO DEPOT, CO                                                       ¤
¤     Total Officers (1995): 2            RPMA Non-Payroll ($K/Yr):     2603  ¤
¤     Total Enlisted (1995):         1  Communication Costs ($K/Yr):        0  ¤
¤     Total Students (1995):         0      BOS Non-Payroll ($K/Yr):     9826  ¤
¤    Total Civilians (1995):       342          BOS Payroll ($K/Yr):     4013  ¤
¤                                        Fam Housing Costs ($K/Yr):        0  ¤
¤     % Mil Families On Base:    100.0 %                                       ¤
¤    % Civs Not Will to Move:      6.0 %            Area Cost Factor:     0.92  ¤
¤                                                                               ¤
¤  Off Housing Units Vacant:         0     CHAMPUS In-Patient($/Vis):        0  ¤
¤  Enl Housing Units Vacant:         0    CHAMPUS Out-Patient($/Vis):        0  ¤
¤    Total Facilities (KSF):      6250     CHAMPUS Shift to Medicare:      0.0 %¤
¤                                                                               ¤
¤     Officer VHA ($/Month):         0                Activity Code: 08728     ¤
¤    Enlisted VHA ($/Month):         0                                          ¤
¤                                          [ ] Homeowner Assistance Program    ¤
¤     Per Diem Rate ($/Day):        70     [ ] Unique Activity Information     ¤
¤   Freight Cost ($/Ton/Mi):      0.07                                          ¤
¤                                                                               ¤
¤                                        Next    É      Previous É      Done    É ¤
¤                                      ôôôôôôôôôô     ôôôôôôôôôô     ôôôôôôôôôô ¤
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 ESC-Close window  F1-Help   AS3-1    COBRA v5.08, R&K Engineering, Inc, 1991-4
```

INPUT SCREEN FOUR - STATIC BASE INFORMATION

Name: FORT GILLEM, GA

Total Officer Employees:	399	RPMA Non-Payroll ($K/Year):	2,067
Total Enlisted Employees:	606	Communications ($K/Year):	1,018
Total Student Employees:	0	BOS Non-Payroll ($K/Year):	6,504
Total Civilian Employees:	531	BOS Payroll ($K/Year):	4,336
Mil Families Living On Base:	1.4%	Family Housing ($K/Year):	259
Civilians Not Willing To Move:	6.0%	Area Cost Factor:	0.97
Officer Housing Units Avail:	0	CHAMPUS In-Pat ($/Visit):	0
Enlisted Housing Units Avail:	0	CHAMPUS Out-Pat ($/Visit):	0
Total Base Facilities(KSF):	6,527	CHAMPUS Shift to Medicare:	0.0%
Officer VHA ($/Month):	175	Activity Code:	13015
Enlisted VHA ($/Month):	133		
Per Diem Rate ($/Day):	119	Homeowner Assistance Program:	No
Freight Cost ($/Ton/Mile):	0.07	Unique Activity Information:	No

Name: FORT MCPHERSON, GA

Total Officer Employees:	619	RPMA Non-Payroll ($K/Year):	6,313
Total Enlisted Employees:	848	Communications ($K/Year):	1,809
Total Student Employees:	0	BOS Non-Payroll ($K/Year):	21,258
Total Civilian Employees:	2,166	BOS Payroll ($K/Year):	14,172
Mil Families Living On Base:	8.9%	Family Housing ($K/Year):	1,874
Civilians Not Willing To Move:	6.0%	Area Cost Factor:	0.96
Officer Housing Units Avail:	0	CHAMPUS In-Pat ($/Visit):	0
Enlisted Housing Units Avail:	0	CHAMPUS Out-Pat ($/Visit):	0
Total Base Facilities(KSF):	1,606	CHAMPUS Shift to Medicare:	0.0%
Officer VHA ($/Month):	175	Activity Code:	13115
Enlisted VHA ($/Month):	133		
Per Diem Rate ($/Day):	119	Homeowner Assistance Program:	No
Freight Cost ($/Ton/Mile):	0.07	Unique Activity Information:	No

INPUT SCREEN FOUR - STATIC BASE INFORMATION

Name: KELLY SUPPORT CENTER, PA

Total Officer Employees:	44	RPMA Non-Payroll ($K/Year):	601
Total Enlisted Employees:	95	Communications ($K/Year):	196
Total Student Employees:	0	BOS Non-Payroll ($K/Year):	2,440
Total Civilian Employees:	269	BOS Payroll ($K/Year):	1,627
Mil Families Living On Base:	100.0%	Family Housing ($K/Year):	0
Civilians Not Willing To Move:	6.0%	Area Cost Factor:	1.10
Officer Housing Units Avail:	0	CHAMPUS In-Pat ($/Visit):	0
Enlisted Housing Units Avail:	0	CHAMPUS Out-Pat ($/Visit):	0
Total Base Facilities(KSF):	751	CHAMPUS Shift to Medicare:	0.0%
Officer VHA ($/Month):	172	Activity Code:	42562
Enlisted VHA ($/Month):	53		
Per Diem Rate ($/Day):	109	Homeowner Assistance Program:	No
Freight Cost ($/Ton/Mile):	0.07	Unique Activity Information:	No

Name: CAVEN POINT, NJ

Total Officer Employees:	1	RPMA Non-Payroll ($K/Year):	131
Total Enlisted Employees:	2	Communications ($K/Year):	2
Total Student Employees:	0	BOS Non-Payroll ($K/Year):	2
Total Civilian Employees:	0	BOS Payroll ($K/Year):	2
Mil Families Living On Base:	0.0%	Family Housing ($K/Year):	0
Civilians Not Willing To Move:	6.0%	Area Cost Factor:	1.20
Officer Housing Units Avail:	0	CHAMPUS In-Pat ($/Visit):	0
Enlisted Housing Units Avail:	0	CHAMPUS Out-Pat ($/Visit):	0
Total Base Facilities(KSF):	48	CHAMPUS Shift to Medicare:	0.0%
Officer VHA ($/Month):	418	Activity Code:	CAVNPT
Enlisted VHA ($/Month):	290		
Per Diem Rate ($/Day):	125	Homeowner Assistance Program:	No
Freight Cost ($/Ton/Mile):	0.07	Unique Activity Information:	No

INPUT SCREEN FOUR - STATIC BASE INFORMATION

Name: FORT HAMILTON, NY

Total Officer Employees:	35	RPMA Non-Payroll ($K/Year):	2,833
Total Enlisted Employees:	303	Communications ($K/Year):	357
Total Student Employees:	0	BOS Non-Payroll ($K/Year):	11,424
Total Civilian Employees:	200	BOS Payroll ($K/Year):	7,616
Mil Families Living On Base:	100.0%	Family Housing ($K/Year):	7,772
Civilians Not Willing To Move:	6.0%	Area Cost Factor:	1.23
Officer Housing Units Avail:	0	CHAMPUS In-Pat ($/Visit):	0
Enlisted Housing Units Avail:	0	CHAMPUS Out-Pat ($/Visit):	0
Total Base Facilities(KSF):	808	CHAMPUS Shift to Medicare:	0.0%
Officer VHA ($/Month):	536	Activity Code:	36325
Enlisted VHA ($/Month):	257		
Per Diem Rate ($/Day):	180	Homeowner Assistance Program:	No
Freight Cost ($/Ton/Mile):	0.07	Unique Activity Information:	No

INPUT SCREEN FOUR - STATIC BASE INFORMATION

Name: FORT TOTTEN, NY

Total Officer Employees:	64	RPMA Non-Payroll ($K/Year):	346
Total Enlisted Employees:	206	Communications ($K/Year):	0
Total Student Employees:	0	BOS Non-Payroll ($K/Year):	1,224
Total Civilian Employees:	312	BOS Payroll ($K/Year):	816
Mil Families Living On Base:	64.7%	Family Housing ($K/Year):	855
Civilians Not Willing To Move:	6.0%	Area Cost Factor:	1.23
Officer Housing Units Avail:	0	CHAMPUS In-Pat ($/Visit):	0
Enlisted Housing Units Avail:	0	CHAMPUS Out-Pat ($/Visit):	0
Total Base Facilities(KSF):	593	CHAMPUS Shift to Medicare:	0.0%
Officer VHA ($/Month):	536	Activity Code:	36790
Enlisted VHA ($/Month):	257		
Per Diem Rate ($/Day):	180	Homeowner Assistance Program:	No
Freight Cost ($/Ton/Mile):	0.07	Unique Activity Information:	No

```
 Help  File  DataBase  Input Data  Reports  Windows  Quit              14:15:18
èë[±]ëëëëëëëëëëëëëë Screen Four - Base Information (Static) ëëëëëëëëëëëëëëëëëëë£
¤ Base:  WALTER REED AMC, DC                                                    ¤
¤     Total Officers (1995): 1141         RPMA Non-Payroll ($K/Yr):     21406   ¤
¤     Total Enlisted (1995):     1479   Communication Costs ($K/Yr):     4795   ¤
¤     Total Students (1995):       94       BOS Non-Payroll ($K/Yr):    22896   ¤
¤    Total Civilians (1995):     3838           BOS Payroll ($K/Yr):    16137   ¤
¤                                         Fam Housing Costs ($K/Yr):     1366   ¤
¤    % Mil Families On Base:     16.7 %                                         ¤
¤   % Civs Not Will to Move:      6.0 %               Area Cost Factor:   1.03   ¤
¤                                                                               ¤
¤  Off Housing Units Vacant:        0     CHAMPUS In-Patient($/Vis):        0   ¤
¤  Enl Housing Units Vacant:        0    CHAMPUS Out-Patient($/Vis):        0   ¤
¤    Total Facilities (KSF):     6376     CHAMPUS Shift to Medicare:      0.0 %¤
¤                                                                               ¤
¤     Officer VHA ($/Month):      462                 Activity Code: 11865      ¤
¤    Enlisted VHA ($/Month):      332                                           ¤
¤                                        [ ] Homeowner Assistance Program       ¤
¤     Per Diem Rate ($/Day):      152    [ ] Unique Activity Information        ¤
¤   Freight Cost ($/Ton/Mi):     0.07                                           ¤
¤                                                                               ¤
¤                                         Next   É      Previous É       Done   É ¤
¤                                        ôôôôôôôôôô     ôôôôôôôôôô     ôôôôôôôôôô ¤
àëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëëë¥
 ESC-Close window  F1-Help   MD1-8Q   COBRA v5.08, R&K Engineering, Inc, 1991-4
```

Help File DataBase Input Data Reports Windows Quit 14:15:42

Screen Four - Base Information (Static)

Base: FORT SHAFTER, HI

Total Officers (1995):	292	RPMA Non-Payroll ($K/Yr):	5483
Total Enlisted (1995):	1154	Communication Costs ($K/Yr):	995
Total Students (1995):	0	BOS Non-Payroll ($K/Yr):	26789
Total Civilians (1995):	1771	BOS Payroll ($K/Yr):	21049
		Fam Housing Costs ($K/Yr):	29338
% Mil Families On Base:	100.0 %		
% Civs Not Will to Move:	6.0 %	Area Cost Factor:	1.66
Off Housing Units Vacant:	0	CHAMPUS In-Patient($/Vis):	0
Enl Housing Units Vacant:	0	CHAMPUS Out-Patient($/Vis):	0
Total Facilities (KSF):	3178	CHAMPUS Shift to Medicare:	0.0 %
Officer VHA ($/Month):	679	Activity Code:	15835
Enlisted VHA ($/Month):	576		
Per Diem Rate ($/Day):	167		
Freight Cost ($/Ton/Mi):	0.07		

[ ] Homeowner Assistance Program

[ ] Unique Activity Information

Next Previous Done

ESC-Close window F1-Help MD1-8Q COBRA v5.08, R&K Engineering, Inc, 1991-4

Help File DataBase Input Data Reports Windows Quit 14:14:48

Screen Four - Base Information (Static)

Base: FITZSIMONS AMC, CO

Total Officers (1995):	478	RPMA Non-Payroll ($K/Yr):	20344
Total Enlisted (1995):	591	Communication Costs ($K/Yr):	135
Total Students (1995):	250	BOS Non-Payroll ($K/Yr):	11032
Total Civilians (1995):	1608	BOS Payroll ($K/Yr):	13108
		Fam Housing Costs ($K/Yr):	1652
% Mil Families On Base:	34.8 %		
% Civs Not Will to Move:	6.0 %	Area Cost Factor:	1.08
Off Housing Units Vacant:	0	CHAMPUS In-Patient($/Vis):	0
Enl Housing Units Vacant:	0	CHAMPUS Out-Patient($/Vis):	0
Total Facilities (KSF):	2414	CHAMPUS Shift to Medicare:	0.0 %
Officer VHA ($/Month):	205	Activity Code:	8055
Enlisted VHA ($/Month):	146		
		[X] Homeowner Assistance Program	
Per Diem Rate ($/Day):	115	[ ] Unique Activity Information	
Freight Cost ($/Ton/Mi):	0.07		

Next Previous Done

ESC-Close window F1-Help MD1-8Q COBRA v5.08, R&K Engineering, Inc, 1991-4

Help File DataBase Input Data Reports Windows Quit 14:20:38

[±] Screen Four - Base Information (Static)

Base: FORT BELVOIR, VA

Total Officers (1995):	1188	RPMA Non-Payroll ($K/Yr):	18803
Total Enlisted (1995):	1970	Communication Costs ($K/Yr):	0
Total Students (1995):	689	BOS Non-Payroll ($K/Yr):	60637
Total Civilians (1995):	11134	BOS Payroll ($K/Yr):	31237
		Fam Housing Costs ($K/Yr):	30132
% Mil Families On Base:	93.5 %		
% Civs Not Will to Move:	6.0 %	Area Cost Factor:	1.03
Off Housing Units Vacant:	0	CHAMPUS In-Patient($/Vis):	0
Enl Housing Units Vacant:	0	CHAMPUS Out-Patient($/Vis):	0
Total Facilities (KSF):	7085	CHAMPUS Shift to Medicare:	0.0 %
Officer VHA ($/Month):	269	Activity Code:	51105
Enlisted VHA ($/Month):	258		
		[ ] Homeowner Assistance Program	
Per Diem Rate ($/Day):	151	[ ] Unique Activity Information	
Freight Cost ($/Ton/Mi):	0.07		

Next Previous Done

ESC-Close window F1-Help JM1-1B COBRA v5.08, R&K Engineering, Inc, 1991-4

Help File DataBase Input Data Reports Windows Quit 14:19:52

[±] Screen Four - Base Information (Static)

Base: FORT MEADE, MD

Total Officers (1995):	1974	RPMA Non-Payroll ($K/Yr):	16043
Total Enlisted (1995):	7244	Communication Costs ($K/Yr):	0
Total Students (1995):	906	BOS Non-Payroll ($K/Yr):	44745
Total Civilians (1995):	24974	BOS Payroll ($K/Yr):	23050
		Fam Housing Costs ($K/Yr):	19717
% Mil Families On Base:	54.6 %		
% Civs Not Will to Move:	6.0 %	Area Cost Factor:	1.03
Off Housing Units Vacant:	0	CHAMPUS In-Patient($/Vis):	0
Enl Housing Units Vacant:	0	CHAMPUS Out-Patient($/Vis):	0
Total Facilities (KSF):	5242	CHAMPUS Shift to Medicare:	0.0 %
Officer VHA ($/Month):	426	Activity Code:	24355
Enlisted VHA ($/Month):	369		
		[ ] Homeowner Assistance Program	
Per Diem Rate ($/Day):	152	[ ] Unique Activity Information	
Freight Cost ($/Ton/Mi):	0.07		

Next Previous Done

ESC-Close window F1-Help CA8-2L COBRA v5.08, R&K Engineering, Inc, 1991-4

Help File DataBase Input Data Reports Windows Quit 14:19:05

Screen Four - Base Information (Static)

Base: FORT MONROE, VA

Total Officers (1995):	591	RPMA Non-Payroll ($K/Yr):	5194
Total Enlisted (1995):	281	Communication Costs ($K/Yr):	1868
Total Students (1995):	31	BOS Non-Payroll ($K/Yr):	1822
Total Civilians (1995):	1550	BOS Payroll ($K/Yr):	12862
		Fam Housing Costs ($K/Yr):	2519
% Mil Families On Base:	28.9 %		
% Civs Not Will to Move:	6.0 %	Area Cost Factor:	0.86
Off Housing Units Vacant:	0	CHAMPUS In-Patient($/Vis):	0
Enl Housing Units Vacant:	0	CHAMPUS Out-Patient($/Vis):	0
Total Facilities (KSF):	1514	CHAMPUS Shift to Medicare:	0.0 %
Officer VHA ($/Month):	153	Activity Code:	51360
Enlisted VHA ($/Month):	126		
		[ ] Homeowner Assistance Program	
Per Diem Rate ($/Day):	110	[ ] Unique Activity Information	
Freight Cost ($/Ton/Mi):	0.07		

Next Previous Done

ESC-Close window F1-Help CA9-3L COBRA v5.08, R&K Engineering, Inc, 1991-4

Help File DataBase Input Data Reports Windows Quit 14:16:43

Screen Four - Base Information (Static)

Base: FORT RITCHIE, MD

Total Officers (1995):	89	RPMA Non-Payroll ($K/Yr):	7446
Total Enlisted (1995):	941	Communication Costs ($K/Yr):	0
Total Students (1995):	0	BOS Non-Payroll ($K/Yr):	18029
Total Civilians (1995):	1027	BOS Payroll ($K/Yr):	9287
		Fam Housing Costs ($K/Yr):	23458
% Mil Families On Base:	47.8 %		
% Civs Not Will to Move:	6.0 %	Area Cost Factor:	0.92
Off Housing Units Vacant:	0	CHAMPUS In-Patient($/Vis):	0
Enl Housing Units Vacant:	0	CHAMPUS Out-Patient($/Vis):	0
Total Facilities (KSF):	867	CHAMPUS Shift to Medicare:	0.0 %
Officer VHA ($/Month):	119	Activity Code:	24625
Enlisted VHA ($/Month):	32		
		[ ] Homeowner Assistance Program	
Per Diem Rate ($/Day):	85	[ ] Unique Activity Information	
Freight Cost ($/Ton/Mi):	0.07		

Next Previous Done

ESC-Close window F1-Help CA11-2Q COBRA v5.08, R&K Engineering, Inc, 1991-4

Help File DataBase Input Data Reports Windows Quit 14:17:39

Screen Four - Base Information (Static)

Base: SELFRIDGE ACT, MI

Total Officers (1995):	65	RPMA Non-Payroll ($K/Yr):	832
Total Enlisted (1995):	222	Communication Costs ($K/Yr):	0
Total Students (1995):	0	BOS Non-Payroll ($K/Yr):	1295
Total Civilians (1995):	142	BOS Payroll ($K/Yr):	2384
		Fam Housing Costs ($K/Yr):	6063
% Mil Families On Base:	100.0 %		
% Civs Not Will to Move:	6.0 %	Area Cost Factor:	1.22
Off Housing Units Vacant:	0	CHAMPUS In-Patient($/Vis):	0
Enl Housing Units Vacant:	0	CHAMPUS Out-Patient($/Vis):	0
Total Facilities (KSF):	757	CHAMPUS Shift to Medicare:	0.0 %
Officer VHA ($/Month):	264	Activity Code:	26740
Enlisted VHA ($/Month):	75		
		[ ] Homeowner Assistance Program	
Per Diem Rate ($/Day):	117	[ ] Unique Activity Information	
Freight Cost ($/Ton/Mi):	0.07		

Next Previous Done

ESC-Close window F1-Help CA15-1Q COBRA v5.08, R&K Engineering, Inc, 1991-4

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 Help  File  DataBase  Input Data  Reports  Windows  Quit                14:15:42
èë[±]ëëëëëëëëëëëëëë Screen Four - Base Information (Static) ëëëëëëëëëëëëëëëëëëëëëë£
¤ Base:  FORT SHAFTER, HI                                                        ¤
¤     Total Officers (1995): 292          RPMA Non-Payroll ($K/Yr):      5483   ¤
¤     Total Enlisted (1995):     1154   Communication Costs ($K/Yr):      995   ¤
¤     Total Students (1995):        0       BOS Non-Payroll ($K/Yr):    26789   ¤
¤    Total Civilians (1995):     1771           BOS Payroll ($K/Yr):    21049   ¤
¤                                        Fam Housing Costs ($K/Yr):    29338   ¤
¤    % Mil Families On Base:    100.0 %                                         ¤
¤   % Civs Not Will to Move:      6.0 %            Area Cost Factor:      1.66   ¤
¤                                                                               ¤
¤  Off Housing Units Vacant:        0     CHAMPUS In-Patient($/Vis):        0   ¤
¤  Enl Housing Units Vacant:        0    CHAMPUS Out-Patient($/Vis):        0   ¤
¤    Total Facilities (KSF):     3178     CHAMPUS Shift to Medicare:      0.0 %¤
¤                                                                               ¤
¤     Officer VHA ($/Month):      679                Activity Code: 15835       ¤
¤    Enlisted VHA ($/Month):      576                                           ¤
¤                                          [ ] Homeowner Assistance Program    ¤
¤     Per Diem Rate ($/Day):      167      [ ] Unique Activity Information     ¤
¤   Freight Cost ($/Ton/Mi):     0.07                                           ¤
¤                                                                               ¤
¤                                        Next   É     Previous É       Done   É ¤
¤                                       ÔÔÔÔÔÔÔÔÔÔ    ÔÔÔÔÔÔÔÔÔÔ     ÔÔÔÔÔÔÔÔÔÔ ¤
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 ESC-Close window  F1-Help   MD1-8Q   COBRA v5.08, R&K Engineering, Inc, 1991-4
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INPUT SCREEN FOUR - STATIC BASE INFORMATION

Name: FORT BUCHANAN, PR

Total Officer Employees:	84	RPMA Non-Payroll ($K/Year):	3,986
Total Enlisted Employees:	331	Communications ($K/Year):	856
Total Student Employees:	18	BOS Non-Payroll ($K/Year):	9,106
Total Civilian Employees:	553	BOS Payroll ($K/Year):	6,071
Mil Families Living On Base:	100.0%	Family Housing ($K/Year):	3,699
Civilians Not Willing To Move:	6.0%	Area Cost Factor:	1.05
Officer Housing Units Avail:	0	CHAMPUS In-Pat ($/Visit):	0
Enlisted Housing Units Avail:	0	CHAMPUS Out-Pat ($/Visit):	0
Total Base Facilities(KSF):	1,230	CHAMPUS Shift to Medicare:	0.0%
Officer VHA ($/Month):	500	Activity Code:	RQ327
Enlisted VHA ($/Month):	350		
Per Diem Rate ($/Day):	179	Homeowner Assistance Program:	No
Freight Cost ($/Ton/Mile):	0.07	Unique Activity Information:	No

Name: VALLEY GROVE, WV

Total Officer Employees:	0	RPMA Non-Payroll ($K/Year):	4
Total Enlisted Employees:	0	Communications ($K/Year):	2
Total Student Employees:	0	BOS Non-Payroll ($K/Year):	4
Total Civilian Employees:	7	BOS Payroll ($K/Year):	5
Mil Families Living On Base:	0.0%	Family Housing ($K/Year):	0
Civilians Not Willing To Move:	6.0%	Area Cost Factor:	1.03
Officer Housing Units Avail:	0	CHAMPUS In-Pat ($/Visit):	0
Enlisted Housing Units Avail:	0	CHAMPUS Out-Pat ($/Visit):	0
Total Base Facilities(KSF):	10	CHAMPUS Shift to Medicare:	0.0%
Officer VHA ($/Month):	128	Activity Code:	WV0039
Enlisted VHA ($/Month):	37		
Per Diem Rate ($/Day):	109	Homeowner Assistance Program:	No
Freight Cost ($/Ton/Mile):	0.07	Unique Activity Information:	No

INPUT SCREEN FOUR - STATIC BASE INFORMATION

Name: CARLISLE BARRACKS, PA

Total Officer Employees:	185	RPMA Non-Payroll ($K/Year):	2,413
Total Enlisted Employees:	222	Communications ($K/Year):	1,538
Total Student Employees:	334	BOS Non-Payroll ($K/Year):	4,693
Total Civilian Employees:	760	BOS Payroll ($K/Year):	10,304
Mil Families Living On Base:	54.1%	Family Housing ($K/Year):	2,841
Civilians Not Willing To Move:	6.0%	Area Cost Factor:	0.98
Officer Housing Units Avail:	0	CHAMPUS In-Pat ($/Visit):	0
Enlisted Housing Units Avail:	0	CHAMPUS Out-Pat ($/Visit):	0
Total Base Facilities(KSF):	1,763	CHAMPUS Shift to Medicare:	
0.0%			
Officer VHA ($/Month):	129	Activity Code:	42155
Enlisted VHA ($/Month):	77		
Per Diem Rate ($/Day):	109	Homeowner Assistance Program:	No
Freight Cost ($/Ton/Mile):	0.07	Unique Activity Information:	No

Name: FORT BENNING, GA

Total Officer Employees:	1,423	RPMA Non-Payroll ($K/Year):	23,878
Total Enlisted Employees:	9,837	Communications ($K/Year):	2,954
Total Student Employees:	8,191	BOS Non-Payroll ($K/Year):	50,994
Total Civilian Employees:	3,988	BOS Payroll ($K/Year):	57,528
Mil Families Living On Base:	54.9%	Family Housing ($K/Year):	17,957
Civilians Not Willing To Move:	6.0%	Area Cost Factor:	0.76
Officer Housing Units Avail:	0	CHAMPUS In-Pat ($/Visit):	0
Enlisted Housing Units Avail:	0	CHAMPUS Out-Pat ($/Visit):	0
Total Base Facilities(KSF):	13,559	CHAMPUS Shift to Medicare:	
0.0%			
Officer VHA ($/Month):	51	Activity Code:	13025
Enlisted VHA ($/Month):	23		
Per Diem Rate ($/Day):	74	Homeowner Assistance Program:	No
Freight Cost ($/Ton/Mile):	0.07	Unique Activity Information:	No

Department :
Option Package :
Scenario File : (none)
Std Fctrs File : (none)

INPUT SCREEN FOUR - STATIC BASE INFORMATION

Name: FORT BLISS, TX

Total Officer Employees:	1,679	RPMA Non-Payroll ($K/Year):	25,044
Total Enlisted Employees:	9,853	Communications ($K/Year):	4,527
Total Student Employees:	2,196	BOS Non-Payroll ($K/Year):	64,637
Total Civilian Employees:	4,132	BOS Payroll ($K/Year):	52,130
Mil Families Living On Base:	43.8%	Family Housing ($K/Year):	13,155
Civilians Not Willing To Move:	6.0%	Area Cost Factor:	0.96
Officer Housing Units Avail:	0	CHAMPUS In-Pat ($/Visit):	0
Enlisted Housing Units Avail:	0	CHAMPUS Out-Pat ($/Visit):	0
Total Base Facilities(KSF):	12,968	CHAMPUS Shift to Medicare:	
0.0%			
Officer VHA ($/Month):	78	Activity Code:	48125
Enlisted VHA ($/Month):	53		
Per Diem Rate ($/Day):	93	Homeowner Assistance Program:	No
Freight Cost ($/Ton/Mile):	0.07	Unique Activity Information:	No

Name: FORT EUSTIS, VA

Total Officer Employees:	536	RPMA Non-Payroll ($K/Year):	9,889
Total Enlisted Employees:	3,608	Communications ($K/Year):	2,719
Total Student Employees:	1,734	BOS Non-Payroll ($K/Year):	24,551
Total Civilian Employees:	2,440	BOS Payroll ($K/Year):	23,364
Mil Families Living On Base:	43.6%	Family Housing ($K/Year):	8,290
Civilians Not Willing To Move:	6.0%	Area Cost Factor:	0.86
Officer Housing Units Avail:	0	CHAMPUS In-Pat ($/Visit):	0
Enlisted Housing Units Avail:	0	CHAMPUS Out-Pat ($/Visit):	0
Total Base Facilities(KSF):	4,915	CHAMPUS Shift to Medicare:	
0.0%			
Officer VHA ($/Month):	153	Activity Code:	51215
Enlisted VHA ($/Month):	126		
Per Diem Rate ($/Day):	104	Homeowner Assistance Program:	No
Freight Cost ($/Ton/Mile):	0.07	Unique Activity Information:	No

Name: FORT GORDON, GA

Total Officer Employees:	993	RPMA Non-Payroll ($K/Year):	12,264
Total Enlisted Employees:	5,746	Communications ($K/Year):	2,850
Total Student Employees:	5,047	BOS Non-Payroll ($K/Year):	45,143
Total Civilian Employees:	2,380	BOS Payroll ($K/Year):	26,442
Mil Families Living On Base:	21.7%	Family Housing ($K/Year):	4,626
Civilians Not Willing To Move:	6.0%	Area Cost Factor:	0.83
Officer Housing Units Avail:	0	CHAMPUS In-Pat ($/Visit):	0
Enlisted Housing Units Avail:	0	CHAMPUS Out-Pat ($/Visit):	0
Total Base Facilities(KSF):	9,727	CHAMPUS Shift to Medicare:	
0.0%			
Officer VHA ($/Month):	59	Activity Code:	13055
Enlisted VHA ($/Month):	74		
Per Diem Rate ($/Day):	76	Homeowner Assistance Program:	No
Freight Cost ($/Ton/Mile):	0.07	Unique Activity Information:	No

Data As Of 13:34 03/09/1995, Report Created 13:36 03/09/1995

Department :
Option Package :
Scenario File : (none)
Std Fctrs File : (none)

INPUT SCREEN FOUR - STATIC BASE INFORMATION

Name: FORT JACKSON, SC

Total Officer Employees:	584	RPMA Non-Payroll ($K/Year):	10,814
Total Enlisted Employees:	2,904	Communications ($K/Year):	2,139
Total Student Employees:	10,220	BOS Non-Payroll ($K/Year):	22,168
Total Civilian Employees:	2,459	BOS Payroll ($K/Year):	30,860
Mil Families Living On Base:	45.0%	Family Housing ($K/Year):	4,834
Civilians Not Willing To Move:	6.0%	Area Cost Factor:	0.73
Officer Housing Units Avail:	0	CHAMPUS In-Pat ($/Visit):	0
Enlisted Housing Units Avail:	0	CHAMPUS Out-Pat ($/Visit):	0
Total Base Facilities(KSF):	8,639	CHAMPUS Shift to Medicare:	
0.0%			
Officer VHA ($/Month):	61	Activity Code:	45455
Enlisted VHA ($/Month):	53		
Per Diem Rate ($/Day):	83	Homeowner Assistance Program:	No
Freight Cost ($/Ton/Mile):	0.07	Unique Activity Information:	No

Name: FORT KNOX, KY

Total Officer Employees:	999	RPMA Non-Payroll ($K/Year):	20,640
Total Enlisted Employees:	6,875	Communications ($K/Year):	3,734
Total Student Employees:	6,476	BOS Non-Payroll ($K/Year):	64,697
Total Civilian Employees:	3,810	BOS Payroll ($K/Year):	57,386
Mil Families Living On Base:	70.7%	Family Housing ($K/Year):	21,604
Civilians Not Willing To Move:	6.0%	Area Cost Factor:	0.98
Officer Housing Units Avail:	0	CHAMPUS In-Pat ($/Visit):	0
Enlisted Housing Units Avail:	0	CHAMPUS Out-Pat ($/Visit):	0
Total Base Facilities(KSF):	11,681	CHAMPUS Shift to Medicare:	
0.0%			
Officer VHA ($/Month):	0	Activity Code:	21405
Enlisted VHA ($/Month):	0		
Per Diem Rate ($/Day):	66	Homeowner Assistance Program:	No
Freight Cost ($/Ton/Mile):	0.07	Unique Activity Information:	No

Name: FORT LEAVENWORTH, KS

Total Officer Employees:	1,651	RPMA Non-Payroll ($K/Year):	10,190
Total Enlisted Employees:	549	Communications ($K/Year):	2,166
Total Student Employees:	2,071	BOS Non-Payroll ($K/Year):	3,254
Total Civilian Employees:	1,745	BOS Payroll ($K/Year):	31,814
Mil Families Living On Base:	49.7%	Family Housing ($K/Year):	11,648
Civilians Not Willing To Move:	6.0%	Area Cost Factor:	1.06
Officer Housing Units Avail:	0	CHAMPUS In-Pat ($/Visit):	0
Enlisted Housing Units Avail:	0	CHAMPUS Out-Pat ($/Visit):	0
Total Base Facilities(KSF):	4,053	CHAMPUS Shift to Medicare:	
0.0%			
Officer VHA ($/Month):	96	Activity Code:	20395
Enlisted VHA ($/Month):	47		
Per Diem Rate ($/Day):	101	Homeowner Assistance Program:	No
Freight Cost ($/Ton/Mile):	0.07	Unique Activity Information:	No

Department :
Option Package :
Scenario File : (none)
Std Fctrs File : (none)

INPUT SCREEN FOUR - STATIC BASE INFORMATION

Name: FORT LEONARD WOOD, MO

Total Officer Employees:	592	RPMA Non-Payroll ($K/Year):	17,391
Total Enlisted Employees:	3,458	Communications ($K/Year):	1,481
Total Student Employees:	8,927	BOS Non-Payroll ($K/Year):	26,644
Total Civilian Employees:	1,981	BOS Payroll ($K/Year):	19,014
Mil Families Living On Base:	100.0%	Family Housing ($K/Year):	17,218
Civilians Not Willing To Move:	6.0%	Area Cost Factor:	1.10
Officer Housing Units Avail:	0	CHAMPUS In-Pat ($/Visit):	0
Enlisted Housing Units Avail:	0	CHAMPUS Out-Pat ($/Visit):	0
Total Base Facilities(KSF):	8,246	CHAMPUS Shift to Medicare:	0.0%
Officer VHA ($/Month):	0	Activity Code:	29995
Enlisted VHA ($/Month):	0		
Per Diem Rate ($/Day):	66	Homeowner Assistance Program:	No
Freight Cost ($/Ton/Mile):	0.07	Unique Activity Information:	No

Name: FORT MCCLELLAN, AL

Total Officer Employees:	400	RPMA Non-Payroll ($K/Year):	8,008
Total Enlisted Employees:	1,771	Communications ($K/Year):	1,833
Total Student Employees:	4,227	BOS Non-Payroll ($K/Year):	16,521
Total Civilian Employees:	1,221	BOS Payroll ($K/Year):	20,246
Mil Families Living On Base:	33.2%	Family Housing ($K/Year):	2,921
Civilians Not Willing To Move:	6.0%	Area Cost Factor:	0.76
Officer Housing Units Avail:	0	CHAMPUS In-Pat ($/Visit):	0
Enlisted Housing Units Avail:	0	CHAMPUS Out-Pat ($/Visit):	0
Total Base Facilities(KSF):	5,839	CHAMPUS Shift to Medicare:	0.0%
Officer VHA ($/Month):	0	Activity Code:	55425
Enlisted VHA ($/Month):	0		
Per Diem Rate ($/Day):	68	Homeowner Assistance Program:	No
Freight Cost ($/Ton/Mile):	0.07	Unique Activity Information:	No

Name: FORT RUCKER, AL

Total Officer Employees:	1,213	RPMA Non-Payroll ($K/Year):	11,654
Total Enlisted Employees:	1,925	Communications ($K/Year):	5,011
Total Student Employees:	2,087	BOS Non-Payroll ($K/Year):	18,183
Total Civilian Employees:	2,601	BOS Payroll ($K/Year):	55,767
Mil Families Living On Base:	52.2%	Family Housing ($K/Year):	6,952
Civilians Not Willing To Move:	6.0%	Area Cost Factor:	0.78
Officer Housing Units Avail:	0	CHAMPUS In-Pat ($/Visit):	0
Enlisted Housing Units Avail:	0	CHAMPUS Out-Pat ($/Visit):	0
Total Base Facilities(KSF):	6,071	CHAMPUS Shift to Medicare:	0.0%
Officer VHA ($/Month):	0	Activity Code:	1252
Enlisted VHA ($/Month):	0		
Per Diem Rate ($/Day):	69	Homeowner Assistance Program:	No
Freight Cost ($/Ton/Mile):	0.07	Unique Activity Information:	No

Name: FORT SAM HOUSTON, TX

Total Officer Employees:	1,731	RPMA Non-Payroll ($K/Year):	12,899
Total Enlisted Employees:	2,971	Communications ($K/Year):	4,566
Total Student Employees:	4,866	BOS Non-Payroll ($K/Year):	44,555
Total Civilian Employees:	4,817	BOS Payroll ($K/Year):	29,704
Mil Families Living On Base:	25.2%	Family Housing ($K/Year):	10,170
Civilians Not Willing To Move:	6.0%	Area Cost Factor:	0.87
Officer Housing Units Avail:	0	CHAMPUS In-Pat ($/Visit):	0
Enlisted Housing Units Avail:	0	CHAMPUS Out-Pat ($/Visit):	0
Total Base Facilities(KSF):	5,468	CHAMPUS Shift to Medicare:	0.0%
Officer VHA ($/Month):	153	Activity Code:	48265
Enlisted VHA ($/Month):	111		
Per Diem Rate ($/Day):	111	Homeowner Assistance Program:	No
Freight Cost ($/Ton/Mile):	0.07	Unique Activity Information:	No

Data As Of 14:10 03/09/1995, Report Created 14:26 03/09/1995

Department :
Option Package :
Scenario File : (none)
Std Fctrs File : (none)

INPUT SCREEN FOUR - STATIC BASE INFORMATION

Name: FORT SILL, OK

Total Officer Employees:	1,297	RPMA Non-Payroll ($K/Year):	30,026
Total Enlisted Employees:	9,613	Communications ($K/Year):	3,162
Total Student Employees:	6,755	BOS Non-Payroll ($K/Year):	57,832
Total Civilian Employees:	2,568	BOS Payroll ($K/Year):	37,994
Mil Families Living On Base:	19.8%	Family Housing ($K/Year):	12,633
Civilians Not Willing To Move:	6.0%	Area Cost Factor:	0.88
Officer Housing Units Avail:	0	CHAMPUS In-Pat ($/Visit):	0
Enlisted Housing Units Avail:	0	CHAMPUS Out-Pat ($/Visit):	0
Total Base Facilities(KSF):	12,201	CHAMPUS Shift to Medicare:	0.0%
Officer VHA ($/Month):	0	Activity Code:	40755
Enlisted VHA ($/Month):	0		
Per Diem Rate ($/Day):	71	Homeowner Assistance Program:	No
Freight Cost ($/Ton/Mile):	0.07	Unique Activity Information:	No

Name: POM, CA

Total Officer Employees:	86	RPMA Non-Payroll ($K/Year):	2,214
Total Enlisted Employees:	322	Communications ($K/Year):	1,040
Total Student Employees:	2,993	BOS Non-Payroll ($K/Year):	6,061
Total Civilian Employees:	1,308	BOS Payroll ($K/Year):	17,965
Mil Families Living On Base:	8.0%	Family Housing ($K/Year):	10,590
Civilians Not Willing To Move:	6.0%	Area Cost Factor:	1.24
Officer Housing Units Avail:	0	CHAMPUS In-Pat ($/Visit):	0
Enlisted Housing Units Avail:	0	CHAMPUS Out-Pat ($/Visit):	0
Total Base Facilities(KSF):	1,755	CHAMPUS Shift to Medicare:	0.0%
Officer VHA ($/Month):	363	Activity Code:	6305
Enlisted VHA ($/Month):	272		
Per Diem Rate ($/Day):	111	Homeowner Assistance Program:	No
Freight Cost ($/Ton/Mile):	0.07	Unique Activity Information:	No

INPUT SCREEN FIVE - DYNAMIC BASE INFORMATION

Name: FORT LEAVENWORTH, KS

	1996	1997	1998	1999	2000	2001
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 ($K):	0	0	0	0	0	0
Misc Recurring Cost($K):	0	0	0	0	0	0
Misc Recurring Save($K):	0	0	0	0	0	0
Land (+Buy/-Sales) ($K):	0	0	0	0	0	0
Construction Schedule(%):	0%	0%	0%	0%	0%	0%
Shutdown Schedule (%):	0%	0%	0%	0%	0%	0%
MilCon Cost Avoidnc($K):	0	0	0	0	0	0
Fam Housing Avoidnc($K):	0	0	0	0	0	0
Procurement Avoidnc($K):	0	0	0	0	0	0
CHAMPUS In-Patients/Yr:	0	0	0	0	0	0
CHAMPUS Out-Patients/Yr:	0	0	0	0	0	0
Facil ShutDown(KSF):	0	Perc Family Housing ShutDown:				0.0%

INPUT SCREEN FOUR - STATIC BASE INFORMATION

Name: Fort Irwin

Total Officer Employees:	636	RPMA Non-Payroll ($K/Year):	8,486
Total Enlisted Employees:	3,858	Communications ($K/Year):	1,040
Total Student Employees:	0	BOS Non-Payroll ($K/Year):	36,761
Total Civilian Employees:	1,024	BOS Payroll ($K/Year):	24,507
Mil Families Living On Base:	60.5%	Family Housing ($K/Year):	3,726
Civilians Not Willing To Move:	6.0%	Area Cost Factor:	1.30
Officer Housing Units Avail:	0	CHAMPUS In-Pat ($/Visit):	0
Enlisted Housing Units Avail:	0	CHAMPUS Out-Pat ($/Visit):	0
Total Base Facilities(KSF):	3,090	CHAMPUS Shift to Medicare:	20.9%
Officer VHA ($/Month):	80	Activity Code:	06419
Enlisted VHA ($/Month):	130		
Per Diem Rate ($/Day):	93	Homeowner Assistance Program:	Yes
Freight Cost ($/Ton/Mile):	0.07	Unique Activity Information:	No

INPUT SCREEN FOUR - STATIC BASE INFORMATION

Name: Ft. Polk, LA

Total Officer Employees:	1,256	RPMA Non-Payroll ($K/Year):	22,915
Total Enlisted Employees:	8,804	Communications ($K/Year):	1,601
Total Student Employees:	0	BOS Non-Payroll ($K/Year):	48,268
Total Civilian Employees:	2,395	BOS Payroll ($K/Year):	32,179
Mil Families Living On Base:	86.5%	Family Housing ($K/Year):	18,615
Civilians Not Willing To Move:	6.0%	Area Cost Factor:	0.96
Officer Housing Units Avail:	0	CHAMPUS In-Pat ($/Visit):	0
Enlisted Housing Units Avail:	0	CHAMPUS Out-Pat ($/Visit):	0
Total Base Facilities(KSF):	7,832	CHAMPUS Shift to Medicare:	20.9%
Officer VHA ($/Month):	4	Activity Code:	
Enlisted VHA ($/Month):	0		
Per Diem Rate ($/Day):	74	Homeowner Assistance Program:	Yes
Freight Cost ($/Ton/Mile):	0.07	Unique Activity Information:	No

Document Separator

Department of the Army
The Army Basing Study

BRAC 95 Scenario Development Data Call Tasking

URGENT*** 48 Hour Turnaround Required *** URGENT

Date: 15 December 1994

To: Department of the Air Force
AF/RT 1670 Air Force Pentagon
Washington, D.C. 20330-1670

This FAX consists of the Test & Evaluation Joint Cross-Service Group (T&EJCSG) alternatives where the Department of the Army is a "loser" to the Department of the Air Force. In addition, this FAX contains blank COBRA data screens and a certification form, which are to be completed for each of the below identified alternatives.

A response is requested within 48 hours. Negative responses are required if no action is going to be taken. Responses can be FAXed to The Army Basing Study (TABS) office (DACS-TAB) at (703)693-9322. If you have any questions please contact LTC Jack Marriott at (703)697-1765.

I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.

MICHAEL G. JONES
COL, GS
Director, The Army Basing Study

T&E JCSG Alternatives: Army Loser / Air Force Gainer

Control Number: TE-1(AV)

Title: Realign the Aviation Technical Test Center (ATTC) Fort Rucker, AL to Edwards AFB, CA. Address all data pertaining to this request with the number TE-1(AV).

The air vehicle testing at ATTC, Fort Rucker duplicates capabilities at other core T&E activities. The workload could be transfered to core activities at Edwards AFB, CA. ATTC, Fort Rucker is not a core Air Vehicle T&E activity. This alternative reduces the number of activities involved in opern ari testing with potential savings of O&M and I&M funds.

The following requirements are submitted to the US Air Force to enable them to determine their ability to accommodate the requirements at Edwards AFB, CA and to provide to the Army the gaining base costs to allow completion of COBRA analysis:

Personnel:	
Military	51
Civilian	58
Contractor	221
Equipment: (in tons)	
General Equipment	399
Equipment Requiring Special Handling	35
Facilities:	
Hangar, Shop, Test Administration	155,067 sq ft

Aircraft:

TYPE	QTY	TYPE	QTY
AH-64D LB	1	UH-60L	1
AH-64A	2	UH-1H	1
CH-47D	1	OH-58C	1
OH-58D	1	C-23A	2
UH-60A	1	U-21A/H	1
EH-60A	1	Other	1

Control Number: TE-2(AV)

Title: Realign the Aviation Qualification Test Directorate (AQTD), Edwards AFB to AFFTC Edwards AFB, CA

The air vehicle testing at AQTD, Edwards AFB, CA duplicates capabilities at other core T&E activities. The workload could be transfered to core activities at AFFTC Edwards AFB, CA. AQTD, Edwards AFB is not a core Air Vehicle T&E activity. This

alternative reduces the number of activities involved in open air testing with potential savings of O&M and I&M funds

The following requirements are submitted to the US Air Force to enable them to determine their ability to accommodate the requirements at Edwards AFB, CA and to provide to the Army the gaining base costs to allow completion of COBRA analysis:

Personnel:	
Military	40
Civilian	68
Contractor	15
Equipment: (in tons)	
General Equipment	301
Equipment Requiring Special Handling	14
Facilities:	
Hangar, Shop, Test Administration	128,302 sq ft

Aircraft:

TYPE	QTY	TYPE	QTY
AH-64A	1	AH-1F	1
CH-47D	1	U-21A/H	1
OH-58C	1	T-34C	3
UH-60A	1	Other	1
UH-1H	3		

Control Number: TE-4(A/W)

Title: Realign Redstone Technical Test Center (RTTC) Armament/Weapons Testing measurement facility and open air range work currently accomplished in the following facilities at RTTC to an Armament/Weapons core T&E activity as listed below.

The following requirements are submitted to the US Air Force to enable them to determine their ability to accommodate the requirements at Edwards AFB, CA and to provide to the Army the gaining base costs to allow completion of COBRA analysis:

Measurement Facility - Guidance to Eglin AFB, FL or Holloman AFB, NM

Personnel	
Military	0
Civilian	30
Contractor	51

Equipment: (in tons)

General Equipment	19.2
Equipment Requiring Special Handling	0.5

Facilities:

Laboratory	88,000 sq ft
Admin	15,000 sq ft

General Purpose Test Equipment Required:

Estimated Cost	$28,450K

Measurement Facility - Open Air Range to Eglin AFB, FL or Holloman AFB, NM

Personnel:

Military	0
Civilian	3
Contractor	4

Equipment: (in tons)

General Equipment

Equipment Requiring Special Handling

Facilities:

Reinforced Concrete Control Bunker	1,700 sq ft
Reinforced Concrete Instrumentation Bunker	900 sq ft
Ballistic Sled Track	$300K

General Purpose Test Equipment Required:

Estimated Cost	$1,350K

DEPARTMENT OF THE ARMY SCENARIO DEVELOPMENT DATA TASKER

1. **Scenario Identification Data.** Identify, in the table below, the option number associated with this data request and the name and location of the receiving location.

Option Number
Gaining Installation

2. **Receiving Site Military Construction Cost Data.** Identify any construction requirements associated with this transfer. If any costs are provided for standard categories of construction, show these costs in the comment column.

Category (Unit)	New Construction Requirement	Rehabilitation Requirement	Comment
Horizontal (SY)			
Berthing (Waterfront) (FB)			
Air Maint (Air Ops)(SF)			
Other Operations (SF)			
Administrative (SF)			
Training (School Bldgs) (SF)			
Maintenance (SF)			
Bachelor Quarters (SF)			
Family Housing (Units)			
Supply/Storage (SF)			
Dining Facilities (SF)			
Pers. Supp (Recreation)(SF)			
Communications (SF)			
Ship Maintenance (SF)			
RDT&E (SF)			
POL Storage (BL)			
Ammo Storage (SF)			
Medical Facilities (SF)			
Environmental	$	$	
Other: - - -	 $ $ $	 $ $ $	

DEPARTMENT OF THE ARMY SCENARIO DEVELOPMENT DATA TASKER

3. **Other Costs/Savings Associated with the Scenario.** Use the following table to identify any other one-time or recurring costs/savings associated with this transfer. Please also provide a brief description/explanation of any costs/savings identified.

Gaining Base Name:								
		1996	1997	1998	1999	2000	2001	Total
a.	One-Time Unique Costs							
b.	One-Time Unique Savings							
c.	Environ. Mitigation							
d.	Misc. Recurring Costs							
e.	Misc. Recurring Savings							
f.	Land Purchases							

Certification. Please sign the attached certification form and return this certification with your response. The signing of this certification constitutes a representation that the certifying official has reviewed the information and either (1) personally vouches for its accuracy and completeness or (2) has possession of, and is relying upon, a certification executed by a competent subordinate.

I certify that the information contained herein is accurate and complete to the best of my knowledge and belief

Name (Please type or print)	Signature
Title	Date
Activity	

BSAT [illegible] Tannels 756-2174

BCEG Maj Wallace 693-9707
50973

AIR FORCE BRAC

FAX
693-9707

F THE ARMY
HIEF OF STAFF

SING STUDY

CS-TABS
AGON, ROOM 2A684
WASHINGTON, DC 20310-0200

POC: MARRIOTT

VOICE TELEPHONE:
DSN 227-1765COM (703) 697-1765/6
TABS FAX TELEPHONE:
(703) 693-9322/DSN 223-9322

DATE-TIME-GROUP
1508 10 Dec 94
NUMBER OF PAGES
H+7

- This should be it for the T&E JCSG.
- We had problems getting some numbers broken out in the field but this should do it.

Thanks

LTC Jack Marriott

DEPARTMENT OF THE AIR FORCE
HEADQUARTERS UNITED STATES AIR FORCE

19 JAN 1995

MEMORANDUM FOR DEPARTMENT OF THE ARMY
"THE ARMY BASING STUDY"

FROM: HQ USAF/RTR

SUBJECT: Response to Army Test & Evaluation Joint Cross-Service Group (LJCSG) Data Request For ATTC-Ft Rucker to Edwards AFB (TE-1(AV))

In response to your Test & Evaluation data request, please see comments on the attached pages. Questions can be referred to Maj Michael Wallace, HQ USAF/RTR, 695-4578.

I certify that the information contained herein is accurate and complete to the best of my knowledge.

WAYNE MAYFIELD, Col, USAF
Chairman, Base Closure Working Group

1/10

Department of the Army
The Army Basing Study

BRAC 95 Scenario Development Data Call Tasking

URGENT*** 48 Hour Turnaround Required *** URGENT

Date: 15 December 1994

To: Department of the Air Force
AF/RT 1670 Air Force Pentagon
Washington, D.C. 20330-1670

This FAX consists of the Test & Evaluation Joint Cross-Service Group (T&EJCSG) alternatives where the Department of the Army is a "loser" to the Department of the Air Force. In addition, this FAX contains blank COBRA data screens and a certification form, which are to be completed for each of the below identified alternatives.

A response is requested within 48 hours. Negative responses are required if no action is going to be taken. Responses can be FAXed to The Army Basing Study (TABS) office (DACS-TAB) at (703)693-9322. If you have any questions please contact LTC Jack Marriott at (703)697-1765.

I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.

MICHAEL G. JONES
COL, GS
Director, The Army Basing Study

2/10

T&E JCSG Alternatives: Army Loser / Air Force Gainer

Control Number: TE-1(AV)

Title: Realign the Aviation Technical Test Center (ATTC) Fort Rucker, AL to Edwards AFB, CA. Address all data pertaining to this request with the number TE-1(AV).

The air vehicle testing at ATTC, Fort Rucker duplicates capabilities at other core T&E activities. The workload could be transfered to core activities at Edwards AFB, CA. ATTC, Fort Rucker is not a core Air Vehicle T&E activity. This alternative reduces the number of activities involved in opern ari testing with potential savings of O&M and I&M funds.

The following requirements are submitted to the US Air Force to enable them to determine their ability to accommodate the requirements at Edwards AFB, CA and to provide to the Army the gaining base costs to allow completion of COBRA analysis:

Personnel:	
Military	51
Civilian	58
Contractor	221
Equipment: (in tons)	
General Equipment	399
Equipment Requiring Special Handling	35
Facilities:	
Hangar, Shop, Test Administration	155,067 sq ft

Aircraft:

TYPE	QTY	TYPE	QTY
AH-64D LB	1	UH-60L	1
AH-64A	2	UH-1H	1
CH-47D	1	OH-58C	1
OH-58D	1	C-23A	2
UH-60A	1	U-21A/H	1
EH-60A	1	Other	1

Control Number: TE-2(AV)

Title: Realign the Aviation Qualification Test Directorate (AQTD), Edwards AFB to AFFTC Edwards AFB, CA

The air vehicle testing at AQTD, Edwards AFB, CA duplicates capabilities at other core T&E activities. The workload could be transfered to core activities at AFFTC Edwards AFB, CA. AQTD, Edwards AFB is not a core Air Vehicle T&E activity. This

3/10

alternative reduces the number of activities involved in open air testing with potential savings of O&M and I&M funds.

The following requirements are submitted to the US Air Force to enable them to determine their ability to accommodate the requirements at Edwards AFB, CA and to provide to the Army the gaining base costs to allow completion of COBRA analysis.

Personnel:	
Military	40
Civilian	68
Contractor	15
Equipment: (in tons)	
General Equipment	301
Equipment Requiring Special Handling	14
Facilities:	
Hangar, Shop, Test Administration	128,302 sq ft

Aircraft:

TYPE	QTY	TYPE	QTY
AH-64A	1	AH-1F	1
CH-47D	1	U-21A/H	1
OH-58C	1	T-34C	3
UH-60A	1	Other	1
UH-1H	3		

Control Number: TE-4(A/W)

Title: Realign Redstone Technical Test Center (RTTC) Armament/Weapons Testing measurement facility and open air range work currently accomplished in the following facilities at RTTC to an Armament/Weapons core T&E activity as listed below.

The following requirements are submitted to the US Air Force to enable them to determine their ability to accommodate the requirements at Edwards AFB, CA and to provide to the Army the gaining base costs to allow completion of COBRA analysis:

Measurement Facility - Guidance to Eglin AFB, FL or Holloman AFB, NM

Personnel:	
Military	0
Civilian	30
Contractor	51

Equipment: (in tons)

General Equipment	19.2
Equipment Requiring Special Handling	0.5

Facilities:

Laboratory	88,000 sq ft
Admin	15,000 sq ft

General Purpose Test Equipment Required:

Estimated Cost	$28,450K

Measurement Facility - Open Air Range to Eglin AFB, FL or Holloman AFB, NM

Personnel:

Military	0
Civilian	3
Contractor	4

Equipment: (*in tons*)

General Equipment	
Equipment Requiring Special Handling	

Facilities:

Reinforced Concrete Control Bunker	1,700 sq ft
Reinforced Concrete Instrumentation Bunker	900 sq ft
Ballistic Sled Track	$300K

General Purpose Test Equipment Required:

Estimated Cost	$1,350K

5/10

DEPARTMENT OF THE ARMY SCENARIO DEVELOPMENT DATA TASKER

1. Scenario Identification Data. Identify, in the table below, the option number associated with this data request and the name and location of the receiving location.

Option Number: FE-1(AV)
Gaining Installation: Edwards AFB

2. Receiving Site Military Construction Cost Data. Identify any construction requirements associated with this transfer. If any costs are provided for standard categories of construction, show these costs in the comment column.

Category (Unit)	New Construction Requirement	Rehabilitation Requirement	Comment
Horizontal (SY)			
Berthing (Waterfront) (FB)			
Air Maint (Air Ops)(SF)			
Other Operations (SF)			
Administrative (SF)			
Training (School Bldgs) (SF)			
Maintenance (SF)		See	
Bachelor Quarters (SF)			
Family Housing (Units)		9/25	
Supply/Storage (SF)			
Dining Facilities (SF)			
Fam. Supp (Recreation)(SF)			
Communications (SF)			
Ship Maintenance (SF)			
RDT&E (SF)			
POL Storage (BL)			
Ammo Storage (SF)			
Medical Facilities (SF)			
Environmental	$	$	
Other:			
-	$	$	See Atch
-	$	$	
-	$	$	

6/10

DEPARTMENT OF THE ARMY SCENARIO DEVELOPMENT DATA TASKER

3. Other Costs/Savings Associated with the Scenario. Use the following table to identify any other one-time or recurring costs/savings associated with this transfer. Please also provide a brief description/explanation of any costs/savings identified.

Gaining Base Name:								
		1996	1997	1998	1999	2000	2001	Total
a.	One-Time Unique Costs							
b.	One-Time Unique Savings							
c.	Environ. Mitigation				See			
d.	Misc. Recurring Costs				atch			
e.	Misc. Recurring Savings							
f.	Land Purchases	—						

7/10

Certification. Please sign the attached certification form and return this certification with your response. The signing of this certification constitutes a representation that the certifying official has reviewed the information and either (1) personally vouches for its accuracy and completeness or (2) has possession of, and is relying upon, a certification executed by a competent subordinate.

I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.

WAYNE MAYFIELD
Name (Please type or print)

Signature

Chairman, Base Closure Working Group
Title

19 Jan 95
Date

HQ USAF/RTR
Activity

8/1

FOR OFFICIAL USE ONLY - BRAC SENSITIVE

16 December 1994

MEMORANDUM FOR AF/RT (Major Wallace)

Subject: T&E Functional Response to Army COBRA Tasker

Reference: Army DACS-TAB Telefax, BRAC 95 Scenario Development Data Call Tasking, 15 December 1994

We have evaluated the alternatives and find the following.

TE-2(AV): This alternative proposes realigning AQTD to Edwards AFB, CA. This will maintain the status quo; i.e., AQTD continue to operate as a tenant within current facilities. There is no cost to continue the status quo.

TE-1(AV): This alternative proposes realigning ATTC, Ft. Rucker to Edwards AFB, CA. There is a capacity and capability fit for this work at Edwards AFB. The ATTC can be consolidated with the AQTD currently at Edwards AFB. According to the certified T&E JCSG data, AQTD has sufficient hangar space to support 27 rotary-wing and light turboprop aircraft with support available for approximately 30 total aircraft given sufficient personnel. The requirement listed for TE-1(AV) by the Army in their 15 December 1994 tasker shows the transfer from ATTC of 14 aircraft with 18 aircraft remaining at AQTD (TE-2(AV)) for a total of 27 aircraft. Sufficient administrative space is available on Edwards AFB without new construction; although, not all personnel may be collocated at the existing AQTD facilities.

TE-4(A/W): This alternative proposes two realignments from the Redstone Technical Test Center (RTTC). They are addressed separately as sub-alternatives TE-4(A/W)MF-G and TE-4(A/W)OAR.

TE-4(A/W)MF-G: This sub-alternative proposes to realign work currently performed in the RTTC Component Test Facility to an Air Force activity. This work is only partially compatible with core Air Force T&E; consequently, the Air Force does not offer to cross-service this alternative.

TE-4(A/W)OAR: This sub-alternative proposes to realign work from the RTTC Small Missile Range to Eglin AFB, FL. There is a capacity and capability fit for this work at Eglin AFB. No rehabilitation, or new

FOR OFFICIAL USE ONLY - BRAC SENSITIVE

3/10

construction is required. No new facilities are required. No civilian personnel are required; although, the 3 civilians proposed by the Army can be accommodated if the Army wants to establish a liaison office. The 4 contractor personnel proposed by the Army can likewise be accommodated at Eglin; however, we estimate that only 2 new Operations and Maintenance (O&M) personnel would be required.

H. Douglas Nation

H. Douglas Nation, GM-15, DAF

cc: AF/TE
AF/TER

10/10

Certification of COBRA Screen 4

I certify that the information contained herein is accurate and complete to the best of my knowledge and belief as of ~~12/17/94~~.

J C O'Neill 1/19/95

John C. O'Neill
HQ USAF/RTT
(703) 695-4658

Name: EDWARDS, CA

Total Officer Employees:	728	RPMA Non-Payroll ($K/Year):	47,109
Total Enlisted Employees:	3,754	Communications ($K/Year):	19
Total Student Employees:	0	BOS Non-Payroll ($K/Year):	49,855
Total Civilian Employees:	3,876	BOS Payroll ($K/Year):	0
Mil Families Living On Base:	64.0%	Family Housing ($K/Year):	9,411
Civilians Not Willing To Move:	~~10.0%~~	Area Cost Factor:	1.38
Officer Housing Units Avail:	680	CHAMPUS In-Pat ($/Visit):	0
Enlisted Housing Units Avail:	0	CHAMPUS Out-Pat ($/Visit):	0
Total Base Facilities(KSF):	9,196	CHAMPUS Shift to Medicare:	20.9%
Officer VHA ($/Month):	157	Activity Code:	AF019
Enlisted VHA ($/Month):	165		
Per Diem Rate ($/Day):	140	Homeowner Assistance Program:	No
Freight Cost ($/Ton/Mile):	~~0.10~~ .07	Unique Activity Information:	No

Name: EGLIN, FL

Total Officer Employees:	1,428	RPMA Non-Payroll ($K/Year):	19,708
Total Enlisted Employees:	6,087	Communications ($K/Year):	323
Total Student Employees:	0	BOS Non-Payroll ($K/Year):	48,998
Total Civilian Employees:	4,041	BOS Payroll ($K/Year):	0
Mil Families Living On Base:	34.0%	Family Housing ($K/Year):	8,792
Civilians Not Willing To Move:	~~10.0%~~	Area Cost Factor:	0.73
Officer Housing Units Avail:	62 0	CHAMPUS In-Pat ($/Visit):	0
Enlisted Housing Units Avail:	0	CHAMPUS Out-Pat ($/Visit):	0
Total Base Facilities(KSF):	9,932	CHAMPUS Shift to Medicare:	20.9%
Officer VHA ($/Month):	84	Activity Code:	AF021
Enlisted VHA ($/Month):	57		
Per Diem Rate ($/Day):	91	Homeowner Assistance Program:	No
Freight Cost ($/Ton/Mile):	~~0.10~~ .07	Unique Activity Information:	No

Name: HANSCOM, MA

Total Officer Employees:	852	RPMA Non-Payroll ($K/Year):	6,164
Total Enlisted Employees:	872	Communications ($K/Year):	3,704
Total Student Employees:	0	BOS Non-Payroll ($K/Year):	18,161
Total Civilian Employees:	2,354	BOS Payroll ($K/Year):	0
Mil Families Living On Base:	59.0%	Family Housing ($K/Year):	8,996
Civilians Not Willing To Move:	~~10.0%~~	Area Cost Factor:	1.29
Officer Housing Units Avail:	62 0	CHAMPUS In-Pat ($/Visit):	0
Enlisted Housing Units Avail:	0	CHAMPUS Out-Pat ($/Visit):	0
Total Base Facilities(KSF):	4,425	CHAMPUS Shift to Medicare:	20.9%
Officer VHA ($/Month):	432	Activity Code:	AF036
Enlisted VHA ($/Month):	303		
Per Diem Rate ($/Day):	139	Homeowner Assistance Program:	Yes
Freight Cost ($/Ton/Mile):	~~0.10~~ .07	Unique Activity Information:	No

DEPARTMENT OF THE AIR FORCE
HEADQUARTERS UNITED STATES AIR FORCE

19 JAN 1995

MEMORANDUM FOR DEPARTMENT OF THE ARMY
"THE ARMY BASING STUDY"

FROM: HQ USAF/RTR

SUBJECT: Response to Army Test & Evaluation Joint Cross-Service Group (LJCSG) Data Request For AQTD-Edwards to AFFTC-Edwards AFB (TE-2(AV))

In response to your Test & Evaluation data request, please see comments on the attached pages. Questions can be referred to Maj Michael Wallace, HQ USAF/RTR, 695-4578.

I certify that the information contained herein is accurate and complete to the best of my knowledge.

WAYNE MAYFIELD, Col, USAF
Chairman, Base Closure Working Group

1/16

Department of the Army
The Army Basing Study

BRAC 95 Scenario Development Data Call Tasking

URGENT*** 48 Hour Turnaround Required *** URGENT

Date: 15 December 1994

To: Department of the Air Force
AF/RT 1670 Air Force Pentagon
Washington, D.C. 20330-1670

This FAX consists of the Test & Evaluation Joint Cross-Service Group (T&EJCSG) alternatives where the Department of the Army is a "loser" to the Department of the Air Force. In addition, this FAX contains blank COBRA data screens and a certification form, which are to be completed for each of the below identified alternatives.

A response is requested within 48 hours. Negative responses are required if no action is going to be taken. Responses can be FAXed to The Army Basing Study (TABS) office (DACS-TAB) at (703)693-9322. If you have any questions please contact LTC Jack Marriott at (703)697-1765.

I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.

MICHAEL G. JONES
COL, GS
Director, The Army Basing Study

T&E JCSG Alternatives: Army Loser / Air Force Gainer

Control Number: TE-1(AV)

Title: Realign the Aviation Technical Test Center (ATTC) Fort Rucker, AL to Edwards AFB, CA. Address all data pertaining to this request with the number TE-1(AV).

The air vehicle testing at ATTC, Fort Rucker duplicates capabilities at other core T&E activities. The workload could be transfered to core activities at Edwards AFB, CA. ATTC, Fort Rucker is not a core Air Vehicle T&E activity. This alternative reduces the number of activities involved in opern ari testing with potential savings of O&M and I&M funds.

The following requirements are submitted to the US Air Force to enable them to determine their ability to accommodate the requirements at Edwards AFB, CA and to provide to the Army the gaining base costs to allow completion of COBRA analysis:

Personnel:	
Military	51
Civilian	58
Contractor	221
Equipment: (in tons)	
General Equipment	399
Equipment Requiring Special Handling	35
Facilities:	
Hangar, Shop, Test Administration	155,067 sq ft

Aircraft:

TYPE	QTY	TYPE	QTY
AH-64D LB	1	UH-60L	1
AH-64A	2	UH-1H	1
CH-47D	1	OH-58C	1
OH-58D	1	C-23A	2
UH-60A	1	U-21A/H	1
EH-60A	1	Other	1

Control Number: TE-2(AV)

Title: Realign the Aviation Qualification Test Directorate (AQTD), Edwards AFB to AFFTC Edwards AFB, CA

The air vehicle testing at AQTD, Edwards AFB, CA duplicates capabilities at other core T&E activities. The workload could be transfered to core activities at AFFTC Edwards AFB, CA. AQTD, Edwards AFB is not a core Air Vehicle T&E activity. This

alternative reduces the number of activities involved in open air testing with potential savings of O&M and I&M funds.

The following requirements are submitted to the US Air Force to enable them to determine their ability to accommodate the requirements at Edwards AFB, CA and to provide to the Army the gaining base costs to allow completion of COBRA analysis.

Personnel:	
Military	40
Civilian	68
Contractor	15
Equipment: (in tons)	
General Equipment	301
Equipment Requiring Special Handling	14
Facilities:	
Hangar, Shop, Test Administration	128,302 sq ft

Aircraft:

TYPE	QTY	TYPE	QTY
AH-64A	1	AH-1F	1
CH-47D	1	U-21A/H	1
OH-58C	1	T-34C	3
UH-60A	1	Other	1
UH-1H	3		

Control Number: TE-4(A/W)

Title: Realign Redstone Technical Test Center (RTTC) Armament/Weapons Testing measurement facility and open air range work currently accomplished in the following facilities at RTTC to an Armament/Weapons core T&E activity as listed below.

The following requirements are submitted to the US Air Force to enable them to determine their ability to accommodate the requirements at Edwards AFB, CA and to provide to the Army the gaining base costs to allow completion of COBRA analysis:

<u>Measurement Facility - Guidance</u> to Eglin AFB, FL or Holloman AFB, NM

Personnel:	
Military	0
Civilian	30
Contractor	51

Equipment: (in tons)

General Equipment	19.2
Equipment Requiring Special Handling	0.5
Facilities:	
Laboratory	88,000 sq ft
Admin	15,000 sq ft
General Purpose Test Equipment Required:	
Estimated Cost	$28,450K

Measurement Facility - Open Air Range to Eglin AFB, FL or Holloman AFB, NM

Personnel:	
Military	0
Civilian	3
Contractor	4
Equipment: (in tons)	
General Equipment	
Equipment Requiring Special Handling	
Facilities:	
Reinforced Concrete Control Bunker	1,700 sq ft
Reinforced Concrete Instrumentation Bunker	900 sq ft
Ballistic Sled Track	$300K
General Purpose Test Equipment Required:	
Estimated Cost	$1,350K

DEPARTMENT OF THE ARMY SCENARIO DEVELOPMENT DATA TASKER

1. Scenario Identification Data. Identify, in the table below, the option number associated with this data request and the name and location of the receiving location.

Option Number:
Gaining Installation:

2. Receiving Site Military Construction Cost Data. Identify any construction requirements associated with this transfer. If any costs are provided for standard categories of construction, show these costs in the comment column.

Category (Unit)	New Construction Requirement	Rehabilitation Requirement	Comment
Horizontal (SY)			
Berthing (Waterfront) (FB)			
Air Maint (Air Ops)(SF)			
Other Operations (SF)			
Administrative (SF)			
Training (School Bldgs) (SF)			
Maintenance (SF)			
Bachelor Quarters (SF)		see	
Family Housing (Units)		atch	
Supply/Storage (SF)			
Dining Facilities (SF)			
Purr. Supp (Recreation)(SF)			
Communications (SF)			
Ship Maintenance (SF)			
RDT&E (SF)			
POL Storage (BL)			
Ammo Storage (SF)			
Medical Facilities (SF)			
Environmental	$	$	
Other:			
-	$	$	see
-	$	$	
-	$	$	atch

DEPARTMENT OF THE ARMY SCENARIO DEVELOPMENT DATA TASKER

3. Other Costs/Savings Associated with the Scenario. Use the following table to identify any other one-time or recurring costs/savings associated with this transfer. Please also provide a brief description/explanation of any costs/savings identified.

Gaining Base Name:								
		1996	1997	1998	1999	2000	2001	Total
a.	One-Time Unique Costs							
b.	One-Time Unique Savings							
c.	Environ. Mitigation				N/A			
d.	Misc. Recurring Costs							
e.	Misc. Recurring Savings							
f.	Land Purchases	—						

Certification. Please sign the attached certification form and return this certification with your response. The signing of this certification constitutes a representation that the certifying official has reviewed the information and either (1) personally vouches for its accuracy and completeness or (2) has possession of, and is relying upon, a certification executed by a competent subordinate.

I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.

WAYNE MAYFIELD
Name (Please type or print)

Wayne Mayfield
Signature

Chairman, Base Closure Working Group
Title

19 Jan 95
Date

HQ USAF/RTR
Activity

8/10

FOR OFFICIAL USE ONLY - BRAC SENSITIVE

16 December 1994

MEMORANDUM FOR AF/RT (Major Wallace)

Subject: T&E Functional Response to Army COBRA Tasker

Reference: Army DACS-TAB Telefax, BRAC 95 Scenario Development Data Call Tasking, 15 December 1994

We have evaluated the alternatives and find the following.

TE-2(AV): This alternative proposes realigning AQTD to Edwards AFB, CA. This will maintain the status quo; i.e., AQTD continue to operate as a tenant within current facilities. There is no cost to continue the status quo.

TE-1(AV): This alternative proposes realigning ATTC, Ft. Rucker to Edwards AFB, CA. There is a capacity and capability fit for this work at Edwards AFB. The ATTC can be consolidated with the AQTD currently at Edwards AFB. According to the certified T&E JCSG data, AQTD has sufficient hangar space to support 27 rotary-wing and light turboprop aircraft with support available for approximately 80 total aircraft given sufficient personnel. The requirement listed for TE-1(AV) by the Army in their 15 December 1994 tasker shows the transfer from ATTC of 14 aircraft with 13 aircraft remaining at AQTD (TE-2(AV)) for a total of 27 aircraft. Sufficient administrative space is available on Edwards AFB without new construction; although, not all personnel may be collocated at the existing AQTD facilities.

TE-4(A/W): This alternative proposes two realignments from the Redstone Technical Test Center (RTTC). They are addressed separately as sub-alternatives TE-4(A/W)MF-G and TE-4(A/W)OAR.

TE-4(A/W)MF-G: This sub-alternative proposes to realign work currently performed in the RTTC Component Test Facility to an Air Force activity. This work is only partially compatible with core Air Force T&E; consequently, the Air Force does not offer to cross-service this alternative.

TE-4(A/W)OAR: This sub-alternative proposes to realign work from the RTTC Small Missile Range to Eglin AFB, FL. There is a capacity and capability fit for this work at Eglin AFB. No rehabilitation, or new

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construction is required. No new facilities are required. No civilian personnel are required; although, the 3 civilians proposed by the Army can be accommodated if the Army wants to establish a liaison office. The 4 contractor personnel proposed by the Army can likewise be accommodated at Eglin; however, we estimate that only 2 new Operations and Maintenance (O&M) personnel would be required.

H. Douglas Nation, GM-15, DAF

cc: AF/TE
AF/TER

10/10

Certification of COBRA Screen 4

I certify that the information contained herein is accurate and complete to the best of my knowledge and belief as of ~~12/17/94~~.

1/19/95

John C. O'Neill
HQ USAF/RTT
(703) 695-4658

Name: EDWARDS, CA

Total Officer Employees:	728	RPMA Non-Payroll ($K/Year):	47,109
Total Enlisted Employees:	3,754	Communications ($K/Year):	19
Total Student Employees:	0	BOS Non-Payroll ($K/Year):	49,855
Total Civilian Employees:	3,876	BOS Payroll ($K/Year):	0
Mil Families Living On Base:	64.0%	Family Housing ($K/Year):	9,411
Civilians Not Willing To Move:	~~10.0%~~	Area Cost Factor:	1.38
Officer Housing Units Avail:	680	CHAMPUS In-Pat ($/Visit):	0
Enlisted Housing Units Avail:	0	CHAMPUS Out-Pat ($/Visit):	0
Total Base Facilities(KSF):	9,196	CHAMPUS Shift to Medicare:	20.9%
Officer VHA ($/Month):	157	Activity Code:	AF019
Enlisted VHA ($/Month):	165		
Per Diem Rate ($/Day):	140	Homeowner Assistance Program:	No
Freight Cost ($/Ton/Mile):	~~0.10~~ .07	Unique Activity Information:	No

Name: EGLIN, FL

Total Officer Employees:	1,426	RPMA Non-Payroll ($K/Year):	19,708
Total Enlisted Employees:	6,087	Communications ($K/Year):	323
Total Student Employees:	0	BOS Non-Payroll ($K/Year):	48,998
Total Civilian Employees:	4,041	BOS Payroll ($K/Year):	0
Mil Families Living On Base:	34.0%	Family Housing ($K/Year):	8,792
Civilians Not Willing To Move:	~~10.0%~~	Area Cost Factor:	0.73
Officer Housing Units Avail:	62 0	CHAMPUS In-Pat ($/Visit):	0
Enlisted Housing Units Avail:	0	CHAMPUS Out-Pat ($/Visit):	0
Total Base Facilities(KSF):	9,932	CHAMPUS Shift to Medicare:	20.8%
Officer VHA ($/Month):	84	Activity Code:	AF021
Enlisted VHA ($/Month):	57		
Per Diem Rate ($/Day):	91	Homeowner Assistance Program:	No
Freight Cost ($/Ton/Mile):	~~0.10~~ .07	Unique Activity Information:	No

Name: HANSCOM, MA

Total Officer Employees:	852	RPMA Non-Payroll ($K/Year):	6,164
Total Enlisted Employees:	872	Communications ($K/Year):	3,704
Total Student Employees:	0	BOS Non-Payroll ($K/Year):	18,161
Total Civilian Employees:	2,354	BOS Payroll ($K/Year):	0
Mil Families Living On Base:	59.0%	Family Housing ($K/Year):	8,996
Civilians Not Willing To Move:	~~10.0%~~	Area Cost Factor:	1.29
Officer Housing Units Avail:	0% 0	CHAMPUS In-Pat ($/Visit):	0
Enlisted Housing Units Avail:	0	CHAMPUS Out-Pat ($/Visit):	0
Total Base Facilities(KSF):	4,425	CHAMPUS Shift to Medicare:	20.9%
Officer VHA ($/Month):	432	Activity Code:	AF036
Enlisted VHA ($/Month):	303		
Per Diem Rate ($/Day):	139	Homeowner Assistance Program:	Yes
Freight Cost ($/Ton/Mile):	~~0.10~~ .07	Unique Activity Information:	No

DEPARTMENT OF THE AIR FORCE
HEADQUARTERS UNITED STATES AIR FORCE

19 JAN 1995

MEMORANDUM FOR DEPARTMENT OF THE ARMY
"THE ARMY BASING STUDY"

FROM: HQ USAF/RTR

SUBJECT: Response to Army Test & Evaluation Joint Cross-Service Group (LJCSG) Data Request For RTTC-Redstone to Eglin AFB (TE-4(A/W))

In response to your Test & Evaluation data request, please see comments on the attached pages. Questions can be referred to Maj Michael Wallace, HQ USAF/RTR, 695-4578.

I certify that the information contained herein is accurate and complete to the best of my knowledge.

WAYNE MAYFIELD, Col, USAF
Chairman, Base Closure Working Group

1/10

Department of the Army
The Army Basing Study

BRAC 95 Scenario Development Data Call Tasking

URGENT*** 48 Hour Turnaround Required *** URGENT

Date: 15 December 1994

To: Department of the Air Force
AF/RT 1670 Air Force Pentagon
Washington, D.C. 20330-1670

This FAX consists of the Test & Evaluation Joint Cross-Service Group (T&EJCSG) alternatives where the Department of the Army is a "loser" to the Department of the Air Force. In addition, this FAX contains blank COBRA data screens and a certification form, which are to be completed for each of the below identified alternatives.

A response is requested within 48 hours. Negative responses are required if no action is going to be taken. Responses can be FAXed to The Army Basing Study (TABS) office (DACS-TAB) at (703)693-9322. If you have any questions please contact LTC Jack Marriott at (703)697-1765.

I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.

MICHAEL G. JONES
COL, GS
Director, The Army Basing Study

T&E JCSG Alternatives: Army Loser / Air Force Gainer

Control Number: TE-1(AV)

Title: Realign the Aviation Technical Test Center (ATTC) Fort Rucker, AL to Edwards AFB, CA. Address all data pertaining to this request with the number TE-1(AV).

The air vehicle testing at ATTC, Fort Rucker duplicates capabilities at other core T&E activities. The workload could be transfered to core activities at Edwards AFB, CA. ATTC, Fort Rucker is not a core Air Vehicle T&E activity. This alternative reduces the number of activities involved in opern ari testing with potential savings of O&M and I&M funds.

The following requirements are submitted to the US Air Force to enable them to determine their ability to accommodate the requirements at Edwards AFB, CA and to provide to the Army the gaining base costs to allow completion of COBRA analysis:

Personnel:	
Military	51
Civilian	58
Contractor	221
Equipment: (in tons)	
General Equipment	399
Equipment Requiring Special Handling	35
Facilities:	
Hangar, Shop, Test Administration	155,067 sq ft

Aircraft:

TYPE	QTY	TYPE	QTY
AH-64D LB	1	UH-60L	1
AH-64A	2	UH-1H	1
CH-47D	1	OH-58C	1
OH-58D	1	C-23A	2
UH-60A	1	U-21A/H	1
EH-60A	1	Other	1

Control Number: TE-2(AV)

Title: Realign the Aviation Qualification Test Directorate (AQTD), Edwards AFB to AFFTC Edwards AFB, CA

The air vehicle testing at AQTD, Edwards AFB, CA duplicates capabilities at other core T&E activities. The workload could be transfered to core activities at AFFTC Edwards AFB, CA. AQTD, Edwards AFB is not a core Air Vehicle T&E activity. This

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alternative reduces the number of activities involved in open air testing with potential savings of O&M and I&M funds.

The following requirements are submitted to the US Air Force to enable them to determine their ability to accommodate the requirements at Edwards AFB, CA and to provide to the Army the gaining base costs to allow completion of COBRA analysis:

Personnel:	
Military	40
Civilian	68
Contractor	15
Equipment: (in tons)	
General Equipment	301
Equipment Requiring Special Handling	14
Facilities:	
Hangar, Shop, Test Administration	128,302 sq ft

Aircraft:

TYPE	QTY	TYPE	QTY
AH-64A	1	AH-1F	1
CH-47D	1	U-21A/H	1
OH-58C	1	T-34C	3
UH-60A	1	Other	1
UH-1H	3		

Control Number: TE-4(A/W)

Title: Realign Redstone Technical Test Center (RTTC) Armament/Weapons Testing measurement facility and open air range work currently accomplished in the following facilities at RTTC to an Armament/Weapons core T&E activity as listed below.

The following requirements are submitted to the US Air Force to enable them to determine their ability to accommodate the requirements at Edwards AFB, CA and to provide to the Army the gaining base costs to allow completion of COBRA analysis:

<u>Measurement Facility - Guidance</u> to Eglin AFB, FL or Holloman AFB, NM

Personnel:	
Military	0
Civilian	30
Contractor	51

Equipment: (in tons)

General Equipment	19.2
Equipment Requiring Special Handling	0.5

Facilities:

Laboratory	88,000 sq ft
Admin	15,000 sq ft

General Purpose Test Equipment Required:

Estimated Cost	$28,450K

Measurement Facility - Open Air Range to Eglin AFB, FL or Holloman AFB, NM

Personnel:

Military	0
Civilian	3
Contractor	4

Equipment: (in tons)

General Equipment	
Equipment Requiring Special Handling	

Facilities:

Reinforced Concrete Control Bunker	1,700 sq ft
Reinforced Concrete Instrumentation Bunker	900 sq ft
Ballistic Sled Track	$300K

General Purpose Test Equipment Required:

Estimated Cost	$1,350K

DEPARTMENT OF THE ARMY SCENARIO DEVELOPMENT DATA TASKER

1. Scenario Identification Data. Identify, in the table below, the option number associated with this data request and the name and location of the receiving location.

Option Number: JE4(A/W)
Gaining Installation: Eglin AFB

2. Receiving Site Military Construction Cost Data. Identify any construction requirements associated with this transfer. If any costs are provided for standard categories of construction, show these costs in the comment column.

Category (Unit)	New Construction Requirement	Rehabilitation Requirement	Comment
Horizontal (SY)			
Berthing (Waterfront) (FH)			
Air Maint (Air Ops)(SF)			
Other Operations (SF)			
Administrative (SF)			
Training (School Bldgs) (SF)			
Maintenance (SF)			
Bachelor Quarters (SF)			
Family Housing (Units)		see	
Supply/Storage (SF)		atch	
Dining Facilities (SF)			
Pers. Supp (Recreation)(SF)			
Communications (SF)			
Ship Maintenance (SF)			
RDT&E (SF)			
POL Storage (BL)			
Ammo Storage (SF)			
Medical Facilities (SF)			
Environmental	$	$	
Other:			
-	$	$	see
-	$	$	atch
-	$	$	

6/10

DEPARTMENT OF THE ARMY SCENARIO DEVELOPMENT DATA TASKER

3. Other Costs/Savings Associated with the Scenario. Use the following table to identify any other one-time or recurring costs/savings associated with this transfer. Please also provide a brief description/explanation of any costs/savings identified.

Gaining Base Name:								
		1996	1997	1998	1999	2000	2001	Total
a.	One-Time Unique Costs							
b.	One-Time Unique Savings							
c.	Environ. Mitigation				N/D			
d.	Misc. Recurring Costs							
e.	Misc. Recurring Savings							
f.	Land Purchases							

Certification. Please sign the attached certification form and return this certification with your response. The signing of this certification constitutes a representation that the certifying official has reviewed the information and either (1) personally vouches for its accuracy and completeness or (2) has possession of, and is relying upon, a certification executed by a competent subordinate.

I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.

WAYNE MAYFIELD
Name (Please type or print)

Signature

Chairman, Base Closure Working Group
Title

19 Jan 95
Date

NX USAF IRTR
Activity

FOR OFFICIAL USE ONLY - BRAC SENSITIVE

16 December 1994

MEMORANDUM FOR AF/RT (Major Wallace)

Subject: T&E Functional Response to Army COBRA Tasker

Reference: Army DACS-TAB Telefax, BRAC 95 Scenario Development Data Call Tasking, 15 December 1994

We have evaluated the alternatives and find the following.

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construction is required. No new facilities are required. No civilian personnel are required; although, the 3 civilians proposed by the Army can be accommodated if the Army wants to establish a liaison office. The 4 contractor personnel proposed by the Army can likewise be accommodated at Eglin; however, we estimate that only 2 new Operations and Maintanance (O&M) personnel would be required.

H. Douglas Nation

H. Douglas Nation, GM-15, DAF

cc: AF/TE
AF/TER

Certification of COBRA Screen 4

I certify that the information contained herein is accurate and complete to the best of my knowledge and belief as of 12/17/94.

1/19/95

John C. O'Neill
HQ USAF/RTT
(703) 695-4658

Name: EDWARDS, CA

Total Officer Employees:	728	RPMA Non-Payroll ($K/Year):	47,109
Total Enlisted Employees:	3,754	Communications ($K/Year):	19
Total Student Employees:	0	BOS Non-Payroll ($K/Year):	49,855
Total Civilian Employees:	3,876	BOS Payroll ($K/Year):	0
Mil Families Living On Base:	64.0%	Family Housing ($K/Year):	9,411
Civilians Not Willing To Move:	~~10.0%~~	Area Cost Factor:	1.38
Officer Housing Units Avail:	6% 0	CHAMPUS In-Pat ($/Visit):	0
Enlisted Housing Units Avail:	0	CHAMPUS Out-Pat ($/Visit):	0
Total Base Facilities(KSF):	9,196	CHAMPUS Shift to Medicare:	20.9%
Officer VHA ($/Month):	157	Activity Code:	AF019
Enlisted VHA ($/Month):	165		
Per Diem Rate ($/Day):	140	Homeowner Assistance Program:	No
Freight Cost ($/Ton/Mile):	~~0.10~~ .07	Unique Activity Information:	No

Name: EGLIN, FL

Total Officer Employees:	1,428	RPMA Non-Payroll ($K/Year):	19,708
Total Enlisted Employees:	6,087	Communications ($K/Year):	323
Total Student Employees:	0	BOS Non-Payroll ($K/Year):	48,998
Total Civilian Employees:	4,041	BOS Payroll ($K/Year):	0
Mil Families Living On Base:	34.0%	Family Housing ($K/Year):	8,792
Civilians Not Willing To Move:	~~10.0%~~	Area Cost Factor:	0.73
Officer Housing Units Avail:	6% 0	CHAMPUS In-Pat ($/Visit):	0
Enlisted Housing Units Avail:	0	CHAMPUS Out-Pat ($/Visit):	0
Total Base Facilities(KSF):	9,932	CHAMPUS Shift to Medicare:	20.9%
Officer VHA ($/Month):	84	Activity Code:	AF021
Enlisted VHA ($/Month):	57		
Per Diem Rate ($/Day):	91	Homeowner Assistance Program:	No
Freight Cost ($/Ton/Mile):	~~0.10~~ .07	Unique Activity Information:	No

Name: HANSCOM, MA

Total Officer Employees:	852	RPMA Non-Payroll ($K/Year):	6,164
Total Enlisted Employees:	872	Communications ($K/Year):	3,704
Total Student Employees:	0	BOS Non-Payroll ($K/Year):	18,161
Total Civilian Employees:	2,354	BOS Payroll ($K/Year):	0
Mil Families Living On Base:	59.0%	Family Housing ($K/Year):	8,996
Civilians Not Willing To Move:	~~10.0%~~	Area Cost Factor:	1.29
Officer Housing Units Avail:	6% 0	CHAMPUS In-Pat ($/Visit):	0
Enlisted Housing Units Avail:	0	CHAMPUS Out-Pat ($/Visit):	0
Total Base Facilities(KSF):	4,425	CHAMPUS Shift to Medicare:	20.9%
Officer VHA ($/Month):	432	Activity Code:	AF036
Enlisted VHA ($/Month):	303		
Per Diem Rate ($/Day):	139	Homeowner Assistance Program:	Yes
Freight Cost ($/Ton/Mile):	~~0.10~~ .07	Unique Activity Information:	No

Document Separator

TEST & EVALUATION
JOINT CROSS-SERVICE GROUP
SERVICE RECOMMENDATIONS

	COBRA RESPONSIBILITY	COBRA RUNS	
CATEGORY	**LOSING**	**GAINING**	
AIR VEHICLES	RUCKER, ATTC	YUMA	
	3776 HRS	EDWARDS	
		PAX RIVER	
	EDWARDS, AQTD	YUMA	
	1258 HRS	EDWARDS	
		PAX RIVER	
	INDIANAPOLIS,	YUMA	
	NAWC	HUACHUCA	
	16324 HRS	EDWARDS	
		EGLIN	
		CHINA LAKE	
		POINT MUGU	
		PAX RIVER	
	DAHLGREN,	HUACHUCA	
	NSWC	POINT MUGU	
	943 HRS	PAX RIVER	
	WARMINSTER	PAX RIVER	
	1003 HRS		
	TYNDALL	EDWARDS	
	1932 HRS	NELLIS	
		PAX RIVER	
		MILDEP DEPOTS	
ELECTRONIC	BUFFALO,	EDWARDS	
COMBAT	AFDTC, REDCAP	POINT MUGU	
	85 HRS	PAX RIVER	
	FT WORTH,	EDWARDS	
	AFDTC, AFEWES	POINT MUGU	
	2524 HRS	PAX RIVER	
	CRANE, NSWC	HUACHUCA	
	4344 HRS	PAX RIVER	
ARMAMENTS/	CRANE, NSWC	YUMA	
WEAPONS	1142 HRS	WSMR	
		POINT MUGU	
		CHINA LAKE	
	DAHLGREN,	WSMR	
	NSWC	POINT MUGU	
	954 HRS		
	INDIAN HEAD,	YUMA	
	NSWC	WSMR	
	2196 HRS	POINT MUGU	
		CHINA LAKE	
		ARNOLD	
	REDSTONE	YUMA	
	ARSENAL, RTTC	WSMR	
	30875 HRS	POINT MUGU	
		CHINA LAKE	
		WSMR, NAWC	
		EGLIN	
		HOLLOMAN	DATA NOT PROVIDED

IMPACT SUMMARY
T&E JCSG RECOMMENDATIONS

OPERATIONAL:
- Consolidation of Rotary Wing testing in the Western Test Complex
- MILCON minimized
- Includes movement of mixed aircraft
- Colocation vs. Consolidation needs further study
- Duplication of test equipment is a significant cost

PERSONNEL:
- Only personnel eliminations offset other incurred costs
- When only realignments, costs were never recovered

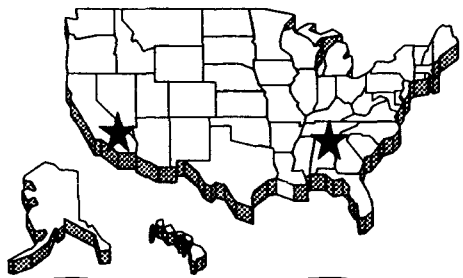
ENVIRONMENTAL: No significant limitations

ECONOMIC: None

OTHER SERVICE/DOD FACTORS: None

ALTERNATIVES CONSIDERED: All alternatives are listed per JCSG direction

T&E JCSG
SERVICE RECOMMENDATIONS



	YUMA PG	EDWARDS	PATUXENT	YUMA PG	PATUXENT
	Aviation Technical Test Center Open Air Ranges	Aviation Technical Test Center Open Air Ranges	Aviation Technical Test Center Open Air Ranges	Aviation Qualification Test Directorate Open Air Ranges	Aviation Qualification Test Directorate Open Air Ranges
COSTS ($M)	FT RUCKER ATTC	FT RUCKER ATTC	FT RUCKER ATTC	EDWARDS AQTD	EDWARDS AQTD
O&M	2	2	2	2	2
MILCON	13	2	34	13	28
OTHER	0	0	0	0	1
TOTAL	15	4	36	15	31
PAYBACK	20	3	100+	43	100+
BREAK EVEN	2018	2002	2098+	2041	2098+
STEADY STATE	1 (1999)	1 (1999)	1 (1999)	1 (1999)	1 (1999)
20 YR NPV	-1.5	16	-23	-7	-22
ELIMINATIONS	30	30	30	19	19
REALIGNMENTS	59	59	59	65	65

T&E JCSG SERVICE RECOMMENDATIONS (CONT)

	YUMA PG	WSMR	POINT MUGU	CHINA LAKE	EGLIN	HOLLOMAN
	Armaments/Weapons Measurement Facility & Open Air Ranges	Armaments/Weapons Measurement Facility & Open Air Ranges	Armaments/Weapons Measurement Facility & Open Air Ranges	Armaments/Weapons Measurement Facility & Open Air Ranges	Armaments/Weapons Measurement Facility & Open Air Ranges	Armaments/Weapons Measurement Facility & Open Air Ranges
COSTS ($M)	REDSTONE * RTTC	REDSTONE RTTC	REDSTONE RTTC	REDSTONE RTTC	REDSTONE RTTC	REDSTONE RTTC
O&M	1	1	1	1	.09	DATA NOT PROVIDED
MILCON	37	37	0	17	0	
OTHER	65	38	0	0	0	
TOTAL	103	76	1	18	.09	
PAYBACK	NEVER	NEVER	NEVER	100+	100+	
BREAK EVEN	NEVER	NEVER	NEVER	2098+	2098+	
STEADY STATE	-.5 (1999)	-.4 (1999)	-.1 (1999)	.1 (1999)	.02 (1999)	
20 YR NPV	-107	-76	-2	-14	-.06	
ELIMINATIONS	0	8	0	0	0	
REALIGNMENTS	47	39	47	47	3	

*RTTC - Redstone Technical Test Center

Department of the Army
The Army Basing Study

BRAC 95 Scenario Development Data Call Tasking

URGENT*** 48 Hour Turnaround Required *** URGENT

Date: 15 December 1994

To: Department of the Navy
Base Structure Analysis Team
POC: Cmdr Mark Samuels

This FAX consists of the Test & Evaluation Joint Cross-Service Group (T&EJCSG) alternatives where the Department of the Army is a "loser" to the Department of the Navy or Air Force. In addition, this FAX contains blank COBRA data screens and a certification form, which are to be completed for each of the identified alternatives identified below.

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I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.

MICHAEL G. JONES
COL, GS
Director, The Army Basing Study

T&E JCSG Alternatives: Army Loser / Navy Gainer

Control Number: TE-1(AV)

Title: Realign the Aviation Technical Test Center (ATTC) Fort Rucker, AL to NAWC Patuxent River, MD. Address all data pertaining to this request with the number TE-1(AV).

The air vehicle testing at ATTC, Fort Rucker duplicates capabilities at other core T&E activities. The workload could be transferred to core activities at NAWC, PAX, MD. ATTC, Fort Rucker is not a core Air Vehicle T&E activity. This alternative reduces the number of activities involved in open air testing with potential savings of O&M and I&M funds.

The following requirements are submitted to the US Navy BSAT to enable them to determine their ability to accommodate the requirements at NAWC Patuxent River, MD and to provide to the Army the gaining base costs to allow completion of COBRA analysis:

Personnel:	
Military	51
Civilian	58
Contractor	221
Equipment: (in tons)	
General Equipment	399
Equipment Requiring Special Handling	35
Facilities:	
Hangar, Shop, Test Administration	155,067 sq ft

Aircraft:

TYPE	QTY	TYPE	QTY
AH-64D LB	1	UH-60L	1
AH-64A	2	UH-1H	1
CH-47D	1	OH-58C	1
OH-58D	1	C-23A	2
UH-60A	1	U-21A/H	1
EH-60A	1	Other	1

Control Number: TE-2(AV)

Title: Realign the Aviation Qualification Test Directorate (AQTD), Edwards AFB to NAWC Patuxent River, MD.

The air vehicle testing at AQTD, Edwards AFB, CA duplicates capabilities at other core T&E activities. The workload could be transfered to core activities at NAWC PAX. AQTD, Edwards AFB is not a core Air Vehicle T&E activity. This alternative reduces the number of activities involved in open air testing with potential savings of O&M and I&M funds.

The following requirements are submitted to the US Navy to enable them to determine their ability to accommodate the requirements at NAWC PAX and to provide to the Army the gaining base costs to allow completion of COBRA analysis:

Personnel:

Military	40
Civilian	68
Contractor	15

Equipment: (in tons)

General Equipment	301
Equipment Requiring Special Handling	14

Facilities:

Hangar, Shop, Test Administration	128,302 sq ft

Aircraft:

TYPE	QTY	TYPE	QTY
AH-64A	1	AH-1F	1
CH-47D	1	U-21A/H	1
OH-58C	1	T-34C	3
UH-60A	1	Other	1
UH-1H	3		

Control Number: TE-4(A/W)

Title: Realign Redstone Technical Test Center (RTTC) Armament/Weapons Testing measurement facility and open air range work currently accomplished in the following facilities at RTTC to an Armament/Weapons core T&E activity as listed below.

The following requirements are submitted to the US Air Force to enable them to determine their ability to accommodate the requirements at Edwards AFB, CA and to provide to the Army the gaining base costs to allow completion of COBRA analysis:

Measurement Facility - Environmental to NAWC China Lake, CA or NAWC Point Mugu, CA

Personnel:

Military	0
Civilian	9
Contractor	24

Equipment: (in tons)

General Equipment	0
Equipment Requiring Special Handling	7.35

Facilities:

Electromagnetic Effects Testing Facility	
Lab Space	9,000 sq ft
Admin	3,600 sq ft
Outdoor Area Minimum	15,000 sq ft
Hazardous Lightning Test Facility	
Safety Cage	5,000 sq ft
Control Bunker Lab Space	1,500 sq ft
Admin	500 sq ft
EMR Pulsed Anechoic Test Facility	
Lab	7,800 sq ft
Admin	1,500 sq ft
Climatic/NDT Test Facility	
Metrology Lab Space	1,500 sq ft
Long Term PATRIOT Propellant Aging Facility	
Lab Space	1,500 sq ft
Admin	200 sq ft
Fuze/S&A Test Facility	
Lab Space	2,400 sq ft
HELLFIRE Tactical Test Facility	
Lab Space	1,800 sq ft
Admin	300 sq ft

General Purpose Test Equipment Required:

Estimated Cost	$8,420K

This is equipment that is still required at the losing facility and duplicate equipment is necessary at the gaining facilty if not already there.

Measurement Facility - Guidance to NAWC China Lake, CA or NAWC Point Mugu, CA

Personnel:

Military	0
Civilian	30
Contractor	51

Equipment: (in tons)

General Equipment	19.2
Equipment Requiring Special Handling	0.5

Facilities:

Laboratory	88,000 sq ft
Admin	15,000 sq ft

General Purpose Test Equipment Required:

Estimated Cost	$28,450K

Measurement Facility - Open Air Range to NAWC China Lake, CA or NAWC Point Mugu, CA

Personnel:

Military	0
Civilian	3
Contractor	4

Equipment: (in tons)

General Equipment	0
Equipment Requiring Special Handling	0

Facilities:

Reinforced Concrete Control Bunker	1,700 sq ft
Reinforced Concrete Instrumentation Bunker	900 sq ft
Ballistic Sled Track	$300K

General Purpose Test Equipment Required:

Estimated Cost	$1,350K

DEPARTMENT OF THE ARMY SCENARIO DEVELOPMENT DATA TASKER

1. **Scenario Identification Data**. Identify, in the table below, the option number associated with this data request and the name and location of the receiving location.

Option Number:
Gaining Installation:

2. **Receiving Site Military Construction Cost Data.** Identify any construction requirements associated with this transfer. If any costs are provided for standard categories of construction, show these costs in the comment column.

Category (Unit)	New Construction Requirement	Rehabilitation Requirement	Comment
Horizontal (SY)			
Berthing (Waterfront) (FB)			
Air Maint (Air Ops)(SF)			
Other Operations (SF)			
Administrative (SF)			
Training (School Bldgs) (SF)			
Maintenance (SF)			
Bachelor Quarters (SF)			
Family Housing (Units)			
Supply/Storage (SF)			
Dining Facilities (SF)			
Pers. Supp (Recreation)(SF)			
Communications (SF)			
Ship Maintenance (SF)			
RDT&E (SF)			
POL Storage (BL)			
Ammo Storage (SF)			
Medical Facilities (SF)			
Environmental	$	$	
Other: - - -	 $ $ $	 $ $ $	

DEPARTMENT OF THE ARMY SCENARIO DEVELOPMENT DATA TASKER

3. **Other Costs/Savings Associated with the Scenario.** Use the following table to identify any other one-time or recurring costs/savings associated with this transfer. Please also provide a brief description/explanation of any costs/savings identified.

Gaining Base Name:								
		1996	1997	1998	1999	2000	2001	Total
a.	One-Time Unique Costs							
b.	One-Time Unique Savings							
c.	Environ. Mitigation							
d.	Misc. Recurring Costs							
e.	Misc. Recurring Savings							
f.	Land Purchases							

Certification. Please sign the attached certification form and return this certification with your response. The signing of this certification constitutes a representation that the certifying official has reviewed the information and either (1) personally vouches for its accuracy and completeness or (2) has possession of, and is relying upon, a certification executed by a competent subordinate.

I certify that the information contained herein is accurate and complete to the best of my knowledge and belief.

Name (Please type or print)	Signature
Title	Date
Activity	

BRAC IS AN OPPORTUNITY

DEPARTMENT OF THE ARMY
OFFICE OF THE CHIEF OF STAFF

THE ARMY BASING STUDY

TO: Cmdr Mark Samuels BSAT FAX 756-2174	HQDA, DACS-TABS THE PENTAGON, ROOM 2A684 WASHINGTON, DC 20310-0200	DATE-TIME-GROUP 150820 Dec 94
	POC: MARRIOTT	NUMBER OF PAGES
	VOICE TELEPHONE: DSN 227-1765COM (703) 697-1765/6 TABS FAX TELEPHONE: (703) 693-9322/DSN 223-9322	H+8

Mark,

This should do it from us for T&C. We had problems getting some numbers broken down in the field but other than that, this should enable us to produce something.

Thanks Jack

BRAC-95 SCENARIO DEVELOPMENT DATA CALL
ENCLOSURE (1) - SCENARIO SUMMARY

Complete one copy of Enclosure (1) - Scenario Summary for the entire closure/realignment scenario. Tables included in this enclosure are 1-A, 1-B and 1-C.

Table 1-A: Scenario Description. Identify the Scenario Number, Title and Response Date. The Scenario Number and Title will be provided to you by the BSAT as part of the data call tasking.

Scenario No.:	3-20-0167-J22
Scenario Title:	Redstone Technical Test Center (RTTC)
Date:	17 DECEMBER 1994, 0800 EST

Table 1-B: Point of Contact Information. Please identify a knowledgeable point of contact familiar with the information relating to this closure/realignment scenario whom the BSAT can contact to answer any questions or to provide additional information as required. This point of contact must also be familiar with the location and name of the person responsible for maintaining any supporting documentation relating to this data call response.

Name:	MATT ANDERSON
Organization/Code:	NAWCWPNS CHINA LAKE / 08E000D
Office Phone Number:	(619)927-1839 DSN 469-1839
Fax Number:	(619)939-0145 DSN 437-0145
Home Phone Number:	(619)446-1658 OR (619)375-1419

Table 1-C: Losing/Gaining Bases Involved in Scenario. Complete the table on the next page to identify "bases" involved in the closure/realignment scenario. Note that the term **"Losing Base"** refers to host activities, independent activities or other activities specifically identified in the Scenario Development Data Call tasking which are being reduced in size, i.e., closing or being realigned. The term **"Gaining Base"** refers to host or independent activities which will be receiving sites for functions/personnel transferred from losing base(s). For example, a losing base is the activity referred to in the data call tasking, i.e., a Naval Station, Hospital, etc. **Individual tenants should not be separately listed on this table**, e.g., Branch Medical Clinic, Personnel Support Detachment, etc. Individual tenants will, however, be specifically identified in subsequent tables in the data call. The third column of the table

should be used to identify relevant information regarding workload/missions to be transferred. For example, entries in this column should be short phrases such as, "missile workload", "ships", "F-14 squadrons", "tenants", etc., or to provide other clarifying information. This third column need only be completed to identify major components of the closure/realignment scenario, and should not be used to list all tenant names, etc.

Table 1-C: Losing/Gaining Bases Involved in Scenario

Losing Base(s)	Gaining Base(s)	Workload/Missions Transferring
Redstone Technical Test Center (RTTC)	NAWC, China Lake	Environmental, Guidance & Sled Track Facilities
Redstone Technical Test Center (RTTC)	NAWC, Point Mugu	HELLFIRE Tactical Test Facility

Note: If an activity/function will be relocated into leased office space, please note this fact under the column, Gaining Base, e.g., "Washington, DC - Leased Space".

Complete a separate Enclosure (3) - Gaining Base Questions, as appropriate, for each "gaining" base involved in the closure/realignment scenario. Make additional copies of this enclosure as necessary. Tables included in this enclosure are 3-A and 3-B. Enter the name of the Gaining Base in the block below.

Gaining Base:	NAWC CHINA LAKE

Table 3-A - Dynamic Base Information. Complete the following "Supporting Data" section. Then, summarize this data in the Summary Data Table (3-A) that immediately follows this "Supporting Data" section. Show all entries in ($000).

Table 3-A: Supporting Data

a. Other One-Time Unique Costs. This item has been divided into two sections. First, separately identify any Community Infrastructure Impact costs. Second, separately identify any other One-Time Unique costs. **Finally, when transferring these figures to the Summary Data Table (3-A), combine both sets of numbers into one "Other One-Time Unique Costs" answer (by year).**

a. (1) Community Infrastructure Impacts. Identify any cost impacts on community infrastructure at gaining bases which would result from the transfer of functions/personnel, e.g., requirement to build new sewage treatment facility, etc. For each cost, identify the amount, year in which it would be incurred, location (city, etc.), and a brief description of the requirement. Answers must be consistent with certified data contained in the gaining base's Data Call 65, "Economic and Community Infrastructure Data", response. Ensure that adequate coordination takes place, especially in those cases where the gaining and losing base are in different claimancies. **Remember to aggregate this answer with 2.a.(2) costs on the next page, if any, when transferring data to Summary Table.**

Gaining Base: NAWC CHINA LAKE

Cost	FY	Location	Description
NONE			

a. (2) Other Unique One-Time Costs. Identify any other one-time unique costs at the gaining base which will not be calculated automatically by the COBRA algorithms (as noted in the Introduction section). Examples include use of temporary office space, etc. Only costs directly attributable to the closure/realignment action should be identified. This area should not be used to identify routine moving or personnel costs, which are calculated automatically by the COBRA algorithms, nor should it be used to identify one-time unique moving costs which will be addressed in the Losing Base tables (enclosure (2)). For each unique one-time cost, identify the amount, year in which the cost will be incurred and describe the nature of the cost. Do not double count any costs identified on Losing Base tables (Enclosure (2)). **Remember to aggregate with 2.a.(1) costs on the previous page, if any, when transferring data to Summary Table.**

Gaining Base: NAWC CHINA LAKE

Hazardous Lightning Test Facility

Cost	FY	Description
$50	97	Installation and reactivation of instrumentation and control lines from Bay IV control room to Bay V safety cage.

b. Other One-Time Unique Savings. Identify any other one-time unique savings at the gaining base which will not be calculated automatically by the COBRA algorithms (as noted in the Introduction section). This area should not be used to identify routine moving or personnel savings, which are calculated automatically by the COBRA algorithms. Do not include MILCON Cost Avoidances (which were identified in a separate data call), or Procurement Cost Avoidances (which are covered in the losing base enclosure). For each savings, identify the amount, year in which it will occur and describe the nature of the savings. Only savings directly attributable to the closure/realignment action should be identified. Do not double count any savings identified on Losing Base tables (Enclosure (2)).

Gaining Base: NAWC CHINA LAKE

300,000 lb Rocket Motor Thrust Test Stand

Cost	FY	Description
$750	97	Eliminate the need to install a 300,000 lb Thrust Rocket Motor Test Stand since the capability to test rocket motors up to 1,500,000 lbs thrust currently exists at China Lake

c. Environmental Mitigation. Environmental cleanup costs at closing bases are not considered in COBRA, since these costs will be incurred regardless of whether the activity is closed or remains opened. If, however, additional environmental costs are incurred at gaining bases as the result of a transfer of functions or personnel, these costs should be identified, e.g., wetland mitigation, environmental impact statements at gaining bases, new permits, etc. Identify below any non-Military Construction environmental mitigation costs which will be incurred as a result of this closure/realignment action. (Note: Military Construction Costs for environmental mitigation are identified in Table 3-B). For each cost, identify the amount, year in which the cost will be incurred and a brief description of the cost.

Gaining Base: NAWC CHINA LAKE

Other Guidance Test Facilities

Cost	FY	Description
NONE		All activity falls under categorical exclusion of previously disturbed areas. No EA or EIS required.

d. Miscellaneous Recurring Costs. Identify any other recurring costs associated with the closure/realignment action at the gaining base which will not be calculated automatically by the COBRA algorithms (as noted in the Introduction section), e.g., new leases of facilities or equipment, etc. For each cost, identify the year in which the cost will begin and describe the nature of the cost. Only costs directly attributable to the closure/realignment action should be identified. (Do not include changes in non-payroll BOS, Family Housing Operations, housing allowances or CHAMPUS costs, all of which are calculated by other COBRA algorithms.). Do not double count any costs identified on Losing Base tables (Enclosure (2)).

Gaining Base: NAWC CHINA LAKE

Cost	FY	Description
NONE		

e. Miscellaneous Recurring Savings. Identify any other recurring savings associated with the closure/realignment action which will not be calculated automatically by the model, e.g., elimination of leases of facilities or equipment, etc. For the savings, identify the year in which each will begin and describe the nature of the savings. Only savings directly attributable to the closure/realignment action should be identified. (Do not include changes in non-payroll BOS, Family Housing Operations, housing allowances, CHAMPUS costs or salary savings for eliminated positions/billets, all of which are calculated by other COBRA algorithms.). Do not double count any savings identified on Losing Base tables (Enclosure (2)).

Gaining Base: NAWC CHINA LAKE

Annual Savings	FY	Description
$10	97	$950K of SLED Track equipment at RTTC already exists at NAWC, China Lake, therefore this equipment does not need to be moved to China Lake & maintained. Annual savings associated with termination of maintenance on equipment, valued at $950K, which is not transferred to China Lake.
$250	97	These savings accrue due to movement of the entire PATRIOT Rocket Motor Propellant Aging program to China Lake, which complements the ongoing TRIDENT Rocket Motor Propellant Aging program.

f. Land Purchases. Identify any land purchases required at gaining bases to accommodate relocating activities/functions. Identify the cost, number of acres, year in which purchase will occur and a brief description identifying why the land needs to be purchased.

Gaining Base: NAWC CHINA LAKE

Cost	No. of Acres	FY	Description
NONE			

Summarize data shown in response to supporting data questions a. through f. above in the following table:

Table 3-A: Dynamic Base Information

Gaining Base Name: NAWC CHINA LAKE								
		1996	1997	1998	1999	2000	2001	Total
a.	One-Time Unique Costs *	0	50	0	0	0	0	50
b.	One-Time Unique Savings	0	750	0	0	0	0	750
c.	Environ. Mitigation	0	0	0	0	0	0	0
d.	Misc. Recurring Costs	0	0	0	0	0	0	0
e.	Misc. Recurring Savings	0	260	260	260	260	260	1300 (260 each yr after)
f.	Land Purchases	0	0	0	0	0	0	0

* Includes both Community Infrastructure Impact and Other One-Time Unique Costs, as applicable.

Table 3-B - Military Construction Requirements. Identify the amount of new construction or rehabilitation (using the designated unit of measure) which will be required at the receiving site. Include a brief description of the requirement in the Comment column.

- Do not include Family Housing construction requirements on this table, they will be identified on a separate data call format.
- The COBRA MILCON algorithm will estimate the cost of MILCON requirements for the standard categories of construction listed on the next page. However, if an engineered estimate(s) is already available, then a dollar value for the requirement(s) should be identified in the "Comment" column of the table.
- Any identified Environmental Mitigation MILCON projects must include a total cost and brief description of the requirement in the "Comment" column of the table.
- The "Other" row is provided to identify MILCON requirements which do not fit the standard construction categories, e.g., dry docks, SCIF conversions, aircraft wash racks, etc. Enter a total cost and brief description for each identified requirement. For these "unique" categories of construction, a square footage estimate should also be indicated, if possible.

For Rehabilitation Requirements: if entered as a "unit of measure" (e.g., SF, etc.), then corresponding costs will be calculated at 75% of the cost of new construction (worst-case cost estimate for rehabilitation costs). If the rehabilitation will involve renovation at an anticipated rate of less than 75%, then in addition to identifying the requirement (SF, etc.), enter in the Comment block either a rehabilitation cost or an appropriate percentage which should be used in lieu of the 75% rate.

Show any cost entries in ($000).

Description of "Units of Measure" used in Table 3-B:

SY - Square Yards
FB - Feet of Berthing
SF - Square Feet
BL - Barrels

Description of standard "Categories of Construction" used in Table 3-B (including examples of types of construction included in these categories):

Horizontal - Aprons/Paving (Aircraft Parking Aprons, Combat Aircraft Ordnance Loading Areas, etc.), shown in square yards.

Berthing - General Purpose Berthing Piers, shown in feet of berthing.

Air Maintenance - Maintenance Hangers (General Purpose, High Bay, etc.), shown in square feet.

Other Operations - General Purpose Operations Facilities (Aircraft, Ordnance, Amphibious, Headquarters, etc.), shown in square feet.

Administrative - Administrative space (General Purpose and ADP), shown in square feet.

Training - Training Facilities (Academic, Reserve, Applied Instruction, Recruit Processing, Operational Trainers, etc.), shown in square feet.

Maintenance - Non-Weapons facilities (Vehicles, Electronics, Public Works, etc.), shown in square feet.

Bachelor Quarters - Barracks, Dormitories or Unmarked Officer Quarters, shown in square feet.

Supply/Storage - Operational Storage, Cold Storage, General Warehouse, etc., shown in square feet.

Dining Facilities - Enlisted Mess Hall, shown in square feet.

Personnel Support - Fire, Police, Family Service Centers, MWR, Child Care, etc., shown in square feet.

Communications - Other Communications Facilities, (Communications Centers, Telephone Exchanges, Terminal Equipment, Radar Air Traffic Control Center, etc.), shown in square feet.

Ship Maintenance - Shore Intermediate Maintenance, Waterfront Services, Amphibian Vehicle Maintenance, etc., shown in square feet.

RDT&E - Other Research, Development, Test and Evaluation (RDT&E) facilities (Aircraft, Ship, Underwater, Electronics, etc.) (does not include Ammo/Propulsion Labs), shown in square feet.

POL Storage - Jet Engine Fuel Storage, shown in barrels.

Ammo Storage - General Purpose, High Explosive, Small Arms and Missile Magazines, shown in square feet.

Medical Facilities - Hospitals, Medical/Dental Clinics, etc., shown in square feet.

Table 3-B: MILCON Requirements

Gaining Base Name: NAWC CHINA LAKE			
Category (Unit)	New Construction Requirement	Rehabilitation Requirement	Comment
Horizontal (SY)			
Berthing (FB)			
Air Maintenance (SF)			
Other Operations (SF)			
Administrative (SF)		15,000	Other Guidance Test Facilities. Rehab cost is 10% of new. See Note 1.
Training (SF)			
Maintenance (SF)			
Bachelor Quarters (SF)			
Supply/Storage (SF)			
Dining Facilities (SF)			
Personnel Support (SF)			
Communications (SF)			
Ship Maintenance (SF)			
RDT&E (SF)		79,500 Note 2	Other Guidance Test Facilities. Rehab cost is 10% of new. See Note 1.
POL Storage (BL)			
Ammo Storage (SF)			
Medical Facilities (SF)			
Environmental	$0	$0	Categorical exclusion. See Note 3.
Other: -Electromagnetic Effects Testing Facility:	$802		Based on Engineering Estimate for 9000 square foot building to house test equipment.
-Long Term PATRIOT Propellant Aging Fac.		$20	Modify existing magazines/ conditioning chamber

Note 1: NAWC Base Facility Requirements (BFR) study of May 1994 indicated that these spaces can be refurbished for 10% of the cost of new construction.
Note 2: 88,000 required minus 8,500 sq ft currently available and ready for habitation.
Note 3: All refurbishment will be accomplished on previously disturbed land and is covered by categorical exclusion; EA's and EIS's are not required.

MEASUREMENT FACILITY - ENVIRONMENTAL

Electromagnetic Effects Testing Facility

RTTC Requirements:

Lab Space	9,000 sq ft
Admin	3,600 sq ft
Outdoor Area Minimum	15,000 sq ft

China Lake Capability:

China Lake has an outdoor electromagnetic effects testing facility. The only new construction to fulfill the above requirements is a MILCON for 9,000 sq ft of lab space.

Hazardous Lightning Test Facility

RTTC Requirements:

Safety Cage	5,000 sq ft
Control Bunker Lab Space	1,500 sq ft
Admin	500 sq ft

China Lake Capability:

Moving the Redstone Hazardous Lightning Test Facility to China Lake would only require moving and installing the lightning simulation generators capable of generating up to 3.6 million volts and 200,000 amperes. It is not necessary to move or duplicate the 5,000 sq ft safety cage. The facility can be setup in Bay V in the Skytop test complex where 7,332 sq ft safety cage exists at the site and is available to be used to conduct lightning test on ordnance and live tactical missiles. This safety cage was originally used to conduct fast cookoff tests on rocket motors and is capable of restraining motors if they become propulsive.

The 1500 sq ft of Control Bunker Lab space can be accommodated by the existing Bay IV control room which is 2,052 sq ft and controls both Bay IV and Bay V. The Admin space of 500 sq ft can be accommodated by the Skytop Branch Office which contains 2,484 sq ft.

EMR Pulsed Anechoic Test Facility

RTTC Requirements:

Lab	7,800 sq ft
Admin	1,500 sq ft

China Lake Capability:

Chamber already in place south of Thompson Lab that does this testing and facilities in place for test equipment storage/use.

Climatic/NDT Test Facility

RTTC Requirements:

Metrology Lab Space	1,500 sq ft

China Lake Capability:

No new equipment, facilities nor personnel are required to do this work. The 1500 sq ft space already exists and is under utilized and is available to take on RTTC workload.

Long Term PATRIOT Propellant Aging Facility

RTTC Requirements:

Lab Space	1,500 sq ft
Admin	200 sq ft

China Lake Capability:

This work can be accomodated with a $20K rehab of existing facilities currently used for TRIDENT Propellant Aging. If the PATRIOT Propellant Aging work is moved to China Lake the synergy with TRIDENT will result in a recurring savings of 2 manyears or $250K /year.

Fuze/S&A Test Facility

RTTC Requirements:

Lab Space 2,400 sq ft

China Lake Capabiltiy:

NAWC, China Lake has 13,800 sq ft of laboratory space being used for Fuze/S-A testing. The requirement for RTTC is 2400 sq ft. This requirement can be met with no financial impact on NAWC, China Lake and without impacting on-going work.

MEASUREMENT FACILITY - GUIDANCE

300,000 lb Rocket Motor Thrust Test Stand (planned to install)

China Lake Capabiltiy:

China Lake has the capability to test various rocket motors up to 1,500,000 lbs of thrust. Eliminating the installation of a 300,000 lb Rocket Motor Test Stand results in a one-time cost savings of $750K.

Other Guidance Test Facilities

RTTC Requirements:

Laboratory	88,000 sq ft
Admin	15,000 sq ft

China Lake Capabiltiy:

These facilities are used for performance testing of weapon subsystems such as electro optics, FLIR's, seekers, beacons, batteries, gyros, pneumatic & hydraulic components, and electronics systems that operate in microwave & millimeter wave regions. Also included are vibration tables & temperature chambers. China Lake has adequate capacity to absorb the work of 30 civil servant and 51 contractors with only minor refurbishment of its existing space.

MEASUREMENT FACILITY - OPEN AIR RANGES

RTTC Requirements:

Reinforced Concrete Control Bunker	1,700 sq ft
Reinforced Concrete Instrumentation Bunker	900 sq ft
Ballistic Sled Track	$300 K

China Lake Capabiltiy:

2,600 sq ft of bunker space is already available at China Lake to house 7 personnel & their equipment. No additional requirements necessary to accommodate transfer of RTTC Ballistic SLED Testing at China Lake.

Complete a separate Enclosure (3) - Gaining Base Questions, as appropriate, for each "gaining" base involved in the closure/realignment scenario. Make additional copies of this enclosure as necessary. Tables included in this enclosure are 3-A and 3-B. Enter the name of the Gaining Base in the block below.

Gaining Base:	NAWC POINT MUGU

Table 3-A - Dynamic Base Information. Complete the following "Supporting Data" section. Then, summarize this data in the Summary Data Table (3-A) that immediately follows this "Supporting Data" section. Show all entries in ($000).

Table 3-A: Supporting Data

a. Other One-Time Unique Costs. This item has been divided into two sections. First, separately identify any Community Infrastructure Impact costs. Second, separately identify any other One-Time Unique costs. **Finally, when transferring these figures to the Summary Data Table (3-A), combine both sets of numbers into one "Other One-Time Unique Costs" answer (by year).**

a. (1) Community Infrastructure Impacts. Identify any cost impacts on community infrastructure at gaining bases which would result from the transfer of functions/personnel, e.g., requirement to build new sewage treatment facility, etc. For each cost, identify the amount, year in which it would be incurred, location (city, etc.), and a brief description of the requirement. Answers must be consistent with certified data contained in the gaining base's Data Call 65, "Economic and Community Infrastructure Data", response. Ensure that adequate coordination takes place, especially in those cases where the gaining and losing base are in different claimancies. **Remember to aggregate this answer with 2.a.(2) costs on the next page, if any, when transferring data to Summary Table.**

Gaining Base: NAWC POINT MUGU

Cost	FY	Location	Description
NONE			

a. (2) Other Unique One-Time Costs. Identify any other one-time unique costs at the gaining base which will not be calculated automatically by the COBRA algorithms (as noted in the Introduction section). Examples include use of temporary office space, etc. Only costs directly attributable to the closure/realignment action should be identified. This area should not be used to identify routine moving or personnel costs, which are calculated automatically by the COBRA algorithms, nor should it be used to identify one-time unique moving costs which will be addressed in the Losing Base tables (enclosure (2)). For each unique one-time cost, identify the amount, year in which the cost will be incurred and describe the nature of the cost. Do not double count any costs identified on Losing Base tables (Enclosure (2)). **Remember to aggregate with 2.a.(1) costs on the previous page, if any, when transferring data to Summary Table.**

Gaining Base: NAWC POINT MUGU

Cost	FY	Description
NONE		

b. Other One-Time Unique Savings. Identify any other one-time unique savings at the gaining base which will not be calculated automatically by the COBRA algorithms (as noted in the Introduction section). This area should not be used to identify routine moving or personnel savings, which are calculated automatically by the COBRA algorithms. Do not include MILCON Cost Avoidances (which were identified in a separate data call), or Procurement Cost Avoidances (which are covered in the losing base enclosure). For each savings, identify the amount, year in which it will occur and describe the nature of the savings. Only savings directly attributable to the closure/realignment action should be identified. Do not double count any savings identified on Losing Base tables (Enclosure (2)).

Gaining Base: NAWC POINT MUGU

Cost	FY	Description
$502	97	Avoidance of MILCON for construction of a 1800 square foot building which would contain 3 test chambers (8' X 8' X 30') estimated to cost $630,000. Since at the Ready Missile Test Facility at NAWC Point Mugu a suitable test chamber of 12' X 24' X 40' is available which can test up to 1300 lbs of class I explosives and the chamber can be modified to meet the HELLFIRE requirements for a cost of $128,000

c. Environmental Mitigation. Environmental cleanup costs at closing bases are not considered in COBRA, since these costs will be incurred regardless of whether the activity is closed or remains opened. If, however, additional environmental costs are incurred at gaining bases as the result of a transfer of functions or personnel, these costs should be identified, e.g., wetland mitigation, environmental impact statements at gaining bases, new permits, etc. Identify below any non-Military Construction environmental mitigation costs which will be incurred as a result of this closure/realignment action. (Note: Military Construction Costs for environmental mitigation are identified in Table 3-B). For each cost, identify the amount, year in which the cost will be incurred and a brief description of the cost.

Gaining Base: NAWC POINT MUGU

Cost	FY	Description
NONE		

d. Miscellaneous Recurring Costs. Identify any other recurring costs associated with the closure/realignment action at the gaining base which will not be calculated automatically by the COBRA algorithms (as noted in the Introduction section), e.g., new leases of facilities or equipment, etc. For each cost, identify the year in which the cost will begin and describe the nature of the cost. Only costs directly attributable to the closure/realignment action should be identified. (Do not include changes in non-payroll BOS, Family Housing Operations, housing allowances or CHAMPUS costs, all of which are calculated by other COBRA algorithms.). Do not double count any costs identified on Losing Base tables (Enclosure (2)).

Gaining Base: NAWC POINT MUGU

Cost	FY	Description
NONE		

e. Miscellaneous Recurring Savings. Identify any other recurring savings associated with the closure/realignment action which will not be calculated automatically by the model, e.g., elimination of leases of facilities or equipment, etc. For the savings, identify the year in which each will begin and describe the nature of the savings. Only savings directly attributable to the closure/realignment action should be identified. (Do not include changes in non-payroll BOS, Family Housing Operations, housing allowances, CHAMPUS costs or salary savings for eliminated positions/billets, all of which are calculated by other COBRA algorithms.). Do not double count any savings identified on Losing Base tables (Enclosure (2)).

Gaining Base: NAWC POINT MUGU

Annual Savings	FY	Description
NONE		

f. Land Purchases. Identify any land purchases required at gaining bases to accommodate relocating activities/functions. Identify the cost, number of acres, year in which purchase will occur and a brief description identifying why the land needs to be purchased.

Gaining Base: NAWC POINT MUGU

Cost	No. of Acres	FY	Description
NONE			

Summarize data shown in response to supporting data questions a. through f. above in the following table:

Table 3-A: Dynamic Base Information

Gaining Base Name: NAWC POINT MUGU							
	1996	1997	1998	1999	2000	2001	Total
a. One-Time Unique Costs *	0	0	0	0	0	0	0
b. One-Time Unique Savings	0	502	0	0	0	0	502
c. Environ. Mitigation	0	0	0	0	0	0	0
d. Misc. Recurring Costs	0	0	0	0	0	0	0
e. Misc. Recurring Savings	0	0	0	0	0	0	0
f. Land Purchases	0	0	0	0	0	0	0

* Includes both Community Infrastructure Impact and Other One-Time Unique Costs, as applicable.

Table 3-B - Military Construction Requirements. Identify the amount of new construction or rehabilitation (using the designated unit of measure) which will be required at the receiving site. Include a brief description of the requirement in the Comment column.

- Do not include Family Housing construction requirements on this table, they will be identified on a separate data call format.
- The COBRA MILCON algorithm will estimate the cost of MILCON requirements for the standard categories of construction listed on the next page. However, if an engineered estimate(s) is already available, then a dollar value for the requirement(s) should be identified in the "Comment" column of the table.
- Any identified Environmental Mitigation MILCON projects must include a total cost and brief description of the requirement in the "Comment" column of the table.
- The "Other" row is provided to identify MILCON requirements which do not fit the standard construction categories, e.g., dry docks, SCIF conversions, aircraft wash racks, etc. Enter a total cost and brief description for each identified requirement. For these "unique" categories of construction, a square footage estimate should also be indicated, if possible.

For Rehabilitation Requirements: if entered as a "unit of measure" (e.g., SF, etc.), then corresponding costs will be calculated at 75% of the cost of new construction (worst-case cost estimate for rehabilitation costs). If the rehabilitation will involve renovation at an anticipated rate of less than 75%, then in addition to identifying the requirement (SF, etc.), enter in the Comment block either a rehabilitation cost or an appropriate percentage which should be used in lieu of the 75% rate.

Show any cost entries in ($000).

Description of "Units of Measure" used in Table 3-B:

SY - Square Yards
FB - Feet of Berthing
SF - Square Feet
BL - Barrels

Description of standard "Categories of Construction" used in Table 3-B (including examples of types of construction included in these categories):

Horizontal - Aprons/Paving (Aircraft Parking Aprons, Combat Aircraft Ordnance Loading Areas, etc.), shown in square yards.

Berthing - General Purpose Berthing Piers, shown in feet of berthing.

Air Maintenance - Maintenance Hangers (General Purpose, High Bay, etc.), shown in square feet.

Other Operations - General Purpose Operations Facilities (Aircraft, Ordnance, Amphibious, Headquarters, etc.), shown in square feet.

Administrative - Administrative space (General Purpose and ADP), shown in square feet.

Training - Training Facilities (Academic, Reserve, Applied Instruction, Recruit Processing, Operational Trainers, etc.), shown in square feet.

Maintenance - Non-Weapons facilities (Vehicles, Electronics, Public Works, etc.), shown in square feet.

Bachelor Quarters - Barracks, Dormitories or Unmarked Officer Quarters, shown in square feet.

Supply/Storage - Operational Storage, Cold Storage, General Warehouse, etc., shown in square feet.

Dining Facilities - Enlisted Mess Hall, shown in square feet.

Personnel Support - Fire, Police, Family Service Centers, MWR, Child Care, etc., shown in square feet.

Communications - Other Communications Facilities, (Communications Centers, Telephone Exchanges, Terminal Equipment, Radar Air Traffic Control Center, etc.), shown in square feet.

Ship Maintenance - Shore Intermediate Maintenance, Waterfront Services, Amphibian Vehicle Maintenance, etc., shown in square feet.

RDT&E - Other Research, Development, Test and Evaluation (RDT&E) facilities (Aircraft, Ship, Underwater, Electronics, etc.) (does not include Ammo/Propulsion Labs), shown in square feet.

POL Storage - Jet Engine Fuel Storage, shown in barrels.

Ammo Storage - General Purpose, High Explosive, Small Arms and Missile Magazines, shown in square feet.

Medical Facilities - Hospitals, Medical/Dental Clinics, etc., shown in square feet.

Table 3-B: MILCON Requirements

Gaining Base Name: NAWC POINT MUGU			
Category (Unit)	New Construction Requirement	Rehabilitation Requirement	Comment
Horizontal (SY)			
Berthing (FB)			
Air Maintenance (SF)			
Other Operations (SF)			
Administrative (SF)			
Training (SF)			
Maintenance (SF)			
Bachelor Quarters (SF)			
Supply/Storage (SF)			
Dining Facilities (SF)			
Personnel Support (SF)			
Communications (SF)			
Ship Maintenance (SF)			
RDT&E (SF)			
POL Storage (BL)			
Ammo Storage (SF)			
Medical Facilities (SF)			
Environmental	$	$	
Other: -Modify Ready Missile Test Facility		$128	For HELLFIRE Test Facility

BRAC-95 SCENARIO DEVELOPMENT DATA CALL
REALIGN THE AVIATION QUALIFICAITON TEST DIRECTORATE (AQTD), EDWARDS AFB TO NAWC PATUXENT RIVER, MD

Complete one copy of Enclosure (1) - **Scenario Summary for the entire closure/realignment scenario.** Tables included in this enclosure are 1-A, 1-B and 1-C.

Table 1-A: Scenario Description. Identify the Scenario Number, Title and Response Date. The Scenario Number and Title will be provided to you by the BSAT as part of the data call tasking.

Scenario No.:	3-20-0163-J21
Scenario Title:	Realign the Aviation Qualificaiton Test Directorate (AQTD), Edwards AFB to NAWCAD Patuxent River, Md
Date:	15 December 1994

Table 1-B: Point of Contact Information Please identify a knowledgeable point of contact familiar with the information relating to this closure/realignment scenario whom the BSAT can contact to answer any questions or to provide additional information as required. This point of contact must also be familiar with the location and name of the person responsible for maintaining any supporting documentation relating to this data call response.

Name:	DR J. G. Hoeg
Organization/Code:	NAWCAD 5.0A
Office Phone Number:	(301) 826-1129
Fax Number:	(301) 826-1117
Home Phone Number:	(301) 475-9380

BRAC-95 SCENARIO DEVELOPMENT DATA CALL
REALIGN THE AVIATION QUALIFICAITON TEST DIRECTORATE (AQTD), EDWARDS AFB TO NAWC PATUXENT RIVER, MD

Complete a separate Enclosure (3) - Gaining Base Questions, as appropriate, for each "gaining" base involved in the closure/realignment scenario. Make additional copies of this enclosure as necessary. Tables included in this enclosure are 3-A and 3-B. Enter the name of the Gaining Base in the block below.

Gaining Base:	NAWCAD PATUXENT RIVER

The Army Aviation Qualification Test Directorate mission can be accommodated at Patuxent River. There is adequate airspace for test operations and adequate airfield operations support. The expertise of the Navy in the testing areas of shipboard compatibility and electronic warfare will benefit the Army whereas the Army expertise in developing and testing new helicopter airframes should benefit the Navy. The Army presently sends all its test pilots through the Navy Test Pilot School (TPS) at Patuxent River and provides and supports a fleet of rotary wing aircraft to support the Navy TPS.

There will be no requirement to move special test capabilities such as modification/fabrication facilities, instrumentation/data acquisition facilities, telemetry and theodolite tracking system, and installed system test facilities. If any of the scenario equipment involves these test capabilities, there would be no requirement to transport such equipment to Patuxent River. Patuxent River provides unique mission systems testing capability currently requiring transit by the Army to Patuxent River to use these facilities.

The community can readily accommodate the additional personnel with little or no impact. MILCON will be required to support this move. Excess personnel space will not be available at Patuxent River in the affected time frame. It is possible that the hangar space requirements could be partially mitigated by the synergistic combination of Navy and Army test, training, chase, and utility assets. Maximum benefit would occur by considering BRAC Scenarios 3-20-0163-J20 and 3-20-0163-J21 in unison. Table 3-B shows the unmitigated requirement.

Table 3-A - Dynamic Base Information Complete the following "Supporting Data" section. Then, summarize this data in the Summary Data Table (3-A) that immediately follows this "Supporting Data" section. Show all entries in ($000).

Table 3-A: Supporting Data

a. Other One-Time Unique Costs. This item has been divided into two sections. First, separately identify any Community Infrastructure Impact costs. Second, separately identify any other One-Time Unique costs. **Finally, when transferring these figures to the Summary Data Table (3-A), combine both sets of numbers into one "Other One-Time Unique Costs" answer (by year).**

a. (1) Community Infrastructure Impacts. Identify any cost impacts on community infrastructure at gaining bases which would result from the transfer of functions/personnel, e.g., requirement to build new sewage treatment facility, etc. For each cost, identify the amount, year in which it would be incurred, location (city, etc.), and a brief description of the requirement. Answers must be consistent with certified data contained in the gaining base's Data Call 65, "Economic and Community Infrastructure Data", response. Ensure that adequate coordination takes place, especially in those cases where the gaining and losing base are in different claimancies. **Remember to aggregate this answer with 2.a.(2) costs on the next page, if any, when transferring data to Summary Table.**

Gaining Base: NAWCAD PATUXENT RIVER

	Cost	FY	Location	Description
1.	None.			In accordance with Data Call 65, growth can be accommodated with little or no adverse impact to existing community infrastructure and at little or no additional expense.

a. (2) Other Unique One-Time Costs. Identify any other one-time unique costs at the gaining base which will not be calculated automatically by the COBRA algorithms (as noted in the Introduction section). Examples include use of temporary office space, etc. Only costs directly attributable to the closure/realignment action should be identified. This area should not be used to identify routine moving or personnel costs, which are calculated automatically by the COBRA algorithms, nor should it be used to identify one-time unique moving costs which will be addressed in the Losing Base tables (enclosure (2)). For each unique one-time cost, identify the amount, year in which the cost will be incurred and describe the nature of the cost. Do not double count any costs identified on Losing Base tables (Enclosure (2)). **Remember to aggregate with 2.a.(1) costs on the previous page, if any, when transferring data to Summary Table.**

Gaining Base: NAWCAD PATUXENT RIVER

	Cost	FY	Description
1.	None.		

b. Other One-Time Unique Savings. Identify any other one-time unique savings at the gaining base which will not be calculated automatically by the COBRA algorithms (as noted in the Introduction section). This area should not be used to identify routine moving or personnel savings, which are calculated automatically by the COBRA algorithms. Do not include MILCON Cost Avoidances (which were identified in a separate data call), or Procurement Cost Avoidances (which are covered in the losing base enclosure). For each savings, identify the amount, year in which it will occur and describe the nature of the savings. Only savings directly attributable to the closure/realignment action should be identified. Do not double count any savings identified on Losing Base tables (Enclosure (2)).

Gaining Base: NAWCAD PATUXENT RIVER

	Cost	FY	Description
1.	None.		

c. **Environmental Mitigation.** Environmental cleanup costs at closing bases are not considered in COBRA, since these costs will be incurred regardless of whether the activity is closed or remains opened. If, however, additional environmental costs are incurred at gaining bases as the result of a transfer of functions or personnel, these costs should be identified, e.g., wetland mitigation, environmental impact statements at gaining bases, new permits, etc. Identify below any non-Military Construction environmental mitigation costs which will be incurred as a result of this closure/realignment action. (Note: Military Construction Costs for environmental mitigation are identified in Table 3-B). For each cost, identify the amount, year in which the cost will be incurred and a brief description of the cost.

Gaining Base: **NAWCAD PATUXENT RIVER**

	Cost	FY	Description
1.	None.		

d. **Miscellaneous Recurring Costs.** Identify any other recurring costs associated with the closure/realignment action at the gaining base which will not be calculated automatically by the COBRA algorithms (as noted in the Introduction section), e.g., new leases of facilities or equipment, etc. For each cost, identify the year in which the cost will begin and describe the nature of the cost. Only costs directly attributable to the closure/realignment action should be identified. (Do not include changes in non-payroll BOS, Family Housing Operations, housing allowances or CHAMPUS costs, all of which are calculated by other COBRA algorithms.). Do not double count any costs identified on Losing Base tables (Enclosure (2)).

Gaining Base: **NAWCAD PATUXENT RIVER**

	Annual Cost	FY	Description
1.	None.		

e. Miscellaneous Recurring Savings. Identify any other recurring savings associated with the closure/realignment action which will not be calculated automatically by the model, e.g., elimination of leases of facilities or equipment, etc. For the savings, identify the year in which each will begin and describe the nature of the savings. Only savings directly attributable to the closure/realignment action should be identified. (Do not include changes in non-payroll BOS, Family Housing Operations, housing allowances, CHAMPUS costs or salary savings for eliminated positions/billets, all of which are calculated by other COBRA algorithms.). Do not double count any savings identified on Losing Base tables (Enclosure (2)).

Gaining Base: **NAWCAD PATUXENT RIVER**

	Annual Savings	FY	Description
1.	None.		

f. Land Purchases. Identify any land purchases required at gaining bases to accommodate relocating activities/functions. Identify the cost, number of acres, year in which purchase will occur and a brief description identifying why the land needs to be purchased.

Gaining Base: **NAWCAD PATUXENT RIVER**

	Cost	No. of Acres	FY	Description
1.	None.			

BRAC-95 SCENARIO DEVELOPMENT DATA CALL
REALIGN THE AVIATION QUALIFICAITON TEST DIRECTORATE (AQTD), EDWARDS AFB TO NAWC PATUXENT RIVER, MD

Summarize data shown in response to supporting data questions a. through f. above in the following table:

Table3-A: Dynamic Base Information

Gaining Base Name:							
	1996	1997	1998	1999	2000	2001	Total
a. One-Time Unique Costs *							
b. One-Time Unique Savings							
c. Environ. Mitigation							
d. Misc. Recurring Costs							
e. Misc. Recurring Savings							
f. Land Purchases							

* Includes both Community Infrastructure Impact and Other One-Time Unique Costs, as applicable.

Table 3-B - Military Construction Requirements Identify the amount of new construction or rehabilitation (using the designated unit of measure) which will be required at the receiving site. Include a brief description of the requirement in the Comment column.

°Do not include Family Housing construction requirements on this table, they will be identified on a separate data call format.

°The COBRA MILCON algorithm will estimate the cost of MILCON requirements for the standard categories of construction listed on the next page. However, if an engineered estimate(s) is already available, then a dollar value for the requirement(s) should be identified in the "Comment" column of the table.

°Any identified Environmental Mitigation MILCON projects must include a total cost and brief description of the requirement in the "Comment" column of the table.

°The "Other" row is provided to identify MILCON requirements which do not fit the standard construction categories, e.g., dry docks, SCIF conversions, aircraft wash racks, etc. Enter a total cost and brief description for each identified requirement. For these "unique" categories of construction, a square footage estimate should also be indicated, if possible.

For Rehabilitation Requirements: if entered as a "unit of measure" (e.g., SF, etc.), then corresponding costs will be calculated at 75% of the cost of new construction (worst-case cost estimate for rehabilitation costs). If the rehabilitation will involve renovation at an anticipated rate of less than 75%, then in addition to identifying the requirement (SF, etc.), enter in the Comment block either a rehabilitation cost or an appropriate percentage which should be used in lieu of the 75% rate.

Show any cost entries in ($000).

Description of "Units of Measure" used in Table 3-B:

SY - Square Yards
FB - Feet of Berthing
SF - Square Feet
BL - Barrels

Description of standard "Categories of Construction" used in Table 3-B (including examples of types of construction included in these categories):

Horizontal - Aprons/Paving (Aircraft Parking Aprons, Combat Aircraft Ordnance Loading Areas, etc.), shown in square yards.

Berthing - General Purpose Berthing Piers, shown in feet of berthing.

BRAC-95 SCENARIO DEVELOPMENT DATA CALL
REALIGN THE AVIATION QUALIFICAITON TEST DIRECTORATE (AQTD), EDWARDS AFB TO NAWC PATUXENT RIVER, MD

Air Maintenance - Maintenance Hangers (General Purpose, High Bay, etc.), shown in square feet.

Other Operations - General Purpose Operations Facilities (Aircraft, Ordnance, Amphibious, Headquarters, etc.), shown in square feet.

Administrative - Administrative space (General Purpose and ADP), shown in square feet.

Training - Training Facilities (Academic, Reserve, Applied Instruction, Recruit Processing, Operational Trainers, etc.), shown in square feet.

Maintenance - Non-Weapons facilities (Vehicles, Electronics, Public Works, etc.), shown in square feet.

Bachelor Quarters - Barracks, Dormitories or Unmarked Officer Quarters, shown in square feet.

Supply/Storage - Operational Storage, Cold Storage, General Warehouse, etc., shown in square feet.

Dining Facilities - Enlisted Mess Hall, shown in square feet.

Personnel Support - Fire, Police, Family Service Centers, MWR, Child Care, etc., shown in square feet.

Communications - Other Communications Facilities, (Communications Centers, Telephone Exchanges, Terminal Equipment, Radar Air Traffic Control Center, etc.), shown in square feet.

Ship Maintenance - Shore Intermediate Maintenance, Waterfront Services, Amphibian Vehicle Maintenance, etc., shown in square feet.

RDT&E - Other Research, Development, Test and Evaluation (RDT&E) facilities (Aircraft, Ship, Underwater, Electronics, etc.) (does not include Ammo/Propulsion Labs), shown in square feet.

POL Storage - Jet Engine Fuel Storage, shown in barrels.

Ammo Storage - General Purpose, High Explosive, Small Arms and Missile Magazines, shown in square feet.

Medical Facilities - Hospitals, Medical/Dental Clinics, etc., shown in square feet.

Table 3-B: MILCON Requirements

Gaining Base Name: NAWCAD PATUXENT RIVER			
Category (Unit)	New Construction Requirement	Rehabilitation Requirement	Comment
Horizontal (SY)	0	0	
Berthing (FB)	0	0	
Air Maintenance (SF)	128,302	0	
Other Operations (SF)	0	0	
Administrative (SF)	0	0	
Training (SF)	0	0	
Maintenance (SF)	0	0	
Bachelor Quarters (SF)	0	0	
Supply/Storage (SF)	0	0	
Dining Facilities (SF)	0	0	
Personnel Support (SF)	0	0	
Communications (SF)	0	0	
Ship Maintenance (SF)	0	0	
RDT&E (SF)	0	0	
POL Storage (BL)	0	0	
Ammo Storage (SF)	0	0	
Medical Facilities (SF)	0	0	
Environmental	$0	$0	
Other: - - -	 $0 $0 $0	 $0 $0 $0	

BRAC-95 SCENARIO DEVELOPMENT DATA CALL
REALIGN THE AVIATION TECHNICAL TEST CENTER (ATTC) FORT RUCKER, AL TO NAWC PATUXENT RIVER, MD

Complete one copy of Enclosure (1) - **Scenario Summary for the entire closure/realignment scenario.** Tables included in this enclosure are 1-A, 1-B and 1-C.

Table 1-A: Scenario Description. Identify the Scenario Number, Title and Response Date. The Scenario Number and Title will be provided to you by the BSAT as part of the data call tasking.

Scenario No.:	3-20-0163-J20
Scenario Title:	Realign the Aviation Technical Test Center (ATTC) Fort Rucker, AL to NAWCAD Patuxent River, Md
Date:	15 December 1994

Table 1-B: Point of Contact Information Please identify a knowledgeable point of contact familiar with the information relating to this closure/realignment scenario whom the BSAT can contact to answer any questions or to provide additional information as required. This point of contact must also be familiar with the location and name of the person responsible for maintaining any supporting documentation relating to this data call response.

Name:	DR J. G. Hoeg
Organization/Code:	NAWCAD 5.0A
Office Phone Number:	(301) 826-1129
Fax Number:	(301) 826-1117
Home Phone Number:	(301) 475-9380

BRAC-95 SCENARIO DEVELOPMENT DATA CALL
REALIGN THE AVIATION TECHNICAL TEST CENTER (ATTC) FORT RUCKER, AL TO NAWC PATUXENT RIVER, MD

Complete a separate Enclosure (3) - Gaining Base Questions, as appropriate, for each "gaining" base involved in the closure/realignment scenario. Make additional copies of this enclosure as necessary. Tables included in this enclosure are 3-A and 3-B. Enter the name of the Gaining Base in the block below.

Gaining Base:	NAWCAD PATUXENT RIVER

The Army Aviation Technical Test Center mission can be accommodated at Patuxent River. There is adequate airspace for test operations and adequate airfield operations support. The expertise of the Navy in the testing areas of shipboard compatibility and electronic warfare will benefit the Army whereas the Army expertise in developing and testing new helicopter airframes should benefit the Navy. The Army presently sends all its test pilots through the Navy Test Pilot School (TPS) at Patuxent River and provides and supports a fleet of rotary wing aircraft to support the Navy TPS.

There will be no requirement to move special test capabilities such as modification/fabrication facilities, instrumentation/data acquisition facilities, telemetry and theodolite tracking system, and installed system test facilities. If any of the scenario equipment involves these test capabilities, there would be no requirement to transport such equipment to Patuxent River. Patuxent River provides unique mission systems testing capability currently requiring transit by the Army to Patuxent River to use these facilities.

The community can readily accommodate the additional personnel with little or no impact. MILCON will be required to support this move. Excess personnel space will not be available at Patuxent River in the affected time frame. It is possible that the hangar space requirements could be partially mitigated by the synergistic combination of Navy and Army test, training, chase, and utility assets. Maximum benefit would occur by considering BRAC Scenarios 3-20-0163-J20 and 3-20-0163-J21 in unison. Table 3-B shows the unmitigated requirement.

BRAC-95 SCENARIO DEVELOPMENT DATA CALL
REALIGN THE AVIATION TECHNICAL TEST CENTER (ATTC) FORT RUCKER, AL TO NAWC PATUXENT RIVER, MD

Table 3-A - Dynamic Base Information Complete the following "Supporting Data" section. Then, summarize this data in the Summary Data Table (3-A) that immediately follows this "Supporting Data" section. Show all entries in ($000).

Table 3-A: Supporting Data

a. Other One-Time Unique Costs. This item has been divided into two sections. First, separately identify any Community Infrastructure Impact costs. Second, separately identify any other One-Time Unique costs. **Finally, when transferring these figures to the Summary Data Table (3-A), combine both sets of numbers into one "Other One-Time Unique Costs" answer (by year).**

a. (1) Community Infrastructure Impacts. Identify any cost impacts on community infrastructure at gaining bases which would result from the transfer of functions/personnel, e.g., requirement to build new sewage treatment facility, etc. For each cost, identify the amount, year in which it would be incurred, location (city, etc.), and a brief description of the requirement. Answers must be consistent with certified data contained in the gaining base's Data Call 65, "Economic and Community Infrastructure Data", response. Ensure that adequate coordination takes place, especially in those cases where the gaining and losing base are in different claimancies. **Remember to aggregate this answer with 2.a.(2) costs on the next page, if any, when transferring data to Summary Table.**

Gaining Base: **NAWCAD PATUXENT RIVER**

	Cost	FY	Location	Description
1.	None.			In accordance with Data Call 65, growth can be accommodated with little or no adverse impact to existing community infrastructure and at little or no additional expense.

a. (2) Other Unique One-Time Costs. Identify any other one-time unique costs at the gaining base which will not be calculated automatically by the COBRA algorithms (as noted in the Introduction section). Examples include use of temporary office space, etc. Only costs directly attributable to the closure/realignment action should be identified. This area should not be used to identify routine moving or personnel costs, which are calculated automatically by the COBRA algorithms, nor should it be used to identify one-time unique moving costs which will be addressed in the Losing Base tables (enclosure (2)). For each unique one-time cost, identify the amount, year in which the cost will be incurred and describe the nature of the cost. Do not double count any costs identified on Losing Base tables (Enclosure (2)). **Remember to aggregate with 2.a.(1) costs on the previous page, if any, when transferring data to Summary Table.**

Gaining Base: NAWCAD PATUXENT RIVER

Cost	FY	Description
1. None.		

b. Other One-Time Unique Savings. Identify any other one-time unique savings at the gaining base which will not be calculated automatically by the COBRA algorithms (as noted in the Introduction section). This area should not be used to identify routine moving or personnel savings, which are calculated automatically by the COBRA algorithms. Do not include MILCON Cost Avoidances (which were identified in a separate data call), or Procurement Cost Avoidances (which are covered in the losing base enclosure). For each savings, identify the amount, year in which it will occur and describe the nature of the savings. Only savings directly attributable to the closure/realignment action should be identified. Do not double count any savings identified on Losing Base tables (Enclosure (2)).

Gaining Base: NAWCAD PATUXENT RIVER

Cost	FY	Description
1. None.		

c. Environmental Mitigation. Environmental cleanup costs at closing bases are not considered in COBRA, since these costs will be incurred regardless of whether the activity is closed or remains opened. If, however, additional environmental costs are incurred at gaining bases as the result of a transfer of functions or personnel, these costs should be identified, e.g., wetland mitigation, environmental impact statements at gaining bases, new permits, etc. Identify below any non-Military Construction environmental mitigation costs which will be incurred as a result of this closure/realignment action. (Note: Military Construction Costs for environmental mitigation are identified in Table 3-B). For each cost, identify the amount, year in which the cost will be incurred and a brief description of the cost.

Gaining Base: **NAWCAD PATUXENT RIVER**

	Cost	FY	Description
1.	None.		

d. Miscellaneous Recurring Costs. Identify any other recurring costs associated with the closure/realignment action at the gaining base which will not be calculated automatically by the COBRA algorithms (as noted in the Introduction section), e.g., new leases of facilities or equipment, etc. For each cost, identify the year in which the cost will begin and describe the nature of the cost. Only costs directly attributable to the closure/realignment action should be identified. (Do not include changes in non-payroll BOS, Family Housing Operations, housing allowances or CHAMPUS costs, all of which are calculated by other COBRA algorithms.). Do not double count any costs identified on Losing Base tables (Enclosure (2)).

Gaining Base: **NAWCAD PATUXENT RIVER**

	Annual Cost	FY	Description
1.	None.		

e. Miscellaneous Recurring Savings. Identify any other recurring savings associated with the closure/realignment action which will not be calculated automatically by the model, e.g., elimination of leases of facilities or equipment, etc. For the savings, identify the year in which each will begin and describe the nature of the savings. Only savings directly attributable to the closure/realignment action should be identified. (Do not include changes in non-payroll BOS, Family Housing Operations, housing allowances, CHAMPUS costs or salary savings for eliminated positions/billets, all of which are calculated by other COBRA algorithms.). Do not double count any savings identified on Losing Base tables (Enclosure (2)).

Gaining Base: **NAWCAD PATUXENT RIVER**

	Annual Savings	FY	Description
1.	None.		

f. Land Purchases. Identify any land purchases required at gaining bases to accommodate relocating activities/functions. Identify the cost, number of acres, year in which purchase will occur and a brief description identifying why the land needs to be purchased.

Gaining Base: **NAWCAD PATUXENT RIVER**

	Cost	No. of Acres	FY	Description
1.	None.			

BRAC-95 SCENARIO DEVELOPMENT DATA CALL
REALIGN THE AVIATION TECHNICAL TEST CENTER (ATTC) FORT RUCKER, AL TO NAWC PATUXENT RIVER, MD

Summarize data shown in response to supporting data questions a. through f. above in the following table:

Table3-A: Dynamic Base Information

Gaining Base Name:							
	1996	1997	1998	1999	2000	2001	Total
a. One-Time Unique Costs *							
b. One-Time Unique Savings							
c. Environ. Mitigation							
d. Misc. Recurring Costs							
e. Misc. Recurring Savings							
f. Land Purchases							

* Includes both Community Infrastructure Impact and Other One-Time Unique Costs, as applicable.

Table 3-B - Military Construction Requirements Identify the amount of new construction or rehabilitation (using the designated unit of measure) which will be required at the receiving site. Include a brief description of the requirement in the Comment column.

°Do not include Family Housing construction requirements on this table, they will be identified on a separate data call format.

°The COBRA MILCON algorithm will estimate the cost of MILCON requirements for the standard categories of construction listed on the next page. However, if an engineered estimate(s) is already available, then a dollar value for the requirement(s) should be identified in the "Comment" column of the table.

°Any identified Environmental Mitigation MILCON projects must include a total cost and brief description of the requirement in the "Comment" column of the table.

°The "Other" row is provided to identify MILCON requirements which do not fit the standard construction categories, e.g., dry docks, SCIF conversions, aircraft wash racks, etc. Enter a total cost and brief description for each identified requirement. For these "unique" categories of construction, a square footage estimate should also be indicated, if possible.

For Rehabilitation Requirements: if entered as a "unit of measure" (e.g., SF, etc.), then corresponding costs will be calculated at 75% of the cost of new construction (worst-case cost estimate for rehabilitation costs). If the rehabilitation will involve renovation at an anticipated rate of less than 75%, then in addition to identifying the requirement (SF, etc.), enter in the Comment block either a rehabilitation cost or an appropriate percentage which should be used in lieu of the 75% rate.

Show any cost entries in ($000).

Description of "Units of Measure" used in Table 3-B:

SY - Square Yards
FB - Feet of Berthing
SF - Square Feet
BL - Barrels

Description of standard "Categories of Construction" used in Table 3-B (including examples of types of construction included in these categories):

Horizontal - Aprons/Paving (Aircraft Parking Aprons, Combat Aircraft Ordnance Loading Areas, etc.), shown in square yards.

Berthing - General Purpose Berthing Piers, shown in feet of berthing.

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Air Maintenance - Maintenance Hangers (General Purpose, High Bay, etc.), shown in square feet.

Other Operations - General Purpose Operations Facilities (Aircraft, Ordnance, Amphibious, Headquarters, etc.), shown in square feet.

Administrative - Administrative space (General Purpose and ADP), shown in square feet.

Training - Training Facilities (Academic, Reserve, Applied Instruction, Recruit Processing, Operational Trainers, etc.), shown in square feet.

Maintenance - Non-Weapons facilities (Vehicles, Electronics, Public Works, etc.), shown in square feet.

Bachelor Quarters - Barracks, Dormitories or Unmarked Officer Quarters, shown in square feet.

Supply/Storage - Operational Storage, Cold Storage, General Warehouse, etc., shown in square feet.

Dining Facilities - Enlisted Mess Hall, shown in square feet.

Personnel Support - Fire, Police, Family Service Centers, MWR, Child Care, etc., shown in square feet.

Communications - Other Communications Facilities, (Communications Centers, Telephone Exchanges, Terminal Equipment, Radar Air Traffic Control Center, etc.), shown in square feet.

Ship Maintenance - Shore Intermediate Maintenance, Waterfront Services, Amphibian Vehicle Maintenance, etc., shown in square feet.

RDT&E - Other Research, Development, Test and Evaluation (RDT&E) facilities (Aircraft, Ship, Underwater, Electronics, etc.) (does not include Ammo/Propulsion Labs), shown in square feet.

POL Storage - Jet Engine Fuel Storage, shown in barrels.

Ammo Storage - General Purpose, High Explosive, Small Arms and Missile Magazines, shown in square feet.

Medical Facilities - Hospitals, Medical/Dental Clinics, etc., shown in square feet.

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Table 3-B: MILCON Requirements

Gaining Base Name: NAWCAD PATUXENT RIVER			
Category (Unit)	New Construction Requirement	Rehabilitation Requirement	Comment
Horizontal (SY)	0	0	
Berthing (FB)	0	0	
Air Maintenance (SF)	155,067	0	
Other Operations (SF)	0	0	
Administrative (SF)	0	0	
Training (SF)	0	0	
Maintenance (SF)	0	0	
Bachelor Quarters (SF)	0	0	
Supply/Storage (SF)	0	0	
Dining Facilities (SF)	0	0	
Personnel Support (SF)	0	0	
Communications (SF)	0	0	
Ship Maintenance (SF)	0	0	
RDT&E (SF)	0	0	
POL Storage (BL)	0	0	
Ammo Storage (SF)	0	0	
Medical Facilities (SF)	0	0	
Environmental	$0	$0	
Other: - - -	 $0 $0 $0	 $0 $0 $0	