



**THE DEFENSE BASE CLOSURE AND REALIGNMENT COMMISSION**

**1700 NORTH MOORE STREET SUITE 1425  
ARLINGTON, VA 22209  
703-696-0504**

**ALAN J. DIXON, CHAIRMAN**

**April 18, 1995**

**COMMISSIONERS:**

**AL CORNELLA  
REBECCA COX  
GEN J. B. DAVIS, USAF (RET)  
S. LEE KLING  
RADM BENJAMIN F. MONTOYA, USN (RET)  
MG JOSUE ROBLES, JR., USA (RET)  
WENDI LOUISE STEELE**

**Colonel Jeffrey W. Gault  
Commander  
U. S. Army Garrison, Fort Bliss  
Fort Bliss, TX 79916-6816**

**Dear Colonel Gault:**

I want to thank you for all of the assistance members of your installation provided during my recent visit to Fort Bliss. The briefings and discussions with your staff, and representatives from TEXCOM and Fort Hunter Liggett, provided us with a great deal of valuable information about the proposed relocation of the Test and Experimentation Center (TEC) to Fort Bliss. This information will be very helpful to the Commission as it carries out its review of the recommendations of the Secretary of Defense in the months ahead.

Please extend my appreciation to the members of your staff for their assistance. The briefings conducted by everyone during the driving tours of alternative facilities for stationing TEC, and your MWR facilities, were most informative. I would especially like to thank Carol Gordon, Pat Chilton, Dave Hall, and Arnie Cole for their efforts in planning and coordinating the staff visit.

**Sincerely,**

**Steve Bailey  
Commission Staff**

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# Document Separator

With minor additional funding, the existing staff at Camp Roberts could manage the facilities and property.

Sincerely,

A handwritten signature in black ink, appearing to read "Tandy K. Bozeman", is written over a horizontal line.

Tandy K. Bozeman  
Major General  
The Adjutant General



DEPARTMENT OF THE ARMY  
 HEADQUARTERS, CALIFORNIA ARMY NATIONAL GUARD  
 9800 GOETHE ROAD - P.O. BOX 269101  
 SACRAMENTO, CALIFORNIA 95826-9101



CAFE

DATE SENT: 17 APR 95

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SENT TO: BASE REALIGNMENT & CLOSURE Com OFFICE SYMBOL: \_\_\_\_\_

ATTENTION: LTC STEVE BAILEY

SUBJECT OF MESSAGE: FT HUNTER WIGGETT

FACSIMILE PHONE NUMBER: 703-696-0550

NUMBER OF PAGES INCLUDING HEADER: 5

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SENT BY: LTC FRED GAGE OFFICE SYMBOL: CAFE

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FACSIMILE PHONE NUMBER: 916-854-3643 OR DSN 466-3643

ADDITIONAL INFORMATION: \_\_\_\_\_

PER OUR DISCUSSION

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SACRAMENTO, CALIFORNIA 95826-9101



CAFE (405)

14 April 1995

MEMORANDUM FOR Chief, National Guard Bureau, ATTN: NGB-AEN,  
(Mr. Graham), 111 South George Mason Drive,  
Arlington, VA 22204-1382

SUBJECT: Fort Hunter Liggett

1. Enclosed for your information is a copy of a letter sent to Mr. Alan J. Dixon, Chairman, Base Realignment and Closure Commission. This letter was sent at the direction of Mr. Robert Walker, Assistant Secretary of the Army. Mr. Walker visited this headquarters in late March and was briefed about our concerns with the future of Fort Hunter Liggett. At the conclusion of the discussion Mr. Walker directed that a letter be sent to the Commission stating our concerns.
2. On 26 Apr 95 Ms. Wendi Steele, a BRAC Commissioner, will visit Fort Hunter Liggett. During the visit Brigadier General Zysk and other members of this staff will meet with Ms. Steele to discuss the post and advise her of the importance of Fort Hunter Liggett to the California National Guard. You will be advised of the results of the meeting.
3. If you have questions or comments I can be reached at DSN 466-3584 or 916-854-3584, Monday through Friday from 0700-1530.

FOR THE COMMANDER:

FRED W. GAGE  
LTC, AR, CA ARNG  
Deputy Director  
Facilities Engineering

Encl

CF: NGB-ARO-TS



DEPARTMENTS OF THE ARMY AND AIR FORCE  
OFFICE OF THE ADJUTANT GENERAL  
CALIFORNIA NATIONAL GUARD  
9800 GOETHE ROAD - P.O. BOX 269101  
SACRAMENTO, CALIFORNIA 95826-9101



April 13, 1995

Directorate  
Facilities Engineering

The Honorable Alan J. Dixon  
Chairman, Base Realignment and  
Closure Commission  
1700 North Moore Street, Suite 1425  
Alexandria, VA 22209

Dear Mr. Dixon:

This letter is to advise you of the importance of Fort Hunter Liggett to the California National Guard. The post is a major training area for our units and organizations. It is the only installation in California where we have reasonable access to a range that enables our soldiers to meet Army standards for tank, aerial, and antitank missile (TOW) gunnery. There is an equivalent range at Fort Irwin (National Training Center) however, access is limited due to heavy use by the active components during task force rotations throughout the year. Fort Hunter Liggett is also used by the California Air National Guard for several different activities. The 129th Rescue Group, the 146th Airlift Wing, and the 162nd Combat Communications Group conduct training at the post. The facility offers airspace and terrain close to these organizations, which enhances training and reduces training costs.

Fort Hunter Liggett also has a large area available for maneuver. The terrain is ideal for the force structure of the California National Guard. The proximity of Fort Hunter Liggett to Camp Roberts enables the 40th Infantry Division (Mech) to train as it would fight. In order to support the combat units training at Fort Hunter Liggett, the logistics units provide resupply from Camp Roberts. The distance between the two posts approximates tactical reality. This type of training environment is available at few installations in the United States.

The California National Guard has expanded its presence at Fort Hunter Liggett. We have operated the Multi-Purpose Range Complex (MPRC) for several years. Recently, we established a vehicle storage site on the installation. A company team of M-60A3 Tanks, M-113 Personnel Carriers, M-901 Improved TOW Carriers, and support equipment is located on post. This allows units to use Fort Hunter Liggett during Inactive Duty Training

weekends without having to move vehicles from Camp Roberts, a distance of 30 miles. This has proven to be cost effective since we save time, fuel, vehicle wear, and cause less environmental damage by reducing the amount of travel on the road network.

Long-range plans include the expansion of the vehicle fleet at Fort Hunter Liggett. It is our plan to construct a combat vehicle maintenance facility at the post. This type of facility is known as the Unit Training Equipment Site, or UTES. The 40th Division receives the M-1 Tank in 1996 and will field the Bradley Fighting Vehicle in 1997. Construction of a UTES is essential to support this equipment. The range complex (MPRC) may need to be expanded to accommodate the training required for the Bradley crews. In order to qualify the tank crews and Bradley crews, we will need to use the existing range for 157 days per year. Aviation gunnery and other weapons requirements add an additional 90 days of range time needed for the 40th Division to qualify to Army standards. If the MPRC is expanded, the number of days required to qualify our soldiers would be reduced. More importantly, Camp Roberts is the only reserve component mobilization site in the Western United States. The ranges and maneuver complex at Fort Hunter Liggett are essential to the mobilization process.

The California National Guard has no interest in operating Fort Hunter Liggett's cantonment area. If the decision is made to relocate elements of the Test and Experimental Command, we would be interested only in acquiring the track vehicle maintenance facilities located on the post. This would suit our long-range purposes and obviate the need to construct a maintenance building mentioned in the previous paragraph. Other considerations include the continued operation of a Range Control organization and allowing access to the MEDEVAC crew building during periods of heavy troop concentration.

The California National Guard is vitally interested in the future of Fort Hunter Liggett. We want to be an active participant in the decisions that may be made concerning the installation. It is essential that Fort Hunter Liggett remain in the Army inventory. Since the California National Guard would be the primary user of Fort Hunter Liggett, it may be more efficient to license the maneuver, range, and buildings requested by us.

# Document Separator



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Department of the Army  
Office of the Chief of Staff  
The Army Basing Study

MEMORANDUM FOR THE RECORD

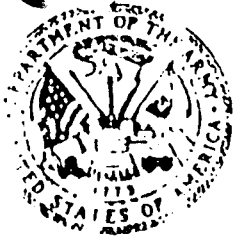
SUBJECT: Briefing for the Undersecretary of the Army and Vice Chief of Staff,  
February 2, 1995, 1130-1215 hours

1. The purpose was to (a) provide information on the Army's final assessment of alternatives presented by the Joint Cross Service Groups (JCSGs) for analysis; (b) obtain a decision to add two of the Medical JCSG's recommendations to the Army's BRAC list, and (c) obtain a decision to add a recommendation to the BRAC list that redirects an element of the BRAC 91 decision on Tri-Service Project Reliance.
2. Principal attendees: Mr. Reeder (Undersecretary), GEN Tilelli (Vice Chief of Staff), Mr. Walker (Assistant Secretary for Installations, Logistics & Environment), LTG Dominy (Director of the Army Staff), MG Putman (Assistant Deputy Chief of Staff for Operations & Plans), MG Farnen (Assistant Deputy Chief of Staff for Logistics), MG Little (Assistant Chief of Staff for Installation Management), Mr. Orsini (Deputy Assistant Secretary for Logistics), Mr. Singley (Deputy Assistant Secretary for Research & Technology), Mr. Gehrig (Director, Test & Evaluation Management Agency), Mr. Stockdale (Deputy General Counsel), BG Zajtchuck (Office of The Surgeon General), BG Shane (Director of Management), Mr. Takakoshi (Special Assistant to the Undersecretary) and COL Jones (Director, TABS). LTC Powell, TABS, gave the briefing.
3. The Undersecretary and Vice Chief of Staff agreed that the following recommendations should be added to the Army's BRAC 95 list.
  - a. Realign Fort Lee's hospital to a clinic
  - b. Realign Fort Meade's hospital to a clinic
  - c. BRAC 91 Redirect do not relocate toxicology research to Wright-Patterson AFB

Enclosure  
Briefing Staff

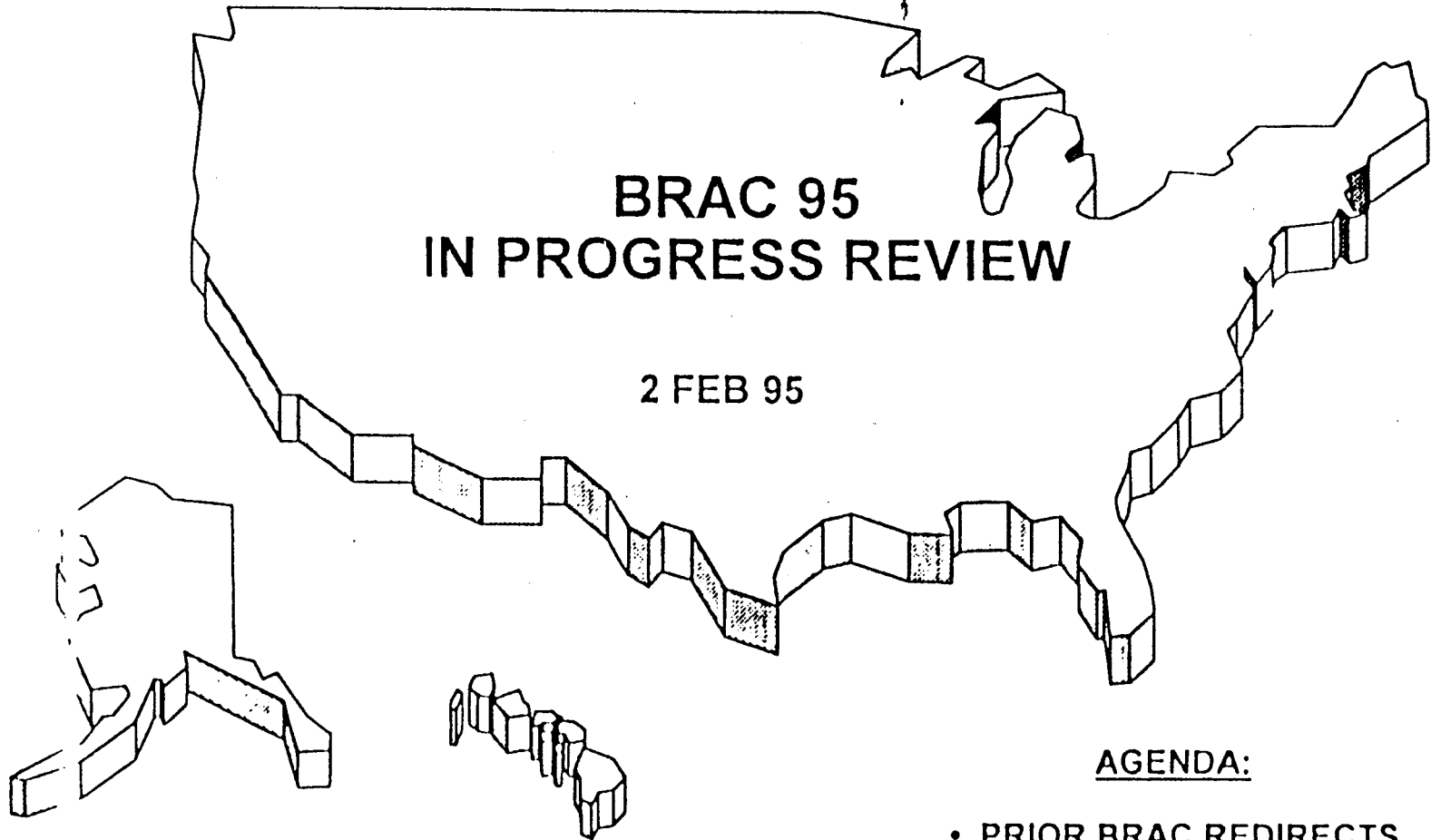
Mr. Nerger/697-1765  
Approved by: COL M. Jones

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# PURPOSE



AGENDA:

- PRIOR BRAC REDIRECTS
- JOINT CROSS-SERVICE GROUP ALTERNATIVES

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THE ARMY HIASING STUDY



# POTENTIAL AMENDMENTS TO PREVIOUS COMMISSION DECISIONS

- TRI-SERVICE RELIANCE (BRAC 91):
  - DO NOT RELOCATE TOXICOLOGY RESEARCH TO WRIGHT-PATTERSON AFB
    - REALIGN PORTION TO ABERDEEN PROVING GROUND
    - REMAINDER STAYS AT FT DETRICK
  - RATIONALE: NO OPERATIONAL BENEFITS



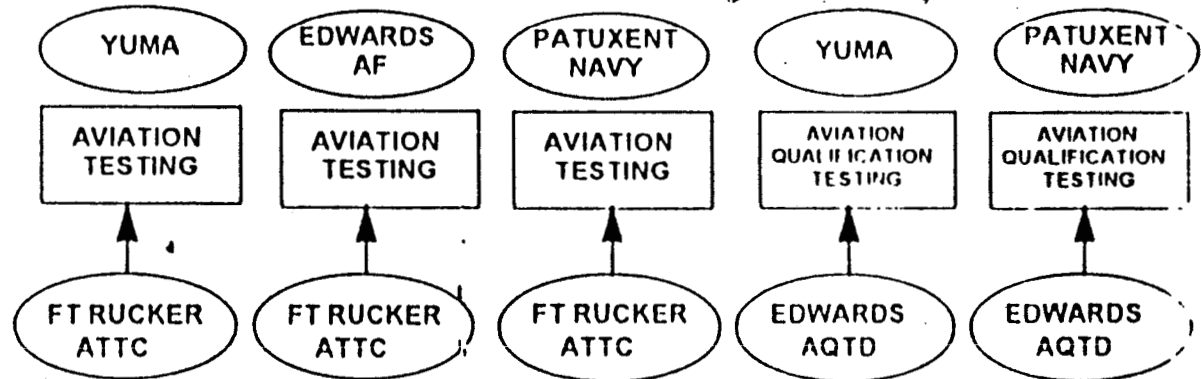
# JOINT CROSS-SERVICE GROUP ALTERNATIVES OVERVIEW

<u>JCSG</u>	<u>GENERAL</u>	<u>AFFECTED INSTALLATIONS</u>	<u>RECOMMENDATION IMPACT</u>
<b>TEST &amp; EVALUATION</b>	REALIGN MINOR WORKLOAD	GAINERS: YUMA, WHITE SANDS, HUACHUCA LOSERS: RUCKER, REDSTONE	NONE
<b>LABORATORIES</b>	REALIGN MINOR WORKLOAD	GAINERS: PICATINNY, MONMOUTH, REDSTONE, ADELPHI LOSERS: REDSTONE, RUCKER, ARI ADELPHI, ST LOUIS, PICATINNY	NONE MAY GAIN SOME WORK FROM AF AND NAVY
<b>UNDERGRADUATE PILOT TRAINING</b>	AF & NAVY LOSE 2&3 INSTALLATIONS; ARMY GAINS HEL UPT	GAINERS: RUCKER LOSERS: NONE	NONE MAY GAIN NAVY TRAINING
<b>MEDICAL</b>	AF LOSES 3 MEDCEN & 5 HOSPITALS; NAVY LOSES 2 HOSPITALS; ARMY LOSES 1 MEDCEN & 5 HOSPITALS	GAINERS: WALTER REED LOSERS: FITZSIMMONS, MEADE, BELVOIR, LEE, McCLELLAN, RUCKER	SUPPORTS FITZSIMMONS CLOSURE ADD LEE & MEADE REALIGNMENTS
<b>MAINTENANCE DEPOT</b>	NAVY LOSES 4-5 DEPOTS AF LOSES 1-2 DEPOTS ARMY LOSES 2 DEPOTS	GAINERS: ANNISTON, TOBYHANNA LOSERS: RED RIVER, LETTERKENNY, ANNISTON, TOBYHANNA, CORPUS CHRISTI	SUPPORTS LETTERKENNY AND RED RIVER CLOSURE



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# T&E JCSG SERVICE RECOMMENDATIONS



**COSTS (\$M)**

O&M	2	2	2	2	2
MILCON	13	2	34	13	28
OTHER	0	0	0	0	1
<b>TOTAL</b>	<b>15</b>	<b>4</b>	<b>36</b>	<b>15</b>	<b>31</b>

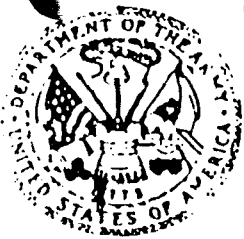
PAYBACK PERIOD (YEARS)	20	3	100+	43	100+
BREAK EVEN (YEAR)	2018	2002	2098+	2041	2098+
STEADY STATE SAVINGS (\$M)	1	1	1	1	1
(YEAR)	1999	1999	1999	1999	1999
20 YR NPV (\$M)	-2	16	-23	-7	-22

**PERSONNEL:**

ELIMINATIONS	30	30	30	19	19
REALIGNMENTS	59	59	59	65	65

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THE ARMY BASING STUDY



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## T&E JCSG SERVICE RECOMMENDATIONS (CONT)



	YUMA	WSMR	POINT MUGU NAVY	CHINA LAKE NAVY	EGLIN AF
	ARMAMENTS/ WEAPONS MEASUREMENT	ARMAMENTS/ WEAPONS MEASUREMENT	ARMAMENTS/ WEAPONS MEASUREMENT	ARMAMENTS/ WEAPONS MEASUREMENT	ARMAMENTS/ WEAPONS MEASUREMENT
	REDSTONE • RTTC	REDSTONE RTTC	REDSTONE RTTC	REDSTONE RTTC	REDSTONE RTTC
<b>COSTS (\$M)</b>					
O&M	1	1	1	1	.09
MILCON	37	37	0	17	0
OTHER	65	38	0	0	0
<b>TOTAL</b>	<b>103</b>	<b>76</b>	<b>1</b>	<b>18</b>	<b>.09</b>
<b>PAYBACK PERIOD (YEARS)</b>	NEVER	NEVER	NEVER	100+	100+
<b>BREAK EVEN (YEAR)</b>	NEVER	NEVER	NEVER	2098+	2098+
<b>STEADY STATE SAVINGS (\$M)</b>	-5	-.4	-.1	.1	.02
<b>(YEAR)</b>	1999	1999	1999	1999	1999
<b>20 YR NPV (\$M)</b>	-107	-76	-2	-14	-.06
<b>PERSONNEL:</b>					
ELIMINATIONS	0	8	0	0	0
REALIGNMENTS	47	39	47	47	3

\*RTTC - Redstone Technical Test Center

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THE ARMOR-BASING STUDY



# ANALYSIS SUMMARY

## TEST AND EVALUATION

- THREE BASIC ALTERNATIVES WERE EVALUATED - ALL WERE POOR FINANCIAL INVESTMENTS
  - OPEN TO OPEN INSTALLATION MOVES
  - RELATIVELY SMALL NUMBER OF PERSONNEL
  - DID NOT RESULT IN BASE CLOSURE
- ONGOING (NON-BRAC) INITIATIVE IMPLEMENTS TWO JCSG ALTERNATIVES TO YUMA

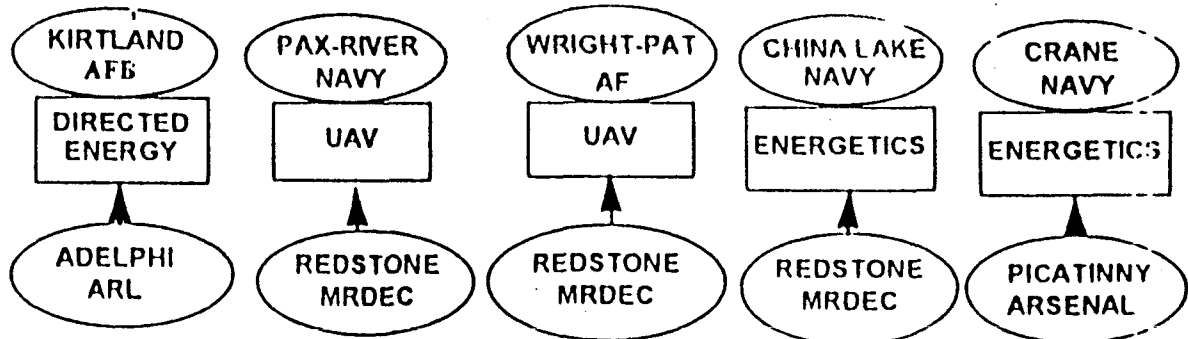
BOTTOM LINE

NO IMPACT ON CURRENT ARMY RECOMMENDATIONS



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# LABORATORY - JCSG SERVICE RECOMMENDATIONS



**COSTS (\$M)**

O&M	.3	2.5	2	8.22	3.55
MILCON	0	16.3	13	.28	0
OTHER	40	.178	13	.9	.15
<b>TOTAL</b>	<b>40.3</b>	<b>19</b>	<b>28</b>	<b>9.4</b>	<b>3.7</b>

PAYBACK PERIOD (YEARS)	100+	NEVER	100+	NEVER	45
BREAK EVEN (YEAR)	2098+	NEVER	2098+	NEVER	2043
STEADY STATE SAVINGS (\$M)	.3	-.4	.3	-.01	.14
(YEAR)	1999	1999	1999	1999	1999
<b>20 YR NPV (\$M)</b>	<b>-33</b>	<b>-25</b>	<b>-23</b>	<b>-9</b>	<b>-1.6</b>

**PERSONNEL:**

ELIMINATIONS	0	0	0	0	3
REALIGNMENTS	45	118	118	7	15

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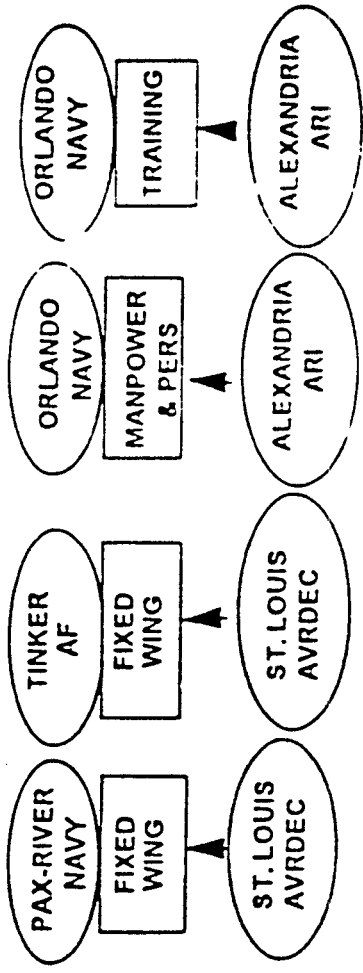
THE ARMY BASING STUDY





# LABORATORY - JCSG SERVICE RECOMMENDATIONS

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## COSTS (\$M)

O&M	.87	.78	1.2	.6
MILCON	0	0	0	0
OTHER	.07	.07	.4	.2
TOTAL	.94	1.85	1.6	.8

## PAYBACK PERIOD (YEARS)

NEVER NEVER NEVER NEVER

## BREAK EVEN (YEAR)

NEVER NEVER -0.04 1997 1997

## STEADY STATE SAVINGS (\$M) (YEAR)

-0.02 1999 -0.136 -0.5 1997 -0.4

## 20 YR NPV (\$M)

-0.3 -0.9

## PERSONNEL:

ELIMINATIONS 0 0

REALIGNMENTS 4 4 61 29

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## ANALYSIS SUMMARY LABORATORY

- SEVEN BASIC ALTERNATIVES WERE EVALUATED - ALL WERE POOR FINANCIAL INVESTMENTS
  - OPEN TO OPEN INSTALLATION MOVES
  - RELATIVELY SMALL NUMBER OF PERSONNEL
  - DID NOT RESULT IN BASE CLOSURE
- PICATINNY UNLIKELY TO GAIN NAVY AND AF WORKLOAD
- FT MONMOUTH LIKELY TO GAIN AF AND NAVY WORKLOAD

### BOTTOM LINE

NO IMPACT ON CURRENT ARMY RECOMMENDATIONS



CLOSEHOLD / SENSITIVE

# Joint Cross-Service Working Group MEDICAL



	FITZSIMONS ARMY MED CTR	LEE KENNER HOSPITAL	McCLELLAN NOBLE HOSPITAL
<b>COSTS (\$M)</b>			
O&M	37	1.8	1.9
MILCON	103	0	0
OTHER	5	0.3	0.2
<b>TOTAL</b>	<b>145</b>	<b>2.1</b>	<b>2.1</b>
<b>RECURRING CHAMPUS COST (\$M)</b>	<b>\$49/YR</b>	<b>\$5.7/YR</b>	<b>\$5.6/YR</b>
<b>PAYBACK PERIOD (YEARS)</b>	<b>3</b>	<b>1</b>	<b>1</b>
<b>BREAK EVEN (YEAR)</b>	<b>2003</b>	<b>1997</b>	<b>1997</b>
<b>STEADY STATE SAVINGS (\$M)</b>	<b>37</b>	<b>3.8</b>	<b>4.0</b>
<b>(YEAR)</b>	<b>2001</b>	<b>1997</b>	<b>1997</b>
<b>20 YR NPV (\$M)</b>	<b>327</b>	<b>51</b>	<b>56</b>

**PERSONNEL:**

ELIMINATIONS  
REALIGNMENTS

MIL	CIV
0	1309
1069	301

MIL	CIV
99	106
0*	0*

MIL	CIV
98	109
0	0

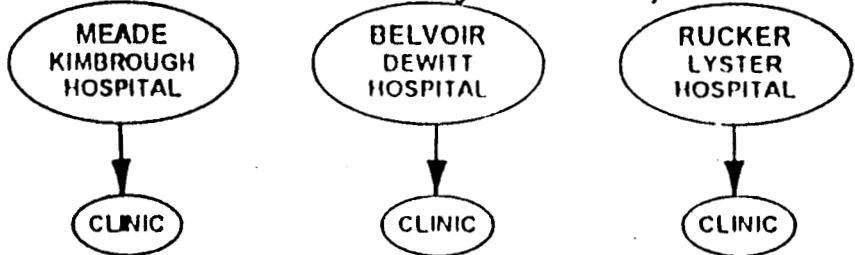
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THE ARMY BASING STUDY



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# Joint Cross-Service Working Group MEDICAL



COSTS (\$M)	MEADE KIMBROUGH HOSPITAL	BELVOIR DEWITT HOSPITAL	RUCKER LYSTER HOSPITAL
O&M	1.3	1.4	1.2
MILCON	0	0	0
OTHER	0.4	0.1	0.1
TOTAL	1.7	1.6	1.4
RECURRING CHAMPUS COST (\$M)	\$2.9/YR	\$23.6/YR	\$6.3/YR
PAYBACK PERIOD (YEARS)	1	NEVER	NEVER
BREAK EVEN (YEAR)	1997	NEVER	NEVER
STEADY STATE SAVINGS (\$M)	3.5	-16.5	-0.5
(YEAR)	1997	1997	1997
20 YR NPV (\$M)	49	-259	-12

PERSONNEL:	MIL		CIV		MIL		CIV		MIL		CIV	
	ELIMINATIONS	REALIGNMENTS	ELIMINATIONS	REALIGNMENTS	ELIMINATIONS	REALIGNMENTS	ELIMINATIONS	REALIGNMENTS	ELIMINATIONS	REALIGNMENTS	ELIMINATIONS	REALIGNMENTS
ELIMINATIONS	55	74	65	76	77	62	0	0	0	0	0	0
REALIGNMENTS	0	0	0	0	0	0	0	0	0	0	0	0

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THE ARMY DAGING STUDY



## ANALYSIS SUMMARY MEDICAL

- CLOSURE OF FITZSIMMONS CONSISTENT WITH ARMY RECOMMENDATION
- RECOMMENDATION TO REALIGN FT LEE AND MEADE HOSPITALS SUPPORTABLE
- CLOSE FT McCLELLAN HOSPITAL IAW ARMY RECOMMENDATION
- REJECT FT RUCKER AND FT BELVOIR ALTERNATIVES DUE TO COST AND OPERATIONAL IMPACTS

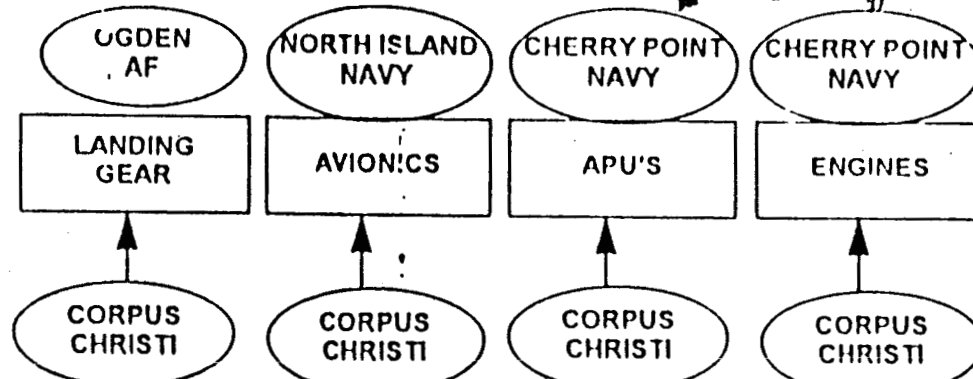
### BOTTOM LINE

NEED TO ADD TWO REALIGNMENT RECOMMENDATIONS  
TO THE CURRENT ARMY PACKAGE



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# Joint Cross-Service Working Group DEPOT



COSTS (\$M)

O&M	.16	.076	.057	2.8
MILCON	0	0	0	1.86
OTHER	.01	.006	.006	.09
<b>TOTAL</b>	<b>.17</b>	<b>.08</b>	<b>.06</b>	<b>3.8</b>

PAYBACK PERIOD (YEARS)	7	0	0	1
BREAK EVEN (YEAR)	2003	1996	1996	2000
STEADY STATE SAVINGS (\$M)	.03	.2	.2	2.9
(YEAR)	2004	1997	1997	2001
<b>20 YR NPV (\$M)</b>	<b>.3</b>	<b>3.1</b>	<b>3.0</b>	<b>32.8</b>

PERSONNEL:

ELIMINATIONS	0	4	4	53
REALIGNMENTS	7	0	0	75

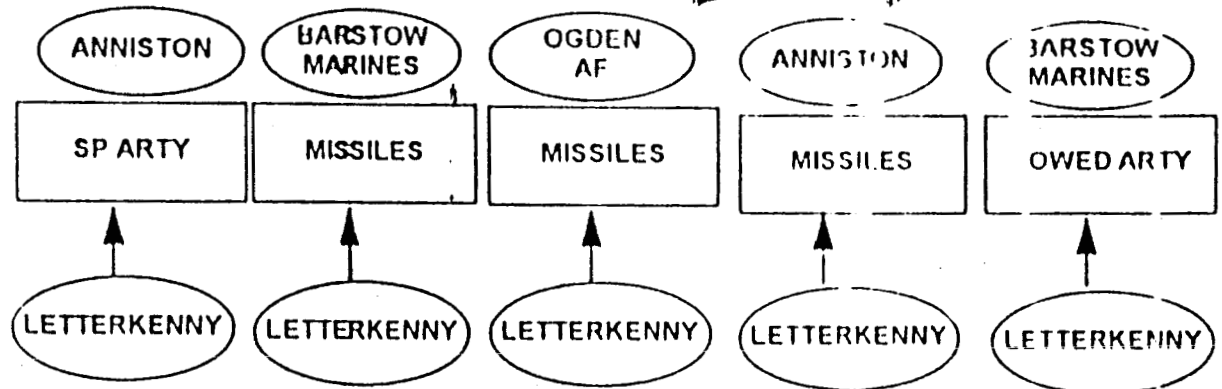
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THE ARMY BASING STUDY



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# Joint Cross-Service Working Group DEPOT



**COSTS (\$M)**

O&M	5.5	.76	1.4	5.19	.737
MILCON	0	0	.4	18.37	0
OTHER	.2	.03	.09	.2	.02
<b>TOTAL</b>	<b>6.1</b>	<b>.8</b>	<b>1.9</b>	<b>23.8</b>	<b>.75</b>

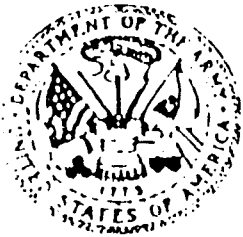
PAYBACK PERIOD (YEARS)	9	9	7	58	3
BREAK EVEN (YEAR)	2006	2005	2004	2054	1999
STEADY STATE SAVINGS (\$M)	1	.1	.3	.8	.3
(YEAR)	2007	2006	2006	2054	2000
20 YR NPV (\$M)	6.1	.8	1.9	-11.4	3.0

**PERSONNEL:**

ELIMINATIONS	0	0	0	0	3
REALIGNMENTS	258	30	56	239	23

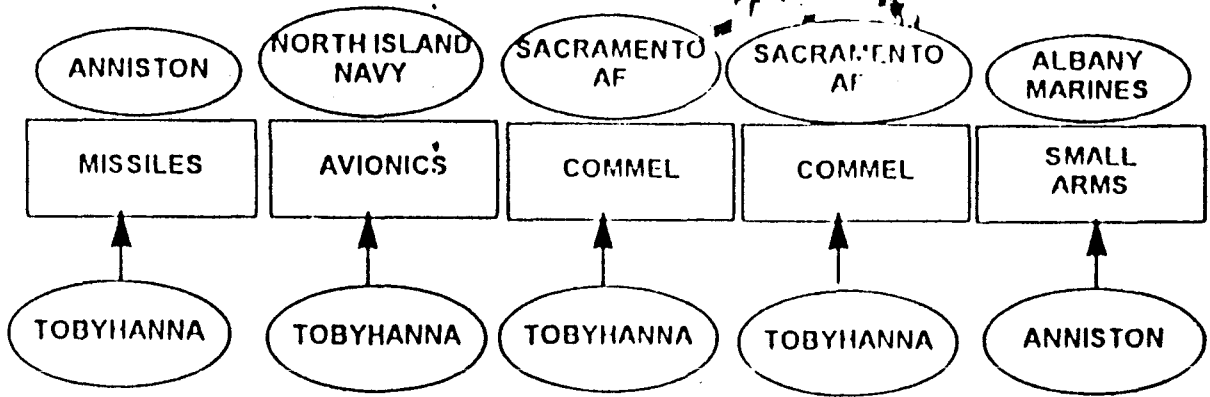
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THE ARMY BASING STUDY



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# Joint Cross-Service Working Group DEPOT



**COSTS (\$M)**

O&M	.8	4.2	1.4	.1	2.7
MILCON	4.7	0	.4	.6	.3
OTHER	.04	.2	.1	.01	.2
<b>TOTAL</b>	<b>5.7</b>	<b>4.4</b>	<b>1.9</b>	<b>.7</b>	<b>3.2</b>

PAYBACK PERIOD (YEARS)	100+	7	5	100+	5
BREAK EVEN (YEAR)	100+	2007	2002	100+	2003
STEADY STATE SAVINGS (\$M)	.2	.4	.4	.005	.8
(YEAR)	1997	1999	1998	1997	2004
20 YR NPV (\$M)	-3.2	2.4	4.1	-.6	6.6

**PERSONNEL:**

ELIMINATIONS	0	18	5	0	13
REALIGNMENTS	37	150	49	5	131

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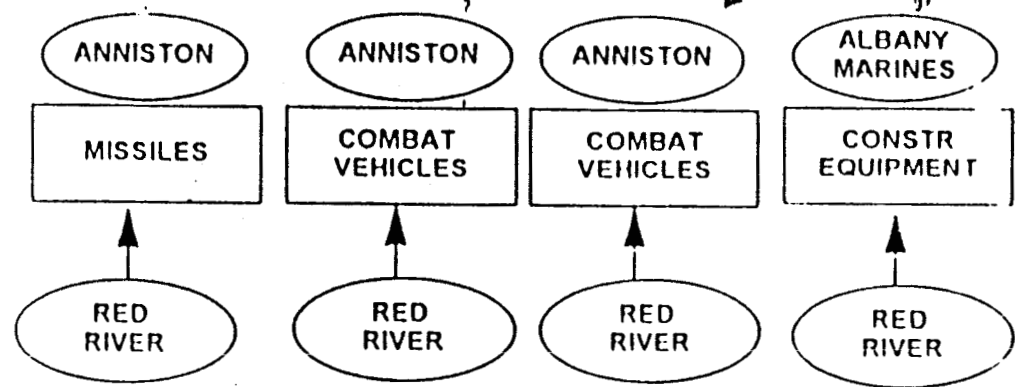
THE ARMY BASING STUDY





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# Joint Cross-Service Working Group DEPOT



COSTS (\$M)

O&M	.8	14.6	1.3	.2
MILCON	5.1	10.0	5.0	0
OTHER	.06	1.1	.1	.02
<b>TOTAL</b>	<b>6.0</b>	<b>25.7</b>	<b>6.4</b>	<b>.2</b>

PAYBACK PERIOD (YEARS)	60	11	45	0
BREAK EVEN (YEAR)	2056	2007	2041	1996
STEADY STATE SAVINGS (\$M)	.2	3	.3	.6
(YEAR)	2052	2008	2037	1997
20 YR NPV (\$M)	-208.0	17.8	-2.5	8.8

PERSONNEL:

ELIMINATIONS	0	0	0	11
REALIGNMENTS	36	708	66	0

CLOSEHOLD / SENSITIVE

THE ARMY BASING STUDY



## ANALYSIS SUMMARY

### MAINTENANCE DEPOT

- ACCEPT JCSG RECOMMENDATION ON CLOSURE OF LETTERKENNY AND RED RIVER
- ARMY INCORPORATED OVER 50% OF JCSG-DM ALTERNATIVES - IN TOTAL OR WITH MODIFICATION
- TOBYHANNA, CORPUS CHRISTI, AND ANNISTON WORKLOAD PACKAGES NOT INCLUDED DUE TO:
  - OPEN TO OPEN SCENARIOS
  - OPERATIONAL IMPACTS
  - MISSION COSTS OUT WEIGH RELOCATION COSTS
- OTHER CONCERNS:
  - FUNDED NON-CORE WORKLOAD ELIMINATED AND CONTRACTED OUT
  - INCREASES OTHER MEIDEP DEPOT EFFICIENCY AT EXPENSE OF THE ARMY
  - PAST SERVICE MAINTENANCE COMPETITIONS NOT CONSIDERED
- UNLIKELY OTHER SERVICE WORKLOAD WILL TRANSFER TO ARMY DEPOTS

#### BOTTOM LINE

ARMY RECOMMENDATION IMPROVES JCSG-DM ALTERNATIVE



CLOSEHOLD/SENSITIVE

# SUMMARY

- PROPOSED CHANGES TO CURRENT ARMY RECOMMENDATIONS
  - ADD PROJECT RELIANCE REDIRECT
  - ADD REALIGNMENT OF FT LEE HOSPITAL TO CLINIC
  - ADD REALIGNMENT OF FT MEADE HOSPITAL TO CLINIC
- THE FOLLOWING FINANCIAL CHANGES OCCUR:

	<u>CURRENT</u>	<u>PROPOSED</u>
1-TIME COST (\$B)	\$1.1	\$1.1
RECURRING STEADY STATE SAVINGS (\$M)	\$723	\$730
RETURN ON INVESTMENT		
# OF YEARS	IMMEDIATE	IMMEDIATE
YEAR	2000	2000
20 YEAR NET PRESENT VALUE (\$B)	\$8.1	\$8.2

CLOSEHOLD/SENSITIVE

III ARMY HHSING STUDY

# Document Separator

**CLOSE HOLD - FOR OFFICIAL USE ONLY - BRAC SENSITIVE**

**ISSUE**

The Army's proposal to move its Test Battalion from Fort Hunter-Liggett (FHL) to Ft. Bliss would de facto "close" FHL and remove its capabilities from operational test use.

**RATIONALE**

1. The TEXCOM Experimentation Center (TEC), located at Fort Hunter-Liggett, California, has the unique capability to provide a total test/experimentation package. TEC's isolated location provides unequaled access to extremely versatile training areas with a wide variety of weather and terrain conditions, controlled airspace to 24,000 feet, a 360 degree high energy laser play area, isolation from ambient light, and minimal radio frequency (RF) interference.
2. The terrain at FHL resembles Korea and is unlike that in any of the desert test ranges. Its diverse terrain features -- mountains, hills, rivers, creeks and lakes -- were the reason FHL was selected as a field laboratory site in 1957 and FHL remains a unique asset today. For example, operational testing prior to the final IOT&E of the SGT YORK was at Ft. Bliss where only flat terrain was encountered. In the IOT&E at FHL the valley walls caused ground clutter breakthrough which rendered the radar useless. Also, FHL has a unique capability -- a natural 360 degree "bowl" -- and the necessary state permits -- to test high power military lasers. Recent Longbow Apache tests at FHL required this capability, revealing important limitations in modeling and simulation.
3. By moving to Ft. Bliss a further test restriction would be created. Radio frequency jamming essential to creating a realistic test environment in a location that is close to large metropolitan areas, international airports, and an international border will be difficult to recreate and will increase risks of not having an adequate test environment.
4. Operating temporarily at FHL with mobil assets will be more expensive. Just four years ago in March 1991, all of TEC's command, staff and operational functions were consolidated at FHL because operating in temporary duty status was too expensive. The projected savings reflected in the Army's submission, the reduction of 17 military and 5 federal civilians, would be trivial when considering giving up this valuable and important operational test capability.

**RECOMMENDATION**

Army withdraw proposal to move its test Battalion from Fort Hunter-Liggett to Ft. Bliss.

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## CLOSE HOLD - FOR OFFICIAL USE ONLY - BRAC SENSITIVE

### ISSUE

The Army's proposal to realign Dugway Proving Grounds to relocate the "chemical-biological research" mission to Aberdeen/Edgewood should be challenged, and the alternative of relocating the chem-bio mission from Aberdeen/Edgewood to Dugway investigated. And rationale for relocating the smoke-obscurant mission to Yuma Proving Grounds is not clear.

### RATIONALE

1. Dugway occupies valuable land and airspace to the test and evaluation mission that can't be conducted elsewhere without high risks of environmental and security compromise, and needs to be preserved as a national asset for such purposes. Test missions ranging from electronic combat, cruise missiles, high performance aircraft, munitions and armament delivery, and artillery, as well as chemical-biological testing, are typically conducted at this location because of its unique geographic features.
2. Moving levels 2 and 3 chemical-biological agent "research" to Aberdeen\Edgewood is high risk. Edgewood is in and near highly populated areas (including Baltimore), as well as near major bodies of water (Chesapeake Bay), where accidents or miscalculations can result in environmental impact with little chance for timely control.
3. Costs to duplicate at Edgewood the recently constructed new facilities and capabilities that are at Dugway will be an unnecessary tax burden. Other facilities at Edgewood would likewise have to undergo major repairs at additional costs.
4. Differentiation between "research" and testing is not identified in the write-up. By Memorandum of Agreement between all three Military Departments under T&E Reliance, Dugway is the site where all DoD testing of chem-bio programs will be tested - Agreement by the other Military Departments would be required along with agreement that all of their requirements can be satisfied at Edgewood.

### RECOMMENDATION

Army withdraw proposal to change status of Dugway, and instead develop proposal to relocate and consolidate all chem-bio testing and research activities to Dugway.

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## 2.0 Capacity & Technical

- 2.1.A.1 See Historical Workload Form.
- 2.1.B.1 Data not available to TEC.
- 2.1.B.2 See Historical Workload Form.
- 2.2.A See Determination of Unconstrained Capacity Form.
- 2.2.B The capacity is limited by technical difficulties of conducting more than one RTCA force-on-force test at a time and by physical size of the range.
- 2.3.A No war-time or contingency role established in approved war plans.
- 2.3.B Yes. TEC is the primary tenant on the host installation, Fort Hunter Liggett (FHL). Without TEC's presence, the host installation would have no test mission. Without a replacement tenant, the host installation would not be a sustainable training location.
- 2.3.B.1 Yes. Tests currently executed at Fort Hunter Liggett would have to be transferred to another installation. Fort Hunter Liggett is one of a very small number of installations world-wide where tests requiring free-play force-on-force with non-eyesafe lasers can be conducted. Additionally, terrain features which provide a natural backstop during laser use and Fort Hunter Liggett's isolation from densely populated or industrial areas provide protection against outside electromagnetic intrusion and allow a greater flexibility in frequency assignments.
- Customers: No. Customers would be required to test on other installations.
- 2.3.B.2 No.

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## 3.1 Over-Arching Measures of Merit

- 3.1.A.1 0%.
- 3.1.A.2 Not applicable.
- 3.1.B See Facility Condition Form.
- 3.1.C.1 Yes. Current limitations exist for the type and length of use of smoke and obscurants. A limited portion of the installation is restricted to protect Kit Fox during mating season (January through March) and for protection of historical and archeological sites.
- 3.1.C.2 Environmental restrictions do not limit workload, only flexibility of field testing.
- 3.1.C.3 No.
- 3.1.C.4 Total population figures are as follows:
  - Within 50 miles: 12,000.
  - Within 100 miles: 1,560,000.
  - Within 150 miles: 7 million (approx.).
  - Within 200 miles: 10 million (approx.).
- 3.1.C.5 There are no commercial air/land/sea traffic routes affecting Fort Hunter Liggett. However, there are approximately 250 commercial airline overflights daily which may be redirected with sufficient coordination with the FAA.
- 3.1.C.5.A No test missions have been cancelled canceled due to commercial or public use activities on or near Fort Hunter Liggett.
- 3.1.C.6 No test missions have been cancelled due to encroachment during the last two years.
- 3.1.D.1 TEC has specialized computer facilities as well as extensive instrumentation fabrication and maintenance facilities required to support conduct of instrumented force-on-force testing at Fort Hunter Liggett or elsewhere.
- 3.1.D.2 Though sometimes used at Fort Hunter Liggett, specialized targets are not required to support TEC.

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- 3.1.E.1 Yes. Fort Hunter Liggett has highly varied terrain which has proven useful for sensor testing in the past. The fact that access to Fort Hunter Liggett ranges can be tightly controlled had proven to be of benefit in previous testing.
- 3.1.E.1.A Fort Hunter Liggett could accept additional workload in developmental or science and technology testing, though not in the T&E functional areas narrowly defined by this data call.
- 3.1.E.2 Yes. Increased use could be made of nearby Camp Roberts, and the U.S. Forest Service has been very cooperative in allowing use of airspace over the adjacent National Forest for helicopter operations.
- 3.1.E.3 Yes. Fort Hunter Liggett has been used in the past for testing of systems requiring special access.
- 3.1.E.4 No.
- 3.1.F.1 Fort Hunter Liggett has terrain variety, frequency availability, and laser-safe (hot tactical laser) playing capability not currently available elsewhere within the US.
- 3.1.F.2 Not directly, but the Marines participated heavily in JAVELIN testing in 1993 and they could make greater use of TEC and Fort Hunter Liggett. Navy SEALs have also used Fort Hunter Liggett ranges in the past.
- 3.1.G.1 Fort Hunter Liggett has an approximate land mass of 265 square miles. Since the terrain is mountainous, armor cannot be used in all training areas, but there is an extensive road and trail network which provides experimentation sites with multiple avenues of engagement. The terrain is representative of Northwest Asia or Central Europe.
- 3.1.G.2 Fort Hunter Liggett has approximately 185 square miles of restricted airspace (R-2513), owned and controlled by the installation up to 8,000 feet.
- 3.1.G.3 Restricted airspace above the 185 square miles at Fort Hunter Liggett can be extended from ground to 24,000 feet with coordination through Oakland Center.
- 3.1.G.4 No special use airspace.
- 3.1.G.5 All airspace over land.

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- 3.1.G.6 No known or projected airspace problems would prevent accomplishing TEC's mission.
- 3.1.G.7 The maximum straight line segment in our airspace is 19 nautical miles.
- 3.1.G.8 National Forest lands (Los Padres National Forest) and adjacent private lands have been overflowed by helicopters and fixed wings in previous force-on-force tests (no live fire). It is anticipated that similar profiles could be flown in future tests.
- 3.1.H.1 The topography and ground cover/vegetation at Fort Hunter Liggett consists of lightly forested mountains and valleys.
- 3.1.H.2 Restrictions in trafficability at Fort Hunter Liggett are typical of many mountainous regions of the world. Armor cannot reach all points on Fort Hunter Liggett, and trafficability can deteriorate during the rainy season (January-April).
- 3.1.H.3 No.
- 3.1.H.4 The number of days per year the average temperature is below 32 degrees F is less than 1. The number of days per year the average temperature is between 32 and 95 degrees F is 365. The number of days per year the average temperature is above 95 degrees F is 0. (Based on data for 1964-1993.)
- 3.1.H.5 The number of days per year the average relative humidity is below 30% is 35. The number of days per year the average relative humidity is between 30% and 80% is 283. The number of days per year the average relative humidity is above 80% is 46. (Based on data for 1987-1993.)
- 3.1.H.6 No test missions were canceled due to weather from 1985-1993.
- 3.1.H.7 No test days were canceled due to weather from 1985-1993.
- 3.1.H.8 The number of days per year the visibility is less than 1 mile is 14. The number of days per year the visibility is between 1 and 3 miles is 18. The number of days per year the visibility is greater than 3 miles is 333. (Based on surface observations 1982-

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1993.)

- 3.1.H.9 Not applicable. No flight testing is conducted at Fort Hunter Liggett, only operational testing.
- 3.1.H.10 Test operations at Fort Hunter Liggett are not restricted by weather. However, operations in MOPP IV gear can be limited by WBGT in the summer, and armor operations may have trafficability limitations from November through March.

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## 3.2 Air Vehicles

- 3.2.A.2 No supersonic corridors exist at Fort Hunter Liggett.
- 3.2.A.2-6 Not applicable since supersonic corridors do not exist at Fort Hunter Liggett.
- 3.2.B.1 Airfield and support facilities at Fort Hunter Liggett (TUSI AAF) consist of the following:
- 36 helicopter aircraft pads
  - 500 x 50 ft. asphalt lighted runway
  - Lighted wind sock
  - An approved Copter Nondirectional Beacon 300 approach
  - Prepared tower location
  - Prepared hot refueling area
  - Prepared hazardous waste collection point
  - Operations 24 hours per day, 7 days per week
- 3.2.B.2 Fort Hunter Liggett has an emergency unimproved runway (Schoonover Airstrip) approximately 2.5 miles from TUSI AAF.
- 3.2.B.3 TUSI AAF is located in the center of the operational test areas at Fort Hunter Liggett, within the installation cantonment area.
- 3.2.B.4 TUSI AAF is particularly well suited for supporting test operations because of its close proximity to the test and engagement areas.
- 3.2.B.5 TUSI AAF is classified as a Heliport with minimum support facilities available and limited fixed hanger space.
- 3.2.B.6 Fort Hunter Liggett is not well-suited for support of fixed-wing aircraft except perhaps UAV. Schoonover Airstrip is used by Guard and Reserve and active duty C-130 aircraft for field tactical training. Approximately 36 rotor wing aircraft can be supported at TUSI AAF. Cruise missiles cannot be supported at Fort Hunter Liggett.
- 3.2.C.1 Fort Hunter Liggett is not suited for technical testing of air vehicles. Historically it has proven to be an excellent location for operational testing of close air support aircraft.

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- 3.2.C.2 No special facilities for pre-flight checkout or rehearsal of test missions exist at Fort Hunter Liggett.
- 3.2.C.3 Fort Hunter Liggett can support 36 helicopters during force-on-force testing, supplemented by 3 sets of 2-aircraft sorties of close air support or attack fixed-wing aircraft.
- 3.2.C.4 UAV and rotary wing operations are the primary missions flown at Fort Hunter Liggett.
- 3.2.C.5 Air-to-ground force-on-force missions have been flown frequently at Fort Hunter Liggett. Any live firings of air-to-ground weapons occurred prior to 1986.
- 3.2.C.6 "Telemetry" at Fort Hunter Liggett is limited to instrumented data collection supporting Real Time Casualty Assessment (RTCA). Currently, about 150 players is the maximum which can be instrumented.
- 3.2.C.7 Fort Hunter Liggett can currently support one RTCA test at a time. Within that test 3 sets of 2-aircraft sorties can be supported.
- 3.2.C.8 No aircraft are currently stationed at Fort Hunter Liggett.

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GENERAL INFORMATION

Facility/Capability Title: TEXCOM Experimentation Center  
Origin Date 6/6/94

Service: A Organization/Activity: TEC Location: Fort  
Hunter Liggett

T&E Functional Area: Air Vehicles UIC: W3Q225

T&E Test Facility Category: OAR  
=100% T&E S&T DE IE T&D OTHER

PERCENTAGE USE: 61.53% 21.43% 17.05%

Based on Historical Workload FY 86-93

Breakout by T&E Functional Area(%):

OTHER 56.22% 21.43% 17.05%  
Air Vehicle 5.31%  
Force-On-Force

Line Total in Breakout Must Equal "Percentage Use" On First

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## TECHNICAL INFORMATION

FACILITY/CAPABILITY TITLE: TEXCOM Experimentation Center (TEC)

Facility Description, including mission statement: The mission of TEC is to

- o Conduct high quality field experiments and tests in a unique test environment using very precise instrumentation
- o Provide high resolution data for model simulation/war games
- o Test options for system development, and verify proposed solution to system development challenges
- o Develop test instrumentation

TEC and Fort Hunter Liggett provide a highly instrumented test range especially suited to high resolution force-on-force experimentation.

Interconnectivity/Multi-Use of T&E Facility: TEC sometimes shares instrumentation with other DOD T&E facilities.

Type of Test Supported: Operational tests - especially force-on-force test using Real-Time Casualty Assessment (RTCA), and force development tests. TEC also performs or supports other field tests.

Summary of Technical Capabilities: TEC has approximately \$42M of computerized instrumentation used in RTCA and a 54,800 square foot facility for developing, fabricating, and maintaining RTCA instrumentation.

Keywords: RTCA, OTE, FDTE

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## FACT SHEET

### TEXCOM Experimentation Center

1. The TEXCOM Experimentation Center, located at Fort Hunter Liggett, California, has the unique capability to provide a total test/experimentation package. It possesses on-site capabilities required for comprehensive test/experiment execution: an instrumentation system for real time casualty assessment, an experimentation battalion of trained armor/mechanized infantry soldiers with operational equipment, a data collection/reduction/assessment capability, and appropriate logistics support. It possesses the expertise and facilities to evaluate materiel, doctrine, tactics, training, and organization in a real world operational environment.

2. As a battlefield laboratory, TEC has experience in a broad variety of combat and combat support missions. Its civilian work force, a combination of Department of the Army civilians and contractor personnel, possesses years of experience in innovative operational testing and experimentation and is integrated with an outstanding military cadre. TEC's high performing team is capable of expert test planning, effective test execution, and offers a future vision of improved test instrumentation. The highly trained experimentation battalion (Armor/Mechanized) provides subordinate elements which are capable of executing both friendly and enemy tactics. The instrumentation development and fabrication facility possesses a unique ability to design, modify, and fabricate instrumentation to meet test needs almost over night.

3. TEC's isolated location provides unequalled access to extremely versatile training areas with a wide variety of weather and terrain conditions, controlled airspace to 24,000 feet, a 360 degree high energy laser play area, isolation from ambient light, and minimal radio frequency (RF) interference. Its location also provides a test location in which to conduct independent operational tests much like the National Training Center provides an independent training facility for the US Army. Additionally, the Fort Hunter Liggett training area provides a C-130 capable dirt airstrip, a Multipurpose Range Complex (MPRC) for tank gunnery, and personnel and equipment drop zones for airborne operations. In proximity to Fort Hunter Liggett is Lemoore Naval Air Station for high performance aircraft staging and a C-5A capable runway, the Fort Ord Military Operations in Urban Terrain (MOU) site, and additional maneuver area and a railhead on the California Army National Guard installation at Camp Roberts (which is connected to Fort Hunter Liggett by tank trail).

4. TEC's greatest asset/attribute is its flexibility to quickly

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respond to customer specific tests and off-cycle test requirements. This can be accomplished because of the unique capabilities described above.

5. TEC's diverse, unique, and cost effective instrumentation capability provides a long term benefit to the US Army. This instrumentation capability is currently renowned for Real Time Casualty Assessment (RTCA) applications during Operational Tests; however, there are many other aspects being developed that will lead the way toward future cost savings and technical efficiencies.

6. Force on Force RTCA testing using TEC instrumentation has evolved over the years into an exceptionally adaptive and responsive capability. Current development incorporates Global Positioning System (GPS) applications for test player location. This allows an expanded realistic battlefield environment to be created, in which soldiers employ new weapons systems or technologies. A component based approach has proven successful in the creation and employment of the instrumentation inventory. This enables the tailoring of the instrumentation suite to meet the unique data collection requirements set forth for each test. Modification, replacement, interfacing, programming, or upgrading decisions are done at the component level, which constrains risk, reduces cost, and increases responsiveness.

7. Development work is currently underway to expand the TEC instrumentation capability into the world of modeling and simulation. TEC has recently been involved in a tri-service project entitled Environmental Effects for Distributed Interactive Simulation (E2DIS). This project centers around the unique capability to quantify environmental effects on weapon systems. It links Fort Hunter Liggett into the DIS network, resulting in the potential for significant cost savings. Twenty years of historical data on Army sensors tested in field conditions against Fort Hunter Liggett terrain and various threat arrays exists, which can be compared with models. There is a unique one meter resolution data base of every feature in the exercise area, with which field data can be rigorously analyzed. There is a system which interfaces simulation with field exercises in real time, forming a "Bridge to Reality." The most significant capability is that simulation validation can be improved from one-on-one acquisition scenarios to full scale Force on Force, where analysis is carried through to full combat effectiveness.

8. In summary, TEC and Fort Hunter Liggett are a special combination of personnel, terrain, and technology that contributes significantly to the Army and Defense mission. This capability ensures both the accomplishment of cost effective experimentation and testing in an operational environment and the appropriate link of simulations and models to actual field exercises for realism and validation.

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ADDITIONAL INFORMATION

Facility/Capability Title: TEXCOM Experimentation Center (TEC)

Personnel

	FY93	FY94	FY95	FY96	FY97	FY98	FY99
Officer	56	56	43	40	35	24	24
Enlisted	382	382	324	210	180	157	157
Civilian	72	72	64	43	42	24	24
Contractor	166	166	UNK	UNK	UNK	UNK	UNK
TOTAL	676	676	431+	293+	257+	205+	205+

Total Square Footage: 381,416  
 Office Space Square Footage: 153,525  
 Test Area Square Footage: N/A (Open Air Range)  
 Volume of Equipment: 1,000,000 cf  
 Tonnage of Equipment: 3200 tons  
 Estimated Moving Cost: Unknown  
 Annual Maintenance Cost: \$2.4M

CAPITAL EQUIPMENT INVESTMENT

FY93	FY94	FY95	FY96	FY97	FY98	FY99
\$1.3M	\$1.4M	\$3.0M	\$3.3M	\$3.0M	UNK	UNK

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FACILITY CONDITION

Facility/Capability Title: TEXCOM Experimentation Center (TEC)  
(Provided by Fort Hunter Liggett Installation)

AGE: 54 Replacement Value: NOT KNOWN

MAINTENANCE AND REPAIR BACKLOG: \$6M

DATE OF LAST UPGRADE: 1994

NATURE OF LAST UPGRADE: SEWER/ELECTRICAL

MAJOR UPGRADES PROGRAMMED

1. UPGRADE TITLE: Primary electrical

Total programmed amount: Not Known  
Summary Description:

2. UPGRADE TITLE:

Total programmed amount:  
Summary description:

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HISTORICAL WORKLOAD

Facility/Capability Title: TEXCOM Experimentation Center (TEC)

FISCAL YEAR

		86	87	88	89	90	91	92	93
OTHER T&E	DIRECT LABOR	389492	58904	509712	166788	374112	425674	963112	73660
	TEST HOURS	1908	336	2000	820	1080	1330	2520	580
	MISSIONS								
OTHER AIR VEHICLE FORCE-ON-FORCE	DIRECT LABOR	0	149248	0	0	0	0	0	0
	TEST HOURS	0	528	0	0	0	0	0	0
	MISSIONS								

Based on direct labor hours expended during test only  
(Government, Contractor and Player hours included)

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HISTORICAL WORKLOAD

Facility/Capability Title: TEXCOM Experimentation Center (TEC)

FISCAL YEAR

		86	87	88	89	90	91	92	93
OTHER T&E	DIRECT LABOR	665812	112344	830832	425188	663872	629834	1045032	104860
	TEST HOURS	1908	336	2000	820	1080	1330	2520	580
	MISSIONS								
OTHER AIR VEHICLE FORCE-ON-FORCE	DIRECT LABOR	0	225408	0	0	0	0	0	0
	TEST HOURS	0	528	0	0	0	0	0	0
	MISSIONS								

Based on direct labor hours expended before, during, and after test (Government, Contractor and Player hours included)

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DETERMINATION OF UNCONSTRAINED CAPACITY

FACILITY/CAPABILITY TITLE: TEXCOM Experimentation Center (TEC)

ANNUAL HOURS OF DOWNTIME: 1 0  
 AVERAGE DOWNTIME PER DAY (LINE 1+365) 2 0  
 AVERAGE HOURS AVAILABLE PER DAY (24-LINE 2) 3 24

TEST TYPES	TESTS AT ONE TIME	WORKLOAD PER TEST FACILITY HOUR	WORKLOAD PER FACILITY HOUR
4	5	6*	7*
FORCE ON-FORCE	1	296.56	296.56
OTHER	2	176.41	352.82

\* Based on direct labor hours expended during test only.

Line 7: Total = 649.38  
 Line 8: Unconstrained = 15,585.12  
 Line 9: Annual Unconstrained Capacity = 5,688,568.80

DETERMINATION OF UNCONSTRAINED CAPACITY

FACILITY/CAPABILITY TITLE: TEXCOM Experimentation Center (TEC)

ANNUAL HOURS OF DOWNTIME: 1 0  
 AVERAGE DOWNTIME PER DAY (LINE 1+365) 2 0  
 AVERAGE HOURS AVAILABLE PER DAY (24-LINE 2) 3 24

TEST TYPES	TESTS AT ONE TIME	WORKLOAD PER TEST FACILITY HOUR	WORKLOAD PER FACILITY HOUR
4	5	6*	7*
FORCE ON-FORCE	1	453.33	453.33
OTHER	2	341.90	683.80

\* Based on direct labor hours expended before, during and after test.

Line 7: Total = 1,137.13  
 Line 8: Unconstrained = 27,291.12  
 Line 9: Annual Unconstrained Capacity = 9,961,258.80

# Document Separator



Department : ARMY  
 Option Package : MT5-2  
 Scenario File : C:\COBRA95\ARMY\MT5-2.CBR  
 Std Fctrs File : C:\COBRA95\ARMY\SF7DEC.SFF

*Fort Hunter Liggett  
 California*

Starting Year : 1996  
 Final Year : 1998  
 ROI Year : 1999 (1 Year)

NPV in 2015(\$K): -64,367  
 1-Time Cost(\$K): 6,486

Net Costs (\$K)	Constant Dollars						Total	Beyond
	1996	1997	1998	1999	2000	2001		
MilCon	0	0	0	0	0	0	0	0
Person	0	0	-712	-1,379	-1,379	-1,379	-4,848	-1,379
Overhd	608	456	1,034	-4,101	-4,101	-4,101	-10,205	-4,101
Moving	0	0	3,104	0	0	0	3,104	0
Misio	0	0	0	0	0	0	0	0
Other	0	0	205	0	0	0	205	0
<b>TOTAL</b>	<b>608</b>	<b>456</b>	<b>3,631</b>	<b>-5,480</b>	<b>-5,480</b>	<b>-5,480</b>	<b>-11,745</b>	<b>-5,480</b>

	1996	1997	1998	1999	2000	2001	Total
<b>POSITIONS ELIMINATED</b>							
Off	0	0	2	0	0	0	2
Enl	0	0	15	0	0	0	15
Civ	0	0	5	0	0	0	5
TOT	0	0	22	0	0	0	22

*> 17 ✓*

<b>POSITIONS REALIGNED</b>							
Off	0	0	50	0	0	0	50
Enl	0	0	326	0	0	0	326
Stu	0	0	0	0	0	0	0
Civ	0	0	80	0	0	0	80
TOT	0	0	456	0	0	0	456

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Summary:

Close Ft. Hunter Liggett, Ca.  
 Move all Army and tenant organizations to Base 7 and Ft. Bliss.  
 EIP civilians that support Garrison.  
 Maintain all ranges and training land for RC training.  
 THERE IS NO NG OR AR UNITS ON FT HUNTER LIGGETT, CA.  
 Removed W12K1A from total Garrison numbers per FORSCOM recommendation.

DOES NOT INCLUDE SPECIAL MOVING COST OF TEXCOM EQUIPMENT.

*Steve,*

*I've taken a quick look at this.  
 Nothing jumps out at me as being out  
 of line.*

*Bob*

COBRA REALIGNMENT SUMMARY (COBRA v5.08) - Page 2/2  
 Data As Of 17:44 09/27/1994, Report Created 15:19 03/11/1995

Department : ARMY  
 Option Package : MT5-2  
 Scenario File : C:\COBRA95\ARMY\MT5-2.CBR  
 Std Fctrs File : C:\COBRA95\ARMY\SF7DEC.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	1,709	1,456	1,456	1,456	6,079	1,456
Overhd	608	456	2,200	946	946	946	6,102	946
Moving	0	0	3,709	0	0	0	3,709	0
Missio	0	0	0	0	0	0	0	0
Other	0	0	205	0	0	0	205	0
<b>TOTAL</b>	<b>608</b>	<b>456</b>	<b>7,823</b>	<b>2,402</b>	<b>2,402</b>	<b>2,402</b>	<b>16,094</b>	<b>2,402</b>

Savings (\$K) Constant Dollars								
	1996	1997	1998	1999	2000	2001	Total	Beyond
	----	----	----	----	----	----	----	----
MilCon	0	0	0	0	0	0	0	0
Person	0	0	2,421	2,835	2,835	2,835	10,927	2,835
Overhd	0	0	1,166	5,047	5,047	5,047	16,307	5,047
Moving	0	0	605	0	0	0	605	0
Missio	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0
<b>TOTAL</b>	<b>0</b>	<b>0</b>	<b>4,192</b>	<b>7,882</b>	<b>7,882</b>	<b>7,882</b>	<b>27,839</b>	<b>7,882</b>

NET PRESENT VALUES REPORT (COBRA v5.08)  
 Data As Of 17:44 09/27/1994, Report Created 15:19 03/11/1995

Department : ARMY  
 Option Package : MT5-2  
 Scenario File : C:\COBRA95\ARMY\MT5-2.CBR  
 Std Fctrs File : C:\COBRA95\ARMY\SF7DEC.SFF

Year	Cost(\$)	Adjusted Cost(\$)	NPV(\$)
----	-----	-----	-----
1996	608,308	600,113	600,113
1997	456,231	438,038	1,038,151
1998	3,631,024	3,392,928	4,431,079
1999	-5,480,116	-4,983,717	-552,638
2000	-5,480,116	-4,850,332	-5,402,970
2001	-5,480,116	-4,720,518	-10,123,489
2002	-5,480,116	-4,594,178	-14,717,667
2003	-5,480,116	-4,471,220	-19,188,887
2004	-5,480,116	-4,351,552	-23,540,439
2005	-5,480,116	-4,235,087	-27,775,527
2006	-5,480,116	-4,121,739	-31,897,266
2007	-5,480,116	-4,011,425	-35,908,691
2008	-5,480,116	-3,904,063	-39,812,755
2009	-5,480,116	-3,799,575	-43,612,330
2010	-5,480,116	-3,697,883	-47,310,213
2011	-5,480,116	-3,598,913	-50,909,127
2012	-5,480,116	-3,502,592	-54,411,719
2013	-5,480,116	-3,408,849	-57,820,567
2014	-5,480,116	-3,317,614	-61,138,182
2015	-5,480,116	-3,228,822	-64,367,003

TOTAL ONE-TIME COST REPORT (COBRA v5.08) - Page 1/4  
 Data As Of 17:44 09/27/1994, Report Created 15:19 03/11/1995

Department : ARMY  
 Option Package : MT5-2  
 Scenario File : C:\COBRA95\ARMY\MT5-2.CBR  
 Std Fctrs File : C:\COBRA95\ARMY\SF7DEC.SFF

(All values in Dollars)

Category	Cost	Sub-Total
-----	-----	-----
Construction		
Military Construction	0	
Family Housing Construction	0	
Information Management Account	0	
Land Purchases	0	
Total - Construction		0
Personnel		
Civilian RIF	89,696	
Civilian Early Retirement	37,258	
Civilian New Hires	32,161	
Eliminated Military PCS	77,983	
Unemployment	15,660	
Total - Personnel		252,758
Overhead		
Program Planning Support	1,406,713	
Mothball / Shutdown	912,500	
Total - Overhead		2,319,213
Moving		
Civilian Moving	1,682,500	
Civilian PPS	57,600	
Military Moving	1,845,507	
Freight	123,357	
One-Time Moving Costs	0	
Total - Moving		3,708,965
Other		
HAP / RSE	204,682	
Environmental Mitigation Costs	0	
One-Time Unique Costs	0	
Total - Other		204,682
-----		-----
Total One-Time Costs		5,482,619
-----		-----
One-Time Savings		
Military Construction Cost Avoidances	0	
Family Housing Cost Avoidances	0	
Military Moving	604,841	
Land Sales	0	
One-Time Moving Savings	0	
Environmental Mitigation Savings	0	
One-Time Unique Savings	0	
-----		-----
Total One-Time Savings		604,841
-----		-----
Total Net One-Time Costs		5,880,777

Department : ARMY  
 Option Package : MT5-2  
 Scenario File : C:\COBRA95\ARMY\MT5-2.CBR  
 Std Fctrs File : C:\COBRA95\ARMY\SF7DEC.SFF

Base: BASE X, US  
 (All values in Dollars)

Category	Cost	Sub-Total
-----	----	-----
Construction		
Military Construction	0	
Family Housing Construction	0	
Information Management Account	0	
Land Purchases	0	
Total - Construction		0
Personnel		
Civilian RIF	0	
Civilian Early Retirement	0	
Civilian New Hires	7,763	
Eliminated Military PCS	0	
Unemployment	0	
Total - Personnel		7,763
Overhead		
Program Planning Support	0	
Mothball / Shutdown	0	
Total - Overhead		0
Moving		
Civilian Moving	0	
Civilian PPS	0	
Military Moving	0	
Freight	0	
One-Time Moving Costs	0	
Total - Moving		0
Other		
HAP / RSE	0	
Environmental Mitigation Costs	0	
One-Time Unique Costs	0	
Total - Other		0
-----	----	-----
Total One-Time Costs		7,763
One-Time Savings		
Military Construction Cost Avoidances	0	
Family Housing Cost Avoidances	0	
Military Moving	0	
Land Sales	0	
One-Time Moving Savings	0	
Environmental Mitigation Savings	0	
One-Time Unique Savings	0	
-----	----	-----
Total One-Time Savings		0
-----	----	-----
Total Net One-Time Costs		7,763

Department : ARMY  
 Option Package : MT5-2  
 Scenario File : C:\COBRA95\ARMY\MT5-2.CBR  
 Std Fctrs File : C:\COBRA95\ARMY\SF7DEC.SFF

Base: FT HUNTER LIGGETT, CA  
 (All values in Dollars)

Category	Cost	Sub-Total
<b>Construction</b>		
Military Construction	0	
Family Housing Construction	0	
Information Management Account	0	
Land Purchases	0	
<b>Total - Construction</b>		<b>0</b>
<b>Personnel</b>		
Civilian RIF	89,696	
Civilian Early Retirement	37,258	
Civilian New Hires	0	
Eliminated Military PCS	77,983	
Unemployment	15,660	
<b>Total - Personnel</b>		<b>220,597</b>
<b>Overhead</b>		
Program Planning Support	1,406,713	
Mothball / Shutdown	912,500	
<b>Total - Overhead</b>		<b>2,319,213</b>
<b>Moving</b>		
Civilian Moving	1,682,500	
Civilian PPS	57,600	
Military Moving	1,845,507	
Freight	123,357	
One-Time Moving Costs	0	
<b>Total - Moving</b>		<b>3,708,965</b>
<b>Other</b>		
HAP / RSE	204,682	
Environmental Mitigation Costs	0	
One-Time Unique Costs	0	
<b>Total - Other</b>		<b>204,682</b>
<b>Total One-Time Costs</b>		<b>6,452,451</b>
<b>One-Time Savings</b>		
Military Construction Cost Avoidances	0	
Family Housing Cost Avoidances	0	
Military Moving	604,841	
Land Sales	0	
One-Time Moving Savings	0	
Environmental Mitigation Savings	0	
One-Time Unique Savings	0	
<b>Total One-Time Savings</b>		<b>604,841</b>
<b>Total Net One-Time Costs</b>		<b>5,848,616</b>

Department : ARMY  
 Option Package : MT5-2  
 Scenario File : C:\COBRA95\ARMY\MT5-2.CBR  
 Std Fctrs File : C:\COBRA95\ARMY\SF7DEC.SFF

Base: FT BLISS, TX  
 (All values in Dollars)

Category	Cost	Sub-Total
<b>Construction</b>		
Military Construction	0	
Family Housing Construction	0	
Information Management Account	0	
Land Purchases	0	
<b>Total - Construction</b>		0
<b>Personnel</b>		
Civilian RIF	0	
Civilian Early Retirement	0	
Civilian New Hires	24,398	
Eliminated Military PCS	0	
Unemployment	0	
<b>Total - Personnel</b>		24,398
<b>Overhead</b>		
Program Planning Support	0	
Mothball / Shutdown	0	
<b>Total - Overhead</b>		0
<b>Moving</b>		
Civilian Moving	0	
Civilian PPS	0	
Military Moving	0	
Freight	0	
One-Time Moving Costs	0	
<b>Total - Moving</b>		0
<b>Other</b>		
HAP / RSE	0	
Environmental Mitigation Costs	0	
One-Time Unique Costs	0	
<b>Total - Other</b>		0
<b>Total One-Time Costs</b>		24,398
<b>One-Time Savings</b>		
Military Construction Cost Avoidances	0	
Family Housing Cost Avoidances	0	
Military Moving	0	
Land Sales	0	
One-Time Moving Savings	0	
Environmental Mitigation Savings	0	
One-Time Unique Savings	0	
<b>Total One-Time Savings</b>		0
<b>Total Net One-Time Costs</b>		24,398

Department : ARMY  
Option Package : MT5-2  
Scenario File : C:\COBRA95\ARMY\MT5-2.CBR  
Std Fctrs File : C:\COBRA95\ARMY\SF7DEC.SFF

All Costs in \$K

Base Name	Total MilCon	IMA Cost	Land Purch	Cost Avoid	Total Cost
BASE X	0	0	0	0	0
FT HUNTER LIGGETT	0	0	0	0	0
FT BLISS	0	0	0	0	0
-----					
Totals:	0	0	0	0	0



PERSONNEL SUMMARY REPORT (COBPA v5.08)  
 Data As Of 17:44 09/27/1994, Report Created 15:19 03/11/1995

Department : ARMY  
 Option Package : MT5-2  
 Scenario File : C:\COBRA95\ARMY\MT5-2.CBR  
 Std Fctrs File : C:\COBRA95\ARMY\SF7DEC.SFF

PERSONNEL SUMMARY FOR: BASE X, US

BASE POPULATION (FY 1996, Prior to BRAC Action):

Officers	Enlisted	Students	Civilians
752	4,208	1,121	2,709

PERSONNEL REALIGNMENTS:

From Base: FT HUNTER LIGGETT, CA

	1996	1997	1998	1999	2000	2001	Total
Officers	0	0	0	0	0	0	0
Enlisted	0	0	0	0	0	0	0
Students	0	0	0	0	0	0	0
Civilians	0	0	18	0	0	0	18
TOTAL	0	0	18	0	0	0	18

TOTAL PERSONNEL REALIGNMENTS (Into BASE X, US):

	1996	1997	1998	1999	2000	2001	Total
Officers	0	0	0	0	0	0	0
Enlisted	0	0	0	0	0	0	0
Students	0	0	0	0	0	0	0
Civilians	0	0	18	0	0	0	18
TOTAL	0	0	18	0	0	0	18

BASE POPULATION (After BRAC Action):

Officers	Enlisted	Students	Civilians
752	4,208	1,121	2,727

PERSONNEL SUMMARY FOR: FT HUNTER LIGGETT, CA

BASE POPULATION (FY 1996, Prior to BRAC Action):

Officers	Enlisted	Students	Civilians
54	358	0	20

PERSONNEL REALIGNMENTS:

To Base: BASE X, US

	1996	1997	1998	1999	2000	2001	Total
Officers	0	0	0	0	0	0	0
Enlisted	0	0	0	0	0	0	0
Students	0	0	0	0	0	0	0
Civilians	0	0	18	0	0	0	18
TOTAL	0	0	18	0	0	0	18

To Base: FT BLISS, TX

	1996	1997	1998	1999	2000	2001	Total
Officers	0	0	50	0	0	0	50
Enlisted	0	0	326	0	0	0	326
Students	0	0	0	0	0	0	0
Civilians	0	0	62	0	0	0	62
TOTAL	0	0	438	0	0	0	438

TOTAL PERSONNEL REALIGNMENTS (Out of FT HUNTER LIGGETT, CA):

	1996	1997	1998	1999	2000	2001	Total
Officers	0	0	50	0	0	0	50
Enlisted	0	0	326	0	0	0	326
Students	0	0	0	0	0	0	0
Civilians	0	0	80	0	0	0	80
TOTAL	0	0	456	0	0	0	456

Department : ARMY  
 Option Package : MT5-2  
 Scenario File : C:\COBRA95\ARMY\MT5-2.CBR  
 Std Fctrs File : C:\COBRA95\ARMY\SF7DEC.SFF

SCENARIO POSITION CHANGES:

	1996	1997	1998	1999	2000	2001	Total
Officers	0	0	-2	0	0	0	-2
Enlisted	0	0	-15	0	0	0	-15
Civilians	0	0	-5	0	0	0	-5
TOTAL	0	0	-22	0	0	0	-22

BASE POPULATION (After BRAC Action):

Officers	Enlisted	Students	Civilians
2	12	0	136

PERSONNEL SUMMARY FOR: FT BLISS, TX

BASE POPULATION (FY 1996, Prior to BRAC Action):

Officers	Enlisted	Students	Civilians
1,679	9,853	2,196	4,132

PERSONNEL REALIGNMENTS:

From Base: FT HUNTER LIGGETT, CA

	1996	1997	1998	1999	2000	2001	Total
Officers	0	0	50	0	0	0	50
Enlisted	0	0	326	0	0	0	326
Students	0	0	0	0	0	0	0
Civilians	0	0	62	0	0	0	62
TOTAL	0	0	438	0	0	0	438

TOTAL PERSONNEL REALIGNMENTS (Into FT BLISS, TX):

	1996	1997	1998	1999	2000	2001	Total
Officers	0	0	50	0	0	0	50
Enlisted	0	0	326	0	0	0	326
Students	0	0	0	0	0	0	0
Civilians	0	0	62	0	0	0	62
TOTAL	0	0	438	0	0	0	438

BASE POPULATION (After BRAC Action):

Officers	Enlisted	Students	Civilians
1,729	10,179	2,196	4,194

TOtal PERSONNEL IMPACT REPORT (COBRA v5.08) - Page 1/4  
 Data As Of 17:44 09/27/1994, Report Created 15:19 03/11/1995

Department : ARMY  
 Option Package : MT5-2  
 Scenario File : C:\COBRA95\ARMY\MT5-2.CBR  
 Std Fctrs File : C:\COBRA95\ARMY\SF7DEC.SFF

	Rate	1996	1997	1998	1999	2000	2001	Total
CIVILIAN POSITIONS REALIGNING OUT		0	0	80	0	0	0	80
Early Retirement*	10.00%	0	0	8	0	0	0	8
Regular Retirement*	5.00%	0	0	4	0	0	0	4
Civilian Turnover*	15.00%	0	0	12	0	0	0	12
Civs Not Moving (RIFs)**		0	0	5	0	0	0	5
Civilians Moving (the remainder)		0	0	51	0	0	0	51
Civilian Positions Available		0	0	29	0	0	0	29
CIVILIAN POSITIONS ELIMINATED		0	0	5	0	0	0	5
Early Retirement	10.00%	0	0	1	0	0	0	1
Regular Retirement	5.00%	0	0	0	0	0	0	0
Civilian Turnover	15.00%	0	0	1	0	0	0	1
Civs Not Moving (RIFs)**		0	0	0	0	0	0	0
Priority Placement#	60.00%	0	0	3	0	0	0	3
Civilians Available to Move		0	0	0	0	0	0	0
Civilians Moving		0	0	0	0	0	0	0
Civilian RIFs (the remainder)		0	0	0	0	0	0	0
CIVILIAN POSITIONS REALIGNING IN		0	0	80	0	0	0	80
Civilians Moving		0	0	51	0	0	0	51
New Civilians Hired		0	0	29	0	0	0	29
Other Civilian Additions		0	0	0	0	0	0	0
TOTAL CIVILIAN EARLY RETIRMENTS		0	0	9	0	0	0	9
TOTAL CIVILIAN RIFs		0	0	5	0	0	0	5
TOTAL CIVILIAN PRIORITY PLACEMENTS#		0	0	3	0	0	0	3
TOTAL CIVILIAN NEW HIRES		0	0	29	0	0	0	29

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

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

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

Department : ARMY  
 Option Package : MT5-2  
 Scenario File : C:\COBRA95\ARMY\MT5-2.CBR  
 Std Fctrs File : C:\COBRA95\ARMY\SF7DEC.SFF

Base: BASE X, US	Rate	1996	1997	1998	1999	2000	2001	Total
CIVILIAN POSITIONS REALIGNING OUT		0	0	0	0	0	0	0
Early Retirement*	10.00%	0	0	0	0	0	0	0
Regular Retirement*	5.00%	0	0	0	0	0	0	0
Civilian Turnover*	15.00%	0	0	0	0	0	0	0
Civs Not Moving (RIFs)*	6.00%	0	0	0	0	0	0	0
Civilians Moving (the remainder)		0	0	0	0	0	0	0
Civilian Positions Available		0	0	0	0	0	0	0
CIVILIAN POSITIONS ELIMINATED		0	0	0	0	0	0	0
Early Retirement	10.00%	0	0	0	0	0	0	0
Regular Retirement	5.00%	0	0	0	0	0	0	0
Civilian Turnover	15.00%	0	0	0	0	0	0	0
Civs Not Moving (RIFs)*	6.00%	0	0	0	0	0	0	0
Priority Placement#	60.00%	0	0	0	0	0	0	0
Civilians Available to Move		0	0	0	0	0	0	0
Civilians Moving		0	0	0	0	0	0	0
Civilian RIFs (the remainder)		0	0	0	0	0	0	0
CIVILIAN POSITIONS REALIGNING IN		0	0	18	0	0	0	18
Civilians Moving		0	0	11	0	0	0	11
New Civilians Hired		0	0	7	0	0	0	7
Other Civilian Additions		0	0	0	0	0	0	0
TOTAL CIVILIAN EARLY RETIRMENTS		0	0	0	0	0	0	0
TOTAL CIVILIAN RIFs		0	0	0	0	0	0	0
TOTAL CIVILIAN PRIORITY PLACEMENTS#		0	0	0	0	0	0	0
TOTAL CIVILIAN NEW HIRES		0	0	7	0	0	0	7

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

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

Department : ARMY  
 Option Package : MT5-2  
 Scenario File : C:\COBRA95\ARMY\MT5-2.CBR  
 Std Fctrs File : C:\COBRA95\ARMY\SF7DEC.SFF

Base: FT HUNTER LIGGETT, CA	Rate	1996	1997	1998	1999	2000	2001	Total
CIVILIAN POSITIONS REALIGNING OUT		0	0	80	0	0	0	80
Early Retirement*	10.00%	0	0	8	0	0	0	8
Regular Retirement*	5.00%	0	0	4	0	0	0	4
Civilian Turnover*	15.00%	0	0	12	0	0	0	12
Civs Not Moving (RIFs)*	6.00%	0	0	5	0	0	0	5
Civilians Moving (the remainder)		0	0	51	0	0	0	51
Civilian Positions Available		0	0	29	0	0	0	29
CIVILIAN POSITIONS ELIMINATED		0	0	5	0	0	0	5
Early Retirement	10.00%	0	0	1	0	0	0	1
Regular Retirement	5.00%	0	0	0	0	0	0	0
Civilian Turnover	15.00%	0	0	1	0	0	0	1
Civs Not Moving (RIFs)*	6.00%	0	0	0	0	0	0	0
Priority Placement#	60.00%	0	0	3	0	0	0	3
Civilians Available to Move		0	0	0	0	0	0	0
Civilians Moving		0	0	0	0	0	0	0
Civilian RIFs (the remainder)		0	0	0	0	0	0	0
CIVILIAN POSITIONS REALIGNING IN		0	0	0	0	0	0	0
Civilians Moving		0	0	0	0	0	0	0
New Civilians Hired		0	0	0	0	0	0	0
Other Civilian Additions		0	0	0	0	0	0	0
TOTAL CIVILIAN EARLY RETIRMENTS		0	0	9	0	0	0	9
TOTAL CIVILIAN RIFs		0	0	5	0	0	0	5
TOTAL CIVILIAN PRIORITY PLACEMENTS#		0	0	3	0	0	0	3
TOTAL CIVILIAN NEW HIRES		0	0	0	0	0	0	0

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

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

Department : ARMY  
 Option Package : MT5-2  
 Scenario File : C:\COBRA95\ARMY\MT5-2.CBR  
 Std Fctrs File : C:\COBRA95\ARMY\SF7DEC.SFF

Base: FT BLISS, TX	Rate	1996	1997	1998	1999	2000	2001	Total
CIVILIAN POSITIONS REALIGNING OUT		0	0	0	0	0	0	0
Early Retirement*	10.00%	0	0	0	0	0	0	0
Regular Retirement*	5.00%	0	0	0	0	0	0	0
Civilian Turnover*	15.00%	0	0	0	0	0	0	0
Civs Not Moving (RIFs)*	6.00%	0	0	0	0	0	0	0
Civilians Moving (the remainder)		0	0	0	0	0	0	0
Civilian Positions Available		0	0	0	0	0	0	0
CIVILIAN POSITIONS ELIMINATED		0	0	0	0	0	0	0
Early Retirement	10.00%	0	0	0	0	0	0	0
Regular Retirement	5.00%	0	0	0	0	0	0	0
Civilian Turnover	15.00%	0	0	0	0	0	0	0
Civs Not Moving (RIFs)*	6.00%	0	0	0	0	0	0	0
Priority Placement#	60.00%	0	0	0	0	0	0	0
Civilians Available to Move		0	0	0	0	0	0	0
Civilians Moving		0	0	0	0	0	0	0
Civilian RIFs (the remainder)		0	0	0	0	0	0	0
CIVILIAN POSITIONS REALIGNING IN		0	0	62	0	0	0	62
Civilians Moving		0	0	40	0	0	0	40
New Civilians Hired		0	0	22	0	0	0	22
Other Civilian Additions		0	0	0	0	0	0	0
TOTAL CIVILIAN EARLY RETIRMENTS		0	0	0	0	0	0	0
TOTAL CIVILIAN RIFs		0	0	0	0	0	0	0
TOTAL CIVILIAN PRIORITY PLACEMENTS#		0	0	0	0	0	0	0
TOTAL CIVILIAN NEW HIRES		0	0	22	0	0	0	22

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

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

TOTAL APPROPRIATIONS DETAIL REPORT (COBRA v5.08) - Page 1/12  
 Date As Of 17:44 09/27/1994, Report Created 15:19 03/11/1995

Department : ARMY  
 Option Package : MT5-2  
 Scenario File : C:\COBRA95\ARMY\MT5-2.CBR  
 Std Fctrs File : C:\COBRA95\ARMY\SF7DEC.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	90	0	0	0	90
Civ Retire	0	0	37	0	0	0	37
CIV MOVING							
Per Diem	0	0	166	0	0	0	166
POV Miles	0	0	14	0	0	0	14
Home Purch	0	0	659	0	0	0	659
HHG	0	0	372	0	0	0	372
Misc	0	0	36	0	0	0	36
House Hunt	0	0	148	0	0	0	148
PPS	0	0	58	0	0	0	58
RITA	0	0	287	0	0	0	287
FREIGHT							
Packing	0	0	106	0	0	0	106
Freight	0	0	17	0	0	0	17
Vehicles	0	0	0	0	0	0	0
Driving	0	0	0	0	0	0	0
Unemployment	0	0	16	0	0	0	16
OTHER							
Program Plan	608	456	342	0	0	0	1,407
Shutdown	0	0	912	0	0	0	912
New Hire	0	0	32	0	0	0	32
1-Time Move	0	0	0	0	0	0	0
MIL PERSONNEL							
MIL MOVING							
Per Diem	0	0	163	0	0	0	163
POV Miles	0	0	110	0	0	0	110
HHG	0	0	1,309	0	0	0	1,309
Misc	0	0	263	0	0	0	263
OTHER							
Elim POS			73				73
OTHER							
HAP / RSE			205				205
Environmental			0				0
Info Manage			0				0
1-Time Other			0				0
TOTAL ONE-TIME	608	456	5,424	0	0	0	6,486

TOTAL APPROPRIATIONS DETAIL REPORT (COBRA v5.08) - Page 2/12  
 Data As Of 17:44 09/27/1994, Report Created 15:19 03/11/1995

Department : ARMY  
 Option Package : MT5-2  
 Scenario File : C:\COBRA95\ARMY\MT5-2.CBR  
 Std Fctrs File : C:\COBRA95\ARMY\SF7DEC.SFF

RECURRINGCOSTS	1996	1997	1998	1999	2000	2001	Total	Beyond
-----(\$K)-----	----	----	----	----	----	----	-----	-----
FAM HOUSE OPS	0	0	0	0	0	0	0	0
O&M								
RPMA	0	0	0	0	0	0	0	0
BOS	0	0	946	946	946	946	3,782	946
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	1,456	1,456	1,456	1,456	5,826	1,456
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	2,402	2,402	2,402	2,402	9,609	2,402
TOTAL COST	608	456	7,823	2,402	2,402	2,402	16,094	2,402
ONE-TIME SAVES	1996	1997	1998	1999	2000	2001	Total	
-----(\$K)-----	----	----	----	----	----	----	-----	
CONSTRUCTION								
MILCON	0	0	0	0	0	0	0	
Fam Housing	0	0	0	0	0	0	0	
O&M								
1-Time Move	0	0	0	0	0	0	0	
MIL PERSONNEL								
Mil Moving	0	0	605	0	0	0	605	
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	605	0	0	0	605	
RECURRINGSAVES	1996	1997	1998	1999	2000	2001	Total	Beyond
-----(\$K)-----	----	----	----	----	----	----	-----	-----
FAM HOUSE OPS	0	0	36	75	75	75	255	75
O&M								
RPMA	0	0	1,030	2,169	2,169	2,169	7,537	2,169
BOS	0	0	95	2,805	2,805	2,805	8,514	2,805
Unique Operat	0	0	0	0	0	0	0	0
Civ Salary	0	0	115	230	230	230	805	230
CHAMPUS	0	0	0	0	0	0	0	0
MIL PERSONNEL								
Off Salary	0	0	68	136	136	136	476	136
Enl Salary	0	0	231	463	463	463	1,620	463
House Allow	0	0	2,006	2,006	2,006	2,006	8,026	2,006
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	3,587	7,882	7,882	7,882	27,234	7,882
TOTAL SAVINGS	0	0	4,192	7,882	7,882	7,882	27,839	7,882



TOTAL APPROPRIATIONS DETAIL REPORT (COBRA v5.08) - Page 3/12  
 Data As Of 17:44 09/27/1994, Report Created 15:19 03/11/1995

Department : ARMY  
 Option Package : MT5-2  
 Scenario File : C:\COBRA95\ARMY\MT5-2.CBR  
 Std Fctrs File : C:\COBRA95\ARMY\SF7DEC.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	127	0	0	0	127	
Civ Moving	0	0	1,863	0	0	0	1,863	
Other	608	456	1,302	0	0	0	2,367	
MIL PERSONNEL								
Mil Moving	0	0	1,319	0	0	0	1,319	
OTHER								
HAP / RSE	0	0	205	0	0	0	205	
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	608	456	4,816	0	0	0	5,881	
RECURRING NET ----(\$K)----	1996	1997	1998	1999	2000	2001	Total	Beyond
FAM HOUSE OPS	0	0	-36	-73	-73	-73	-255	-73
O&M								
RPMA	0	0	-1,030	-2,169	-2,169	-2,169	-7,537	-2,169
BOS	0	0	846	-1,859	-1,859	-1,859	-4,731	-1,859
Unique Operat	0	0	0	0	0	0	0	0
Caretaker	0	0	0	0	0	0	0	0
Civ Salary	0	0	-115	-230	-230	-230	-805	-230
CHAMPUS	0	0	0	0	0	0	0	0
MIL PERSONNEL								
Mil Salary	0	0	-299	-599	-599	-599	-2,096	-599
House Allow	0	0	-550	-550	-550	-550	-2,200	-550
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			-1,189	-4,488	-4,488	-4,488	-17,625	-4,488
TOTAL NET COST	608	456	3,627	-4,488	-4,488	-4,488	-11,744	-4,488

APPROPRIATIONS DETAIL REPORT (COBRA v5.08) - Page 4/12  
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Department : ARMY  
 Option Package : MT5-2  
 Scenario File : C:\COBRA95\ARMY\MT5-2.CBR  
 Std Fctrs File : C:\COBRA95\ARMY\SF7DEC.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	8	0	0	0	8
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 PDC							
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	8	0	0	0	8



APPROPRIATIONS DETAIL REPORT (COBRA v5.08) - Page 6/12  
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Department : ARMY  
 Option Package : MT5-2  
 Scenario File : C:\COBRA95\ARMY\MT5-2.CBR  
 Std Fctrs File : C:\COBRA95\ARMY\SF7DEC.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	8	0	0	0	8	
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	8	0	0	0	8	
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	35	35	35	35	139	35
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	35	35	35	35	139	35
TOTAL NET COST	0	0	43	35	35	35	147	35

APPROPRIATIONS DETAIL REPORT (COBRA v5.08) - Page 7/12  
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Department : ARMY  
 Option Package : MT5-2  
 Scenario File : C:\COBRA95\ARMY\MT5-2.CBR  
 Std Fctrs File : C:\COBRA95\ARMY\SF7DEC.SFF

Base: FT HUNTER LIGGETT, CA

ONE-TIME COSTS	1996	1997	1998	1999	2000	2001	Total
-----(\$K)-----	----	----	----	----	----	----	----
<b>CONSTRUCTION</b>							
MILCON	0	0	0	0	0	0	0
Fam Housing	0	0	0	0	0	0	0
Land Purch	0	0	0	0	0	0	0
<b>O&amp;M</b>							
<b>CIV SALARY</b>							
Civ RIFs	0	0	90	0	0	0	90
Civ Retire	0	0	37	0	0	0	37
<b>CIV MOVING</b>							
Per Diem	0	0	166	0	0	0	166
POV Miles	0	0	14	0	0	0	14
Home Purch	0	0	659	0	0	0	659
HHG	0	0	372	0	0	0	372
Misc	0	0	36	0	0	0	36
House Hunt	0	0	148	0	0	0	148
PPS	0	0	58	0	0	0	58
RITA	0	0	287	0	0	0	287
<b>FREIGHT</b>							
Packing	0	0	106	0	0	0	106
Freight	0	0	17	0	0	0	17
Vehicles	0	0	0	0	0	0	0
Driving	0	0	0	0	0	0	0
Unemployment	0	0	16	0	0	0	16
<b>OTHER</b>							
Program Plan	608	456	342	0	0	0	1,407
Shutdown	0	0	912	0	0	0	912
New Hires	0	0	0	0	0	0	0
1-Time Move	0	0	0	0	0	0	0
<b>MIL PERSONNEL</b>							
<b>MIL MOVING</b>							
Per Diem	0	0	163	0	0	0	163
POV Miles	0	0	110	0	0	0	110
HHG	0	0	1,309	0	0	0	1,309
Misc	0	0	263	0	0	0	263
<b>OTHER</b>							
Elim. POS	0	0	71	0	0	0	71
<b>OTHER</b>							
HAP / RSE	0	0	205	0	0	0	205
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
<b>TOTAL ONE-TIME</b>	<b>608</b>	<b>456</b>	<b>5,385</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>6,453</b>

APPROPRIATIONS DETAIL REPORT (COBRA v5.08) - Page 8/12  
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Department : ARMY  
 Option Package : MT5-2  
 Scenario File : C:\COBRA95\ARMY\MT5-2.CBR  
 Std Fctrs File : C:\COBRA95\ARMY\SF7DEC.SFF

Base: FT HUNTER LIGGETT, CA

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

TOTAL COSTS           608       456       5,389       0       0       0       6,453       0

ONE-TIME SAVES	1996	1997	1998	1999	2000	2001	Total	Beyond
-----(\$K)-----	----	----	----	----	----	----	-----	-----
CONSTRUCTION								
MILCON	0	0	0	0	0	0	0	0
Fam Housing	0	0	0	0	0	0	0	0
O&M								
1-Time Move	0	0	0	0	0	0	0	0
MIL PERSONNEL								
Mil Moving	0	0	605	0	0	0	605	0
OTHER								
Land Sales	0	0	0	0	0	0	0	0
Environmental	0	0	0	0	0	0	0	0
1-Time Other	0	0	0	0	0	0	0	0
TOTAL ONE-TIME	0	0	605	0	0	0	605	0

RECURRING SAVES	1996	1997	1998	1999	2000	2001	Total	Beyond
-----(\$K)-----	----	----	----	----	----	----	-----	-----
FAM HOUSE OPS	0	0	0	0	0	0	0	0
O&M								
RPMA	0	0	1,030	2,169	2,169	2,169	7,537	2,169
BOS	0	0	99	2,805	2,805	2,805	8,514	2,805
Unique Operat	0	0	0	0	0	0	0	0
Civ Salary	0	0	115	230	230	230	805	230
CHAMPUS	0	0	0	0	0	0	0	0
MIL PERSONNEL								
Off Salary	0	0	68	136	136	136	476	136
Enl Salary	0	0	231	463	463	463	1,620	463
House Allow	0	0	2,006	2,006	2,006	2,006	8,026	2,006
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	3,587	7,882	7,882	7,882	27,234	7,882

TOTAL SAVINGS       0       0       4,192       7,882       7,882       7,882       27,839       7,882

APPROPRIATIONS DETAIL REPORT (COBRA v5.08) - Page 9/12  
 Data As Of 17:44 09/27/1994, Report Created 15:19 03/11/1995

Department : ARMY  
 Option Package : MT5-2  
 Scenario File : C:\COBRA95\ARMY\MT5-2.CBR  
 Std Fctrs File : C:\COBRA95\ARMY\SF7DEC.SFF

Base: FT HUNTER LIGGETT, CA

ONE-TIME NET	1996	1997	1998	1999	2000	2001	Total	
----(\$K)----	----	----	----	----	----	----	----	----
<b>CONSTRUCTION</b>								
MILCON	0	0	0	0	0	0	0	
Fam Housing	0	0	0	0	0	0	0	
<b>O&amp;M</b>								
Civ Retir/RIF	0	0	127	0	0	0	127	
Civ Moving	0	0	1,863	0	0	0	1,863	
Other	608	456	1,270	0	0	0	2,335	
<b>MIL PERSONNEL</b>								
Mil Moving	0	0	1,319	0	0	0	1,319	
<b>OTHER</b>								
HAP / RSE	0	0	205	0	0	0	205	
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	
<b>TOTAL ONE-TIME</b>	<b>608</b>	<b>456</b>	<b>4,784</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>5,849</b>	
<b>RECURRING NET</b>								
----(\$K)----	----	----	----	----	----	----	----	Beyond
FAM HOUSE OPS	0	0	-36	-73	-73	-73	-255	-73
<b>O&amp;M</b>								
RPMA	0	0	-1,030	-2,169	-2,169	-2,169	-7,537	-2,169
BOS	0	0	-99	-2,805	-2,805	-2,805	-8,514	-2,805
Unique Operat	0	0	0	0	0	0	0	0
Caretaker	0	0	0	0	0	0	0	0
Civ Salary	0	0	-115	-230	-230	-230	-805	-230
CHAMPUS	0	0	0	0	0	0	0	0
<b>MIL PERSONNEL</b>								
Mil Salary	0	0	-299	-599	-599	-599	-2,096	-599
House Allow	0	0	-2,006	-2,006	-2,006	-2,006	-8,026	-2,006
<b>OTHER</b>								
Procurement	0	0	0	0	0	0	0	0
Mission	0	0	0	0	0	0	0	0
Misc Recur	0	0	0	0	0	0	0	0
Unique Operat	0	0	0	0	0	0	0	0
<b>TOTAL RECUR</b>			<b>-2,167</b>	<b>-7,881</b>	<b>-7,882</b>	<b>-7,882</b>	<b>-27,234</b>	<b>-7,881</b>
<b>TOTAL NET COST</b>	<b>608</b>	<b>456</b>	<b>1,197</b>	<b>-7,882</b>	<b>-7,882</b>	<b>-7,882</b>	<b>-21,385</b>	<b>-7,882</b>

APPROPRIATIONS DETAIL REPORT (COBRA v5.08) - Page 10/12  
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Department : ARMY  
 Option Package : MT5-2  
 Scenario File : C:\COBRA95\ARMY\MT5-2.CBR  
 Std Fctrs File : C:\COBRA95\ARMY\SF7DEC.SFF

Base: FT BLISS, TX

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	24	0	0	0	24
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 POS	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	24	0	0	0	24





APPROPRIATIONS DETAIL REPORT (COBRA v5.08) - Page 12/12  
 Data As Of 17:44 09/27/1994, Report Created 15:19 03/11/1995

Department : ARMY  
 Option Package : MT5-2  
 Scenario File : C:\COBRA95\ARMY\MT5-2.CBR  
 Std Fctrs File : C:\COBRA95\ARMY\SF7DEC.SFF

Base: FT BLISS, TX

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	24	0	0	0	24	
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	24	0	0	0	24	
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	911	911	911	911	3,643	911
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	1,456	1,456	1,456	1,456	5,824	1,456
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	1,367	1,367	1,367	1,367	5,464	1,367
TOTAL NET COST	0	0	1,391	1,367	1,367	1,367	9,494	1,367

PERSONNEL, SF, RPMA, AND BOS DELTAS (COBRA v5.08)  
 Data As Of 17:44 09/27/1994, Report Created 15:19 03/11/1995

Department : ARMY  
 Option Package : MT5-2  
 Scenario File : C:\COBRA95\ARMY\MT5-2.CBR  
 Std Fctrs File : C:\COBRA95\ARMY\SF7DEC.SFF

Base	Personnel		SF		
	Change	%Change	Change	%Change	Chg/Per
BASE X	18	0%	0	0%	0
FT HUNTER LIGGETT	-473	-76%	-730,000	-100%	1,527
FT BLISS	438	2%	0	0%	0

Base	RPMA(\$)			BOS(\$)		
	Change	%Change	Chg/Per	Change	%Change	Chg/Per
BASE X	0	0%	0	34,812	0%	1,934
FT HUNTER LIGGETT	-2,169,000	-100%	4,538	-2,804,939	-54%	5,868
FT BLISS	0	0%	0	910,833	1%	2,079

Base	RPMABOS(\$)		
	Change	%Change	Chg/Per
BASE X	34,812	0%	1,934
FT HUNTER LIGGETT	-4,973,939	-67%	10,406
FT BLISS	910,833	1%	2,079

RPMA/BOS CHANGE REPORT (COBRA v5.08)  
Data As Of 17:44 09/27/1994, Report Created 15:19 03/11/1995

Department : ARMY  
Option Package : MT5-2  
Scenario File : C:\COBRA95\ARMY\MT5-2.CBR  
Std Fctrs File : C:\COBRA95\ARMY\SF7DEC.SFF

Net Change(\$K)	1996	1997	1998	1999	2000	2001	Total	Beyond
RPMA Change	0	0	-1,030	-2,169	-2,169	-2,169	-7,537	-2,169
BOS Change	0	0	846	-1,859	-1,859	-1,859	-4,731	-1,859
Housing Change	0	0	-36	-73	-73	-73	-255	-73
TOTAL CHANGES	0	0	-221	-4,101	-4,101	-4,101	-12,525	-4,101

INPUT DATA REPORT (COBRA v5.08)  
 Data As Of 17:44 09/27/1994, Report Created 15:19 03/11/1995

Department : ARMY  
 Option Package : MT5-2  
 Scenario File : C:\COBRA95\ARMY\MT5-2.CBR  
 Std Fctrs File : C:\COBRA95\ARMY\SF7DEC.SFF

INPUT SCREEN ONE - GENERAL SCENARIO INFORMATION

Model Year One : FY 1996

Model does Time-Phasing of Construction/Shutdown: Yes

Base Name	Strategy:
-----	-----
BASE X, US	Realignment
FT HUNTER LIGGETT, CA	Realignment
FT BLISS, TX	Realignment

Summary:

-----  
 Close Ft. Hunter Liggett, Ca.  
 Move all Army and tenant organizations to Base X and Ft. Bliss.  
 RIF civilians that support Garrison.  
 Maintain all ranges and training land for RC training.  
 THERE IS NO NG OR AR UNITS ON FT HUNTER LIGGETT, CA.  
 Removed W12K!A from total Garrison numbers per FORSCOM recommendation.

DOES NOT INCLUDE SPECIAL MOVING COST OF TEXCOM EQUIPMENT.

(See final page for Explanatory Notes)

INPUT SCREEN TWO - DISTANCE TABLE

From Base:	To Base:	Distance:
-----	-----	-----
BASE X, US	FT HUNTER LIGGETT, CA	1,340 mi
BASE X, US	FT BLISS, TX	1,340 mi
FT HUNTER LIGGETT, CA	FT BLISS, TX	1,653 mi

INPUT SCREEN THREE - MOVEMENT TABLE

Transfers from FT HUNTER LIGGETT, CA 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:	0	0	18	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

Transfers from FT HUNTER LIGGETT, CA to FT BLISS, TX

	1996	1997	1998	1999	2000	2001
-----	-----	-----	-----	-----	-----	-----
Officer Positions:	0	0	50	0	0	0
Enlisted Positions:	0	0	326	0	0	0
Civilian Positions:	0	0	62	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

Department : ARMY  
 Option Package : MT5-2  
 Scenario File : C:\COBRA95\ARMY\MT5-2.CBR  
 Std Fctrs File : C:\COBRA95\ARMY\SF7DEC.SFF

INPUT SCREEN FOUR - STATIC BASE INFORMATION

Name: BASE X, US

Total Officer Employees:	752	RPMA Non-Payroll (\$K/Year):	11,891
Total Enlisted Employees:	4,208	Communications (\$K/Year):	1,514
Total Student Employees:	1,121	BOS Non-Payroll (\$K/Year):	29,982
Total Civilian Employees:	2,709	BOS Payroll (\$K/Year):	21,877
Mil Families Living On Base:	55.0%	Family Housing (\$K/Year):	8,151
Civilians Not Willing To Move:	6.0%	Area Cost Factor:	1.09
Officer Housing Units Avail:	0	CHAMPUS In-Pat (\$/Visit):	0
Enlisted Housing Units Avail:	0	CHAMPUS Out-Pat (\$/Visit):	0
Total Base Facilities(KSF):	6,091	CHAMPUS Shift to Medicare:	0.0%
Officer VHA (\$/Month):	178	Activity Code:	BASEX
Enlisted VHA (\$/Month):	132		
Per Diem Rate (\$/Day):	101	Homeowner Assistance Program:	No
Freight Cost (\$/Ton/Mile):	0.07	Unique Activity Information:	No

Name: FT HUNTER LIGGETT, CA

Total Officer Employees:	54	RPMA Non-Payroll (\$K/Year):	2,169
Total Enlisted Employees:	353	Communications (\$K/Year):	414
Total Student Employees:	0	BOS Non-Payroll (\$K/Year):	4,795
Total Civilian Employees:	221	BOS Payroll (\$K/Year):	3,197
Mil Families Living On Base:	6.9%	Family Housing (\$K/Year):	73
Civilians Not Willing To Move:	6.0%	Area Cost Factor:	1.44
Officer Housing Units Avail:	0	CHAMPUS In-Pat (\$/Visit):	0
Enlisted Housing Units Avail:	0	CHAMPUS Out-Pat (\$/Visit):	0
Total Base Facilities(KSF):	730	CHAMPUS Shift to Medicare:	0.0%
Officer VHA (\$/Month):	363	Activity Code:	6205
Enlisted VHA (\$/Month):	272		
Per Diem Rate (\$/Day):	112	Homeowner Assistance Program:	No
Freight Cost (\$/Ton/Mile):	0.07	Unique Activity Information:	No

Name: FT BLISS, TX

Total Officer Employees:	1,079	RPMA Non-Payroll (\$K/Year):	24,044
Total Enlisted Employees:	9,851	Communications (\$K/Year):	4,507
Total Student Employees:	2,198	BOS Non-Payroll (\$K/Year):	64,037
Total Civilian Employees:	4,132	BOS Payroll (\$K/Year):	52,131
Mil Families Living On Base:	43.8%	Family Housing (\$K/Year):	13,153
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):	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

Department : ARMY  
 Option Package : MT5-2  
 Scenario File : C:\COBRA95\ARMY\MT5-2.CBR  
 Std Fctrs File : C:\COBRA95\ARMY\SF7DEC.SFF

INPUT SCREEN FIVE - DYNAMIC BASE INFORMATION

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%

Name: FT HUNTER LIGGETT, CA	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):	730	Perc Family Housing ShutDown:				100.0%

Name: FT BLISS, TX	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 : MT5-2  
 Scenario File : C:\COBRA95\ARMY\MT5-2.CBR  
 Std Fctrs File : C:\COBRA95\ARMY\SF7DEC.SFF

INPUT SCREEN SIX - BASE PERSONNEL INFORMATION

Name: FT HUNTER LIGGETT, CA

	1996	1997	1998	1999	2000	2001
Off Force Struc Change:	0	0	0	0	0	0
Enl Force Struc Change:	0	0	0	0	0	0
Civ Force Struc Change:	0	0	0	0	0	0
Stu Force Struc Change:	0	0	0	0	0	0
Off Scenario Change:	0	0	-2	0	0	0
Enl Scenario Change:	0	0	-15	0	0	0
Civ Scenario Change:	0	0	-5	0	0	0
Off Change(No Sal Save):	0	0	0	0	0	0
Enl Change(No Sal Save):	0	0	0	0	0	0
Civ Change(No Sal Save):	0	0	0	0	0	0
Caretakers - Military:	0	0	0	0	0	0
Caretakers - Civilian:	0	0	0	0	0	0

STANDARD FACTORS SCREEN ONE - PERSONNEL

Percent Officers Married:	77.00%	Civ Early Retire Pay Factor:	9.00%
Percent Enlisted Married:	58.50%	Priority Placement Service:	60.00%
Enlisted Housing MilCon:	91.00%	PPS Actions Involving PCS:	50.00%
Officer Salary(\$/Year):	67,948.00	Civilian PCS Costs (\$):	28,800.00
Off BAQ with Dependents(\$):	7,717.00	Civilian New Hire Cost(\$):	1,109.00
Enlisted Salary(\$/Year):	30,860.00	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(\$):	11,191.00
Civilian Turnover Rate:	15.00%	Civilian Homeowning Rate:	64.00%
Civilian Early Retire Rate:	10.00%	HAP Home Value Reimburse Rate:	22.90%
Civilian Regular Retire Rate:	5.00%	HAP Homeowner Receiving Rate:	5.00%
Civilian RIF Pay Factor:	39.00%	RSE Home Value Reimburse Rate:	19.00%
SF File Desc:	SF7DEC.SFF	RSE Homeowner Receiving Rate:	12.00%

STANDARD FACTORS SCREEN TWO - FACILITIES

RPMA Building SF Cost Index:	0.93	Rehab vs. New MilCon Cost:	59.00%
BOS Index (RPMA vs population):	0.5-	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: 0.00%	1997: 2.80%	1998: 2.90%	1999: 2.90%
			2000: 2.90%
			2001: 2.90%

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):	0.09
HHG Per Enl Family (Lb):	9,000.00	Heavy/Spec Vehicle(\$/Mile):	0.09
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):	2.90
Total HHG Cost (\$/100Lb):	35.00	Routine PCS(\$/Pers/Tour):	4,665.00
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



Department : ARMY  
 Option Package : MT5-2  
 Scenario File : C:\COBRA95\ARMY\MT5-2.CBR  
 Std Fctrs File : C:\COBRA95\ARMY\SF7DEC.SFF

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	2+2 BACHQ	(EA)	19,140
Maintenance Shops	(SF)	108	Optional Category G	( )	0
Bachelor Quarters	(EA)	46,227	Optional Category H	( )	0
Family Quarters	(EA)	96,040	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
Shipyards 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			

EXPLANATORY NOTES (INPUT SCREEN NINE)

Used Monterey, Ca. for the Per Diem Rate and Housing Rate for Ft. Hunter

Liggett, Ca.

# Document Separator

## Historical Economic Data

Activity: **FORT HUNTER LIGGETT**

Economic Area: **Salinas, CA MSA**

Total Population of Salinas, CA MSA (1992):	368,300
Total Employment of Salinas, CA MSA, BEA (1992):	198,186
Total Personal Income of Salinas, CA MSA (1992 actual):	\$7,484,834,000

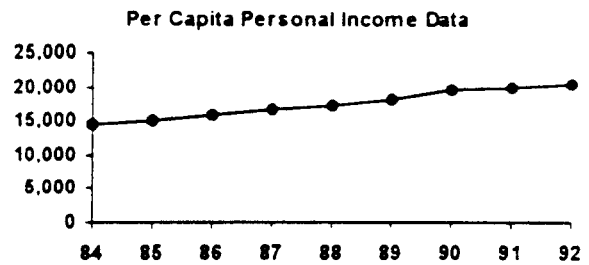
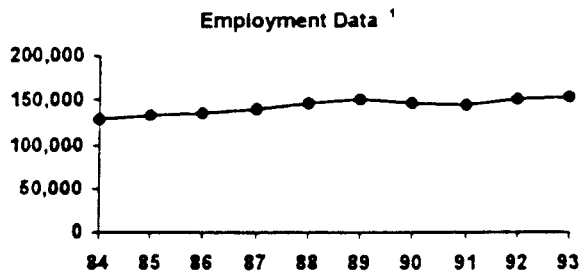
**Other Pending BRAC Actions at FORT HUNTER LIGGETT (Previous Rounds):**

MIL	0	17	0	0	0	0	0	0	0	17
CIV	0	146	0	0	0	0	0	0	0	146

**Salinas, CA MSA Profile:**

Civilian Employment, BLS (1993): 153,551

Average Per Capita Income (1992): \$20,322



**Annualized Change in Civilian Employment (1984-1993)**

**Annualized Change in Per Capita Personal Income (1984-1992)**

Employment: 2.809  
 Percentage: 2.1%  
 U.S. Average Change: 1.5%

Dollars: \$741  
 Percentage: 4.4%  
 U.S. Average Change: 5.3%

**Unemployment Rates for Salinas, CA MSA and the US (1984 - 1993):**

	<u>1984</u>	<u>1985</u>	<u>1986</u>	<u>1987</u>	<u>1988</u>	<u>1989</u>	<u>1990</u>	<u>1991</u>	<u>1992</u>	<u>1993</u>
Local	10.7%	10.6%	10.4%	8.7%	8.4%	8.1%	9.0%	10.9%	12.2%	12.3%
U.S.	7.5%	7.2%	7.0%	6.2%	5.5%	5.3%	5.5%	6.7%	7.4%	6.8%

# Document Separator

## B. MAJOR TRAINING AREAS.

The installations listed below were evaluated within the Major Training Area category.

- Fort A.P. Hill, Virginia
- Fort Hunter Liggett, California
- Fort Pickett, Virginia
- Fort Chaffee, Arkansas
- Fort Indiantown Gap, Pennsylvania
- Fort Polk, Louisiana
- Fort Dix, New Jersey
- Fort Irwin, California
- Fort Greely, Alaska
- Fort McCoy, Wisconsin

The following map shows the geographic location of each installation.

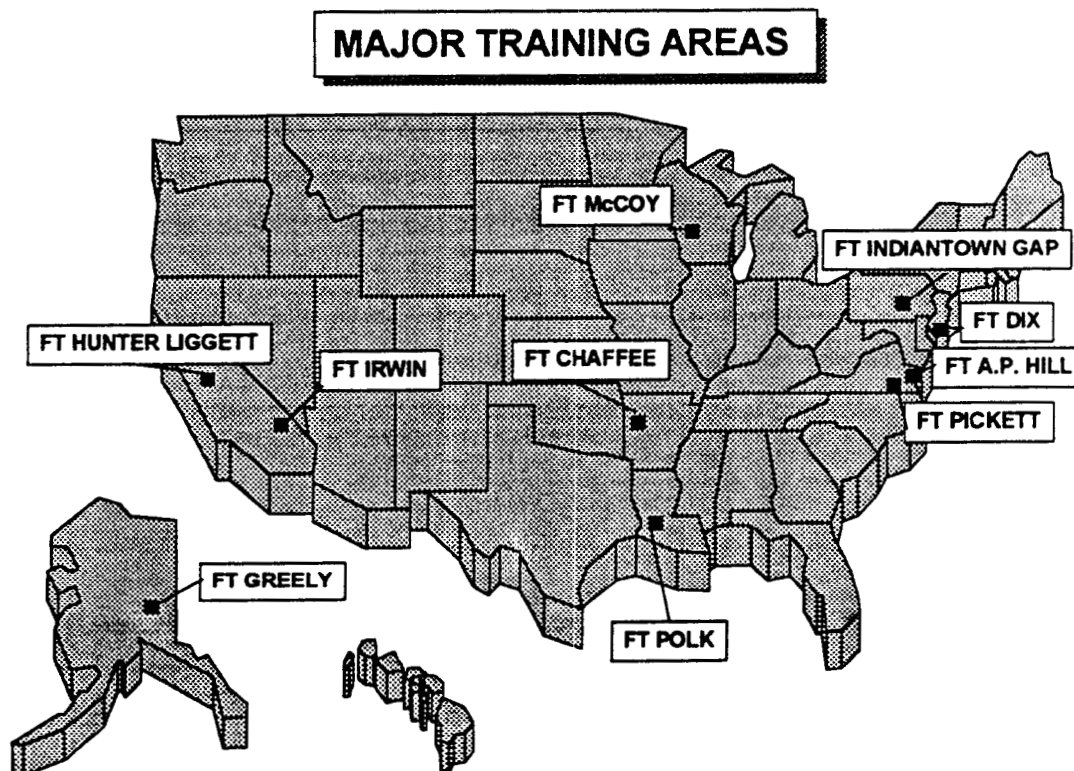


Figure 13.

reduce the number of major training areas focused primarily on RC training support. As a result, Fort Hunter Liggett was chosen as a candidate for further study. The Army recommends realigning Fort Hunter Liggett.

#### **Fort Irwin, California**

Fort Irwin is the home to the National Training Center (NTC). The NTC's mission is to provide tough, realistic combined arms and services joint training in accordance with operations doctrine for brigades and regiments in a mid-to-high intensity environment. In addition, the NTC provides lessons learned for training, doctrine, and equipment improvements. As one of two CONUS-based Combat Training Centers, Fort Irwin plays a key role in maintaining Army readiness. Therefore, it was not selected for further study.

#### **Fort McCoy, Wisconsin**

Fort McCoy's primary mission is to provide training for the readiness of RC forces. The Army Stationing Strategy emphasizes the need to reduce the number of major training areas focused primarily on RC training support. As a result, Fort McCoy was chosen as a candidate for further study. The Army decided that closure is operationally infeasible due to the training requirements of the RC.

#### **Fort Pickett, Virginia**

Fort Pickett's primary mission is to provide training facilities, maneuver training areas, base operations, and mobilization support to Reserve Component units, as well as the Active Component and other services. The Army Stationing Strategy emphasizes the need to reduce the number of major training areas focused primarily on reserve component training support. As a result, Fort Pickett was chosen as a candidate for further study. The Army recommends closing Fort Pickett, except for a reserve component enclave.

#### **Fort Polk, Louisiana**

Fort Polk is the home of the Joint Readiness Training Center (JRTC). The JRTC provides tough, realistic, light infantry and joint services training in accordance with operational doctrine for low to mid-to-high intensity environments. In addition, the JRTC provides lessons learned for training, doctrine, and equipment improvements. Fort Polk also supports the 2nd ACR and other contingency force units supporting XVIII Airborne Corps. As one of two CONUS-based Combat Training Centers, Fort Polk plays a key role in maintaining Army readiness. Therefore, it was not selected for further study.

## B. MAJOR TRAINING AREAS

Major Training Areas provide facilities to both Active Component (AC) and Reserve Component (RC) units for training exercises. With the exception of Fort Irwin and Fort Polk, there are currently no active component tactical units stationed at these installations. These installations vary a great deal in characteristics, capabilities, and organizational structure. Fort Irwin, with the National Training Center, is a very large and sophisticated training area which is predominately AC oriented. Fort Indiantown Gap is a relatively small sub-installation with an RC orientation. The majority of the training supported by this category is performed by the RC.

The installations listed below were those evaluated within the Major Training Area category:

- Fort A.P. Hill, Virginia
- Fort Chaffee, Arkansas
- Fort Dix, New Jersey
- Fort Greely, Alaska
- Fort Hunter Liggett, California
- Fort Indiantown Gap, Pennsylvania
- Fort Irwin, California
- Fort McCoy, Wisconsin
- Fort Pickett, Virginia
- Fort Polk, Louisiana

### **(1) Criteria, Attributes and Weights.**

The following DoD Selection Criteria, attributes and weights were used to evaluate the Major Training Areas:

(b) **Land and Facilities.** Six attributes measure an installation's ability to house its work force and family members. They are weighted as follows:

<u>Attribute</u>	<u>Points</u>
Work Space	60
Percent Permanent Facilities	30
Average Age of Facilities	25
Barracks	60
Infrastructure	25
Environmental Capacity	25
<hr/>	
Total	225

The overall availability of barracks space, the quality (measured by % permanent and average age), and quantity of work space were considered the most important aspects of land and facilities. These four attributes combined for a total of 175 points (77.8%).

The last two attributes measure an installation's ability to support its current needs plus predicts an installation's future needs when missions dictate expandability. These two attributes were given fifty points (22.2%).

(c) **Contingency, Mobilization, and Future Requirements.** Five attributes measure the ability of an installation to support contingency and mobilization missions and its ability to expand.

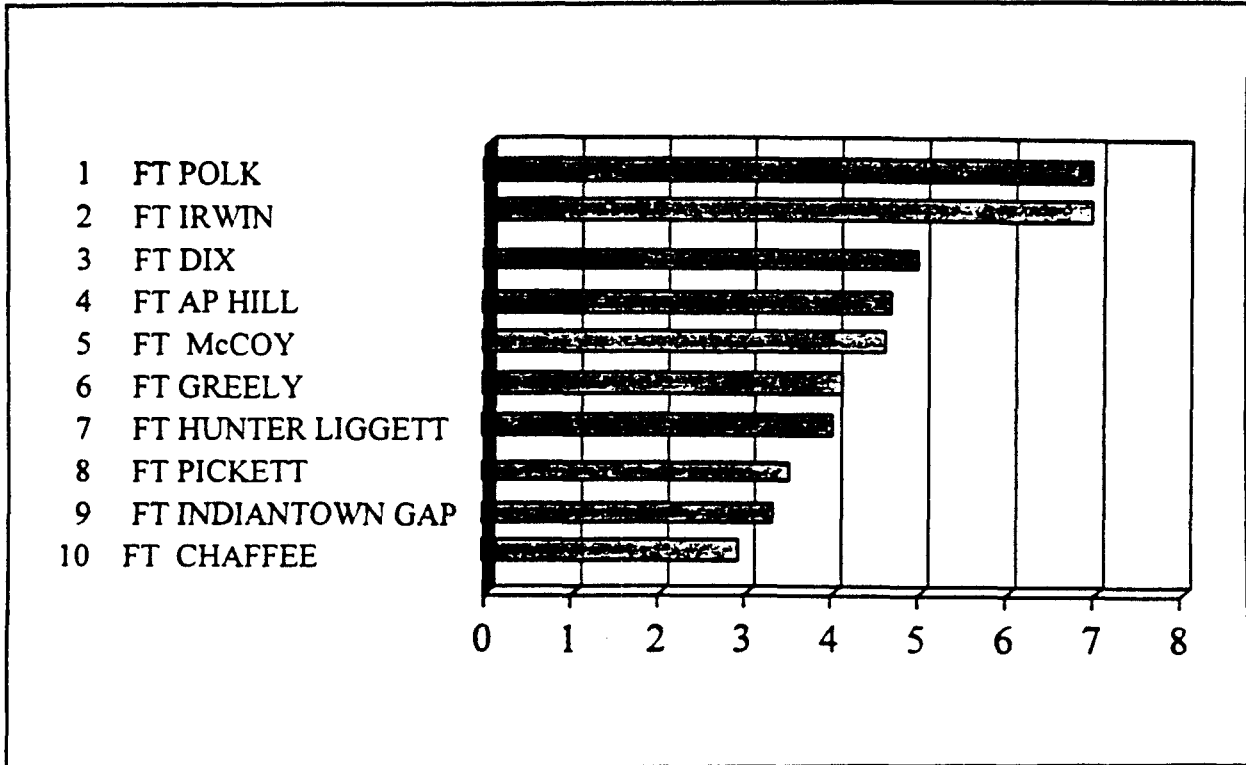
<u>Attribute</u>	<u>Points</u>
Mobilization Capability	30
Buildable Acres	35
Encroachment	20
IMA	10
Deployment Network	30
<hr/>	
Total	125

Mobilization capability is the ability of an installation to train, equip, house, and deploy units during times of a national emergency. This attribute is assigned thirty points (24%).



the cost of capital investments for the modernization of facilities. This attribute was given thirty points (15%).

**(2) Installation Rankings - MAJOR TRAINING AREAS**



**Figure 6.** Installation Assessment Rankings - MAJOR TRAINING AREAS

		FORT CHAFFEE	FORT DIX	FORT GREELY
	WEIGHT			
MANEUVER ACRES	120	62046.0-	43000.0--	319500.0++
RANGES	70	0.1--	5.0	0.1--
RESERVE TRAINING	70	1.2-	8.3++	0.0-
MECHANIZED MNV ACRES	80	56441.0	10000.0-	0.0-
IMPACT ACRES	70	4.1	4.3	10.0++
SPECIAL AIRSPACE	40	459.4	48.2-	8608.3+
MISSION REQUIREMENTS	--- 450	1.6	3.1	4.7
WORK SPACE	60	43000.0-	536000.0+	199000.0
‡ PERM FAC	30	2.7-	86.2+	70.6
AVG AGE OF FACILITIES	25	51.0-	34.0	32.0
INFRASTRUCTURE	25	4.2	3.2	5.6
BARRACKS	60	0.0	12841.0++	806.0
ENVIRONMENT CAPACITY	25	9.1	5.9	8.1
LAND AND FACILITIES	--- 225	1.5	6.9	3.8
MOB CAPABILITY	30	2.8	5.0	2.7
BUILDABLE ACRES	35	7901.0	426.0	500.0
ENCROACHMENT	20	100.7	1413.2-	0.2
DEPLOYMENT NETWORK	30	6.8	9.7	4.7
IMA	10	265.0	965.0	765.0
FUTURE REQUIREMENTS	--- 125	4.5	4.1	3.8
COST OF LIVING INDEX	60	91.2+	111.3-	120.5--
LOCALITY PAY	35	1.0309	1.0496	1.0800--
BASOPS FACTOR	75	74797.406--	9010.500+	20113.551
MCA COST FACTOR	30	0.920	1.190	2.170-
COST AND MANPOWER	--- 200	6.1	6.7	3.0
	===			
SCORE	1000	2.8	4.8	4.0
RANK		10	3	6

Table 10. Major Training Areas Decision Pad Model (Table 2 of 4)

		FORT POLK
	WEIGHT	
MANEUVER ACRES	120	163000.0+
RANGES	70	10.0++
RESERVE TRAINING	70	1.2-
MECHANIZED MNV ACRES	80	163000.0+
IMPACT ACRES	70	4.1
SPECIAL AIRSPACE	40	13628.3+
MISSION REQUIREMENTS	--- 450	5.3
WORK SPACE	60	1048000.0++
% PERM FAC	30	74.6
AVG AGE OF FACILITIES	25	21.0
INFRASTRUCTURE	25	5.8
BARRACKS	60	5590.0+
ENVIRONMENT CAPACITY	25	9.0
LAND AND FACILITIES	--- 225	7.6
MOB CAPABILITY	30	7.9+
BUILDABLE ACRES	35	3877.0
ENCROACHMENT	20	49.3
DEPLOYMENT NETWORK	30	7.9
IMA	10	1320.0
FUTURE REQUIREMENTS	--- 125	6.5
COST OF LIVING INDEX	60	92.4+
LOCALITY PAY	35	1.0309
BASOPS FACTOR	75	7152.170+
MCA COST FACTOR	30	0.960
COST AND MANPOWER	--- 200	9.7
	===	
SCORE	1000	6.8
RANK		1

Table 12. Major Training Areas Decision Pad Model (Table 4 of 4)

	WEIGHT	FORT CHAPPEE	FORT DIX	FORT GREELEY
# MPRC	45	N--	N--	N--
# RETS FIRING POINTS	45	0--	32++	0--
# RANGES	5	17	55	15
# MOUT	5	N	N	N
RANGES	--- 100	0.1	5.0	0.1
IMPACT ACRES	60	5606-	14000-	254103++
TUBE ARTILLERY?	5	Y	Y	Y
AIR FORCE BOMBING?	5	Y	Y	Y
ATTACK HELICOPTER?	5	Y	Y	Y
ALL THREE?	15	Y	Y	Y
MLRS CAPABLE?	10	Y	Y	Y
IMPACT ACRES	--- 100	4.1	4.3	10.0
MILES TO RAIL TRANS	30	5+	12	107--
MILES TO AIR TRANS	30	0+	0+	70
MILES TO SEA TRANS	30	589--	45+	253
MILES TO HIGHWAY	10	5	0	1
DEPLOYMENT	--- 100	6.8	9.7	4.7
ANNUAL TNG(# PEOPLE)	25	8125	15570	151-
IDT (MANDAYS)	75	33183--	299687++	44--
RESERVE TRAINING	--- 100	1.2	8.3	0.0
ARCH/HIST BLDGS	10	0.00140	0.00003	0.00001
ENDGRD FAUNA/FLORA	15	1	0+	0+
WETLANDS	15	0.00036	0.16095	0.46800-
AIR QUALITY	15	1+	10-	1+
WATER QUALITY	15	10	88-	0
NOISE QUALITY	0	0	0	0
ZONE II	10	141	445	0
ZONE III	15	0	135	0
CONTAMINATED SITES	5	13	34	42
ENV CAR CAPACITY	--- 100	9.1	5.9	8.1
CAPACITY WATER	25	5	4	4
CAPACITY SEWAGE	25	4	8+	14+
CAPACITY ELECT	25	20	28	6-
LANDFILL COST	25	\$0+	\$50-	\$0+
INFRASTRUCTURE	--- 100	4.2	3.2	5.6
MOB BILLETS	10	13243	17350	0-
DEPLOYMENT NETWORK	10	6.8	9.7	4.7
RANGES	10	0.1	5.0	0.1
MANEUVER ACRES	10	63059	43000	319500+
MECHANIZED ACRES	10	56441	10000	0
WORK SPACE	10	43000	536000	199000
MOB CAPABILITY	--- 60	2.8	5.0	2.7

Table 14. Major Training Areas Sub Models (Table 2 of 4)

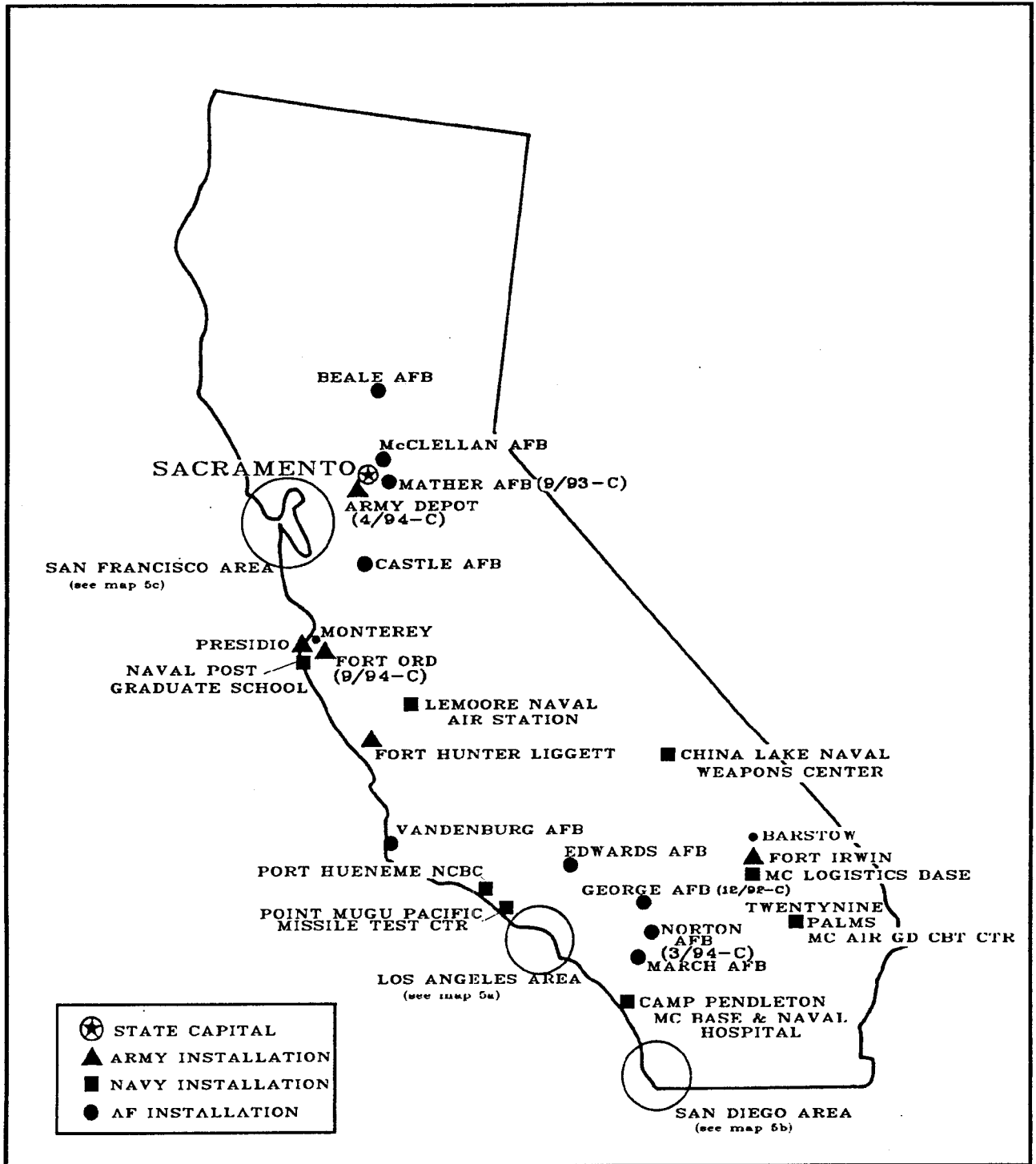
		FORT HUNTER LIGGETT	
	WEIGHT		
# MPRC	45		Y++
# RETS FIRING POINTS	45		0--
# RANGES	5		1
# MOUT	5		N
RANGES	---	100	4.5
IMPACT ACRES	60		162962++
TUBE ARTILLERY?	5		N-
AIR FORCE BOMBING?	5		N-
ATTACK HELICOPTER?	5		N
ALL THREE?	15		N-
MLRS CAPABLE?	10		N-
IMPACT ACRES	---	100	3.8
MILES TO RAIL TRANS	30		30
MILES TO AIR TRANS	30		81
MILES TO SEA TRANS	30		145
MILES TO HIGHWAY	10		23
DEPLOYMENT	---	100	7.1
ANNUAL TNG (# PEOPLE)	25		3364-
IDT (MANDAYS)	75		0--
RESERVE TRAINING	---	100	0.2
ARCH/HIST BLDGS	10		0.00244
ENDGRD FAUNA/FLORA	15		3-
WETLANDS	15		0.00607
AIR QUALITY	15		10-
WATER QUALITY	15		0
NOISE QUALITY		0	0
ZONE II	10		800
ZONE III	15		1000-
CONTAMINATED SITES	5		12
ENV CAR CAPACITY	---	100	5.0
CAPACITY WATER	25		1-
CAPACITY SEWAGE	25		1-
CAPACITY ELECT	25		12
LANDFILL COST	25		\$17+
INFRASTRUCTURE	---	100	2.0
MOB BILLETS	10		1145-
DEPLOYMENT NETWORK	10		7.1
RANGES	10		4.5
MANEUVER ACRES	10		163000
MECHANIZED ACRES	10		19500
WORK SPACE	10		144000
MOB CAPABILITY	---	60	3.1

Table 16. Major Training Areas Sub Models (Table 4 of 4)

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# MAP NO. 5

## CALIFORNIA



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

# CALIFORNIA

FISCAL YEAR 1994

(DOLLARS IN THOUSANDS)

Personnel/Expenditures	Total	Army	Navy & Marine Corps	Air Force	Other Defense Activities
<b>I. Personnel - Total</b>	374,554	84,068	201,952	74,881	13,653
Active Duty Military	143,220	13,696	97,700	31,824	0
Civilian	99,906	8,290	57,508	20,455	13,653
Reserve & National Guard	131,428	62,082	46,744	22,602	0
<b>II. Expenditures - Total</b>	<b>\$36,040,373</b>	<b>\$4,701,109</b>	<b>\$14,612,676</b>	<b>\$14,088,392</b>	<b>\$2,638,196</b>
<b>A. Payroll Outlays - Total</b>	13,467,267	1,570,280	8,518,650	2,866,189	512,148
Active Duty Military Pay	5,623,613	455,757	4,297,227	870,629	0
Civilian Pay	4,078,390	301,311	2,512,997	751,934	512,148
Reserve & National Guard Pay	352,659	180,700	75,380	96,579	0
Retired Military Pay	3,412,605	632,512	1,633,046	1,147,047	0
<b>B. Prime Contracts Over \$25,000 Total</b>	22,573,106	3,130,829	6,094,026	11,222,203	2,126,048
Supply and Equipment Contracts	11,822,927	959,587	2,788,174	7,060,256	1,014,910
RDT&E Contracts	4,278,899	1,017,963	684,280	1,887,332	689,324
Service Contracts	5,665,889	807,308	2,236,299	2,200,580	421,702
Construction Contracts	637,216	177,796	385,273	74,035	112
Civil Function Contracts	168,175	168,175	0	0	0

Major Locations of Expenditures	Expenditures			Major Locations of Personnel	Military and Civilian Personnel		
	Total	Payroll Outlays	Prime Contracts		Total	Active Duty Military	Civilian
San Diego	\$4,748,224	\$2,683,196	\$2,065,028	San Diego	38,871	25,897	12,974
Long Beach	3,550,195	330,892	3,219,303	Camp Pendleton	30,761	28,394	2,367
Pico Rivera	3,272,224	4,824	3,267,400	McClellan AFB	12,962	2,870	10,092
Sunnyvale	3,088,332	93,664	2,994,668	North Island NAS	10,527	5,142	5,385
Los Angeles	1,409,989	199,572	1,210,417	Travis AFB	9,683	7,677	2,006
Sacramento	928,313	137,557	790,756	Monterey	8,931	5,996	2,935
Camp Pendleton	923,961	803,482	120,479	Twentynine Palms	8,763	8,026	737
Travis AFB/Fairfield	517,962	356,453	161,509	Edwards AFB	8,137	4,690	3,447
North Island NAS	506,163	476,268	29,895	Oakland	7,486	1,974	5,512
Edwards AFB	493,650	249,240	244,410	El Toro	6,664	5,665	999

Prime Contracts Over \$25,000 (Prior Three Years)	Total	Army	Navy & Marine Corps	Air Force	Other Defense Activities
Fiscal Year 1993	\$22,951,965	\$2,917,702	\$7,945,883	\$9,419,942	\$2,668,438
Fiscal Year 1992	23,843,135	3,536,823	8,069,838	10,106,398	2,128,076
Fiscal Year 1991	24,265,041	4,098,936	7,269,024	10,954,901	1,922,180

Top Five Contractors Receiving the Largest Dollar Volume of Prime Contract Awards in this State	Total Amount	Major Area of Work	
		FSC or Service Code Description	Amount
1. NORTHROP GRUMMAN CORPORATION	\$3,464,882	Aircraft Fixed Wing	\$3,199,600
2. MCDONNELL DOUGLAS CORPORATION	3,389,624	Aircraft Fixed Wing	2,928,741
3. LOCKHEED CORPORATION	2,602,749	Guided Missiles	1,087,459
4. GENERAL MOTORS CORPORATION	1,478,702	Expert Witness	200,761
5. TRW INC	729,883	Drones	123,376
Total of Above	\$11,665,840	( 51.7% of total awards over \$25,000)	

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# CLOSE HOLD

## ARMY BRAC 95 LIST CALIFORNIA

### Branch U. S. Disciplinary Barracks (USDB)

- CLOSE USDB Lompoc and dispose of property (anticipate transfer to Bureau of Prisons).
- No jobs were affected as a result of this closure.

### East Fort Baker (-47 mil. / -50 civ.)

- CLOSE East Fort Baker and relocate all tenants to other installations that meet mission requirements. Return all property to the Golden Gate National Recreation Area. (8 civ. positions disestablished)
- Base X (location to be determined) personnel are added to military and civilian totals. (-47 mil. / -42 civ.)

### Rio Vista U. S. Army Reserve Center (USARC)

- CLOSE Rio Vista USARC and dispose of property
- No jobs were affected as a result of this closure.

### Fort Hunter Liggett (-393 mil. / -85 civ.)

- REALIGN Fort Hunter Liggett. (17 mil. and 5 civilian positions disestablished)
- Relocate the U. S. Army Test and Experimentation Center (TEC) missions and functions to Fort Bliss, Texas. Eliminate the active component mission. Retain minimum essential facilities and training area as an enclave to support the Reserve Components (RC). (-376 mil. / - 62 civ.)
- Base X (location to be determined) personnel are added to military and civilian totals. (-18 civ.)

### Sierra Army Depot (-53 mil. / -539 civ. /contr.)

- REALIGN Sierra Army Depot to a Depot Activity. (36 mil. and 363 civ. positions disestablished)
- Retain an enclave for operational project stocks (e.g., Force Provider (tent city), inland petroleum distribution system, water support system)
- There are 142 contractor jobs affected which are added to the civilian total.
- Remaining installation population is 240 civ.
- Base X (location to be determined) personnel are added to military and civilian totals. (-17 mil. / -34 civ.)

### State Personnel Summary

	Military	Civilian/Contractor
Personnel Loss	-493	-674
Personnel Gain	0	0

SECDEF will make an announcement on all DoD BRAC 95 recommendations later today, 28 Feb 95.

SECDEF will testify 1 Mar and SecArmy will testify on 7 Mar 95 before the BRAC Commission.

Copies of Army's report are available for copying in Room G2L2, Rayburn House Office Building and B15, Russell Senate Office Building.

# CLOSE HOLD

# Document Separator

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# Base Summary Sheet

06-Mar-95

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**INSTALLATION NAME:** FORT HUNTER LIGGETT

**STATE:** CA

**INSTALLATION MISSION:** Home of the Test and Experimentation Command Experimentation Center and the major maneuver training area for the California Army National Guard and western United States Army Reserve forces.

**DoD RECOMMENDATION:** Realign Fort Hunter Liggett by relocating the Test and Experimentation Command missions and functions to Fort Bliss, TX and eliminate the Active Component mission. Retain minimum essential facilities and training area as an enclave to support the Reserve Components.

**JUSTIFICATION:** Fort Hunter Liggett is low in military value compared to other Major Training Areas and has few Active Component tenants. Relocation of Test and Experimentation Command optimizes the unique test capabilities afforded by Fort Bliss and White Sands Missile Range.

**ITEMS OF SPECIAL INTEREST:**

**TOTAL COST TO CLOSE/REALIGN:** \$6,486,000

**ANNUAL SAVINGS:** \$5,480,000

**BREAK EVEN YEAR:** 1999 (1 Year)

**MILITARY POSITIONS LOST:** 393

**CIVILIAN POSITIONS LOST:** 85

**ENVIRONMENTAL CONSIDERATIONS:** A wetlands survey is not yet complete; the Kit Fox and the Bald Eagle are threatened or endangered species known to be on the installation. In a moderate non-attainment zone for ozone.

**MILITARY ISSUES:**

**ECONOMIC IMPACT (DIRECT/INDIRECT/TOTAL):** 478/208/686 (-0.3%)

**CUMULATIVE ECONOMIC IMPACT:** -0.3%

**COMMUNITY CONCERNS/ISSUES:**

**GOVERNOR:** Pete Wilson

**SENATORS:** Dianne Feinstein  
Barbara Boxer

**REPRESENTATIVE:** Sam Farr

**LOCAL OFFICIAL:**

# Document Separator

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# Fort Hunter Liggett, CA

06-Mar-95

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**BRAC CATEGORY:** Major Training Areas

**RANK IN CATEGORY:** 7 of 10

**OTHER INSTALLATIONS IN BRAC CATEGORY:** Fort A. P. Hill, VA; Fort Chaffee, AR; Fort Dix, NJ; Fort Greely, AK; Fort McCoy, WI; Fort Pickett, VA; Fort Polk, LA

**MAJOR COMMAND:** Forces Comman

**INSTALLATION MISSION:** Home of the Test and Experimentation Command Experimentation Center and the major maneuver training area for the California Army National Guard and western United States Army Reserve forces.

**MAJOR UNITS ASSIGNED:** Test and Experimentation Command Experimentation Center

**AUTHORIZED MILITARY:** 575

**AUTHORIZED CIVILIAN:** 411

**AVERAGE NUMBER OF STUDENTS:** 0

**FY 93 OPERATING COSTS:**

**TOTAL ACRES:** 164,762

**TOTAL BUILDABLE ACRES:** 20,000

**TOTAL BUILDING SQUARE FOOTAGE:** 782,000

**FAMILY HOUSING UNITS:**

**UNACCOMPANIED OFFICER HOUSING UNITS:** 60

**UNACCOMPANIED ENLISTED HOUSING SPACES:** 1,208

**VARIABLE HOUSING ALLOWANCE - OFFICER:** \$393

**VARIABLE HOUSING ALLOWANCE - ENLISTED:** \$320

**PER DIEM RATE:** \$100

**AREA COST FACTOR:** 1.44

**PLANT REPLACEMENT VALUE:** \$305,776,728

**HOSPITAL BEDS:** 0

**NEAREST CITY:** At Jolon; 20 miles southwest of King City

**ECONOMIC AREA:** Salinas, CA MSA

**NATIONAL PRIORITY LIST SITE:** No

**Y 94-99 ENVIRONMENTAL COMPLIANCE COSTS:** 26,030,000

**ENVIRONMENTAL CONSIDERATIONS:** A wetlands survey is not yet complete; the Kit Fox and the Bald Eagle are threatened or endangered species known to be on the installation. In a moderate non-attainment zone for ozone.

**GOVERNOR:** Pete Wilson

**SENATORS:** Dianne Feinstein  
Barbara Boxer

**REPRESENTATIVE:** Sam Farr

# Document Separator

# DRAFT

## DEFENSE BASE CLOSURE AND REALIGNMENT COMMISSION

### SUMMARY SHEET

#### FORT HUNTER LIGGETT

#### INSTALLATION MISSION

- Home of the Test and Experimentation Command Experimentation Center and the major maneuver training area for the California Army National Guard and western United States Army Reserve forces.

#### DOD RECOMMENDATION

- Realign Fort Hunter Liggett by relocating the Test and Experimentation Command missions and functions to Fort Bliss, Texas and eliminate the Active Component mission.
- Retain minimum essential facilities and training area as an enclave to support the Reserve Components.

#### DOD JUSTIFICATION

- Fort Hunter Liggett is low in military value compared to other Major Training Areas and has few Active Component tenants. Relocation of Test and Experimentation Command optimizes the unique test capabilities afforded by Fort Bliss and White Sands Missile Range.

#### COST CONSIDERATIONS DEVELOPED BY DOD

- One-Time Costs: \$ ~~6.486~~ million *6.694*
- Net Savings During Implementation: \$ ~~11.745~~ million *12.491*
- Annual Recurring Savings: \$ ~~5.480~~ million *5.742*
- Return on Investment Year: 1 year *(1999)*
- Net Present Value Over 20 years: \$ ~~64.367~~ million *67.619*

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

	<u>Military</u>	<u>Civilian</u>	<u>Students</u>
<b>Baseline</b>	<b>407</b>	<b>221</b>	<b>0</b>
Reductions	<i>21</i>	<i>56</i>	0
Realignments	<i>376 452</i>	<i>80 73</i>	0
Total	<i>393</i> <i>473</i>	<i>85 79</i>	0



# DRAFT

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

Out		In		Net Gain (Loss)	
<u>Military</u>	<u>Civilian</u>	<u>Military</u>	<u>Civilian</u>	<u>Military</u>	<u>Civilian</u>
393	85	0	0	(393)	(85)

## ENVIRONMENTAL CONSIDERATIONS

- A wetlands survey is not yet complete; the Kit Fox and the Bald Eagle are threatened or endangered species known to be on the installation. In a moderate non-attainment zone for ozone.

## REPRESENTATION

Governor: Pete Wilson  
Senators: Dianne Feinstein  
Barbara Boxer  
Representative: Sam Farr

## ECONOMIC IMPACT

- Potential Employment Loss: 686 jobs (478 direct and 208 indirect)
- Salinas, CA MSA Job Base: 198,186 jobs
- Percentage: 0.3 percent decrease
- Cumulative Economic Impact (1994-2001): 0.3 percent decrease

## MILITARY ISSUES

- The Joint Cross Service Working Group (Test & Evaluation) recommended against move of the Test Battalion to Fort Bliss, but the Army rejected it due to cost savings that could ensue by the realignment, which could not occur if the Test Battalion remained at the installation.

## COMMUNITY CONCERNS/ISSUES

- None identified.

## ITEMS OF SPECIAL EMPHASIS

- None identified.

Steve Bailey/Army Team/03/16/95 9:38 AM

# Army - Static Data

UIC: 06205

INSTALLATION NAME: FORT HUNTER LIGGETT

INSTALLATION TYPE: Major Training Area

STATE: CA

MAJOR COMMAND: Forces Command

RESOURCES: None

INSTALLATION MISSION: Home of the Test and Experimentation Command Experimentation Center and the major maneuver training area for the California Army National Guard and western United States Army Reserve forces.

MAJOR UNITS ASSIGNED: Test and Experimentation Command Experimentation Center

AUTHORIZED MILITARY: 575

AUTHORIZED CIVILIAN: 411

AVERAGE NUMBER OF STUDENTS: 0

OPERATING COSTS:

ECONOMIC AREA: Salinas, CA MSA

NEARBY CITY: At Jolon; 20 miles southwest of King City

NATIONAL PRIORITY ELEMENT:

FY 93 ENVIRONMENTAL COMPLIANCE COSTS: 26,030,000

ENVIRONMENTAL CONSIDERATIONS: A wetlands survey is not yet complete; the Kit Fox and the Bald Eagle are threatened or endangered species known to be on the installation. In a moderate non-attainment zone for ozone.

BRAC CATEGORY: Major Training Areas

TOTAL ACRES: 164,762

LOCAL TRAILHEAD ACRES: 20,000

TYPE OF BUILDING SQUARE FEET: 782,000

UNACCOMPANIED HOSTELING SPACES:

UNACCOMPANIED HOSTELING SPACES: 60

VARIABLE HOUSING ALLOWANCE PER HOUR: 1,208

VARIABLE HOUSING ALLOWANCE PER HOUR: \$393

VARIABLE HOUSING ALLOWANCE PER HOUR: \$320

PER SQUARE FOOT: \$100

PER ACRE: 1.44

TOTAL BRAC COST: \$305,776,728

HOSTELING: 0

BANK PAST CATEGORY: 7 of 10

DD FORM 1380-10-1000: Realign Fort Hunter Liggett by relocating the Test and Experimentation Command missions and functions to Fort Bliss, TX and eliminate the Active Component mission. Retain minimum essential facilities and training area as an enclave to support the Reserve Components.

TOTAL COST TO CLOSE REALIGN: \$6,486,000.00

CONSTRUCTION COSTS  
\$5,480,000.00  
1999 (1 Year)  
478/208/686 (-0.3%)  
-0.3%

[Redacted]

85

393

17

[Redacted]

[Redacted]

[Redacted]

[Redacted]

[Redacted]

[Redacted]

[Redacted]

[Redacted]

Pete Wilson

Dianne Feinstein  
Barbara Boxer

Sam Farr

Fort A. P. Hill, VA; Fort Chaffee, AR; Fort Dix, NJ; Fort Greely, AK; Fort McCoy, WI; Fort Pickett, VA; Fort Polk, LA

[Redacted]

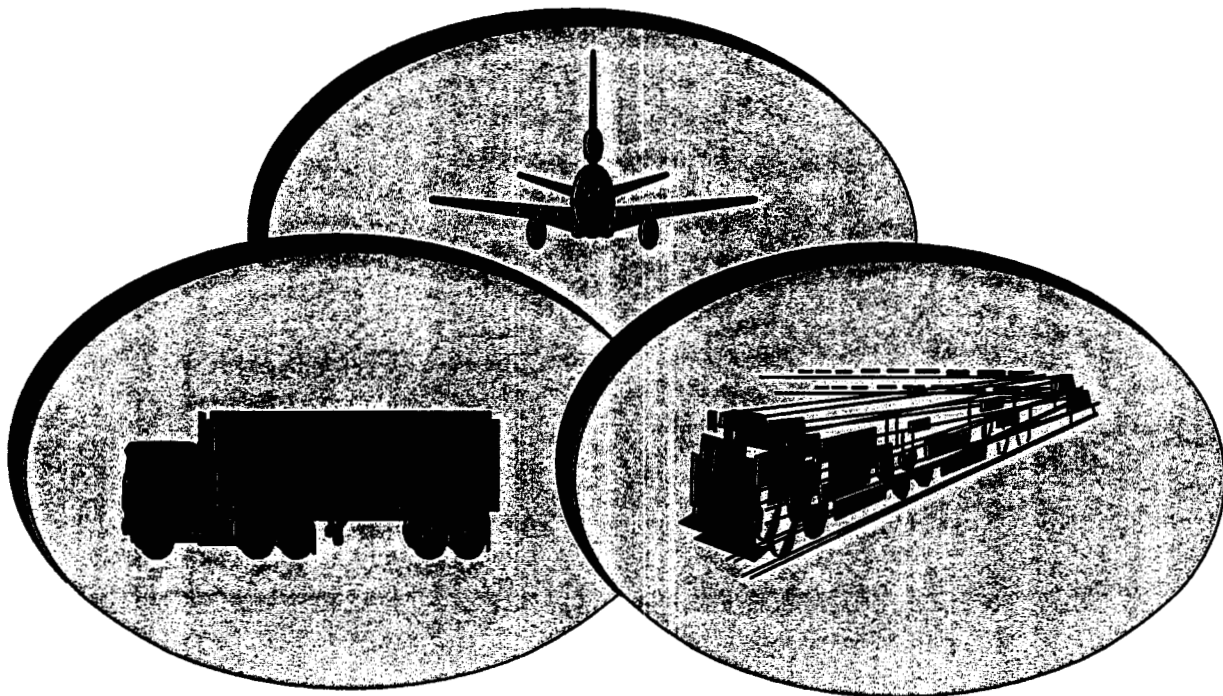
Fort Hunter Liggett is low in military value compared to other Major Training Areas and has few Active Component tenants. Relocation of Test and Experimentation Command optimizes the unique test capabilities afforded by Fort Bliss and White Sands Missile Range.

[Redacted]

[Redacted]

# Document Separator

# REGIONAL TRANSPORTATION INITIATIVES



**FORT BLISS**  
**TEXAS • NEW MEXICO**

# AIR



## BENEFITS

- FORT BLISS

- + IMPROVES POWER PROJECTION CAPABILITY
- + REVITALIZES BIGGS ARMY AIRFIELD INFRASTRUCTURE
- + COST/REVENUE SHARING ENHANCES POST LONG-TERM VIABILITY

- CITY OF EL PASO/REGION

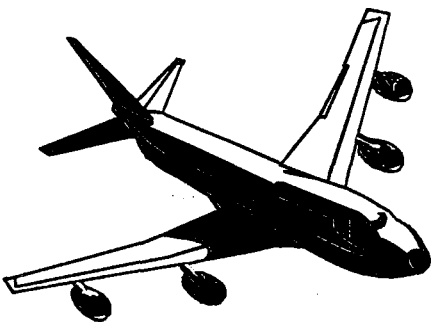
- + BUILDS REGIONAL AIRPORT
- + PHASE I OF AIR CARGO FACILITY EXPANSION
- + STIMULATES NAFTA AND REGIONAL GROWTH LONG TERM
- + ENSURES LONG TERM GROWTH **CAPACITY**
- + ENSURES FORT BLISS REMAINS VIABLE REGIONAL ENTITY

## COMPONENTS

### COSTS

● AIRPORT IMPROVEMENTS		\$45M
- AIRPORT IMPROVEMENT PROGRAM (AIP)	(\$34M)	
- CITY/LOCAL MATCHING	(\$11M)	
● AIR CARGO CENTER		\$32M
- FEDERAL/FAA *	(\$ 6M)	
- CITY/LOCAL	(\$26M)	

\* (EPIA AWARDED \$4M IN 1995)



# RAIL

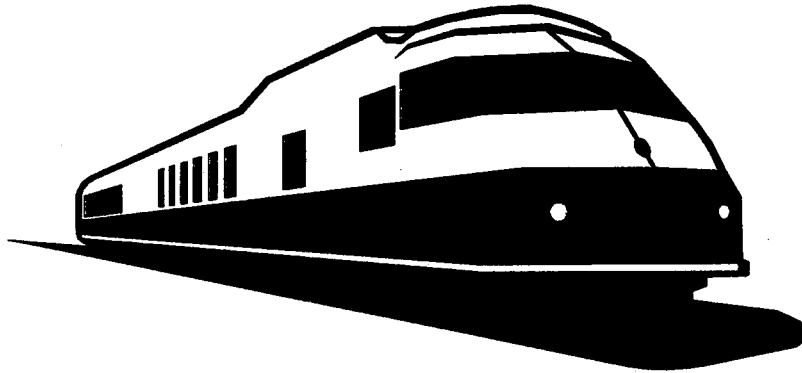
## BENEFITS

- FORT BLISS

- + CENTRALIZES MILITARY RAIL OPERATIONS
- + ENHANCES POWER PROJECTION CAPABILITY

- CITY OF EL PASO/REGION

- + PROVIDES INTEGRATED RAIL/AIR/ROAD NETWORK
- + BUILDS INITIAL STATE-OF-THE-ART (DUAL-USE) INTERMODAL FACILITY
- + PROMOTES REGIONAL ECONOMIC OPPORTUNITY/THINKING
- + BEGINS RELOCATION OF RAIL SYSTEMS FROM CONGESTED AREAS OF CITY TO MORE DESIRABLE REGIONAL SITES



## COMPONENTS

- RAIL HUB

\$50M

- FEDERAL/RAIL (\$50M)
- CITY/LOCAL (\$ ?M)

CONNECTION

(M???)  
(M???)

REGIONAL AIRPORT  
 - - - JOINT USE  
 - - - AIR CARGO  
 - - - INNER LOOP

RAILROAD FACILITIES

COMMERCIAL / AIR CARGO

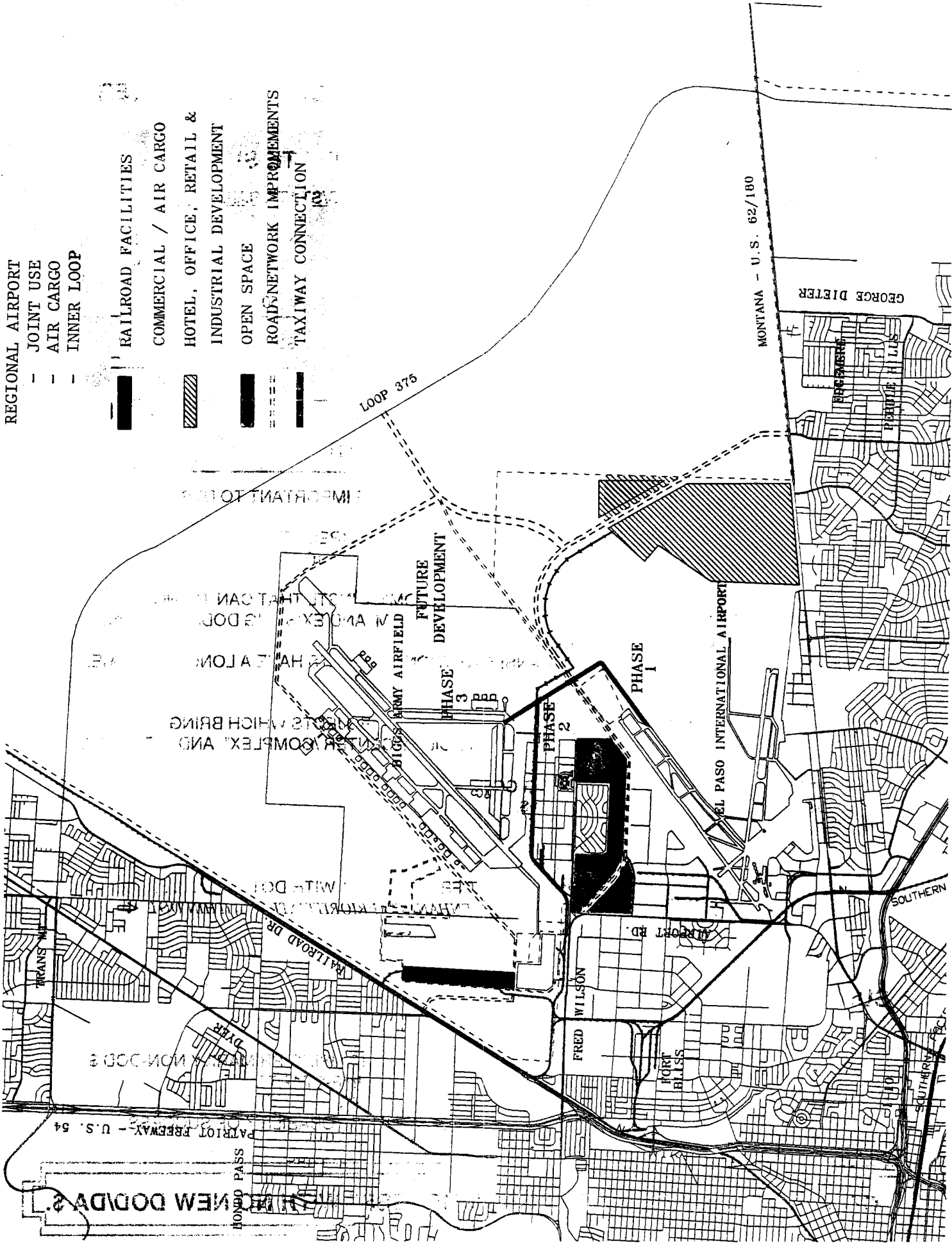
HOTEL, OFFICE, RETAIL &

INDUSTRIAL DEVELOPMENT

OPEN SPACE

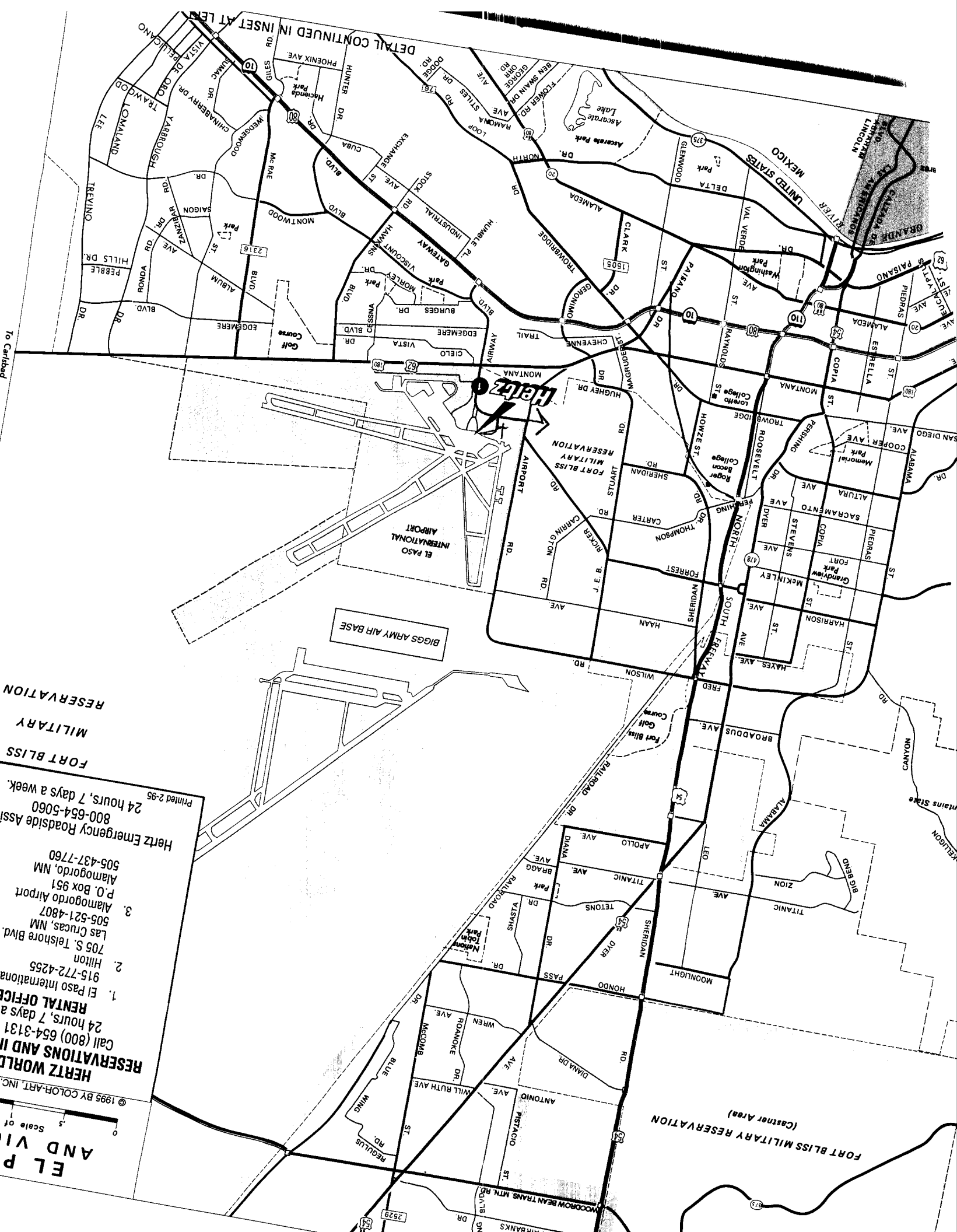
ROAD/NETWORK IMPROVEMENTS

TAXIWAY CONNECTION





# Document Separator



EL PASO AND VIL

Scale of 1:50,000

HERTZ WORLDWIDE RENTALS AND SERVICE  
Call (800) 654-3131  
24 hours, 7 days a week

- 1. El Paso International Airport  
915-772-4255  
Hilton
- 2. 705 S. Telshore Blvd.  
Las Cruces, NM  
505-521-4807
- 3. Alamogordo Airport  
P.O. Box 951  
Alamogordo, NM  
505-437-7760

Hertz Emergency Roadside Assistance  
800-654-5060  
24 hours, 7 days a week

FORT BLISS MILITARY RESERVATION

BIGGS ARMY AIR BASE

EL PASO INTERNATIONAL AIRPORT

Ascarate Lake

UNITED STATES MEXICO

DETAIL CONTINUED IN INSET AT LEFT

To Carlsbad

# Document Separator

STREET

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vice

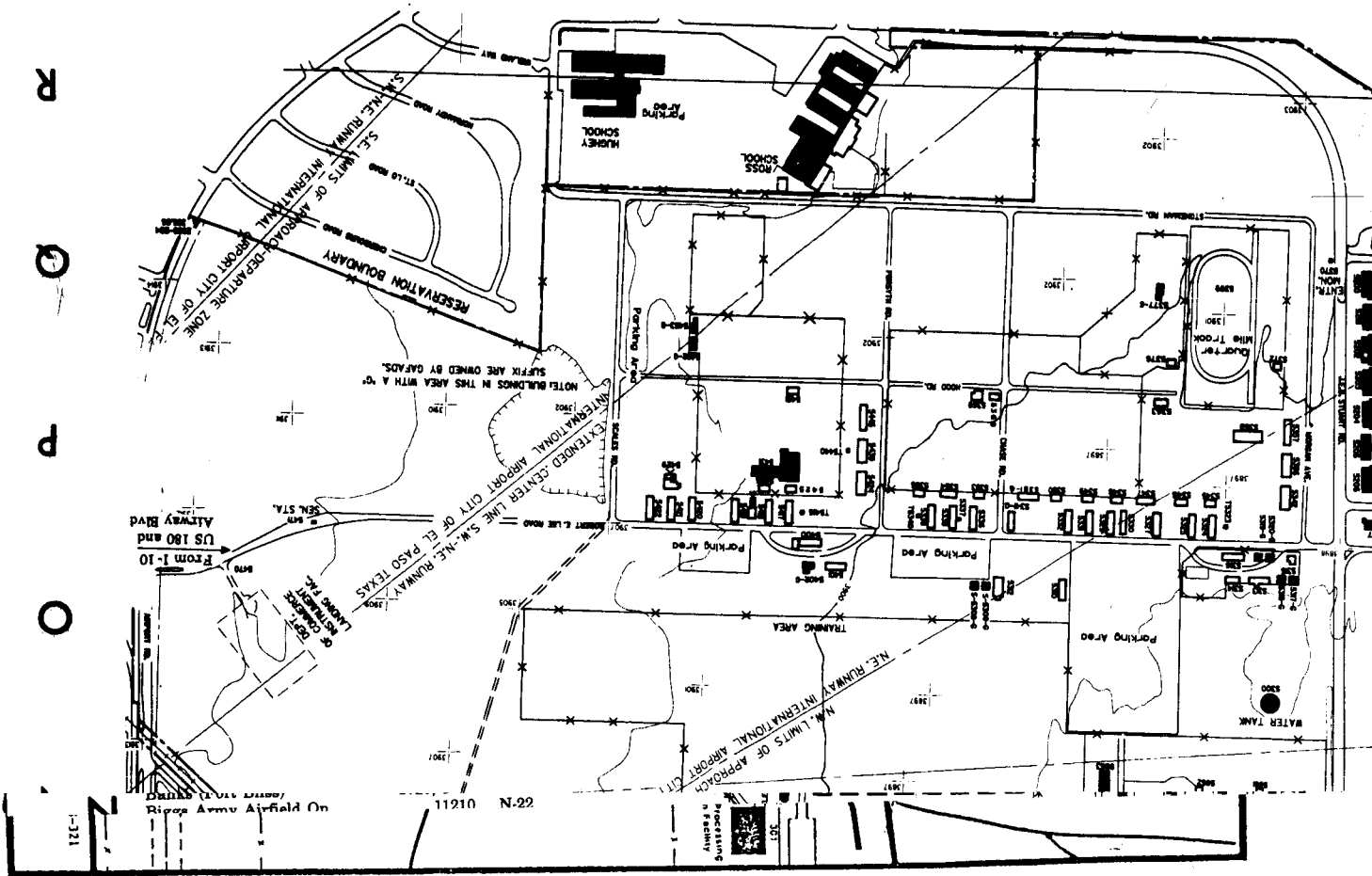
9  
10  
11  
12  
13  
14  
15

# 1 FEBRUARY 1988

## Fort Bliss, Texas

### INSTALLATION MAP

T  
S  
R  
Q  
P  
O



Telephone..... : 386-2902  
Hours..... : 1230-1900 Tue-Fri, 1000-1630  
Sat

Bowling Center  
POC..... : Ms Hansen  
Location..... : Bldg 121  
Telephone..... : 386-0357  
Hours..... : 1430-2200 Tues-Sat

RECREATION CENTER  
POC..... : MR Blair  
Location..... : Bldg 287  
Telephone..... : 386-2406  
Hours..... : 1200-2100 M-F 1300-2100  
Sat-Sun

Libraries  
POC..... : Ms Lewis  
Location..... : Bldg 205  
Telephone..... : 386-2719  
Hours..... : 1100-1700 Sun&Fri, 1100-1800  
M-W

Community Club(Haceinda)  
POC..... : Mr Morehouse  
Location..... : Bldg 101  
Telephone..... : 386-2762  
Hours..... : M-F 0630-0800, 1100-1300,  
1630-2100

Outdoor Recreation-Adventure  
POC..... : Mr Andersen  
Location..... : Bldg 630  
Telephone..... : 386-2214  
Hours..... : Fri-Mon 0430-1800

Sports & Fitness Center  
POC..... : Mr Hernandez  
Location..... : Bldg 212  
Telephone..... : 386-2784  
Hours..... : M-F 0600-0800/1100-2100  
:Sat-Sun 1100-1900

Frame Shop  
POC..... : Mr Varney  
Location..... : Bldg 198  
Telephone..... : 386-2210  
Hours..... : Wed 1200-2000, Sat 1000-1800  
:Sun 1300-1700

#### CHAPEL SERVICES AND PROGRAMS

Catholic Mass  
Location..... : San Antonio Mission  
Telephone..... : 385-4478  
Hours..... : Daily Mass 0730, Sat 0700  
Comments..... :

Sun Mass 1000

Protestant Service  
Location..... : Post Chapel  
Telephone..... : 386-2808  
Hours..... : Sunday Service 1100

#### SITE

WELCOME

WELCOME TO SITES  
ver 1.3  
(Standard Installation Topic Exchange Service)  
for

STATE/COUNTRY	SITE	SVC	COUNTY	ZIP
CALIFORNIA	FT. HUNTER LIGGETT	ARMY	MONTEREY	93928

This database was compiled by the site relocation  
MANAGER: DAWN RENAE VIEIRA  
You can contact this individual at:  
DSN: 686-2762 or commercial: 408-386-2762/2612

Information updated as of: 28 NOV 1994

The listings and other information contained in this  
database do not constitute an endorsement by the  
Department of Defense nor is the data intended  
to be inclusive of all services or agencies.

SITE0440

DISN:<SITES0440>@lewis-emh2.army.mil

#### GENERAL INFORMATION SITE

##### OVERVIEW SITE

Location..... : JOLON, CA  
Major Command..... : UNITED STATES ARMY GARRISON  
Mission..... : SUPPORT TESTING AND TRAINING  
Climate..... : HOT & DRY  
Temperature Range..... : 50-106 DEGREES F, IT IS  
NOT UNCOMMON IN THE SUMMER TO WAKE UP TO 60 DEGREES AND BY  
LUNCH TIME THE TEMPERATURE WILL BE UP TO 106 DEGREES.  
Population assigned-served..... : 1811  
Active Duty Officer..... : 43  
Active Duty Enlisted..... : 462  
Family Members..... : 773  
Retirees..... :  
Civilian Employees..... : 533  
Reserve Component Officers... : EXPECTED TO ARRIVE SOON  
Reserve Component Enlisted... : EXPECTED TO ARRIVE SOON  
Telephone Access..... : 408-386-2030(POST LOCATER)

History Fort Hunter Liggett consists of 165,000 acres of  
mountainous high desert, located approximately 30 miles inland  
from the Pacific Ocean. The Fort was purchased from William  
Randolph Hearst's Estate in 1940, and was used to train soldiers

PCS

Inprocessing/Outprocessing, Portcalls, Levy Section, and some Finance is handled through the Garrison MILPO. Each Unit PAC assists with initial paperwork, TEXCOM PAC number is 386-2203.

INPROCESSING

POC..... : SFC LASTER
Location..... : BLDG 205
Telephone..... : 386-2533
Hours..... : 0900-1630 MON-FRI

OUTPROCESSING

POC..... : SAME AS ABOVE

TDY-TAD

SEPARATION

TEMPORARY LODGING

BILLETING

BILLETING OFFICE

POC..... : MRS GILLET
Location..... : BLDG 205
Telephone..... : 386-2511
Hours..... : 0800-1630
Comments..... :

AFTERHOURS ROOM KEY PICK-UP IS AT RANGE CONTROL, LOCATED ON MISSION ROAD. PHONE 386-2503/2403

FAMCAMP-CAMPGROUND

CAMPING RESERVATIONS OFFICE

POC..... : OUTDOOR RECREATION
Location..... : Bldg 630
Telephone..... : 386-2214
Hours..... : Fri-Mon 0800-1800
Comments..... :

This is a primitive campground.

TRAVEL

Travel of Unaccompanied Family Members

Travel Office-Commercial Travel Office

POC Name..... : SATO
Location..... : Recreation Center Bldg 287
Telephone..... : 386-2406
Hours..... : 1200-2100Mon-Fri,1300-2100 SAT&Sun

686-xxxx. Some numbers listed below start with 242, this indicates that they are services located at Ft Ord and not available at Ft Hunter Liggett.

- American Red Cross..... : 242-7801
Army Community Services..... : 386-2762
Army Emergency Relief..... : 386-2612
Billeting..... : 386-2511
Chaplain..... : 386-2808
Community Club(Hacienda)..... : 386-2588
Command Post..... : 386-2505
Commissary..... : 386-2178
Coordinated Care(TRICARE/CHAMPUS): 386-2570
Education Office..... : 386-2507
Exchange..... : 386-2896
Fire Department..... : 386-2527
Hospital..... : 911
Housing Office..... : 386-2108
ID Cards/DEERS..... : 386-2533
Legal Office..... : 386-2714
Library..... : 386-2719
Outdoor Recreation..... : 386-2214
Police..... : 386-2613
Travel Office..... : 386-2406(SATO)
Vehicle Registration on post.... : 386-2513
Veterinary Services at FT Ord... : 242-4994

MAJOR UNIT LISTING

TEST & EXPERIMENTATION COMMAND

Commander..... : 386-2644
Duty-Orderly Room..... : 386-2109

UNITED STATES ARMY GARRISON

Commander..... : 386-2533
Duty-Orderly Room..... : 386-2509

SITE TRANSPORTATION

SATO, OMEGA, etc.

Location..... : Recreation Center
Telephone..... : 386-2406
Hours..... : Mon-Fri 12-9pm SAT&Sun 1-9pm

COMMISSARY AND EXCHANGE OPERATIONS

Housing Referral Office  
 POC..... : STAFF  
 Location..... : BLDG 205  
 Telephone..... : 386-2511  
 Hours..... : 0800-1600 MON-FRI  
 Comments..... :

The senior enlisted and officer units are counted together and the lower enlisted are separate. So the total number of units varies by category. On Ft Hunter Liggett there are 59 total junior enlisted units and 26 Officer and Senior Enlisted. It takes approximately one year to get housing.

Billeting Office  
 Location..... : BLDG 205  
 Telephone..... : 386-2511  
 Hours..... : 0800-1600 MON-FRI

COMMUNITY HOUSING

COMMUNITY HOUSING: Though housing in Monterey County is expensive, winters are moderate, and utility costs should be low. Low-priced miles of the front gate. About 90% of the Landlords do not accept pets. Those who do accept pets usually charge \$75-100 additional deposit per pet, and some ask a monthly fee. The average cost for a two bedroom unfurnished apartment starts at 670.00.

Housing Referral Office  
 POC..... : STAFF  
 Location..... : BLDG 205  
 Telephone..... : 386-2511  
 Hours..... : 0800-1600 M-F

UTILITIES

CMTY

GENERAL INFORMATION CMTY

OVERVIEW CMTY

AREA DEMOGRAPHICS

EVENTS CALENDAR

The Great Monterey Squid Festival  
 Location..... : Monterey County Fairgrounds  
 Telephone..... : 408-649-6547  
 Date(s)..... : MAY  
 Comments..... :

Entertainment, cooking demonstrations, arts and crafts

ATTRACTIONS

CULTURAL

HEARST CASTLE  
 Telephone..... :  
 INFORMATION..... : 805-927-2000  
 Tickets..... : 805-238-0078  
 Comments..... :

Contact the Rec Center for more information on guided tours and military rates.

SAN ANTONIO MISSION  
 Location..... : ON POST  
 Telephone..... : 385-1126

Monterey Bay Aquarium  
 Location..... : Cannery Row  
 Telephone..... : 408-648-4888  
 Hours..... : 1000-1800 Daily

Point Sur State Historic Park  
 Location..... : Highway 1, South of Monterey  
 Telephone..... : 408-625-4419  
 Comments..... :

Guided two and half hour tours of a century old lighthouse and surroundings.

RECREATION

THERE ARE MANY NATIONAL PARKS WITHIN DRIVING DISTANCE THAT CAN BE ENJOYED BY THE WHOLE FAMILY. CONTACT THE RECREATION CENTER FOR MORE INFORMATION AT EXT 2406.

CIVIC ORGANIZATIONS

KING CITY ROTARY  
 Location..... : KING CITY  
 Comments..... :

KING CITY ROTARY CLUB MEETS EACH WEDNESDAY AT 12:15P.M. AT KEEFER'S RESTAURANT

SHOPPING

Comments..... : IT IS IMPERATIVE THAT  
FAMILY MEMBERS ENROLL IN THE TRI-CARE/CHAMPUS PROGRAM UPON  
ARRIVAL AT FT HUNTER LIGGETT. ALL NON-EMERGENCY FAMILY MEMBER  
HEALTH CARE IS HANDLED BY CIVILIAN PHYSICIANS WHO PARTICIPATE IN  
THE PROGRAM.

#### COMMUNITY HOSPITALS

##### MEE GEO L MEMORIAL HOSPITAL

Location..... : 300 CANAL ST, KING CITY  
Telephone..... : 385-6000  
Proximity to base..... : 23 MILES

##### SALINAS VALLEY MEMORIAL HOSPITAL

Location..... : 450 ROMIE LANE, SALINAS  
Telephone..... : 757-4333  
Proximity to base..... : 88 miles

##### NATIVIDAD MEDICAL CENTER

Location..... : 1330 NATIVIDAD RD, SALINAS  
Telephone..... : 755-4111  
Proximity to base..... : 88 miles

##### TWIN CITIES COMMUNITY HOSPITAL

Location..... : 1100 Las Tablas Rd,  
Templeton,CA  
  
Telephone..... : 805-434-3500  
Proximity to base..... : 60 miles

#### DENTAL CLINIC

##### CLINIC DIRECTORY

Commander..... : LTC Wade  
  
Central Appointments..... : 386-2530  
  
Clinics..... :  
Endodontics..... : 386-2530  
Periodontics..... : 386-2530

##### DEPENDENT DENTAL PLAN

All dental coverage is through Delta Dental Plan.  
Servicemembers should enroll in the plan to ensure that their  
families are covered. The unit PAC can assist in the process.

#### WELLNESS

##### Smoking Cessation, etc

POC..... : Mike Ferreira  
Location..... : Bldg 210  
Telephone..... : 386-2570

Full service available.

##### Greyhound Bus

Location..... : 351 Del Monty, Monterey  
Telephone..... : 373-4735  
Proximity to site..... : 88 Miles  
Comments..... :

There is a stop in King City which is 23 Miles northeast of Ft  
Hunter Liggett. Tickets still need to be purchased in Monterey.



SPECIAL EDUCATION

Location..... : 1230 J Street, Sacramento, CA  
95814

Telephone..... : 916-445-6731  
Hours..... : 0800-1700 Mon-Fri

# Document Separator



THE DEFENSE BASE CLOSURE AND REALIGNMENT COMMISSION

1700 NORTH MOORE STREET SUITE 1425

ARLINGTON, VA 22209

703-696-0504

950503-1R1

ALAN J. DIXON, CHAIRMAN

COMMISSIONERS:

AL CORNELLA

REBECCA COX

GEN J. B. DAVIS, USAF (RET)

S. LEE KLING

RADM BENJAMIN F. MONTOYA, USN (RET)

MG JOSUE ROBLES, JR., USA (RET)

WENDI LOUISE STEELE

May 8, 1995

The Honorable Sam Farr  
United States House of Representatives  
Washington, D.C. 20515

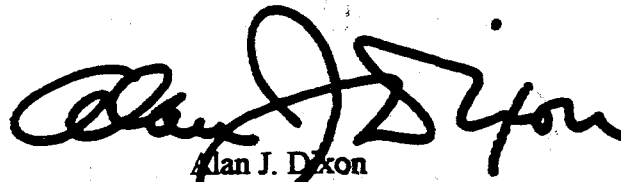
Dear Representative Farr:

Thank you for your letter requesting that the Commission direct the Department of Defense to analyze Fort Hunter Liggett's military value as an operational test facility. I appreciate your testifying before the Commission on April 28 in San Francisco, and I welcome your continued interest in this process.

You may be certain that the Commission will thoroughly review the information used by the Defense Department in making its recommendations. I can assure you that the information you have provided will be considered by the Commission in our review and analysis of the Secretary of Defense's recommendation on Fort Hunter Liggett.

I look forward to working with you through this difficult and challenging process. Please do not hesitate to contact me whenever you believe I can be of assistance.

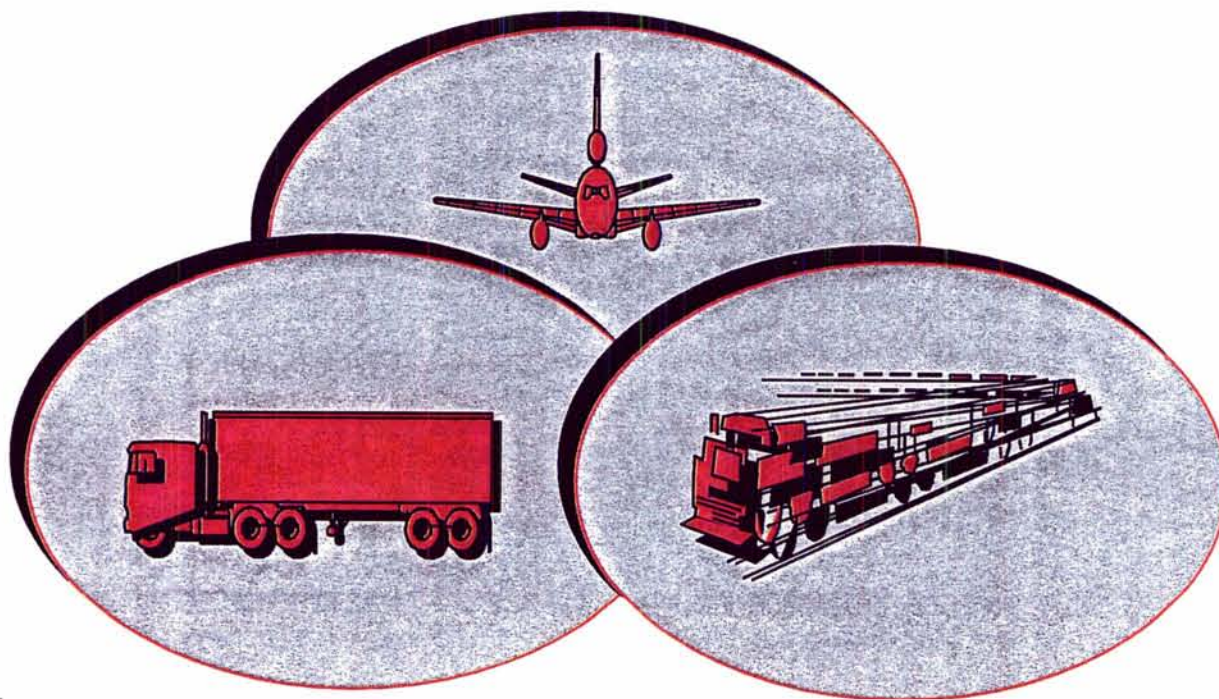
Sincerely,



Alan J. Dixon  
Chairman

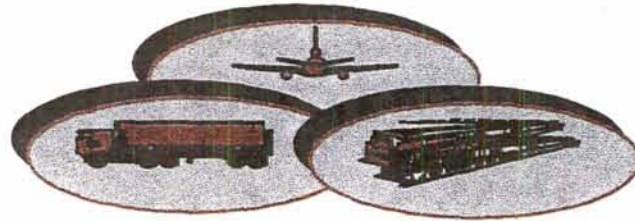
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**REGIONAL  
TRANSPORTATION  
INITIATIVES**



**FORT BLISS**

**TEXAS • NEW MEXICO**



## INTERMODAL INSTALLATION PROGRAM

- DOD/DOT INITIATIVE TO DESIGN AND CONSTRUCT A DUAL-USE (MILITARY & COMMERCIAL) STATE-OF-THE-ART INTERMODAL "MODEL FACILITY" AT OR NEAR AN IMPORTANT MILITARY INSTALLATION
- NEW INITIATIVE AS OF SEP 94
- WE ARE COMPETING FOR THE INITIAL PILOT PROJECT SITE

MAR 95:	SELECT 3-5 FINALISTS
APR-MAY 95:	SITE VISITS/EVALUATE FINALISTS
JUN 95:	SITE RECOMMENDATION
CY 97:	BEGIN CONSTRUCTION

- TEXAS-NEW MEXICO INTERMODAL TRANSPORTATION CENTER

-- ONGOING INITIATIVES:

- ✓ **AIR :** CREATES A **JOINT-USE** PARTNERSHIP COMBINING THE RESOURCES OF BAAF WITH EPIA.
- ✓ **ROAD:** PROVIDES CITY OF EL PASO ACCESS TO FORT BLISS PROPERTY TO BUILD CONNECTING **INNER LOOP** BETWEEN EAST AND NORTHEAST EL PASO. SUPPORTS REGIONAL AIRPORT, INDUSTRIAL PARKS.
- ✓ **RAIL:** CONSTRUCTS DUAL-USE INTERMODAL FACILITIES WITH POTENTIAL FOR EXPANSION TO MULTI-MODAL.

# AIR



## BENEFITS

- FORT BLISS
  - + IMPROVES POWER PROJECTION CAPABILITY
  - + REVITALIZES BIGGS ARMY AIRFIELD INFRASTRUCTURE
  - + COST/REVENUE SHARING ENHANCES POST LONG-TERM VIABILITY
  
- CITY OF EL PASO/REGION
  - + BUILDS REGIONAL AIRPORT
  - + PHASE I OF AIR CARGO FACILITY EXPANSION
  - + STIMULATES NAFTA AND REGIONAL GROWTH LONG TERM
  - + ENSURES LONG TERM GROWTH **CAPACITY**
  - + ENSURES FORT BLISS REMAINS VIABLE REGIONAL ENTITY

## COMPONENTS COSTS

- |                                     |         |       |
|-------------------------------------|---------|-------|
| ● AIRPORT IMPROVEMENTS              |         | \$45M |
| - AIRPORT IMPROVEMENT PROGRAM (AIP) | (\$34M) |       |
| - CITY/LOCAL MATCHING               | (\$11M) |       |
| ● AIR CARGO CENTER                  |         | \$32M |
| - FEDERAL/FAA *                     | (\$ 6M) |       |
| - CITY/LOCAL                        | (\$26M) |       |

\* (EPIA AWARDED \$4M IN 1995)



# ROAD

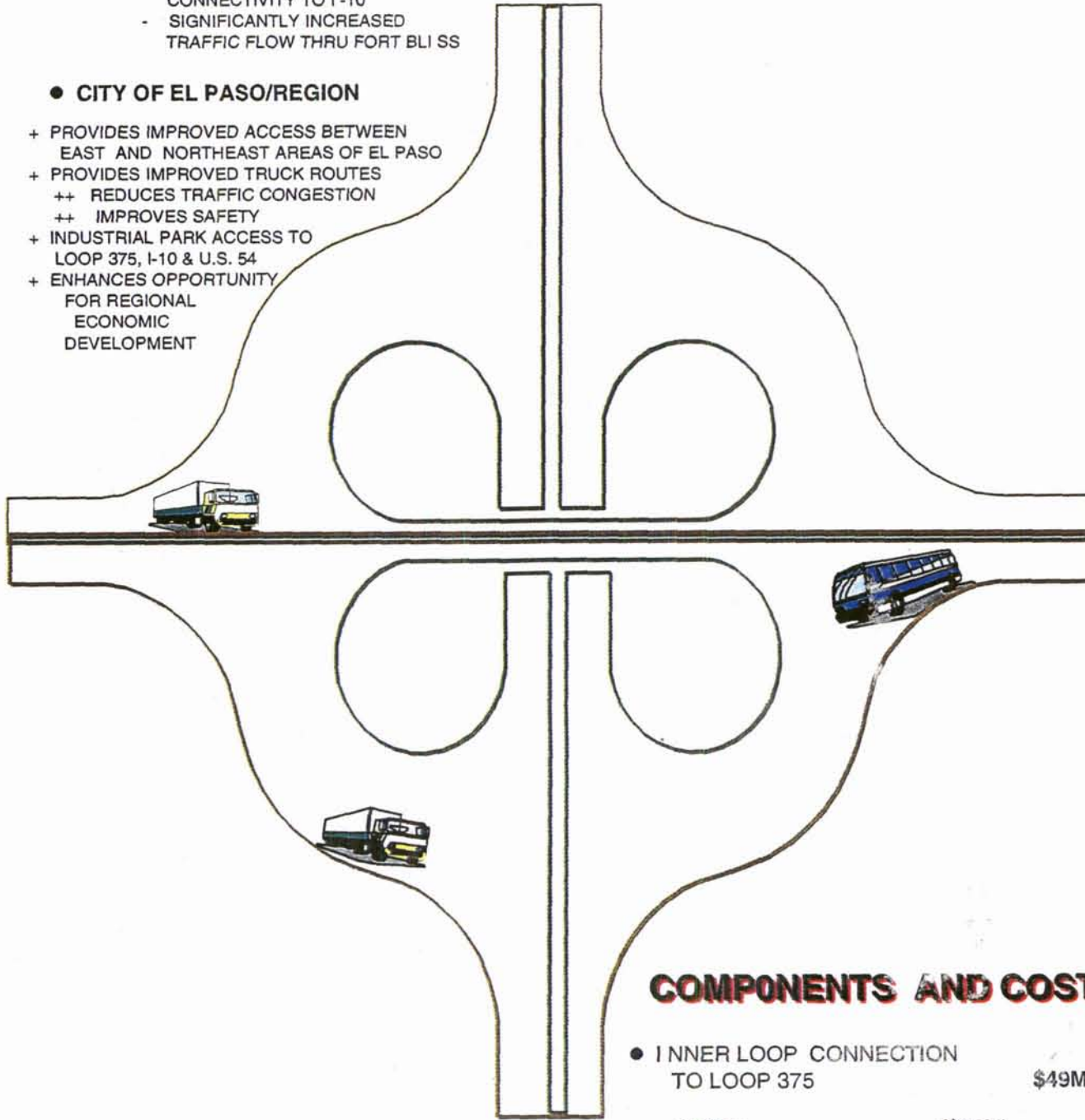
## BENEFITS

### ● FORT BLISS

- + BETTER DEPLOYMENT CONNECTIVITY TO I-10
- SIGNIFICANTLY INCREASED TRAFFIC FLOW THRU FORT BLISS

### ● CITY OF EL PASO/REGION

- + PROVIDES IMPROVED ACCESS BETWEEN EAST AND NORTHEAST AREAS OF EL PASO
- + PROVIDES IMPROVED TRUCK ROUTES
  - ++ REDUCES TRAFFIC CONGESTION
  - ++ IMPROVES SAFETY
- + INDUSTRIAL PARK ACCESS TO LOOP 375, I-10 & U.S. 54
- + ENHANCES OPPORTUNITY FOR REGIONAL ECONOMIC DEVELOPMENT



## COMPONENTS AND COSTS

- INNER LOOP CONNECTION TO LOOP 375 \$49M
  - STATE (\$36M)
  - CITY/LOCAL (\$13M)

# RAIL

## BENEFITS

- FORT BLISS
  - + CENTRALIZES MILITARY RAIL OPERATIONS
  - + ENHANCES POWER PROJECTION CAPABILITY
- CITY OF EL PASO/REGION
  - + PROVIDES INTEGRATED RAIL/AIR/ROAD NETWORK
  - + BUILDS INITIAL STATE-OF-THE-ART (DUAL-USE) INTERMODAL FACILITY
  - + PROMOTES REGIONAL ECONOMIC OPPORTUNITY/THINKING
  - + BEGINS RELOCATION OF RAIL SYSTEMS FROM CONGESTED AREAS OF CITY TO MORE DESIRABLE REGIONAL SITES



## COMPONENTS

- RAIL HUB \$50M
  - FEDERAL/RAIL (\$50M)
  - CITY/LOCAL (\$ ?M)

CONNECTION

(M) (M)



# SUMMARY

## TEXAS-NEW MEXICO INTERMODAL TRANSPORTATION CENTER

- POTENTIAL TO PACKAGE INDIVIDUAL INITIATIVES INTO A REGIONAL PLAN
- EXPANDED FUNDING SOURCES GIVE POTENTIAL TO FOREGO LOCAL COSTS AS WELL AS ENHANCE PROJECT CAPABILITIES

COST ESTIMATE SUMMARY		
INITIATIVE	FED/STATE/RAIL	CITY/LOCAL
JOINT USE - AIR	\$ 34	\$11
AIR CARGO	5	26
INNER LOOP	36	13
RAIL HUB	50	?
<b>TOTAL</b>	<b>\$126M</b>	<b>\$50M</b>

- VIK C/VECO  
 - TOTAL USE  
 REGIONAL VIBROK

**FORT BLISS IS THE BEST ARMY & DOD CANDIDATE FOR THE IIP PILOT PROJECT**

**GIVEN:** - SELECTED PILOT PROJECT SITE MUST BE IMPORTANT TO DTS.  
 - "DUAL-USE" NATURE OF IIP PROJECT.  
 - NO "NEW" SEPARATE/ADDITIONAL IIP \$ EXPECTED.  
 THEREFORE, O.P.M., LOCAL MATCHING \$ CRITICAL.

- A SUCCESSFUL IIP PILOT PROJECT SITE WILL COME FROM AN INSTL THAT CAN BRING TOGETHER VALID TRANS PROJECTS USING MOSTLY O.P.M. AND EXISTING DOD/DA FUNDS.
  - AGAIN, **THERE ARE NO "NEW" IIP \$.**
  - VALID "CIV SECTOR/DUAL-USE" TRANSPORTATION PROJECTS HAVE A LONG LEAD TIME.
- FB AND SURROUNDING COMMUNITY HAVE, IN PLACE, VALID PROJECTS WHICH BRING TOGETHER AN INTERMODAL & MULTI-MODAL "FACILITY/CENTER /COMPLEX" AND REGIONAL PLAN USING:
  - LOCAL MATCHING FUNDS, INCLUDING COMMERCIAL.
  - DOT, DOT DERIVATIVE (E.G., ISTEAL) \$.
  - EXISTING PROGRAMMED DA MCA \$.

..... ALL FB NEEDS IS SUPPORT FROM DOD/DA WITH DOT .....  
 ⇒ ELECTION AS **IIP PILOT PROJECT SITE** ENHANCES PRIORITIZATION WITHIN DOT. ←

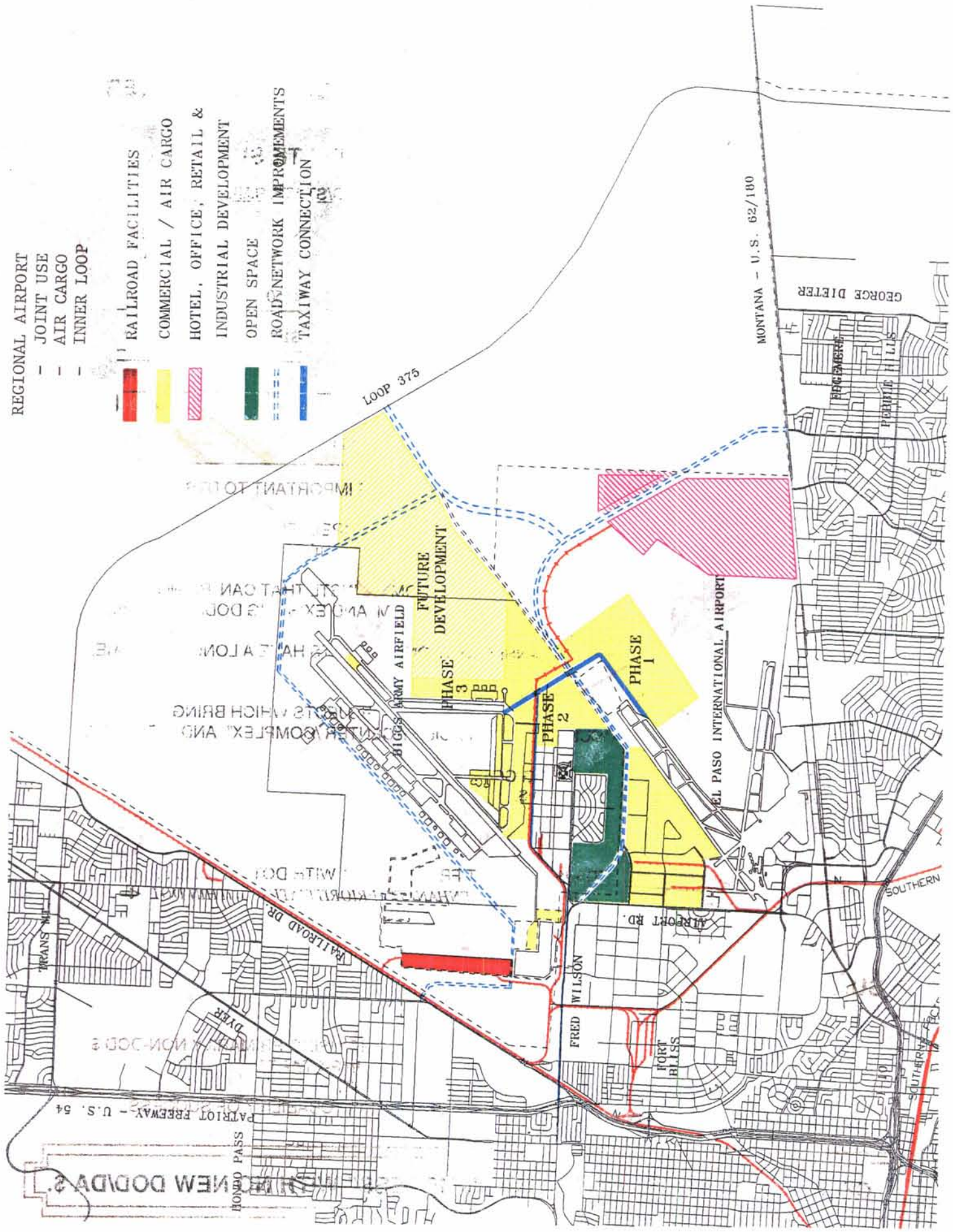
➤ **SUMMARY -- FORT BLISS HAS:**

- LOCAL MATCHING FUNDS.
- VALID DUAL-USE PROJECTS READY FOR FUNDING USING PRIMARILY NON-DOD \$.
- WELL ADVANCED PLANNING GIVES FB "JUMP-START".
- IDEAL SIZE FOR A "PILOT PROJECT".
- THE BEST "PILOT PROJECT" PROBABILITY OF SUCCESS.

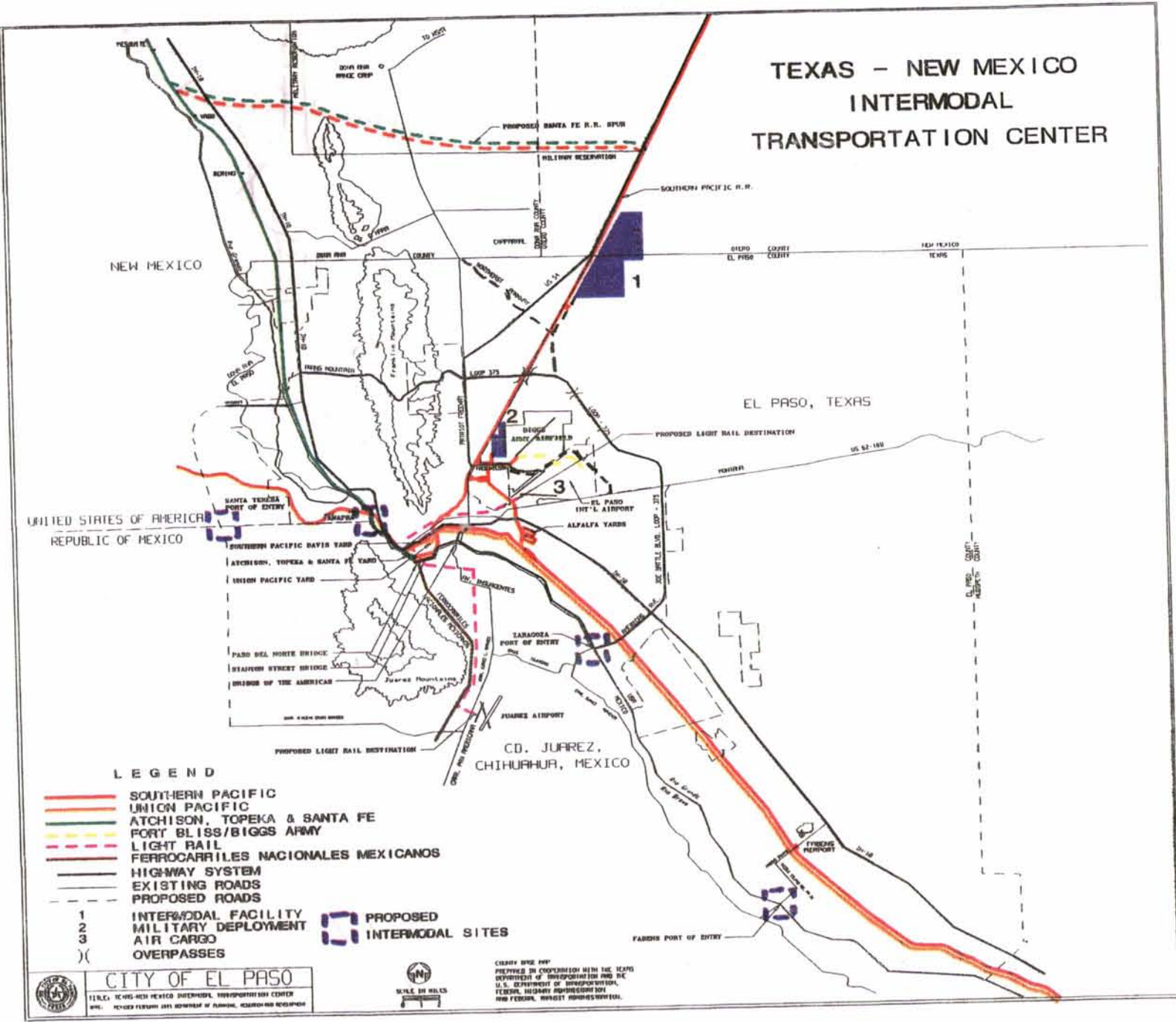
**FB CAN DELIVER A PILOT PROJECT "SUCCESS" WITH NO NEW DOD/DA \$.**

REGIONAL AIRPORT  
 - - - JOINT USE  
 - - - AIR CARGO  
 - - - INNER LOOP

- RAILROAD FACILITIES
- COMMERCIAL / AIR CARGO
- HOTEL, OFFICE, RETAIL & INDUSTRIAL DEVELOPMENT
- OPEN SPACE
- ROAD NETWORK IMPROVEMENTS
- TAXIWAY CONNECTION



# TEXAS - NEW MEXICO INTERMODAL TRANSPORTATION CENTER

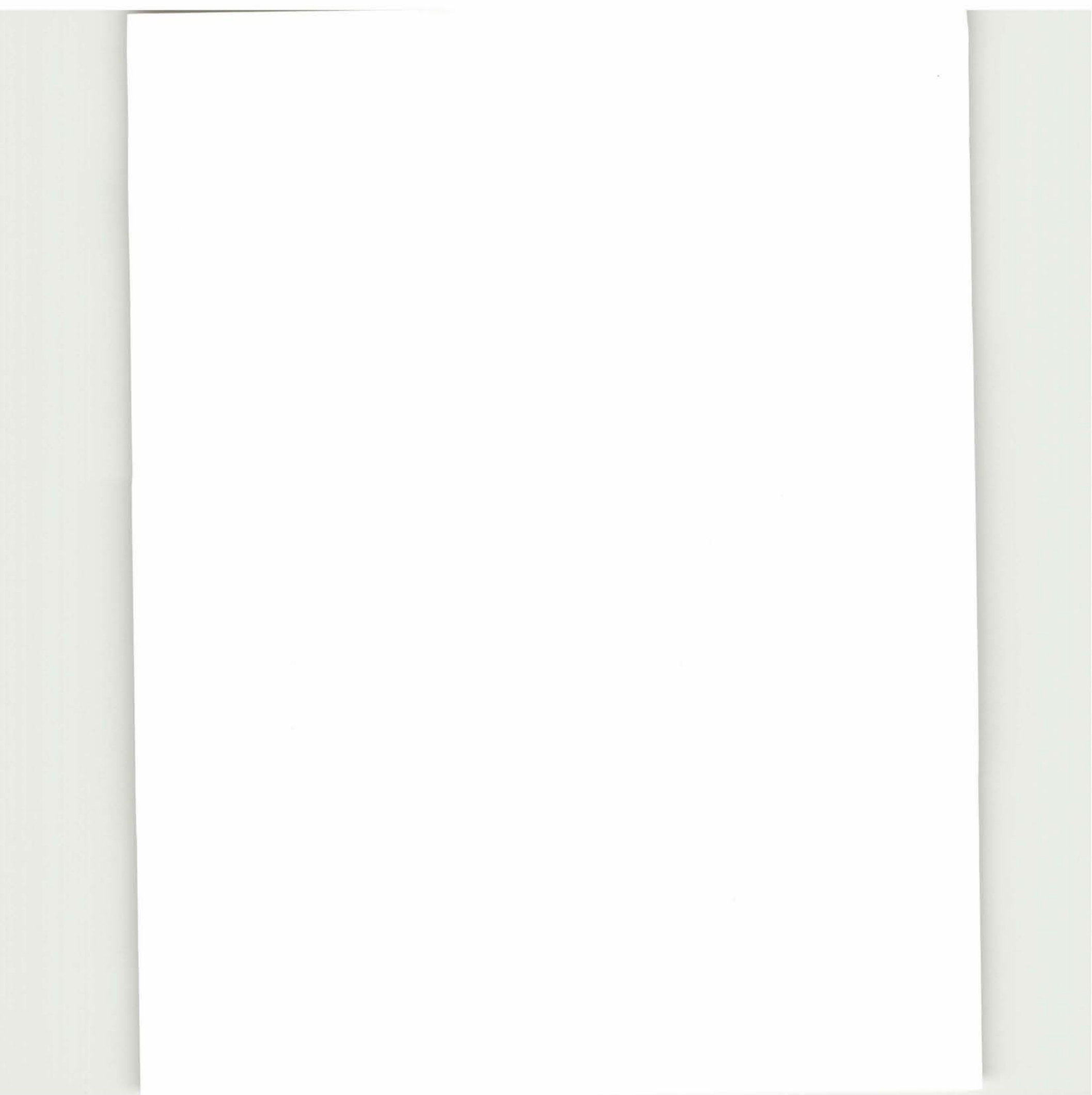


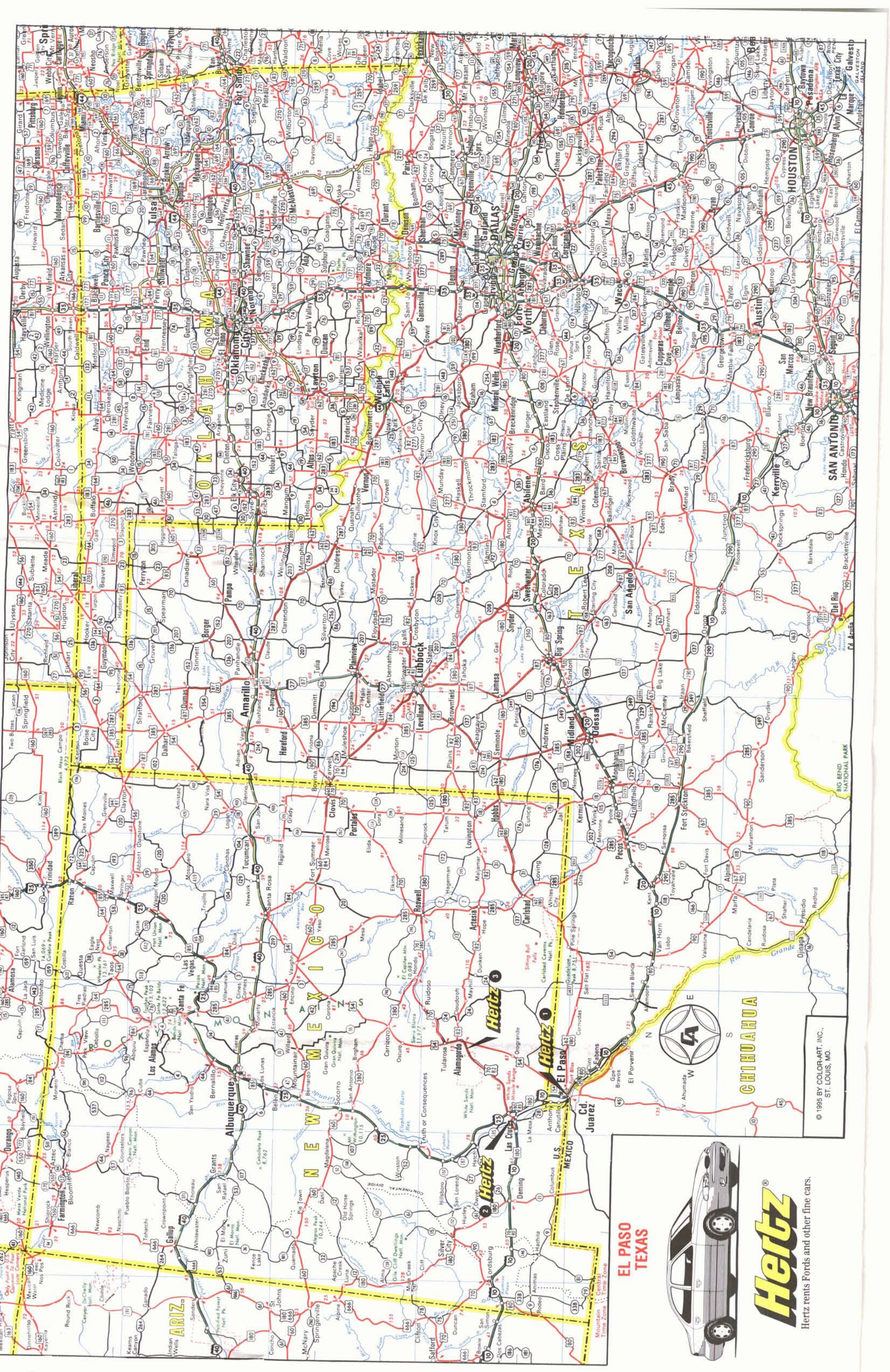
- LEGEND**
- SOUTHERN PACIFIC
  - UNION PACIFIC
  - ATCHISON, TOPEKA & SANTA FE
  - FORT BLISS/BIGGS ARMY
  - LIGHT RAIL
  - FERROCARRILES NACIONALES MEXICANOS
  - HIGHWAY SYSTEM
  - EXISTING ROADS
  - - - PROPOSED ROADS
  - 1 INTERMODAL FACILITY
  - 2 MILITARY DEPLOYMENT
  - 3 AIR CARGO
  - ( ) OVERPASSES
  - PROPOSED INTERMODAL SITES

**CITY OF EL PASO**  
 TITLE: TEXAS-NEW MEXICO INTERMODAL TRANSPORTATION CENTER  
 DATE: FEBRUARY 1975 DEPARTMENT OF PLANNING, RESEARCH AND DEVELOPMENT

SCALE IN MILES  
 COURTESY WPA  
 PREPARED IN COOPERATION WITH THE TEXAS DEPARTMENT OF TRANSPORTATION AND THE U.S. DEPARTMENT OF TRANSPORTATION, FEDERAL SECURITY AGENCY AND THE FEDERAL BUREAU OF INVESTIGATION.

# Document Separator



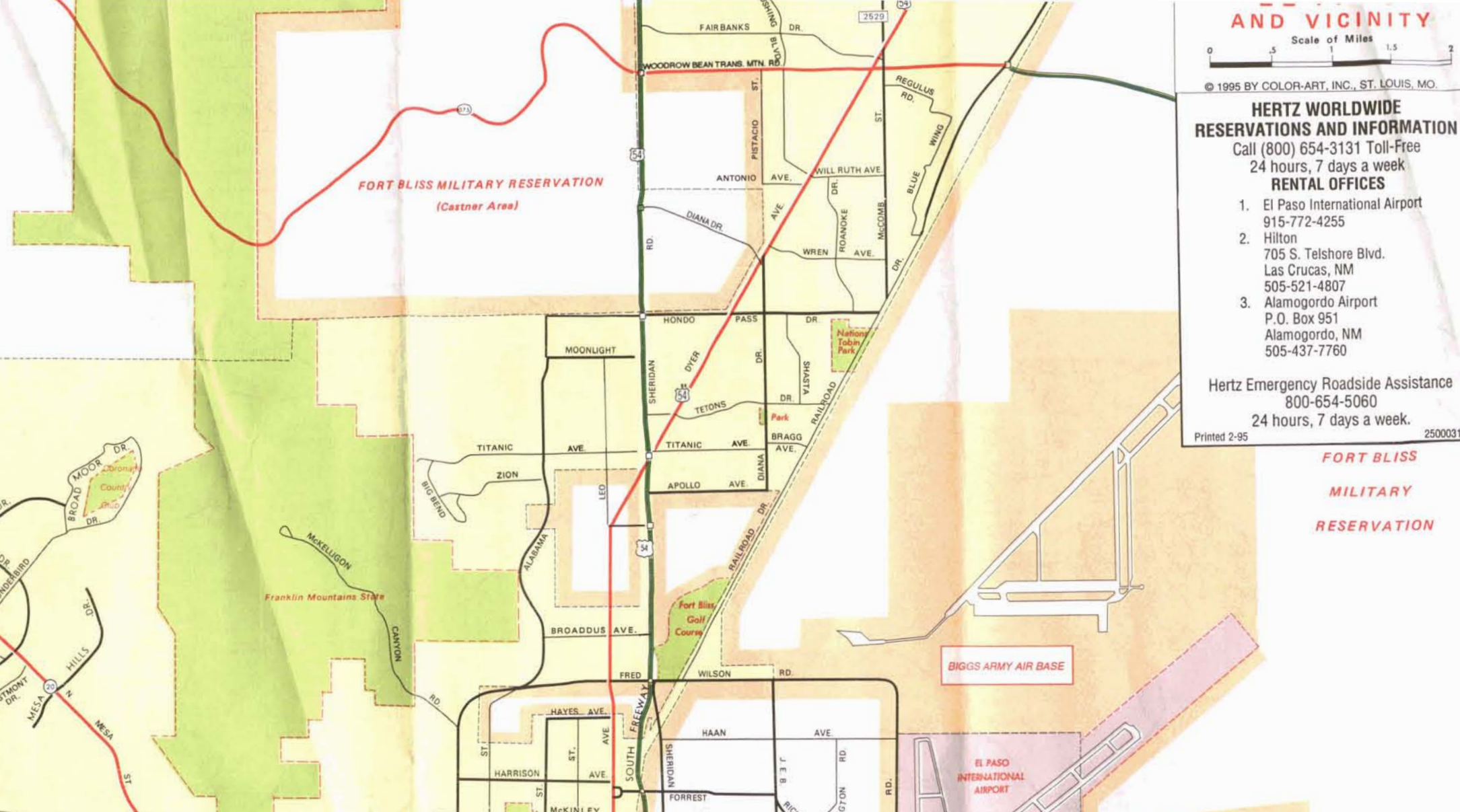
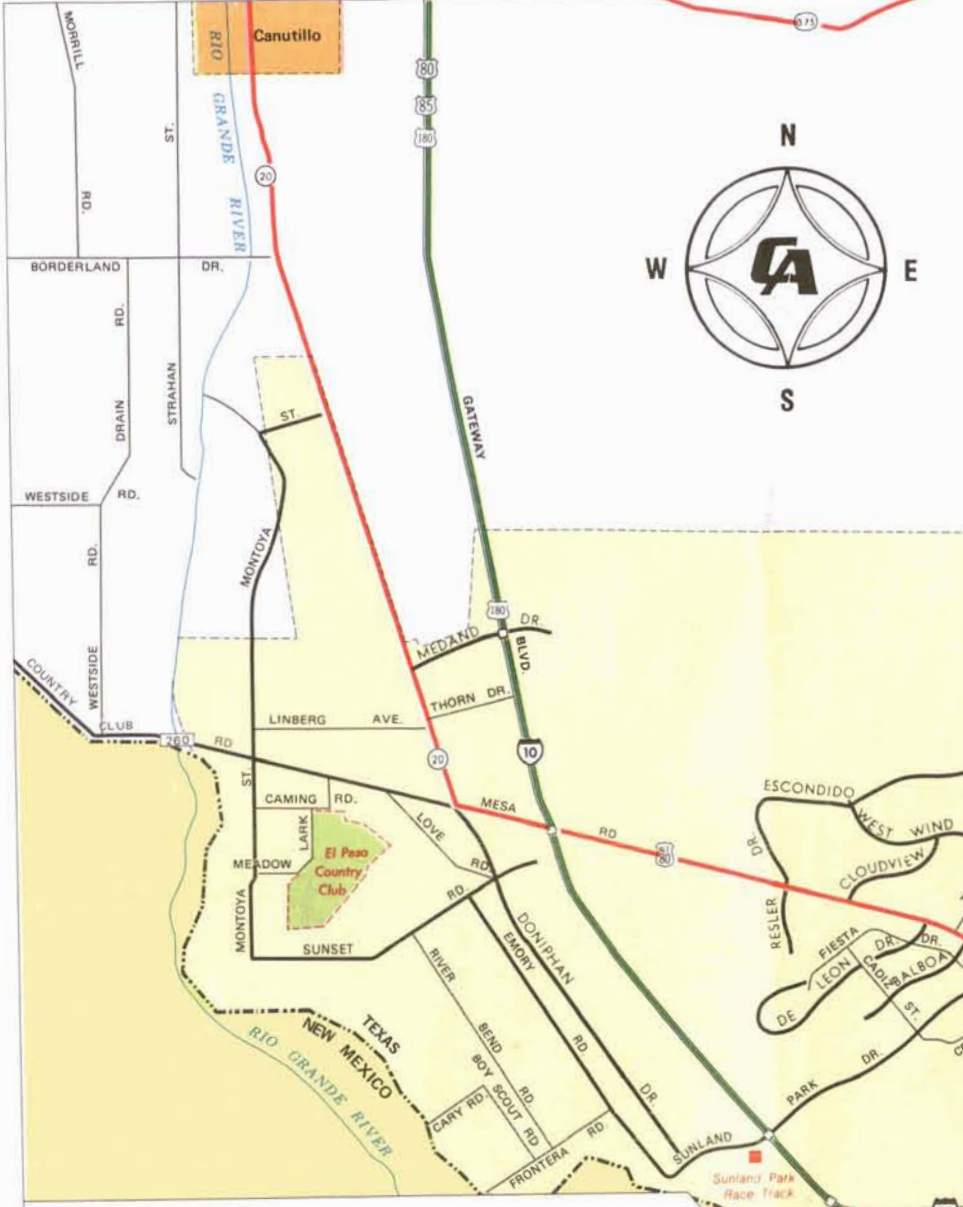


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**EL PASO TEXAS**

**Hertz**

Hertz rents Fords and other fine cars.



**AND VICINITY**

Scale of Miles 0 0.5 1 1.5 2

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**HERTZ WORLDWIDE RESERVATIONS AND INFORMATION**  
 Call (800) 654-3131 Toll-Free  
 24 hours, 7 days a week

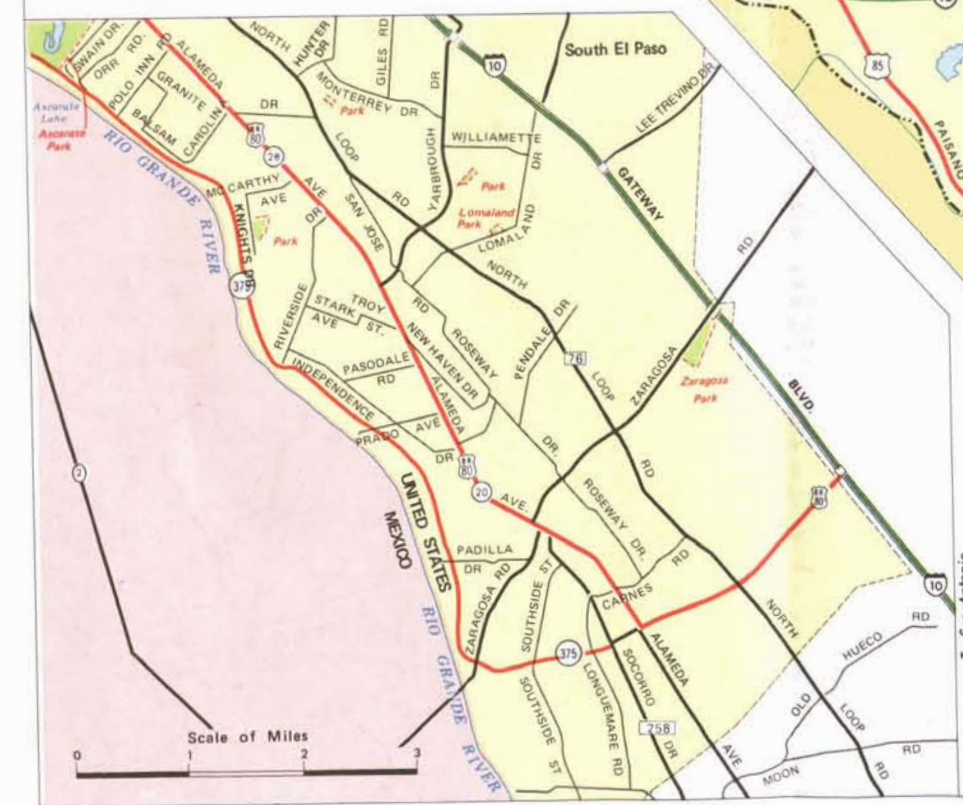
**RENTAL OFFICES**

1. El Paso International Airport  
915-772-4255
2. Hilton  
705 S. Telshore Blvd.  
Las Cruces, NM  
505-521-4807
3. Alamogordo Airport  
P.O. Box 951  
Alamogordo, NM  
505-437-7760

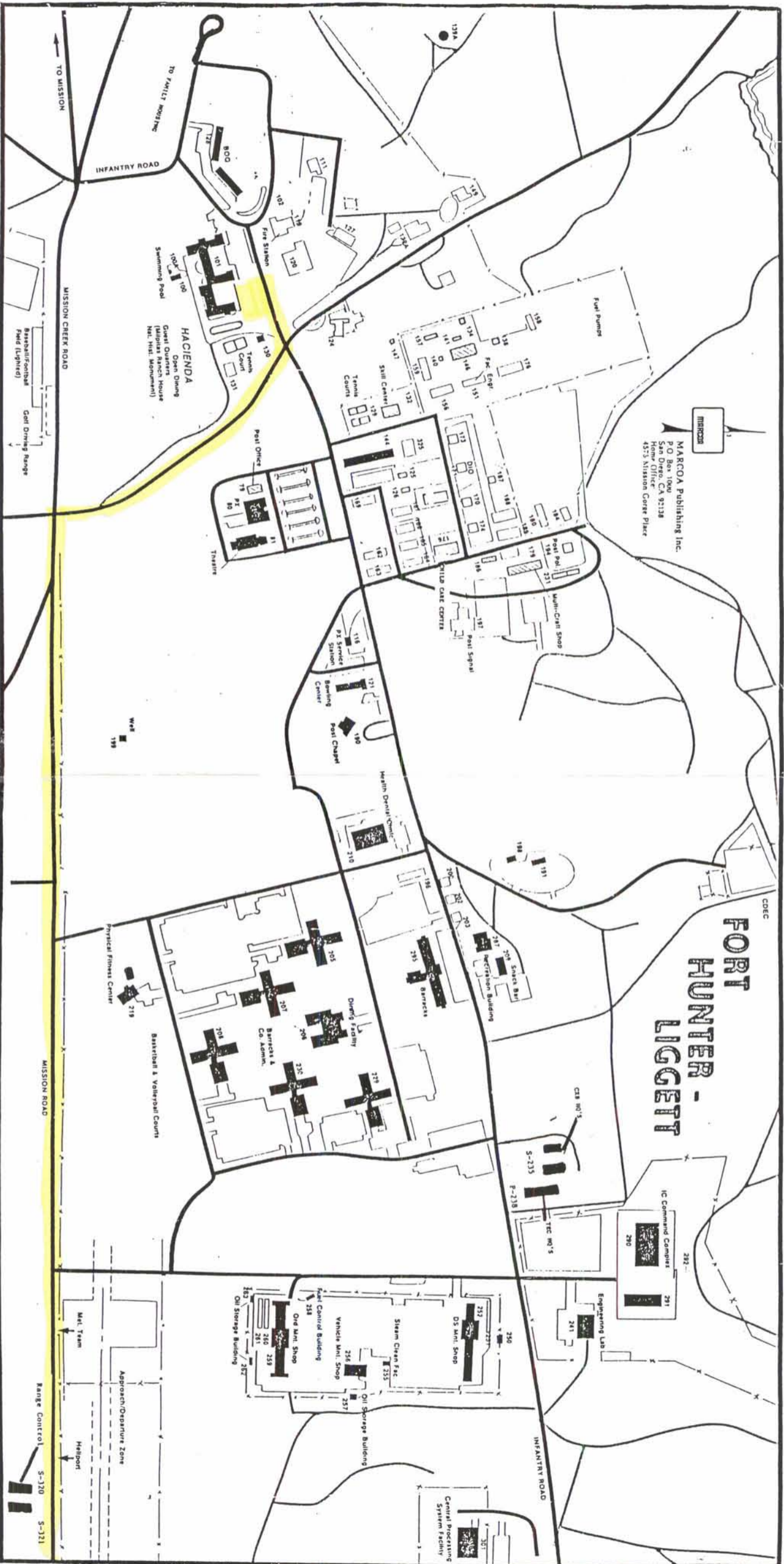
Hertz Emergency Roadside Assistance  
800-654-5060  
24 hours, 7 days a week.

Printed 2-95 2500031

**FORT BLISS  
MILITARY  
RESERVATION**



DETAIL CONTINUED IN INSET AT LEFT



MARCOA  
 MARCOA Publishing Inc.  
 P.O. Box 1000  
 San Diego, CA 92138  
 4525 Mission Center Place

CDEC  
**FORT HUNTER - LIGGETT**

TO FAULT HOISTING  
 INFANTRY ROAD  
 MISSION CREEK ROAD  
 TO MISSION  
 Baseball/Softball Field (lighted)  
 Golf Driving Range

**HACIENDA**  
 Open Dining  
 Guest Quarters  
 (Juliana Ranch House  
 Nat. Hist. Monument)  
 Swimming Pool

Post Office  
 Theater

Still Center  
 Tennis Courts

Post Signal  
 Multi-Cart Shop

CHILD CARE CENTER

Post Signal

Post Chapel  
 Post Station

Health Dental Clinic

Recreation Building  
 Snack Bar

Garages

Dining Facility

Services & Admin. Ctr.

Baseball & Volleyball Courts  
 Physical Fitness Center

IC Command Center  
 TEC HQ'S

Engineering Lab

Mail Team  
 Hallport  
 Approach/Quarantine Zone

Range Control S-320  
 S-321

Oil Storage Building  
 Vehicle Mnt. Shop  
 Steam Clean Fac.  
 Oil Storage Building

Oil Mnt. Shop  
 Fuel Control Building

Oil Storage Building

Central Processing System Facility



This page contains a map that could not  
be scanned in for electronic view  
regarding Fort Bliss, TX

## MISSION

Fort Hunter Liggett is the western training center for the US Army Reserve. The Post Mission is to maintain, allocate, and operate training areas and ranges for active and reserve component forces for field maneuvers, live fires, and testing. Additionally, Fort Hunter Liggett has a responsibility to protect the environment and natural and cultural resources.

## GENERAL INFORMATION

In addition to the US Army Garrison, Fort Hunter Liggett is the home of the TEXCOM Experimentation Center which conducts operational tests of new military equipment. Fort Hunter Liggett is used extensively for training by active and reserve component units of the Army, Navy, and Marine Corps.

Fort Hunter Liggett is almost a self-contained community, with many of the services found in a small town including 85 sets of housing for military families on post.

There are three buildings on the National Historic Register located at Fort Hunter Liggett: the Hacienda, a ranch house built by William Randolph Hearst in 1930; the Gil Adobe, an adobe ranch house built by the Gil family in the 1800s; and the San Antonio Mission. The Hacienda now houses a restaurant which is open to the public for lunch and dinner on weekdays and for Sunday brunch and may be used for special events. The Gil Adobe may not be visited until after completion of preservation efforts by the Army. The San Antonio Mission was built by Franciscan missionaries in the late 1700s and rebuilt with help of soldiers in the early 1950s after it had been abandoned and fell into ruin. 85 acres of land was given to the mission by the Army and it is open to the public.

(This publication is updated as changes occur.)



## FORT HUNTER LIGGETT A TOTAL FORCE TRAINING CENTER

### "FAST FACTS" APRIL 1995

Prepared by the US Army Garrison  
at Fort Hunter Liggett, California

#### The Fort Hunter Liggett Military Community

Active duty military	473
Spouses	335
Military children	414*
Army Civilian employees	321
Contract Civilian employees	226
Defense retirees within the FHL area	334*
Defense Civilian retirees	<u>150*</u>
TOTAL	2427*

#### Impact of Fort Hunter Liggett on the Economy

Military payroll	\$15, 976, 218*
Civilian payroll	\$12, 840, 000*
Contracts, goods, services, and construction	\$20, 300, 000*
Public School Federal Subsidy	<u>\$134, 308*</u>
TOTAL	OVER \$47, 000, 000*

\* estimated

### Military Grade Profile

	<u>Per cent</u>	<u>Average Compensation*</u>
Field Grade (Major and above)	5%	\$72, 525
Company Grade (LT, Captain)	6%	\$41, 446
Senior NCOs (E-7/E-9)	10%	\$43, 393
Junior NCOs (E-5/E-6)	30%	\$30, 165
First-term soldiers	47%	\$21, 339

\* Includes housing and subsistence allowances. Assumes soldier is married and living off post.

### Where Fort Hunter Liggett Families Live

<u>Geographic area</u>	<u>Military</u>	<u>Civilians*</u>	
		<u>Army</u>	<u>Contract</u>
Presidio of Monterey	22%	5%	0%
King City	19%	20%	6%
Paso Robles, Bradley	19%	23%	47%
Lockwood	13%	13%	25%
Fort Hunter Liggett	11%	8%	0%
Monterey, Salinas area	6%	20%	15%

\*estimated based on responses to surveys

### Where Military Children Attend School

Lockwood: San Antonio School District	140*
King City	**
Paso Robles	**
Monterey, Salinas area	**

\*Source: school district

\*\*data not available at time of publication

### Top 10 Employers in Monterey County (1995)\*

\*Source: Monterey and Salinas Chambers of Commerce

1. Presidio of Monterey	4250
2. County of Monterey	3694
3. Dole Vegetable Company	3000
4. Household Credit	1935
5. Monterey Peninsula School District	1550
6. D'arrigo Brothers	1500
7. Community Hospital of Monterey	1426
8. Pebble Beach Company	1400
9. Salinas Valley Memorial Hospital	1268
10. Naval Post Graduate School	1241
11. <b>Fort Hunter Liggett</b> (data as of April 1995)	<b>1020</b>

### How Fort Hunter Liggett Ranks in Size as an Installation Size in Acres

1. Fort Bliss, Texas (including White Sands Missile Range)	1, 100, 000
2. Fort Irwin, California	640, 000
3. Fort Stewart, Georgia	279, 000
4. Yakima Training Center, Washington	261, 000
5. Fort Hood, Texas	217, 000
6. Fort Polk, Louisiana	198, 000
7. Fort Benning, Georgia	182, 000
<b>8. Fort Hunter Liggett, California</b>	<b>165, 000</b>
9. Fort Bragg, North Carolina	148, 000
10. Fort Carson, Colorado	137, 000
11. Fort Drum, New York	107, 265
12. Fort Knox, Kentucky	110, 000
13. Fort Riley, Kansas	100, 000
14. Fort Campbell, Kentucky	105, 000
15. Fort Sill, Oklahoma	94, 000
16. Fort Huachuca, Arizona	73, 000
17. Fort McCoy, Wisconsin	63, 000
18. Fort Leonard Wood, Missouri	63, 000
19. Fort Jackson, South Carolina	52, 300

# FORT HUNTER LIGGETT

Standard Installation  
Topic Exchange Service

\*\*\*\* SITES \*\*\*\*

Prepared for

LTC BAILEY

24 Apr 1995

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Religious, Marital, Pre-marital Counseling  
 POC..... : Chaplan Neely  
 Location..... : Post Chapel  
 Telephone..... : 386-2808  
 Hours..... : BY Appointment

CHILD-YOUTH SERVICES

OVERVIEW CHILD-YOUTH

ON SITE SERVICES

CHILD DEVELOPMENT CENTER

POC..... : Mrs Jacobs  
 Location..... : BLDG 178,  
 Telephone..... : 386-2313  
 Hours..... : 0600-1730  
 Comments..... :

THE CHILD DEVELOPMENT CENTER HAS A TOTAL CAPACITY OF 37. THE NUMBER OF SPACES FOR EACH PROGRAM VARIES WITH ENROLLMENT.

Program	Offered		
	(Y-N)	#	Spaces
Full Day	Y		37
Part Day - Preschool	N		
Part Day - School Age	Y		
Hourly Care	Y		
Special Needs Care	Y (CASE BY CASE BASIS)		

Care Type	(Y-N)	Waiting List	Rates
Infant	Y	NO	TBD
Toddler	Y	NO	
Pre-School	Y	NO	
School-Age	Y	NO	

Youth Services

POC..... : Bonita Whittington  
 Location..... : RECREATION CENTER  
 Telephone..... : 386-2406  
 Hours..... : 0900-1700 MON-FRI

AREA SERVICES

RELATED PROGRAMS

DRUG AND ALCOHOL

Program Coordinator

POC..... : MaryLou Scala  
 Location..... : BLDG 205 2ND FLOOR  
 Telephone..... : 386-2762  
 Hours..... : MON-FRI 0800-1630

FAMILY ADVOCACY

Location..... : TROOP MEDICAL CLINIC  
 Telephone..... : 386-2570  
 Hours..... : 0800-1630 MON-FRI

LEGAL ASSISTANCE

POC..... : CPT Smith  
 Location..... : BLDG 2793, FT ORD  
 Telephone..... : 242-7861

Telephone..... : 386-2902  
 Hours..... : 1230-1900 Tue-Fri, 1000-1630  
 Sat

Bowling Center  
 POC..... : Ms Hansen  
 Location..... : Bldg 121  
 Telephone..... : 386-0357  
 Hours..... : 1430-2200 Tues-Sat

RECREATION CENTER  
 POC..... : MR Blair  
 Location..... : Bldg 287  
 Telephone..... : 386-2406  
 Hours..... : 1200-2100 M-F 1300-2100  
 Sat-Sun

Libraries  
 POC..... : Ms Lewis  
 Location..... : Bldg 205  
 Telephone..... : 386-2719  
 Hours..... : 1100-1700 Sun&Fri, 1100-1800  
 M-W

Community Club(Haceinda)  
 POC..... : Mr Morehouse  
 Location..... : Bldg 101  
 Telephone..... : 386-2762  
 Hours..... : M-F 0630-0800, 1100-1300,  
 1630-2100

Outdoor Recreation-Adventure  
 POC..... : Mr Andersen  
 Location..... : Bldg 630  
 Telephone..... : 386-2214  
 Hours..... : Fri-Mon 0430-1800

Sports & Fitness Center  
 POC..... : Mr Hernandez  
 Location..... : Bldg 212  
 Telephone..... : 386-2784  
 Hours..... : M-F 0600-0800/1100-2100  
 :Sat-Sun 1100-1900

Frame Shop  
 POC..... : Mr Varney  
 Location..... : Bldg 198  
 Telephone..... : 386-2210  
 Hours..... : Wed 1200-2000, Sat 1000-1800  
 :Sun 1300-1700

CHAPEL SERVICES AND PROGRAMS

Catholic Mass  
 Location..... : San Antonio Mission  
 Telephone..... : 385-4478  
 Hours..... : Daily Mass 0730, Sat 0700  
 Comments..... :

Sun Mass 1000

Protestant Service  
 Location..... : Post Chapel  
 Telephone..... : 386-2808  
 Hours..... : Sunday Service 1100

SITE

WELCOME

WELCOME TO SITES  
 ver 1.3  
 (Standard Installation Topic Exchange Service)  
 for

STATE/COUNTRY	SITE	SVC	COUNTY	ZIP
CALIFORNIA	FT. HUNTER LIGGETT	ARMY	MONTEREY	93928

This database was compiled by the site relocation  
 MANAGER: DAWN RENAE VIEIRA  
 You can contact this individual at:  
 DSN: 686-2762 or commercial: 408-386-2762/2612

Information updated as of: 28 NOV 1994

The listings and other information contained in this  
 database do not constitute an endorsement by the  
 Department of Defense nor is the data intended  
 to be inclusive of all services or agencies.

SITE0440

DISN:<SITES0440>@lewis-emh2.army.mil

GENERAL INFORMATION SITE

OVERVIEW SITE

Location..... : JOLON, CA  
 Major Command..... : UNITED STATES ARMY GARRION  
 Mission..... : SUPPORT TESTING AND TRAINING  
 Climate..... : HOT & DRY  
 Temperature Range..... : 50-106 DEGREES F, IT IS  
 NOT UNCOMMON IN THE SUMMER TO WAKE UP TO 60 DEGREES AND BY  
 LUNCH TIME THE TEMPERATURE WILL BE UP TO 106 DEGREES.  
 Population assigned-served..... : 1811  
 Active Duty Officer..... : 43  
 Active Duty Enlisted..... : 462  
 Family Members..... : 773  
 Retirees..... :  
 Civilian Employees..... : 533  
 Reserve Component Officers... : EXPECTED TO ARRIVE SOON  
 Reserve Component Enlisted... : EXPECTED TO ARRIVE SOON  
 Telephone Access..... : 408-386-2030(POST LOCATER)

History Fort Hunter Liggett consists of 165,000 acres of  
 mountainous high desert, located approximately 30 miles inland  
 from the Pacific Ocean. The Fort was purchased from William  
 Randolph Hearst's Estate in 1940, and was used to train soldiers

during World War II and the Korean Conflict. The Military Reservation was named in honor of LTG Hunter Liggett who served during the Spanish-American War and as Chief of Staff for General Pershing during World War I. The Military Reservation was designated a "Fort" in 1975. Ft Hunter Liggett continues to test and train today.

REGULATIONS

THE POST COMES UNDER THE SAME TRAFFIC REGULATIONS AS AT ANY OTHER MILITARY INSTALLATION.

Criminal Offenses ARE SENT TO THE US ATTORNEY'S OFFICE IN SAN JOSE WHICH IS LOCATED 140 MILES NORTH OF POST.

Restricted Areas ALL TRAINING AREAS ARE RESTRICTED!!!! CONTACT RANGE CONTROL AT EXT 2503/2403 FOR AUTHORIZATION TO GO INTO THE TRAINING AREAS

Pass (Site)  
 POC..... : STAFF  
 Location..... : FEDERAL POLICE STATION, BLDG 205

Telephone..... : 408-386-2513  
 Hours..... : 24 HOURS

Drivers License (State)  
 POC..... : Department of Motor Vehicles  
 Location..... : 302 N 2ND ST, KING CITY, CA  
 Telephone..... : 408-385-3186  
 Hours..... : MON-FRI 0800-1700

Vehicle Registration (State)  
 POC..... : SAME AS ABOVE  
 Location..... :  
 Telephone..... :  
 Hours..... :  
 Comments..... :

Fishing License (State)  
 POC..... : FISH & GAME DEPT  
 Location..... : 2201 GARDEN RD, MONTEREY, CA  
 Telephone..... : 408-649-2870  
 Comments..... :

Fishing license may be purchased at Outdoor Recreation.

Hunting License (State)  
 POC..... : SAME AS ABOVE  
 Location..... :  
 Telephone..... :  
 Comments..... :

NEARBY INSTALLATIONS

STATE/COUNTRY	INSTALLATION	SVC	SITE #
CA/PASO ROBLES	CAMP ROBERTS	ARMY	----
CA/MONTEREY	FT ORD	ARMY	0460
CA/MONTEREY	NAVAL POSTGRADUATE SCHOOL	NAVY	0615
CA/MONTEREY	DEFENSE LANGUAGE INSTITUTE	ARMY	----

COMMONLY REFERENCED NUMBERS

The prefix for Ft Hunter Liggett is (408) 386-xxxx and the DSN is

SPTSVCs

GENERAL INFORMATION SPTSVCs

OVERVIEW SPTSVCs

SUPPORT GROUPS

Alcoholics Anonymous  
 POC..... : Marylou Scala  
 Location..... : ACDO Office  
 Telephone..... : 386-2762  
 Hours..... : 0800-1630 Mon-Fri

COPE  
 POC..... : Same As Above  
 Location..... :  
 Telephone..... :  
 Hours..... :  
 Comments..... :

SINGLE MEMBER SERVICES

CRISIS MANAGEMENT

Suicide Prevention Hotline  
 POC..... : 1-800-827-7571

FAMILY CENTERS

Information and Referral  
 POC..... : Army Community Service  
 Location..... : Bldg 205  
 Telephone..... : 386-2612  
 Hours..... : 0800-1630 Mon-Fri

Financial Programs  
 POC..... : Army Community Service  
 Location..... : BLDG 205  
 Telephone..... : 386-2762  
 Hours..... : 0800-1630 Mon-Fri

Relocation Assistance  
 POC..... : Staff  
 Location..... : Bldg 205  
 Telephone..... : 386-2612  
 Hours..... : 0800-1630 Mon-Fri

MORALE, WELFARE, AND RECREATION

DPCA OFFICE  
 POC..... : Mr. Morehouse  
 Location..... : Bldg 205  
 Telephone..... : 386-2762  
 Hours..... : 0800-1630 Mon-Fri

Arts & Crafts Center  
 POC..... : Ms Hutchingson  
 Location..... : Bldg 179  
 Telephone..... : 386-2590  
 Hours..... : 1430-2100 M-TH 1200-1800 Sun

Auto Crafts Center  
 POC..... : Mr Knutson  
 Location..... : Bldg 132

PCS

Inprocessing/Outprocessing, Portcalls, Levy Section, and some Finance is handled through the Garrison MILPO. Each Unit PAC assists with initial paperwork, TEXCOM PAC number is 386-2203.

INPROCESSING

POC..... : SFC LASTER  
 Location..... : BLDG 205  
 Telephone..... : 386-2533  
 Hours..... : 0900-1630 MON-FRI

OUTPROCESSING

POC..... : SAME AS ABOVE

TDY-TAD

SEPARATION

TEMPORARY LODGING

BILLETING

BILLETING OFFICE

POC..... : MRS GILLET  
 Location..... : BLDG 205  
 Telephone..... : 386-2511  
 Hours..... : 0800-1630  
 Comments..... :

AFTERHOURS ROOM KEY PICK-UP IS AT RANGE CONTROL, LOCATED ON MISSION ROAD. PHONE 386-2503/2403

FAMCAMP-CAMPGROUND

CAMPING RESERVATIONS OFFICE

POC..... : OUTDOOR RECREATION  
 Location..... : Bldg 630  
 Telephone..... : 386-2214  
 Hours..... : Fri-Mon 0800-1800  
 Comments..... :

This is a primitive campground.

TRAVEL

Travel of Unaccompanied Family Members

Travel Office-Commercial Travel Office

POC Name..... : SATO  
 Location..... : Recreation Center Bldg 287  
 Telephone..... : 386-2406  
 Hours..... : 1200-2100 Mon-Fri, 1300-2100 SAT&Sun

686-xxxx. Some numbers listed below start with 242, this indicates that they are services located at Ft Ord and not available at Ft Hunter Liggett.

American Red Cross..... : 242-7801  
 Army Community Services..... : 386-2762  
 Army Emergency Relief..... : 386-2612  
 Billeting..... : 386-2511  
 Chaplain..... : 386-2808  
 Community Club(Hacienda)..... : 386-2588  
 Command Post..... : 386-2505  
 Commissary..... : 386-2178  
 Coordinated Care(TRICARE/CHAMPUS): 386-2570  
 Education Office..... : 386-2507  
 Exchange..... : 386-2896  
 Fire Department..... : 386-2527  
 Hospital..... : 911  
 Housing Office..... : 386-2108  
 ID Cards/DEERS..... : 386-2533  
 Legal Office..... : 386-2714  
 Library..... : 386-2719  
 Outdoor Recreation..... : 386-2214  
 Police..... : 386-2613  
 Travel Office..... : 386-2406(SATO)  
 Vehicle Registration on post.... : 386-2513  
 Veterinary Services at FT Ord... : 242-4994

MAJOR UNIT LISTING

TEST & EXPERIMENTATION COMMAND

Commander..... : 386-2644  
 Duty-Orderly Room..... : 386-2109

UNITED STATES ARMY GARRISON

Commander..... : 386-2533  
 Duty-Orderly Room..... : 386-2509

SITE TRANSPORTATION

SATO, OMEGA, etc.

Location..... : Recreation Center  
 Telephone..... : 386-2406  
 Hours..... : Mon-Fri 12-9pm Sat&Sun 1-9pm

COMMISSARY AND EXCHANGE OPERATIONS



Commissary  
 POC..... : STAFF  
 Telephone..... : 386-2178  
 Hours..... : T-Fri 11-7pm, Sat 9-4pm

Exchange  
 POC..... : Staff  
 Telephone..... : 386-2896  
 Hours..... : Mon-Fri 11-6,Sat 9-4,Sun 12-4

Dry Cleaner  
 POC..... : STAFF  
 Telephone..... : 386-0161  
 Hours..... : 10-5:30 Mon,Tues,Thur,Fri

MUST KNOW ITEMS

THERE IS NO FINANCE OFFICE ON POST. ALL FINANCIAL TRANSACTIONS ARE HANDLED BY FT LEWIS WASHINGTON. THIS MEANS THAT PCS ADVANCES TAKE A MINIMUM OF 10 WORKING DAYS BEFORE THE CHECK ARRIVES IN THE MAIL. PLAN AHEAD AND BE PREPARED FOR THE TIME IT TAKES THE MONEY TO ARRIVE. THE ACS LOAN CLOSET CONTAINS COOKWARE AND IRONS, PLAN ON BRINGING WHAT YOU WILL NEED UNTIL YOUR HOUSEHOLD GOODS ARRIVE IF IT IS OTHER THAN WHAT IS IN THE LOAN CLOSET. FOR AFTER HOURS EMERGENCY CONTACT RANGE CONTROL 386-2403/2503 FOR FEDERAL POLICE 24 HOURS CONTACT AT 386-2513

RELO

GENERAL INFORMATION RELO

OVERVIEW RELO

FINANCIAL PREPAREDNESS

EXCEPTIONAL FAMILY MEMBER PROGRAM (EFMP)

Program Coordinator  
 Location..... : FT ORD  
 Telephone..... : 242-5611  
 Hours..... : 0730-1630

HOUSEHOLD GOODS SHIPMENTS

HHG IN-BOUND SHIPMENTS

TRANSPORTATION OFFICE

POC Name..... : Staff  
 Location..... : Presidio of Monterey  
 Telephone..... : 647-5410

HHG OUT-BOUND SHIPMENTS

TRANSPORTATION OFFICE

POC Name..... : Staff  
 Location..... : Presidio of Monterey  
 Telephone..... : 647-5410

HHG CLAIMS

Claims Office

POC..... : Staff  
 Location..... : BLDG 2791 FT ORD  
 Telephone..... : 242-8843

HHG WEIGHT ALLOWANCES

POV SHIPMENTS

POV IN-BOUND SHIPMENTS

POV OUT-BOUND SHIPMENTS

POV CLAIMS

PET INFORMATION

LICENSING

QUARANTINES

VETERINARY-COMMUNITY SERVICES

Site Veterinarian

POC..... : Staff  
 Location..... : Ft Ord  
 Telephone..... : 242-4994

PET TRANSPORTATION

REPORTING PROCEDURES

Housing Referral Office  
POC..... : STAFF  
Location..... : BLDG 205  
Telephone..... : 386-2511  
Hours..... : 0800-1600 MON-FRI  
Comments..... :

The senior enlisted and officer units are counted together and the lower enlisted are separate. So the total number of units varies by category. On Ft Hunter Liggett there are 59 total junior enlisted units and 26 Officer and Senior Enlisted. It takes approximately one year to get housing.

Billeting Office  
Location..... : BLDG 205  
Telephone..... : 386-2511  
Hours..... : 0800-1600 MON-FRI

#### COMMUNITY HOUSING

COMMUNITY HOUSING: Though housing in Monterey County is expensive, winters are moderate, and utility costs should be low. Low-priced miles of the front gate. About 90% of the Landlords do not accept pets. Those who do accept pets usually charge \$75-100 additional deposit per pet, and some ask a monthly fee. The average cost for a two bedroom unfurnished apartment starts at 670.00.

Housing Referral Office  
POC..... : STAFF  
Location..... : BLDG 205  
Telephone..... : 386-2511  
Hours..... : 0800-1600 M-F

#### UTILITIES

#### CMTY

##### GENERAL INFORMATION CMTY

##### OVERVIEW CMTY

##### AREA DEMOGRAPHICS

##### EVENTS CALENDAR

The Great Monterey Squid Festival  
Location..... : Monterey County Fairgrounds  
Telephone..... : 408-649-6547  
Date(s)..... : MAY  
Comments..... :

Entertainment, cooking demonstrations, arts and crafts

##### ATTRACTIONS

##### CULTURAL

HEARST CASTLE  
Telephone..... :  
INFORMATION..... : 805-927-2000  
Tickets..... : 805-238-0078  
Comments..... :

Contact the Rec Center for more information on guided tours and military rates.

SAN ANTONIO MISSION  
Location..... : ON POST  
Telephone..... : 385-1126

Monterey Bay Aquarium  
Location..... : Cannery Row  
Telephone..... : 408-648-4888  
Hours..... : 1000-1800 Daily

Point Sur State Historic Park  
Location..... : Highway 1, South of Monterey  
Telephone..... : 408-625-4419  
Comments..... :

Guided two and half hour tours of a century old lighthouse and surroundings.

##### RECREATION

THERE ARE MANY NATIONAL PARKS WITHIN DRIVING DISTANCE THAT CAN BE ENJOYED BY THE WHOLE FAMILY. CONTACT THE RECREATION CENTER FOR MORE INFORMATION AT EXT 2406.

##### CIVIC ORGANIZATIONS

KING CITY ROTARY  
Location..... : KING CITY  
Comments..... :

KING CITY ROTARY CLUB MEETS EACH WEDNESDAY AT 12:15P.M. AT KEEFER'S RESTAURANT

##### SHOPPING

DEL MONTE CENTER  
 Location..... : MONTEREY  
 Telephone..... : 373-2705  
 Hours..... : 1000-2100 MON-SAT  
 1200-1700 SUN

Proximity to site..... : 87 MILES NORTH  
 Major Stores..... : MACYS, MERVYN

NORTHRIDGE MALL  
 Location..... : SALINAS  
 Telephone..... : 449-7226  
 Hours..... : 1000-2100 MON-SAT  
 1100-1700 SUN

Proximity to site..... : 80 MILES NORTH  
 Major Stores..... : DISNEY STORE, EMPORIUM, SEARS,  
 JC PENNY

Outlet Mall  
 Location..... : GILROY  
 Proximity to site..... : 110 MILES  
 Major Stores..... : NIKE, GUESS, BABY GUESS,  
 ESPIRT  
 OSHGOSH, HANES, MIKASA

SOCIAL SERVICES

STATE AND COMMUNITY AGENCIES

Social Services MONTEREY COUNTY  
 POC..... : STAFF  
 Location..... : 116 BROADWAY, KING CITY, CA  
 Telephone..... : 385-7400

AFDC FOOD STAMPS  
 POC..... : STAFF  
 Location..... : 116 BROADWAY, KING CITY, CA  
 Telephone..... : 385-7400

PRIVATE AGENCIES

MEE GEO L MEMORIAL HOSPITAL  
 POC..... : STAFF  
 Location..... : 300 CANAL STREET, King City, CA  
 Telephone..... : 385-6000

TWIN CITIES COMMUNITY HOSPITAL  
 POC..... : STAFF  
 Location..... : 1100 Las Tablas Rd,  
 Templeton, CA

Telephone..... : 805-434-3500

NON-PROFIT AGENCIES

RELIGIOUS ACTIVITIES

COMMUNITY TRANSPORTATION

Monterey Airport  
 Location..... : Hwy 68 & Olmstead RD, Monterey  
 Telephone..... : 373-1704  
 Proximity to site..... : 87 Miles  
 Comments..... :

HSG

GENERAL INFORMATION HSG

OVERVIEW HSG

HOUSING ALLOWANCES

VHA RATES AND ASSOCIATED STATISTICS

LOCATION: MONTEREY, CA

MHA: 039

NUMBER OF RESPONDENTS TO SURVEY: 1026

THE 1995 VHA RATE TABLES FOR THIS LOCATION:

(TOP LINE AT WITH DEPENDENT RATE; BOTTOM LINE AT WITHOUT DEPENDENT RATE)

E-1	E-2	E-3	E-4	E-5	E-6	E-7	E-8	E-9
242.52	242.52	229.68	246.96	271.76	344.97	421.63	417.88	423.59
135.77	152.38	169.17	172.44	189.72	234.78	292.93	315.79	321.40
W-1	W-2	W-3	W-4	W-5				
455.60	408.19	425.02	497.03	497.03				
346.05	320.27	345.49	440.69	440.69				
O-1E	O-2E	O-3E						
334.50	359.54	440.07						
248.19	286.60	372.33						
O-1	O-2	O-3	O-4	O-5	O-6	O-7+		
322.13	349.18	362.74	500.21	467.59	471.34	404.18		
237.37	272.96	305.54	434.95	386.65	390.14	328.34		

TYPE OF HOUSING	PERCENTAGE:
SINGLE-FAMILY DETACHED	39.1
SEMI DETACHED (TOWNHOUSE, ETC)	12.5
APARTMENT (OWNED OR RENTED)	46.1
MOBILE HOME	1.6
OTHER (E.G. PRIVATE VESSEL)	0.0

RENT OR OWN THE RESIDENCES	PERCENTAGE
RENT	82.8
OWN	16.4
NEITHER	0.0

AVERAGE MONTHLY HOUSING PAYMENT: \$ 903.68  
 AVERAGE MONTHLY UTILITY PAYMENT: \$ 103.36  
 TOTAL MAINTENANCE COST: \$ 39.78

PERCENT OF VHA RESPONDENTS WHO ARE SATISFIED/NOT SATISFIED WITH:

	SAT	NOT SAT	NO OPINION
DWELLING UTILITIES	89.8	9.3	0.0
STRUCTURAL SOUNDNESS	95.3	3.1	0.0
MECHANICAL EQUIPMENT	32.0	0.7	65.6
NEIGHBORHOOD SAFETY	32.8	0.7	65.6
NUMBER OF BEDROOM	32.8	0.7	64.8
UNIT DESIGN	94.5	3.9	0.0
PARKING ADEQUACY	96.0	2.3	0.0
OVERALL SUITABILITY	93.7	4.6	0.7

AREA HOUSING DEMOGRAPHICS

GOVERNMENT HOUSING

Comments..... : IT IS IMPERATIVE THAT FAMILY MEMBERS ENROLL IN THE TRI-CARE/CHAMPUS PROGRAM UPON ARRIVAL AT FT HUNTER LIGGETT. ALL NON-EMERGENCY FAMILY MEMBER HEALTH CARE IS HANDLED BY CIVILIAN PHYSICIANS WHO PARTICIPATE IN THE PROGRAM.

Full service available.  
Greyhound Bus  
Location..... : 351 Del Monty, Monterey  
Telephone..... : 373-4735  
Proximity to site..... : 88 Miles  
Comments..... :

COMMUNITY HOSPITALS

MEE GEO L MEMORIAL HOSPITAL  
Location..... : 300 CANAL ST, KING CITY  
Telephone..... : 385-6000  
Proximity to base..... : 23 MILES

SALINAS VALLEY MEMORIAL HOSPITAL  
Location..... : 450 ROMIE LANE, SALINAS  
Telephone..... : 757-4333  
Proximity to base..... : 88 miles

NATIVIDAD MEDICAL CENTER  
Location..... : 1330 NATIVIDAD RD, SALINAS  
Telephone..... : 755-4111  
Proximity to base..... : 88 miles

TWIN CITIES COMMUNITY HOSPITAL  
Location..... : 1100 Las Tablas Rd,  
Templeton,CA  
Telephone..... : 805-434-3500  
Proximity to base..... : 60 miles

There is a stop in King City which is 23 Miles northeast of Ft Hunter Liggett. Tickets still need to be purchased in Monterey.

DENTAL CLINIC

CLINIC DIRECTORY

Commander..... : LTC Wade  
Central Appointments..... : 386-2530  
Clinics..... :  
Endodontics..... : 386-2530  
Periodontics..... : 386-2530

DEPENDENT DENTAL PLAN

All dental coverage is through Delta Dental Plan. Servicemembers should enroll in the plan to ensure that their families are covered. The unit PAC can assist in the process.

WELLNESS

Smoking Cessation, etc  
POC..... : Mike Ferreira  
Location..... : Bldg 210  
Telephone..... : 386-2570

EDUC

GENERAL INFORMATION EDUC

Site Education Office  
 POC..... : Mr Isleib  
 Location..... : Bldg 205, 2ND Floor  
 Telephone..... : 386-2507  
 Hours..... : Mon-Thur 0800-1800

PUBLIC AND DODDS SCHOOLS

ELEMENTARY DISTRICT OFFICE, KING CITY  
 POC..... : STEVE YOUNG, SUPERINTENDENT  
 Location..... : 336 S VANDERHURST AVE  
 Telephone..... : 385-1144  
 Proximity to site..... : 23 MILES

SAN ANTONIO SCHOOL, LOCKWOOD  
 POC..... : John Wight  
 Location..... : SAN LUCAS ROAD  
 Telephone..... : 385-3051  
 Proximity to site..... : 11 miles  
 Comments..... :

K-8

KING CITY HIGH SCHOOL  
 POC..... : Barry Lindaman, Principal  
 Location..... : 720 Broadway  
 Telephone..... : 385-5461  
 Proximity to site..... : 23 Miles

PRIVATE SCHOOLS

COLLEGES-UNIVERSITIES

ADULT-CONTINUING EDUCATION

Education Office  
 POC..... : Staff  
 Location..... : BLDG 205  
 Telephone..... : 386-2549  
 Hours..... : Mon-Thur 0800-1830

Hartnell College  
 POC..... : Mr Isleib  
 Telephone..... : 386-2951  
 Tuition..... : 13.00 credit hour(resident)  
                   : 123.00 non-resident

Comments..... :  
 Hartnell is a two year college.

GED  
 POC..... : Staff  
 Location..... : BLDG 205  
 Telephone..... : 386-2507  
 Hours..... : Thursday 0800-1300  
 Comments..... :

GED is offered only for ACTIVE DUTY. A practice test is available for dependents and civilians.

HEALTH

GENERAL INFORMATION HEALTH

OVERVIEW HEALTH

QUALITY HEALTH CARE IS AVAILABLE TO THE MILITARY COMMUNITY THROUGH THE FORT HUNTER LIGGETT ARMY HEALTH CLINIC, THE TROOP MEDICAL CLINIC BLDG 210 AT FT HUNTER LIGGETT, AND THE THREE HOSPITALS IN THE AREA. Referrals are made to Civilian Physicians, Vandenberg Air Force Base (140 Miles south), to ensure the best medical care. Active Duty personnel are served by the Ft Hunter Liggett Health Clinic. Retirees and family members will be served on a space available basis. All will be using the TRI-CARE/CHAMPUS Program.

SERVICES PROVIDED

SERVICES PROVIDED All necessary services are provided by the three hospitals in the community, with unusual or special services available in the San Francisco Bay area.

	(Y-N)	
Cardiology		yes(referral)
Obstetrics		yes(referral)
Ophthalmology		yes(referral)
Orthopedics		yes(referral)
Pediatrics		yes(referral)
etc.		

MEDICAL

MEDICAL TREATMENT FACILITY DIRECTORY

CHAMPUS/TRI-CARE..... : 386-8807  
 Community Mental Health..... : 386-2570  
 Coordinated Care Division..... : 242-4005/4885  
 Central Appointments..... : 386-2570  
 EFM Coordinator..... : 386-2570  
 Family Advocacy..... : 386-2570  
 Health Benefits Advisor..... : 386-8807  
 Patient Appointments-POM Army Health Clinic, ACTIVE DUTY  
 MILITARY ONLY : 647-5741/4243  
 Physical Exams Appointments..... : 386-2570  
 Veterinary Facility..... : 242-4994/4271

HEALTH BENEFITS ADVISOR-CHAMPUS

POC..... : Mr FERREIRA  
 Location..... : Bldg 210  
 Telephone..... : 386-8807  
 Hours..... : Mon-Fri 0800-1700

SPECIAL EDUCATION

Location..... : 1230 J Street, Sacramento, CA  
95814

Telephone..... : 916-445-6731  
Hours..... : 0800-1700 Mon-Fri

EMPL

GENERAL INFORMATION EMPL

OVERVIEW EMPL

Good Prospects..... :
Fair Prospects..... :
Poor Prospects..... :

AREA EMPLOYMENT DEMOGRAPHICS

FEDERAL CIVILIAN EMPLOYMENT FOR SPOUSES

EMPLOYMENT RESOURCES

FULL TIME

Spouse Employment Program
POC..... : Ms Harmer
Location..... : CPO Office, Bldg 205
Telephone..... : 386-2528
Hours..... : Mon-Fri 0800-1630

TEMPORARY

Kelly Temporaries
POC..... : STAFF
Location..... : Monterey
Telephone..... : 373-4400
Hours..... : 0800-1700 Mon-Fri

Manpower
POC..... : STAFF
Location..... : 299 Webster ST, Monterey
Telephone..... : 646-1200
Hours..... : 0900-1700 Mon-Fri

NON-PAID-VOLUNTEER

MAJOR BUSINESSES

CHAMBERS OF COMMERCE

King City Chamber of Commerce
POC..... : Lynnne Oliveira
Location..... : 203 Broadway, King City
Telephone..... : 385-3814

Paso Robles Chamber of Commerce
POC..... : Bill Winter
Location..... : 1225 Park St
Telephone..... : (805)238-0506

PRIVATE SECTOR EMPLOYMENT

California State of Employment Development Department

Job Service
POC..... : Staff
Location..... : 323 Bassett, King City
Telephone..... : 385-4833

Employment Services

POC..... : Westside Produce
Location..... : PO Box 758, Soledad
Telephone..... : 678-0252

GOVERNMENT EMPLOYMENT

Civilian Personnel Office

POC..... : STAFF
Location..... : Bldg 205
Telephone..... : 386-2528
Hours..... : Mon-Fri 0800-1630

Office of Personnel Management

POC..... : Same as above
Location..... :
Telephone..... :
Hours..... :
Comments..... :

Non-Appropriated Funds (NAF)

POC..... : Same as Above
Location..... :
Telephone..... :
Hours..... :
Comments..... :

AAFES

POC..... : Staff
Location..... : BLDG 80
Telephone..... : 386-2683
Hours..... : Mon-Fri 1100-1800

PROFESSIONAL-OCCUPATIONAL LICENSING

Registered Nurse

POC..... : CA State Board Of Nursing
Location..... : 1021 O ST, Sacramento, CA 95814
Telephone..... : 916-445-6951
Hours..... : 0800-1700 Mon-Fri

Teacher Certification

POC..... : State Of CA Dept Of Education
Location..... : 721 Capitol Mall, Sacramento, CA
Telephone..... : 916-445-4688
Hours..... : 0800-1700 Mon-Fri

Child Care

POC..... : State of CA Dept of Social Services
Child Care Licensing Division
Location..... : 1600 9TH Street, Room 450 Sacramento, CA 95814
Telephone..... : 916-445-6951
Hours..... : 0800-1700 Mon-Fri

Home Business

POC..... : Secretary of State Corporations

# Document Separator





THE DEFENSE BASE CLOSURE AND REALIGNMENT COMMISSION  
1700 NORTH MOORE STREET SUITE 1425  
ARLINGTON, VA 22209  
703-696-0504

950503-1R1

ALAN J. DIXON, CHAIRMAN

COMMISSIONERS:  
AL CORNELLA  
REBECCA COX  
GEN J. B. DAVIS, USAF (RET)  
S. LEE KLING  
RADM BENJAMIN F. MONTOYA, USN (RET)  
MG JOSUE ROBLES, JR., USA (RET)  
WENDI LOUISE STEELE

May 8, 1995

The Honorable Sam Farr  
United States House of Representatives  
Washington, D.C. 20515

Dear Representative Farr:

Thank you for your letter requesting that the Commission direct the Department of Defense to analyze Fort Hunter Liggett's military value as an operational test facility. I appreciate your testifying before the Commission on April 28 in San Francisco, and I welcome your continued interest in this process.

You may be certain that the Commission will thoroughly review the information used by the Defense Department in making its recommendations. I can assure you that the information you have provided will be considered by the Commission in our review and analysis of the Secretary of Defense's recommendation on Fort Hunter Liggett.

I look forward to working with you through this difficult and challenging process. Please do not hesitate to contact me whenever you believe I can be of assistance.

Sincerely,

Alan J. Dixon  
Chairman

AJD:js

LTC B's Copy

EXECUTIVE CORRESPONDENCE TRACKING SYSTEM (ECTS) # 950503-1

FROM: <u>FARR, SAM</u>	TO: <u>DIXON</u>
FILE: <u>REP. (CA)</u>	TITLE: <u>CHAIRMAN</u>
ORGANIZATION: <u>U. S. CONGRESS</u>	ORGANIZATION: <u>DBCRC</u>
INSTALLATION (s) DISCUSSED: <u>FORT HUNTER LIGGETT</u>	

OFFICE OF THE CHAIRMAN	FYI	ACTION	INT	COMMISSION MEMBERS	FYI	ACTION	INT
CHAIRMAN DIXON				COMMISSIONER CORNELLA	✓		
STAFF DIRECTOR	✓			COMMISSIONER COX	✓		
EXECUTIVE DIRECTOR	✓			COMMISSIONER DAVIS	✓		
GENERAL COUNSEL	✓			COMMISSIONER KLING	✓		
MILITARY EXECUTIVE				COMMISSIONER MONTOYA	✓		
				COMMISSIONER ROBLES	✓		
DIR./CONGRESSIONAL LIAISON		Ⓢ		COMMISSIONER STEELE	✓		
DIR./COMMUNICATIONS				REVIEW AND ANALYSIS			
				DIRECTOR OF R & A	✓		
EXECUTIVE SECRETARIAT				ARMY TEAM LEADER		X	β3
				NAVY TEAM LEADER			
DIRECTOR OF ADMINISTRATION				AIR FORCE TEAM LEADER			
CHIEF FINANCIAL OFFICER				INTERAGENCY TEAM LEADER	✓		
DIRECTOR OF TRAVEL				CROSS SERVICE TEAM LEADER			
DIR./INFORMATION SERVICES				STEVE BAILEY	✓		

TYPE OF ACTION REQUIRED

Ⓢ	Prepare Reply for Chairman's Signature		Prepare Reply for Commissioner's Signature
	Prepare Reply for Staff Director's Signature		Prepare Direct Response
X	ACTION: Offer Comments and/or Suggestions	✓	FYI

Subject/Remarks:

REQUESTING DBCRC TO ANALYZE FORT HUNTER LIGGETT'S MILITARY VALUE AS AN OPERATIONAL TEST FACILITY.

Date: <u>950505</u>	Routing Date: <u>950503</u>	Date Originated: <u>950502</u>	Mail Date:
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SAM FARR  
17TH DISTRICT, CALIFORNIA

1111 LONGWORTH BUILDING  
WASHINGTON, DC 20515-0517  
(202) 225-2061

COMMITTEE ON AGRICULTURE  
SUBCOMMITTEES:  
DEPARTMENT OPERATIONS, NUTRITION  
AND FOREIGN AGRICULTURE  
RISK MANAGEMENT AND SPECIALTY CROPS

Congress of the United States  
House of Representatives  
Washington, DC 20515-0517

DISTRICT OFFICES  
SRI ALVARADO STREET  
MONTEPELIER, CA 95940  
(408) 849-7555  
100 WEST AVENUE  
SALINAS, CA 95901  
(408) 424-2129  
701 OCEAN STREET  
FLORENCE, CA  
SANTA CRUZ, CA 95060  
(408) 429-1976

COMMITTEE ON RESOURCES  
SUBCOMMITTEES:  
FISHERIES, WILDLIFE AND OCEANS  
WATER AND POWER RESOURCES

May 2, 1995

The Honorable Alan Dixon  
Chairman  
Base Closure And Realignment  
Commission  
1700 N. Moore St., Suite 1425  
Arlington, Virginia 22209

Please refer to this number  
when responding 950503-1

Dear Mr. Chairman:

As I noted in my testimony to the Base Closure and Realignment Commission (BRAC) during the San Francisco hearing on April 28, 1995, I am convinced that the Department of the Army made a critical mistake in its analysis that led to the DoD recommendation to realign the Test & Experimentation Command (TEXCOM) from Fort Hunter Liggett to Fort Bliss.

The DoD's recommendation to realign TEXCOM pertains entirely to operational testing functions, but it is based on an Army analysis of Fort Hunter Liggett as a training area. As a result, this realignment recommendation is fundamentally flawed because in substance, it is completely unrelated to the analysis that supports it.

Because the Army analysis is focused on Hunter Liggett exclusively as a training area, the Army failed to address key issues when it issued a recommendation to DoD which affects an operational test and experimentation activity. The recommendation to realign TEXCOM to Fort Bliss did not take into consideration the unique factors which make Fort Hunter Liggett a high military value to the DoD operational testing community which do not exist at Fort Bliss and cannot be duplicated. These include its varied terrain, the lack of artificial light contamination and the isolation of the installation.

I therefore request the Defense Base Closure and Realignment Commission to direct the DoD to revisit its recommendation; analyze Fort Hunter Liggett's military value as an operational test facility, fully coordinating this analysis with the Office of the DoD Director of Operational Test and Evaluation, and submit a revised recommendation based on the results of this analysis.

I look forward to discussing this issue with you and the Commission in the near future.

Sincerely,

  
SAM FARR  
Member of Congress



OFFICE OF THE SECRETARY OF DEFENSE  
WASHINGTON, DC 20301-1700

OPERATIONAL TEST  
AND EVALUATION

April 25, 1995

Please refer to this document  
under document # 950424-20

RI

Honorable Alan J. Dixon  
Chairman, Defense Base Closure  
and Realignment Commission  
1700 N. Moore Street, Suite 1425  
Arlington, Virginia 22209

Dear Mr. Chairman:

I appreciated the opportunity to testify before you on April 17, 1995. We are committed to providing the Commission with all the assistance and support we can. Enclosed are the responses to the questions you provided me from Congressman Sam Farr.

I trust this information will be helpful to you and please let me know if there is anything else I can provide.

Sincerely,

Philip E. Coyle  
Director

Enclosure

Congressional Questions for the Record

Question: Mr. Coyle, as the person responsible for operational testing in DoD, you state in your February 10, 1995 memorandum to the Assistant Secretary of Defense for Economic Security (Economic Reinvestment & BRAC) that the recommendation to realign Fort Hunter-Liggett is a "showstopper."

Answer: To quote from our February 10, 1995 memorandum, our recommendation was that the "Army withdraw (its) proposal to move its test battalion from Fort Hunter-Liggett to Fort Bliss." Perhaps our use of the word "showstopper" was not the best choice. In the theater, a showstopper is applause that is so extended that it stops the show. This was not our meaning. Our memorandum was to convey our feeling that Fort Hunter-Liggett is an especially valuable asset, and that its inclusion on the BRAC list should not be recommended to the Secretary of Defense. Subsequent to our February 10 memorandum, I discussed my concerns with the Army. The Army expressed their view that the operational considerations raised by DOT&E were, in fact, considered in the Army's test planning. In addition, they pointed out that the size of the TEC mission is small and could be realigned in the future outside of the BRAC process should the need arise. The recommendation also retains the land at Hunter-Liggett under Army control should the need arise to resume major testing there. I told the Army that I remained skeptical and concerned about the implications of this realignment for future Army testing capability.

Question: Mr. Coyle, we understand that there are conditions at Fort Hunter-Liggett which enhance it as a site for performing operational testing. These include: a varied terrain, isolation, no artificial light contamination and no radio frequency interference. Do these conditions exist at Fort Bliss? If not, could they be created?

Answer: Fort Bliss does not have the quality of terrain, weather, foliage, lack of artificial light contamination, or freedom from radio frequency interference as Fort Hunter-Liggett. It would be impractical to "create" these features at Fort Bliss. Instead the testing capabilities from other Army test assets would be used in combination to approximate the capabilities at Fort Hunter-Liggett. Also the Army proposal provides for future use of Fort Hunter-Liggett when required.

Question: Mr. Coyle, from a military value standpoint is the "laser-safe bowl" (which allows for non-eye safe laser testing in an instrumented valley) at Fort Hunter-Liggett a critical component of operational testing?

Answer: Yes, modern testing of military systems often involves firing lasers instead of actual bullets or missiles. These laser firings are "paired" with laser receptors on the intended targets to determine if a hit has taken place. Of course, this must be done with the utmost personnel safety. The natural bowl at Fort Hunter-Liggett provides an ideal setting for such tests. Laser firings are conducted at other DoD test ranges but with concomitant restrictions where natural protection is unavailable.

Question: Mr. Coyle, do you think the instrumentation suite (used to monitor and record every player's activity during a test) could be duplicated at Fort Bliss? If so, would it be as effective?

Answer: For the right amount of money, the instrumentation at Fort Hunter-Liggett could be duplicated at Fort Bliss. If as good a job were done as has been done at Fort Hunter-Liggett, it could be as effective at Fort Bliss.

Question: Mr. Coyle, from a military value standpoint, is Fort Hunter-Liggett essential to operational testing to DoD?

Answer: Military value was evaluated by the Services, not by the Joint Cross Service Groups (JCSG). Military value-as determined by the Services-was considered along with functional values-determined by the JCSG's-in the final Service recommendations. Recognizing the special value of Fort Hunter-Liggett, the Army has proposed to continue to test at Fort Hunter-Liggett on a campaign basis. My concern is that moving the test command to Fort Bliss could become a de facto closing from a testing point of view.

Just four years ago, in 1991, the Army consolidated testing activities at Fort Hunter-Liggett because of the higher costs of campaign-style operation. Accordingly, once having moved to Fort Bliss, the Army may find that it is too expensive to return to Fort Hunter-Liggett on a campaign basis.

ORIGINATED BY: ED BROWN  
 ARMY TEAM ROUTING SLIP

	ACTION	INFO	COORD	DATE: 8 MAY	APPROVE	FILE	INITIAL
TRICK BROWN							
J. GERTLER							
STEVE BAILEY							
BOB MILLER							
MIKE KENNEDY							
DAVE LEWIS	✓						
CLIFF WOOTEN							

COMMENTS:

Response to Congressman Fair's questions that was asked for the record at the 17 Apr hearing.

BB 9 May 95

The BRAC 95 recommendation to consolidate certain Electronic Combat test and evaluation activities, including realignment at Eglin AFB, were made pursuant to the requirements of the Defense Base Closure and Realignment Act of 1990, Section 2903. These recommendations, and the consequent elimination of underutilized infrastructure, are expected to generate a relatively high return on the front-end investment needed to implement the recommendations. Including this recommendation in the Secretary of Defense's recommendations to the Base Closure and Realignment Commission does not in itself involve the expenditure of FY95 or prior year funds for the relocation of equipment, and is therefore in compliance with the language of the "Report of the Committee on Armed Services, House of Representatives, National Authorization Act for Fiscal Year 1995." Further, the Department believes that making cost-effective recommendations is consistent with the FY1995 Appropriations Committee Report language requesting the Department to justify any Electronic Combat test facility consolidations on economic grounds.

#### **Questions submitted by Representative Farr**

1. As the person responsible for operational testing in DoD, you state in your February 10, 1995 memorandum to the Assistant Secretary of Defense for Economic Security (Economic Reinvestment & BRAC) that the recommendation to realign Fort Hunter Liggett is a "showstopper." Please explain.

**ANSWER:** To quote from our February 10, 1995 memorandum, our recommendation was that the "Army withdraw (its) proposal to move its test battalion from Fort Hunter-Liggett to Fort Bliss." Perhaps our use of the word "showstopper" was not the best choice. In the theater, a showstopper is applause that is so extended that it stops the show. This was not our meaning. Our memorandum was to convey our feeling that Fort Hunter-Liggett is an especially valuable asset, and that its inclusion on the BRAC list should not be recommended to the Secretary of Defense. Subsequent to our February 10 memorandum, I discussed my concerns with the Army. The Army expressed their view that the operational considerations raised by DOT&E were, in fact, considered in the Army's test planning. In addition, they pointed out that the size of the TEC mission is small and could be realized in the future outside of the BRAC process should the need arise. The recommendation also retains the land at Hunter-Liggett under Army control should the need arise to resume major testing there. I told the Army that I remained skeptical and concerned about the implications of this realignment for future Army testing capability.

2. We understand that there are conditions at Fort Hunter Liggett which enhance it as a site for performing operational testing. These include: a varied terrain, isolation, no artificial light contamination and no radio frequency interference. Do these conditions exist at Fort Bliss? If not, could they be created?

**ANSWER:** Fort Bliss does not have the quality of terrain, weather, foliage, lack of artificial light contamination, and freedom from radio frequency interference as Fort Hunter-Liggett provide a more realistic environment for Operational Test and Evaluation than that available at Fort Bliss. It would be impractical to "create" these features at Fort Bliss. Instead the testing capabilities from other Army test assets would be used in combination to approximate the



capabilities at Fort Hunter-Liggett. Also the Army proposal provides for future use of Fort Hunter-Liggett when required.

3. From a military value standpoint, is the "laser-safe bowl" (which allows for non-eye safe laser testing in an instrumented valley) at Fort Hunter Liggett a critical component of operational testing?

**ANSWER:** Yes, modern testing of military systems often involves firing lasers instead of actual bullets or missiles. These laser firings are "paired" with laser receptors on the intended targets to determine if a hit has taken place. Of course, this must be done with the utmost personnel safety. The natural bowl at Fort Hunter-Liggett provides an ideal setting for such tests. Laser firings are conducted at other DoD test ranges but with concomitant restrictions where natural protection is unavailable.

4. Do you think the instrumentation suite (used to monitor and record every player's activity during a test) could be duplicated at Fort Bliss? If so, would it be as effective?

**ANSWER:** For the right amount of money, the instrumentation at Fort Hunter-Liggett could be duplicated at Fort Bliss. If as good a job were done as has been done at Fort Hunter-Liggett, it could be as effective at Fort Bliss.

5. From a military value standpoint, is Fort Hunter Liggett essential to operational testing to DoD?

**ANSWER:** Military value was evaluated by the Services, not by the Joint Cross Service Groups (JCSG). Military value -- as determined by the Services -- was considered along with functional values -- determined by the JCSG's -- in the final Service recommendations. Recognizing the special value of Fort Hunter-Liggett, the Army has proposed to continue to test at Fort Hunter-Liggett on a campaign basis. My concern is that moving the test command to Fort Bliss could become a de facto closing from a testing point of view.

Just four years ago, in 1991, the Army consolidated testing activities at Fort Hunter-Liggett because of the higher costs of campaign-style operation. Accordingly, once having moved to Fort Bliss, the Army may find that it is too expensive to return to Fort Hunter-Liggett on a campaign basis.

#### **Questions submitted by Representative Hansen (to Dr. Coyle)**

1. Can you explain to the commission your position on the Army's recommendation to realign biological and chemical test and evaluation missions from Dugway Proving Grounds as outlined in the memorandum you signed dated February 10, 1995, to the Assistant Secretary of Defense for Economic Security.

EXECUTIVE CORRESPONDENCE TRACKING SYSTEM (ECTS) #

950503-1

FROM: FARR, SAM	TO: DIXON
TITLE: REP. (CA)	TITLE: CHAIRMAN
ORGANIZATION: U.S. CONGRESS	ORGANIZATION: OBCRC
INSTALLATION (S) DISCUSSED: FORT HUNTER LIGGETT	

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

TYPE OF ACTION REQUIRED

Ⓢ	Prepare Reply for Chairman's Signature		Prepare Reply for Commissioner's Signature
	Prepare Reply for Staff Director's Signature		Prepare Direct Response
X	ACTION: Offer Comments and/or Suggestions	✓	FYI

Subject/Remarks:

REQUESTING OBCRC TO ANALYZE FORT HUNTER LIGGETT'S MILITARY VALUE AS AN OPERATIONAL TEST FACILITY.

Date: 950505

Routing Date: 950503

Date Originated: 950502

Mail Date:

SAM FARR  
17TH DISTRICT, CALIFORNIA

1117 CONGRESS BUILDING  
WASHINGTON, DC 20515-0517  
(202) 225-2861

COMMITTEE ON AGRICULTURE  
SUBCOMMITTEES:  
DEPARTMENT OPERATIONS, NUTRITION  
AND FOREIGN AGRICULTURE  
RISK MANAGEMENT AND SPECIALTY CROPS

Congress of the United States  
House of Representatives  
Washington, DC 20515-0517

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701 OCEAN STREET  
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COMMITTEE ON RESOURCES  
SUBCOMMITTEES:  
FISHERIES, WILDLIFE AND OCEANS  
WATER AND POWER RESOURCES

May 2, 1995

The Honorable Alan Dixon  
Chairman  
Base Closure And Realignment  
Commission  
1700 N. Moore St., Suite 1425  
Arlington, Virginia 22209

Please refer to this number  
when responding 950503 - 1

Dear Mr. Chairman:

As I noted in my testimony to the Base Closure and Realignment Commission (BRAC) during the San Francisco hearing on April 28, 1995, I am convinced that the Department of the Army made a critical mistake in its analysis that led to the DoD recommendation to realign the Test & Experimentation Command (TEXCOM) from Fort Hunter Liggett to Fort Bliss.

The DoD's recommendation to realign TEXCOM pertains entirely to operational testing functions, but it is based on an Army analysis of Fort Hunter Liggett as a training area. As a result, this realignment recommendation is fundamentally flawed because in substance, it is completely unrelated to the analysis that supports it.

Because the Army analysis is focused on Hunter Liggett exclusively as a training area, the Army failed to address key issues when it issued a recommendation to DoD which affects an operational test and experimentation activity. The recommendation to realign TEXCOM to Fort Bliss did not take into consideration the unique factors which make Fort Hunter Liggett a high military value to the DoD operational testing community which do not exist at Fort Bliss and cannot be duplicated. These include its varied terrain, the lack of artificial light contamination and the isolation of the installation.

I therefore request the Defense Base Closure and Realignment Commission to direct the DoD to revisit its recommendation; analyze Fort Hunter Liggett's military value as an operational test facility, fully coordinating this analysis with the Office of the DoD Director of Operational Test and Evaluation, and submit a revised recommendation based on the results of this analysis.

I look forward to discussing this issue with you and the Commission in the near future.

Sincerely,



  
SAM FARR  
Member of Congress



**FT. HUNTER LIGGETT, CA BASE VISIT  
APRIL 26, 1995**

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**COMMISSION BASE VISIT  
FT. HUNTER LIGGETT BASE VISIT  
Wednesday, April 26**

**COMMISSIONER ATTENDING:**

Wendi Steele

**STAFF ATTENDING:**

Steve Bailey

**ITINERARY**

**Tuesday, Apr. 25**

- 7:00 AM Steve Bailey departs Seattle, WA. en route San Francisco, CA.  
United Flight 2317.
- 10:42AM Steve Bailey arrives San Francisco, CA from Seattle, WA.  
\* Picks up rental car and drives to Sierra Army Depot.  
\* Rental car: AVIS Conf. # 1696272US6
- 12:00PM to Steve Bailey advances Ft. Hunter Liggett.  
5:00PM MT
- 3:00PM MT Wendi Steele departs Sierra Army Depot en route Paso Robles Liggett Airport.  
MILAIR.
- 5:30PM MT Wendi Steele arrives Paso Robles Liggett Airport:  
MILAIR  
\* Picked up by base personnel and driven to Ft. Hunter Liggett.
- 7:00PM PT Wendi Steele arrives Ft. Hunter Liggett and is taken to RON.

**RON: Ft. Hunter Liggett Hacienda  
408-386-2413**

**Wednesday, Apr. 26**

**8:00AM to Ft. Hunter Liggett base visit.  
12:00PM PT**

12:00PM to Lunch on Post (BBQ).  
1:00PM PT

1:00PM PT Wendi Steele departs Ft. Hunter Liggett en route San Jose, CA Airport.  
\* Driven by Steve Bailey.

3:00PM PT Wendi Steele arrives San Jose CA Airport.  
\* Dropped of by Steve Bailey.

3:00PM PT Steve Bailey departs San Jose, CA en route San Francisco, CA (via rental car).

4:00PM PT Wendi Steele departs San Jose, CA Airport en route Los Angeles, CA.  
United flight 2016.

4:00PM PT Steve Bailey arrives San Francisco, CA from San Jose, CA.

5:10PM PT Wendi Steele arrives Los Angeles, CA Airport from San Jose, CA.  
\*-Picked up by Larry Jackson and driven to RON.

**Los Angeles RON: LAX HYATT  
6225 W. Century Blvd.  
Los Angeles, CA  
310-337-1239  
Wendi Steele**

# INSTALLATION REVIEW

## FORT HUNTER LIGGETT, CALIFORNIA

### 1. BACKGROUND

**Location:** Fort Hunter Liggett is located in southern Monterey County, between the Salinas Valley and the Pacific Coast. It is located approximately 80 miles south of Monterey and 25 miles west of King City. The southern edge of the fort borders San Luis Obispo County. El Paso de Robles is 48 miles to the south. The nearest military installation is California Army National Guard's Camp Roberts 17 miles to the south.

**History:** The Hunter Liggett military reservation was created with the purchase of the William Randolph Hearst cattle ranch and several other ranches in 1940. It served as a maneuver area and artillery range for recruits from Fort Ord, Camps Roberts, and San Luis. It was named after LTG Hunter Liggett who served in the Spanish American War, and was General Pershing's Chief of Staff, and commanded I Corps and First Army during World War I. Because of its remoteness, it was selected as the field laboratory site for the Combat Development Experimentation Center activated in 1956 and is the field site that was used for testing of the M-1 Abrams, M-2 Bradley, Sergeant York, Dragon, Javelin, and the Longbow Apache and many other pieces of equipment. Construction of limited permanent facilities began in 1969 and in 1975 the military reservation was designated as Fort Hunter Liggett. With the activation of the new light infantry divisions, Fort Hunter Liggett became the training area for the 7th Infantry Division "Light Fighters" until their deactivation. Fort Hunter Liggett was transferred to the Army Reserve Command in 1993 and is becoming the Western CONUS training site for USAR while continuing to support the National Guard.

**Current Mission:** Fort Hunter Liggett is the home of the Test and Experimentation Command (TEXCOM) Experimentation Center which conducts field equipment testing for the U.S. Army. It is the major maneuver area for combined arms training of the California Army National Guard 40th Infantry Division (Mech). The 91st Division (Exercise) and the 6th Regional Training Brigade use Fort Hunter Liggett for their mission in support of the 40th Infantry Division. With the closure of Fort Ord, Fort Hunter Liggett has begun to see many Reserve Officer Training Corps detachments and other units which formerly depended upon that installation. There are approximately 90 different units and agencies which use Fort Hunter Liggett. Additionally, Fort Hunter Liggett provides support to two Active Component detachments located at Camp Roberts.

### 2. ENVIRONMENTAL

Fort Hunter Liggett consists of 164,762 acres. A wetlands survey is not yet completed, therefore total wetland acreage is not known. The Kit Fox and the Bald Eagle are threatened or endangered species (TES) known to occur on the installation. Three buildings are on the National

# Document Separator



# History of Fort Hunter Liggett

Fort Hunter Liggett consists of 165,000 acres of mountainous high desert, located approximately 30 miles inland from the Pacific Ocean. The fort was purchased from William Randolph Hearst's estate in 1940 and was used to train soldiers during World War II and the Korean Conflict. The military reservation was named in honor of Lt. General Hunter Liggett who served during the Spanish-American War, and as Chief of Staff for General Pershing during World War I. The military reservation was designated a "fort" in 1975.

Fort Hunter Liggett is located between San Francisco and Los Angeles. Its proximity to these cities enables visitors and residents to partake in the different lifestyles, scenery, and attitudes of southern and northern California.

## Area Interests

**BIG SUR NATIONAL PARK:** Located about one hour northwest of Hunter Liggett. Hours of operation are Monday through Friday, 0800-1500 and Saturday 0800-2200 (restaurants). Services include: camping, swimming, hiking, fishing and picnicking. For more information contact the post recreation center.

**CARMEL BY THE SEA:** More commonly known as Clint Eastwood's town, is famous for its beaches, shops and crafts. Many of the small shops are privately owned and specialized in unusual merchandise.

**MID STATE FAIR, PASO ROBLES:** One of the largest fairs in the country is held in Paso Robles during the month of August. A variety of entertainment is offered. Performers like Kenny Rogers, Bruce Willis, Alabama, Reba McEntire, and Hank William Jr. attract nearly 500,000 people annually.

**SAN ANTONIO AND NACIMIENTO LAKE:** These two lakes offer some of the finest recreation in the area, and are only minutes away from main post. Many of the sporting events: fishing, camping, water skiing, and hiking are offered year round. The parks are open 24 hours daily and the marina, which is at Lake San Antonio, is open from 0700-1700 hours.

**OTHER INTERESTING AREAS AND EVENTS:** Hearst Castle, San Antonio Mission, The Pinnacles, Los Padres National Forest, Lake San Antonio Wildflower Festival, Mozart Festival, Pioneer Days Christmas Parade, Wine Festival, Broccoli Festival, Almond Blossom Run, San Antonio River, and Valley Heritage Day. For more information contact the post recreation center.

## HUNTER LIGGETT'S HISTORY COLORFUL SINCE ITS HEARST DAYS

Copied from the Panorama, issue dated 6 April 1990  
Written by Ted Castle

Fort Hunter Liggett as we know it was created when William Randolph Hearst deeded his hunting preserve to the government, which made up the bulk of the 160,000 acre training site. Before it was Fort Hunter Liggett, it was known as Hunter Liggett Military Reservation.

Legend has it that Hearst's "lady friend" actress Marion Davies was to have the building called the "hacienda", as a home. She is said to have walked in, looked around and said, "I don't like it," spent the night - since there was no other transportation out that day - and left, never to return.

It is also said that the many wild boar in Monterey County originated on the Hearst land when he imported them from Europe for game.

How much of the legend of Hunter Liggett is true is open to question, but there is one certainty - the man for whom it was named was indeed a man of distinction.

Hunter Liggett - his first name was indeed Hunter - was born in Reading, Pa., March 21, 1857. He attended the military academy at West Point, and upon being commissioned in 1897, was posted to the Department of the West - which he would eventually command twice - where he participated in campaigns against the Sioux in Montana.

During the Spanish American War he saw action in Cuba, then went to the Philippines, where he fought in the insurrection as a member of the 31st Infantry and nearly was drowned. He, in fact, played a vital role in preventing his ship from sinking

Liggett's ship, the Immanuense, was separated from its larger sister, the City of Pekin, during a storm. With no radio communications in those days the Immanuense was lost for two days. When the larger ship found them, the Immanuense was half full of water, the soldiers pumping and bailing for dear life. The report said, "Standing in the midst of the gang, giving grim determined directions," was Maj. Hunter Liggett.

His career peak was not connected with either his command of the Department of the West nor his Philippine adventure; that would come in World War I.

When Gen. John J. "Blackjack" Pershing was in command of the American Expeditionary Forces, as the American troops were known in that war, he was so impressed by a report written by Liggett that he appointed him to command the First American Army Corps, consisting of nine divisions, which participated in several campaigns in France and Germany. Pershing appointed Liggett in spite of Liggett's portly figure, which even in those days was not considered to be the cup of a fighting man.

Liggett's grasp of the situation and persuasive manner prevailed, he was not only to command the corps, but he eventually replaced Pershing himself as commander of the First American Army, comprised of 250,000 men.

Holding the rank lieutenant general, he would also command the American Army of Occupation. He was decorated by French, Belgian, Italian, and, of course, the American governments. He returned to his second command of the Western Department, now known as the Ninth Area Command, still headquartered in San Francisco.

In 1921, Liggett and his wife Harriet Lane Liggett retired in San Francisco, where he died in 1935 at the age of 78.

It is a long-standing tradition of the Army to name posts after either its first commander (Fort Leavenworth, for instance), for an early officer of distinction in the area (Fort Ord, for instance), or for a distinguished general native to, or resident of, the local area. Hunter Liggett, having twice commanded the local area and being a resident of San Francisco, was a natural selection for the name of the now Fort Hunter Liggett.

His name was also put on one of the Military Sea Transport Services' ships which carried troops and dependents to Germany in the 50's and 60's. Fortunately, those vessels never required the troops to bail and pump to keep them afloat.



**DEPARTMENT OF THE ARMY**  
HEADQUARTERS FORT HUNTER LIGGETT  
FORT HUNTER LIGGETT, CALIFORNIA 93928-5000



25 April 1995

REPLY TO  
ATTENTION OF

Office of the Commander

LTC Bailey  
The BRAC Commission

Dear Colonel Bailey:

Welcome to Fort Hunter Liggett. While the accommodations at Fort Hunter Liggett are modest, I sincerely hope that they will meet your needs during your stay.

The welcome packet in your room should provide you with most of the information that you need.

If you plan to exercise while you are here, I caution you to not depart the cantonment area on foot by yourself during hours of darkness. This is a remote area and there is quite a bit of wildlife in the area. The post gym is, of course available for your use from 0600 - 0800 and from 1100 - 2100.

I am enclosing the itinerary for Commissioner Steele's visit. Also, for your use, I have enclosed a brief outline of some apparent discrepancies in the COBRA data. Not being an expert on COBRA, some of the printouts didn't seem to reflect accurate data. Finally, an issue has just come up about frequency use at Fort Bliss. I forward the information that was provided to me without comment.

My schedule is clear this week except for preparation for the Commissioner's visit. Please stop by the Post Headquarters to visit upon your arrival.

THOMAS K. MCNERNEY  
Lieutenant Colonel, US Army  
Commanding

## RADIO FREQUENCY AND FORT HUNTER LIGGETT

The radio frequency (RF) spectrum is a limited and critical natural resource, essential to the Department of Defense. The amount of usable spectrum is finite and requires efficiency in management to ensure its availability.

The multitude of electronic emitters within any given area requires compatibility of assigned frequencies. Those frequencies are listed on two separate Tables of Frequency Allocations, the U.S. Government Table and the Federal Communications Commission (FCC) Table.

The government portion of the spectrum is coordinated through the Administrator, National Telecommunications and Information Administration (NITA) who is advised by the Interdepartmental Radio Advisory Committee (IRAC) comprised of representatives from twenty-one government departments and agencies. The FCC is the responsible agent for regulation of the non-government portion of the spectrum, which includes civil users, state and local governments.

The increased demands placed on the RF spectrum by both civil and government interests have already saturated some areas which now require time sharing. In many areas hosting government or manufacturing facilities, there is a great deal of competition with required spectrum use that provides services demanded by society, such as TV, radio, personal communications, etc. This is not a major factor at the TEXCOM Experimentation Center.

Fort Hunter Liggett, California, enjoys a geographical location which provides unique opportunities for the use of emitters in the test and evaluation of equipment, as well as the test and evaluation of newly developed emitters themselves. The physical terrain features surrounding Fort Hunter Liggett limit normal broadcast distances, and in turn, limit intrusion of RF from outside sources. The installation is located adjacent to agricultural and forestry areas, with a sparse, scattered population. The nearest major industrial complex is Salinas, approximately 70 miles away. Located midway between Los Angeles and San Francisco, the facility is serviced by an excellent highway system with a rail head at adjacent Camp Roberts. It is not likely that Fort Hunter Liggett will be exposed to severe population pressure in the foreseeable future.

The remote location and surrounding terrain features are assets which add to the attractiveness of Fort Hunter Liggett to users of the electromagnetic spectrum. It is important that the Department of Defense realize that the availability of the RF spectrum at this installation cannot be duplicated elsewhere. The uniqueness of the geographical features, coupled with current levels of instrumentation, constitute an asset that should be maintained and protected in the future.

## **The Test and Experimentation Command Instrumentation Legacy and the Pitfalls of Relocating.**

### **Background:**

Instrumentation utilized by the Test and Experimentation Command, Experimentation Center (TEC), Fort Hunter Liggett, California, was developed in the 1970's. It has evolved to the Armies most sophisticated hardware and methodologies to test new weapon systems in Combined Arms Battalion level exercises. Through the years the test capabilities have extended well beyond those of "testing to spec". The ability to experiment with various force mixtures, conceptual weapons and emerging tactics has become extremely sophisticated in the Fort Hunter Liggett Virtual Battlefield. These experiments are highly realistic mock battles in which casualties are assessed by a computer using state of the science weapon flyout and damage simulation. These Real Time Casualty Assessments allow examination of weapon systems effectiveness, organization, and tactics in an environment as close to actual combat as possible. The experiments are conducted under day, night, obscured or unobscured conditions with individual weapons, combat vehicles, helicopters, fixed-wing aircraft, crew-served weapons, or infantry direct fire weapons.

### **Instrumentation Functional details:**

The instrumentation at TEC encompasses equipment that performs data gathering, control, reduction, or simulation functions. The data gathering ranges from position location and weapon status updates every 3 seconds on slow moving vehicles to man-computer interface activities updated many times a second for sophisticated systems such as Longbow Apache. The control system allows all position location and engagement activities for up to 250 players to be individually monitored in real time. The reduction capabilities allow for Level I (raw data) to be merged, verified, quality controlled and developed into a Level III data (smoothed, blanks accounted for and time sorted) in time to have emerging results effect conduct of the ongoing test. The simulation includes detailed weapon flyout for end game results and live to virtual replication; using 3 dimensional perspective views for any player in real time. The simulation is at the highest resolution (1 meter) for any range in the country and has been used effectively to assess Longbow masking issues. It has proven accurate enough to be used in post trial accident reporting to indicate which tree a helicopter blade struck.

Key to the instrumentation is the telemetry system which operates at 918 MHz, with a 15 MHz bandwidth. Each player is equipped with a specifically programmed module (current market price \$40K each), which transmits identification, location, and events data to a centralized computer system. The communications are two way, messages are sent to each player to add tactical realism by signalling artillery events and indicating damages to weapon systems. Data collected by the suite is processed by complex computer systems employed to produce plots, graphs, diagrams, charts and diagnoses of player instrumentation hardware and firmware in real-time.

The use of TEC data collection technology at other locations is being programmed with the fielding of MTEC (a suite comprised of the RTCA and supporting instrumentation.) This suite is based on the Longbow Apache FDTE and IOTE proven technologies of GPS, the huge space savings and hardening gained by

converting the central processor to a parallel processing computer and the mobile design of the existing telemetry system.

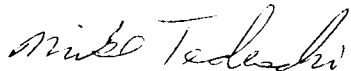
**Pitfalls of relocating TEC:**

There are four severe operational and technical pitfalls which should be considered in the proposals to move TEC to Fort Bliss: FHL land is unmatched in tactical realism and in technical challenge for the weapon systems we see on the material developers drawing boards; the telemetry link used by TEC is in direct conflict with existing high priority use of the same frequencies at Ft Bliss; FHL provides a huge, safe exercise area to use non eye safe laser technologies which provide critical ranging and guidance features to current and emerging weapon platforms; and TEC/FHL has become a DOD canonical site for the development and validation of digitized terrain and environmental models.

The FHL combination of mountains, rolling hills, oak forests and wide open spaces offers DOD's best smorgasbord of technical and operational challenges to the systems of the future. The cooperation of the Forest Service, proven during Longbow Apache, adds a new dimension for Joint and Special Operations extending from the Ocean to the well instrumented target area in FHL proper. An existing digitized corridor stretching from the ocean to the FHL playing area makes massive Joint Operations including Aircraft Carrier activities easily achievable in a Virtual Operational Test Battlefield with a direct bridge to reality. Live players are easy to insert at key functional positions throughout the instrumented range. FHL may not go away, but with a move the stewardship of the land, the intimate knowledge of how and when to use it will pass as will the foot in the door status that being on location affords. Real costs associated with this loss of stewardship can be equated to TDY expenses for the site surveys and terrain walks that are the precursor to all tests. These are estimated to equate to three man weeks per test times six tests and candidate tests per year times \$1K per excursion. The equation includes an efficiency loss of 3/5 of each man week due to the impact on dwindling staff, to perform what, if on site could be accomplished in two days per excursion. Less tangible costs associated with the loss of stewardship are the miss placement of key operational tests. In the last ten years about one test a year ends up at FHL because the TEC stewards of the range have competed aggressively to move the test off less demanding terrain. These tests typically have ranged from ten to 30 million dollars to conduct and the results have dramatically changed Army tactics and weapon system procurement strategies. A simple formula that can be estimated is a 25% degradation in test outcomes due to the misplacement of tests. If applied to the cost of the smaller operational tests this equates to \$2.5 million dollars a year wasted. If the wrong decision, for example Sgt. York, is the outcome of a test that does not challenge the system, real costs can be counted in Billions of dollars.

**Conclusions:**

There are significant cost and benefit losses associated with moving the TEC instrumentation suite and supporting community away from Fort Hunter Liggett and the surrounding area of technical support. Estimates of non - recurring costs associated, just with the instrumentation re-engineering range from \$46,712,290 to \$53,762,290. Recurring trips back and wasted economies result in an annual cost of \$2,562,290. The damages to the new way of doing business, the Virtual Operational Test Battlefield are intangible in cost figures. A restructuring in the Fort Bliss terrain morphology is a non-starter so establishing a corridor to the sea must be re-engineered, with associated operational costs which can not be addressed. The final hidden cost is the potential billion dollar mistake, allowing a Sgt York to be produced, because the Operational Test was accomplished on a compromising terrain.



Mike Tedeschi  
chief, Methodology  
Cost Analyst



Stewardship Cost losses (annual)	
Survey Travel Costs	$3*6*1000 = \$18,000$
Loss of efficiency costs	$3*6*3/5*(80000)/52 = \$16,600$
Potential Misplaced Test Cost	\$2,500,000
Potential Wrong Decision Cost	BILLIONS of dollars
Total	\$2,524,600

Ft Bliss is contiguous to the White Sands Missile Range, New Mexico, a Department of Defense test facility. White Sands operates a tracking and control system throughout its range complex utilizing 915 MHz at a 15 MHz bandwidth. The system is used in full-scale target control (drones) and flight termination, and is considered a "safety" frequency. According to Mr. Stanley Greene, the Department of Defense Area Frequency Coordinator at White Sands, TEC's use of 918 MHz would be on a secondary basis and require scheduling. TEC's recent major experiments (FAADS, Javelin, M1A2, and Longbow consistently show an 18 hour a day requirement for 90 days running; not a secondary requirement.

The abandonment of 918 MHz as a primary frequency and migration into another area of the electromagnetic spectrum poses a development challenge. Current efforts to duplicate TEC Instrumentation by STRICOM has cost the Army in excess of \$100,000,000. If the development is fully successful to current requirements, only a fraction of the TEC FHL capabilities will be achieved. New telemetry development costs would run from \$3,000,000 to \$10,000,000. Existing telemetry equipment costs are @ \$40,000,000 per player. NTC is accessing enough new players to supply spares and keep the current capabilities viable for ten years.

Frequency costs (First year only)	
Hardware Replacement	$250*\$40,000 = \$10,000,000$
Spare Stockpile	$500*\$40,000 = \$20,000,000$
re development costs	\$3,000,000 -10,000,000
Total	\$33,000,000 to \$40,000,000

The requirement for testing systems with hot lasers can only be overcome if a reliable surrogate is developed. The estimate to develop a laser surrogate is \$10,000,000 of development costs and \$5,000 to \$10,000 per player deployment costs. The alternative is to return to FHL every time a laser has to be tested. At any rate, a return must be anticipated every time the surrogate system has to be validated for a new application.

Laser testing costs (* = annual costs)	
Laser surrogate development	\$10,000,000
laser surrogate procurement (10)	\$50,000 to \$100,000
* laser surrogate validation	$2*(4*\$1000+(4*80,000/52)+\$5,000)$ =\$30,306
* return to FHL loss of efficiency	$2*(4*80,000/52)*3/5=\$7,384$
Total	\$10,087,690 to \$10,137,690

The establishment of TEC as a canonical site for terrain representations and model validation has come to pass after years of Technical testing of new sensors by Night Vision developers and Defense Intelligence Agency Scientists. These measured values about real sensors are combined with the TEC/FHL terrain data base; the link to live play; and the technical exchanges and Memorandum of Agreements with TRADOC Analysis Center - Monterey, the Naval Postgraduate School and the Naval Research Lab at Monterey. The technical ties which have been carefully nurtured over the last six years will be severely hampered with the disbanding of the TEC presence in this "Monterey Gang". The Virtual Operational Test Battlefield which has quietly been developed and demonstrated at a conceptual level will lose momentum. Even if the efforts are sustained the validation costs will escalate. As discussed in the land stewardship paragraphs, the ability to produce joint, combined arms exercises using the unique tools developed by TEC will be greatly undermined. A comparative estimate to create the crucial data base element for just Ft Bliss is \$300,000. The critical path for live and simulated forces to attack from an Ocean, for Ft Bliss can only be accomplished by Plate Tectonics, a heretofore impossible to obtain technology.

Virtual Operational Test Battlefield restart costs (first year only)	
Terrain data base	\$300,000
Re-establishment costs (1 man year of travel and dedicated efforts)	\$100,000
Sensor Testing	\$200,000
Corridor to the sea (development)	\$500,000
Total	\$1,100,000

REPLY TO  
ATTENTION OFDEPARTMENT OF THE ARMY  
U.S. ARMY CENTER FOR HEALTH PROMOTION AND PREVENTIVE MEDICINE (PROVISIONAL)  
ABERDEEN PROVING GROUND, MARYLAND 21010-5422

MCHB-DS-L

24 April 1995

MEMORANDUM FOR Commander, U.S. Army Garrison, Fort Hunter  
Liggett, CA 93128

SUBJECT: Force-on-Force Laser Operations

1. At the request of Mr. Peter Berkley at your activity, the following information is provided to support the upcoming Base Realignment and Closure (BRAC) review.

a. Fort Hunter Liggett has provided a unique location for operational testing of modern weapon systems that use laser assisted fire control systems for the past 25 years. This location was chosen by a Joint Command Team in 1976 for the Close Air Support Joint Test. This test was the first force-on-force joint test using combat lasers sponsored by the Operational Test and Evaluation Agency (OTEA).

b. Fire-control lasers are capable of causing blindness at close ranges and they exceed occupational health exposure limits for line-of-sight distances of as great as 25 km. The natural bowl-shape of the force-on-force playing area at Fort Hunter Liggett provides an ideal location for these tests from the standpoint of public safety and occupational health. The bowl-shape of the terrain limits the line-of-sight into the playing area so that civilian populations near the installation and workers at the installation itself are not at risk since they have no direct view of the "playing" area.

c. Moving this operational testing mission to another location would require extreme caution, i.e., the controlled area would have to be large enough to contain the playing area and the 25 km hazard distance or terrain features would have to limit direct viewing by the civilian population near the testing area and the military and civilian workforce at the installation. In this sense, it is a potential public health problem to the civilian population and a potential occupational health risk to workers at an installation if these criteria can not be met.

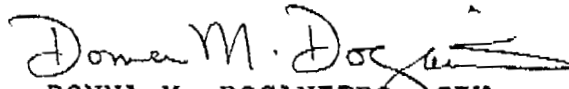
d. Since that first test 25 years ago, the Laser/Optical Radiation Program has been providing consultative support to Fort Hunter Liggett in the area of laser health hazards so that these operational tests may be conducted in a manner that protects the workers performing the tests and the general public. In our experience, this facility is unique in the Army and it provides the type of terrain that lends itself to proper and efficient control of potential laser health hazards.

MCHB-DS-L

SUBJECT: Force-on-Force Laser Operations

2. Our point of contact is Mr. Jim Franks, DSN 584-3932.

FOR THE COMMANDER:

  
DONNA M. DOCANIERO, CIH  
Director, Occupational  
Health Sciences

# Document Separator

09/19/94  
HQRPLANS

ASIP TROOP LIST ORDERED BY MAJOR UNIT  
Fort Hunter Liggett -- 06205  
MAJOR UNIT Y -- TENANTS  
FY 1996

Database  
Ver 4.20

MC	UIC	SRC	CA RS	UNUM	BR	DESCRIPTION	OFF	WOF	ENL	TOTAL MIL	US CIV	OTHER CIV	TOTAL CIV	TOTAL POP
SF	W3Q225		W3Q2			CMD OPER TEST	48	2	326	376	62	0	62	438
XM	W0JE09		W0JE			HQ USATECOM	0	0	0	0	6	0	6	6
							48	2	326	376	68	0	68	444

09/19/94  
HQRPLANS

ASIP TROOP LIST ORDERED BY MAJOR UNIT  
Fort Hunter Liggett -- 06205  
MAJOR UNIT Z -- GARRISON  
FY 1996

Database  
Ver 4.20

MC	UIC	SRC	CA RS	UNUM	BR	DESCRIPTION	OFF	WOF	ENL	TOTAL MIL	US CIV	OTHER CIV	TOTAL CIV	TOTAL POP
FC	W12K22		W12K			GARFT LEWIS	2	0	12	14	136	0	136	150
HS	W4FF31		W4FF			OFCFT IRWIN	0	0	2	2	0	0	0	2
HS	W0Q127		W0Q1			CAL MED DET	1	0	4	5	0	0	0	5
HS	W0Q126		W0Q1			CAL MED DET	1	0	9	10	5	0	5	15
CM	@OMY01					FULLTIME CONTR	0	0	0	0	0	252	252	252
DF	DCSW25					DEFENSE COMSY	0	0	0	0	12	0	12	12
FC	W12K1A		W12K			GARFT LEWIS	1	0	0	1	204	0	204	205
							5	0	27	32	357	252	609	641

09/19/94  
HQRPLANS

ASIP TROOP LIST ORDERED BY MAJOR UNIT  
Fort Hunter Liggett -- 06205  
MAJOR UNIT Y -- TENANTS  
FY 2000

Database  
Ver 4.20

MC	UIC	SRC	CA RS	UNUM	BR	DESCRIPTION	OFF	WOF	ENL	TOTAL MIL	US CIV	OTHER CIV	TOTAL CIV	TOTAL POP
XM	W0JE09		W0JE			HQ USATECOM	0	0	0	0	6	0	6	6
SF	W3Q225		W3Q2			CMD OPER TEST	48	2	326	376	62	0	62	438
							48	2	326	376	68	0	68	444

09/19/94  
HQRPLANS

ASIP TROOP LIST ORDERED BY MAJOR UNIT  
Fort Hunter Liggett -- 06205  
MAJOR UNIT Z -- GARRISON  
FY 2000

Database  
Ver 4.20

MC	UIC	SRC	CA RS	UNUM	BR	DESCRIPTION	OFF	WOF	ENL	TOTAL MIL	US CIV	OTHER CIV	TOTAL CIV	TOTAL POP
FC	W12K22		W12K			GARFT LEWIS	2	0	12	14	136	0	136	150
HS	W4FF31		W4FF			OFCFT IRWIN	0	0	2	2	0	0	0	2
CM	@OMY01					FULLTIME CONTR	0	0	0	0	0	252	252	252
DF	DCSW25					DEFENSE COMSY	0	0	0	0	12	0	12	12
HS	W0Q126		W0Q1			CAL MED DET	1	0	9	10	5	0	5	15
HS	W0Q127		W0Q1			CAL MED DET	1	0	4	5	0	0	0	5
FC	W12K1A		W12K			GARFT LEWIS	1	0	0	1	204	0	204	205
							5	0	27	32	357	252	609	641

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SAMAS as of 16 MAY 94

**ACTIVE ARMY  
ASIP STATION REPORT : FORSCOM**

my Base = **FORT HUNTER-LIGGETT**  
Code = **06398**  
Station = **FT H LIGG, CA (FORT HUNTER-LIGGETT)**

UIC	Rgt/Unbr	Br	Parent Unit	SRC	ACTCO	FY	FY	FY	FY	FY	FY	FY
Asgt TPSN	Derivative Unit		Source	EDATE		1994	1995	1996	1997	1998	1999	2000
DODAAC	Compo		MDEP	CCNUM								

**TYPE UNIT: TDA UNITS**

WOJE09	WOJE	HQ	USATECOM			OFF:	0	0	0	0	0	0	
XM 46032	WOJE MET, FT HUNTER/LIGGETT	1		TAD		WOF:	0	0	0	0	0	0	
				GP3I	X10295	ENL:	0	0	0	0	0	0	0
						USC:	6	6	6	6	6	6	6
WOMY1A	WOMY	GARUSA	FT ORD			OFF:	0						
FC 46551	GARRISON FT H LIGGETT	1		DAR		WOF:	0						
				XTEQ		ENL:	0						
						USC:	65						
WOMY13	WOMY	GARUSA	FT ORD			OFF:	0						
FC 46551	WOMY LEA FHL	1		TAD		WOF:	0						
				XTEQ	FC2094	ENL:	10						
						USC:	2						
WOMY22	WOMY	GARUSA	FT ORD			OFF:	2						
FC 46551	WOMY HHC FT HUNTER LIGGETT	1		TAD		WOF:	0						
				XTEQ	FC2094	ENL:	27						
						USC:	9						
W00126	W001	CAL MED DET				OFF:	1	1	1	1	1	1	
HS 56501	W001 USA HLTH CLN HUNTERLIGGETT	1		TAD		WOF:	0	0	0	0	0	0	
				VCND	HS0295	ENL:	9	9	9	9	9	9	9
						USC:	5	5	5	5	5	5	5
J127	W001	CAL MED DET				OFF:	1	1	1	1	1	1	
HS 56501	W001 USA DEN CLN HUNTERLIGGETT	1		TAD		WOF:	0	0	0	0	0	0	
				VCND	HS0295	ENL:	4	4	4	4	4	4	4
						USC:	5	5	5	5	5	5	5
<del>W12K1A</del>	<del>W12K</del>	<del>GARFT LEWIS</del>				OFF:	<del>1</del>	<del>1</del>	<del>1</del>	<del>1</del>	<del>1</del>	<del>1</del>	
<del>FC 46551</del>	<del>GARRISON FT H LIGGETT</del>	<del>1</del>		<del>DAR</del>		WOF:	<del>0</del>	<del>0</del>	<del>0</del>	<del>0</del>	<del>0</del>	<del>0</del>	
				<del>XTEQ</del>		ENL:	<del>0</del>	<del>0</del>	<del>0</del>	<del>0</del>	<del>0</del>	<del>0</del>	<del>0</del>
						USC:	<del>204</del>	<del>204</del>	<del>204</del>	<del>204</del>	<del>204</del>	<del>204</del>	<del>204</del>
W12K22	W12K	GARFT LEWIS				OFF:	2	2	2	2	2	2	
FC 46551	W12K FT HUNTER LIGGETT	1		TAD		WOF:	0	0	0	0	0	0	
				XTEQ	FC2095	ENL:	12	12	12	12	12	12	12
						USC:	136	136	136	136	136	136	136
W30225	W302	CMD OPER TEST & EVAL				OFF:	48	48	48	48	48	48	
SF 46041	W302 USA OPTCTEXCOM EXPR CTR	1		TAD		WOF:	2	2	2	2	2	2	
				FACS	SF0495	ENL:	326	326	326	326	326	326	326
						USC:	62	62	62	62	62	62	62
W4FF31	W4FF	OFCFT IRWIN				OFF:	0	0	0	0	0	0	
HS 56501	W4FF FT HUNTER LIGGETT VET SVC	1		TAD		WOF:	0	0	0	0	0	0	
				VCND	HS0295	ENL:	2	2	2	2	2	2	2

Do No COUNT P/ FORSCOM RECORDS  
DOUBLE ENTRY  
SEE LTR

TOTAL OFF:	54	53	53	53	53	53	53
TOTAL WOF:	2	2	2	2	2	2	2
TOTAL ENL:	390	353	353	353	353	353	353
TOTAL USC:	285	413	413	413	413	413	413

**TYPE UNIT: OTHER TENANTS**

WOMY01	FULLTIME CONTRACT SPT					OFF:	0	0	0	0	0	0
CM		DAI				WOF:	0	0	0	0	0	0
						ENL:	0	0	0	0	0	0
						USC:	0	0	0	0	0	0
						OTH:	252	252	252	252	252	252

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SAMAS as of 16 MAY 94

**ACTIVE ARMY  
ASIP STATION REPORT : FORSCOM**

Army Base = **FORT HUNTER-LIGGETT**  
 n Code = **06398**  
 Station = **FT H LIGG, CA (FORT HUNTER-LIGGETT)**

UIC	Rgt/Unbr	Br Parent Unit	SRC	ACTCO	FY	FY	FY	FY	FY	FY	FY
Asgt TPSN	Derivative Unit		Source	EDATE	1994	1995	1996	1997	1998	1999	2000
DODAAC	Compo		MDEP	CCNUM							
DCSW25		DEFENSE COMSY AGENCY		OFF:	0	0	0	0	0	0	0
DF	HUNTER-LIGGETT	COMSY	DAI	WOF:	0	0	0	0	0	0	0
				ENL:	0	0	0	0	0	0	0
				USC:	12	12	12	12	12	12	12
<b>OTHER TENANTS</b>					TOTAL OFF:	0	0	0	0	0	0
					TOTAL WOF:	0	0	0	0	0	0
					TOTAL ENL:	0	0	0	0	0	0
					TOTAL USC:	12	12	12	12	12	12
					TOTAL OTH:	252	252	252	252	252	252
<b>INSTALLATION TOTALS</b>					TOTAL OFF:	54	53	53	53	53	53
					TOTAL WOF:	2	2	2	2	2	2
					TOTAL ENL:	390	353	353	353	353	353
					TOTAL MIL:	446	408	408	408	408	408
					TOTAL USC:	297	425	425	425	425	425
					TOTAL OTH:	252	252	252	252	252	252
					TOTAL CIV:	549	677	677	677	677	677
					TOTAL POP:	995	1085	1085	1085	1085	1085

**Supported Population (All Services)**

Active:	362
Dependents of Active:	476
Reserve Component:	46
Dependents of Reserve Component:	14
Retiree:	453
Dependents of Retiree + Survivors:	564
	-----
	1915

Source: FY 1993 DEERS data from the Defense Medical Information System (DMIS)

**Supported Unit Training Population**

SRC	Unit Designation	Auth FY 95 Unit Training Load	FY 95 Unit Count	Auth FY 99 Unit Training Load	FY 99 Unit Count
01385L100	BN ATK HEL AH-1	22.8	1	0.0	0
01447A000	CO G MED HEL	21.0	1	21.0	1
03447L000	CO SMOKE GENR	13.0	1	0.0	0
05035H500	BN CBT CORPS	75.8	1	0.0	0
05079J200	CO ASLT FLTBRG RIB	17.7	1	0.0	0
05145L000	BN HVY DIV RIBBON	77.9	1	0.0	0
05335L000	BN HVY DIV ERI	0.0	0	115.0	3
06365L200	BN 155SP(3X6/1X2)	52.0	1	0.0	0
06365L500	BN 155SP(3X8/1X2)	0.0	0	76.0	1
06375L400	BN 155SP(3X8/1X2)	75.6	1	0.0	0
06445L100	BN 8 IN SP	41.0	1	0.0	0
06457L200	BTYA 155SP (1X8)	0.0	0	12.7	1
07075L000	BN STD	68.8	1	0.0	0
07245L000	BN MECH (M113)	203.6	3	202.5	3
08447L100	CO AIR AMB (UH-1)	11.9	1	11.9	1
08660HORA	DETAIR AMB (UH-1)	5.4	1	0.0	0
11635L000	BN AREA EAC TRI-TAC	52.4	1	52.4	1



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SAMAS as of 16 MAY 94

**ACTIVE ARMY  
ASIP STATION REPORT : FORSCOM**

Army Base = **FORT HUNTER-LIGGETT**  
 n Code = **06398**  
 ation = **FT H LIGG, CA (FORT HUNTER-LIGGETT)**

**Supported Unit Training Population**

SRC	Unit Designation	Auth FY 95	FY 95	Auth FY 99	FY 99
		Unit Training Load	Unit Count	Unit Training Load	Unit Count
17375L000	BN TANK (M60A3)	44.2	1	0.0	0
17375L200	BN TANK (M1)	0.0	0	47.3	1
19477L000	CO CBT SPT	31.7	2	31.7	2
19677L000	CO CBT SPT	47.7	3	47.7	3
63005L300	BN FWDSP/1X2/40ID	39.8	1	39.8	1
<b>Total:</b>		<b>902</b>	<b>23</b>	<b>658</b>	<b>18</b>

SOURCE: Authorized strengths from SAMAS 16 May 1994

$$\text{Computation of Unit Training Load} = \frac{\text{SUM}(\text{srcpop}) \times 2 \text{ weeks}}{20 \text{ weeks}}$$

Criteria: Assumes RC units utilize all 85 possible training sites, including Army, State, and other services to meet annual requirements. Further assumes resident AC units and TRADOC have priority access to training facilities.

**THE ARMY BASING STUDY  
BRAC 95  
COBRA WORKSHEET**

**SCREEN FOUR - BASE INFORMATION (STATIC)**

BASE: Ft Hunter-Liggett

TOTAL OFFICERS:	<u>54</u>	RPMA NON-PAYROLL (\$/YR):	<u>2,169</u>
TOTAL ENLISTED:	<u>200</u>	COMMUNICATN COSTS (\$/YR):	<u>414</u>
TOTAL STUDENTS:	<u>          </u>	BOS NON-PAY ROLL(\$/YR):	<u>4,795</u>
TOTAL CIVILIAN EMPLOYEES:	<u>221</u>	BOS PAYROLL (\$/YR):	<u>3,197</u>
% MIL FAMILIES ON BASE:	<u>6.86</u> %	FAMILY HOUS COSTS (\$/YR):	<u>73</u>
% CIVS NOT WILL TO MOVE:	<u>6</u> %	AREA COST FACTOR:	<u>1.440</u>
OFF HOUSING UNITS VACANT:	<u>0</u>	CHAMPUS IN-PATIENT (\$/VIS):	<u>          </u>
ENL HOUSING UNITS VACANT:	<u>0</u>	CHAMPUS OUT-PATIENT (\$/VIS):	<u>          </u>
TOTAL FACILITIES (KSF):	<u>729,811</u>	CHAMPUS SHIFT TO MEDICARE:	<u>          </u> %
OFFICER VHA (\$/MONTH):	<u>\$362.74</u>	<input type="checkbox"/> HOMEOWNER ASSISTANCE PROGRAM	
ENLISTED VHA (\$/MONTH):	<u>\$271.76</u>	<input type="checkbox"/> UNIQUE ACTIVITY INFORMATION	
PER DIEM RATE (\$/DAY):	<u>\$112</u>		
FREIGHT COST (\$/TON/MI):	<u>.07</u>		

1129,811  
 FAMILY HOUSING - 48,000  
 -----  
 1129,811

ALTERNATIVE #



**THE ARMY BASING STUDY**

**BRAC 95  
ALTERNATIVE  
DOCUMENTATION  
SET**

**ALTERNATIVE NO.**

**MT5-2**

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**SECTION III**

**FACILITIES DATA**

CK

B. 95

STATIONING PROFILE - PERMANENT ASSETS REPORT  
FACILITY CONSTRUCTION REQUIREMENTS

DTG [12] [1430] [20 44]

HK -> Bliss

ALTERNATIVE NO. 14T 57-12

FACILITY CAT. GROUP NO.		BEFORE STATION PERM ASSETS (000)	BEFORE STATION ALLOW (000)	BEFORE STATION PERM ASSETS -ALLOW (000)	STN ALLOW (000)	CONSTRUCT (000)	JUSTIFICATION FOR CHANGE IN STATIONING PROFILE (IF APPROPRIATE)
X+D Ranges	RENOVATE						Fort Bliss contains sufficient unutilized Ranges (Post 3 <sup>rd</sup> ACB) MOVE TO a COMMERCIAL to this requirement.
	NEW			0	01	0	
	RENOVATE						However there is an OPA Bill associated with OPTEC instrumentation or OMA for De-install/re-install.
	NEW						
	RENOVATE						Check OPS - - There was some discussion of Mobile instrumentation for OPTEC by FT 97, of 501
	NEW						
	RENOVATE						NO Bill
	NEW						

It is recommended ADA BDES to Balance to New Bliss fence Structure -  
NO BDE HQ associated with OPTEC (reg. under ADA)  
OPTEC gets 165K per beef  
MAD Admin



**THE ARMY BASING STUDY**

**BRAC 95  
ALTERNATIVE  
DOCUMENTATION  
SET**

**ALTERNATIVE NO.  
MT5-2**

---

**SECTION IV**

**COBRA MODEL INPUT DATA**



## THE ARMY BASING STUDY

# BRAC 95 ALTERNATIVE DOCUMENTATION SET

ALTERNATIVE NO.  
MT5-2

		DATE
STATUS OF ANALYSIS:	RED [ ]	_____
	AMBER [ ]	_____
	GREEN [X]	30Jan95

### DESCRIPTION

Realign Fort Hunter Liggett, Ca.  
Move all Army and tenant organizations to Base X & Fort Bliss, Tx.  
RIF civilians that support garrison.  
Maintain all ranges and training land for RC training.  
There are no RC units assigned on Fort Hunter Liggett, Ca.

**ANALYST:** LTC BRYAN, NATIONAL GUARD ANALYST



THE ARMY BASING STUDY

**BRAC 95  
ALTERNATIVE  
DOCUMENTATION  
SET**

**ALTERNATIVE NO.  
MT5-2**

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**SECTION I**

**SCENARIO DEVELOPMENT**

<b>a. OPTION NUMBER:</b> MT5-2		<b>b. CANDIDATE INSTALLATION:</b> Ft. Hunter Liggett, Ca.		<b>c. DATE:</b> 8 Feb 95	
<b>d. INSTALLATION CATEGORY:</b> Major Training Area					
<b>e. SCENARIO DESCRIPTION / SUMMARY:</b> Realign Ft. Hunter Liggett, Ca. Move all Army and tenant organizations to Base X and Ft. Bliss. RIF civilians in Garrison. There is no RC units on Ft. Hunter Liggett. Maintain all essential ranges and training land for RC training.					
<b>f. INSTALLATIONS IN SCENARIO:</b>					
<b>INSTALLATION NAME</b>		<b>STRATEGY (CLOSE/GAIN/LOSE/DEACTIVATE)</b>		<b>COMPLETION YEAR</b>	
Ft. Hunter Liggett, Ca		Close		1998	
<b>g. MAJOR ACTIVITIES AND/OR ORGANIZATIONS AFFECTED (OR POTENTIALLY AFFECTED):</b>					
<b>UIC/SRC</b>	<b>DESCRIPTION:</b>	<b>PERSONNEL STRENGTH:</b> OFF/WOF/ENL/CIV/NAF/OTHER		<b>STRATEGY:</b> <b>DESTINATION/YEAR</b>	
W12K1A	Garrison	1/0/0/204/0/0		Base X and RIF	
W12K22	Ft Hunter Liggett	2/0/12/136/0/0		Base X	
W3Q225	OPTECTEXCOM	48/2/326/62/0/0		Ft. Bliss	



**h. REMARKS**

**RESERVE COMPONENT IMPACT:**

1. RC units located on the installation? None
2. RC units receive support from the installation? Yes. Ft. Hunter Liggett provides the only large training area on the west coast the RC have readily available to them. Closing would greatly increase travel time for RC units.
3. Requirement for an RC enclave? Yes. Both the Army National Guard and the Army Reserve wish to enclave parts of Ft. Hunter Liggett should it close.
4. Cost associated with the RC enclave? The Program Management Cost is included in COBRA.

**DoD #7, Infrastructure Impact.**

The growth specified by this alternative at Fort Bliss can be accommodated with little or no adverse impact to the existing infrastructure of the surrounding communities.



**THE ARMY BASING STUDY**

**BRAC 95  
ALTERNATIVE  
DOCUMENTATION  
SET**

**ALTERNATIVE NO.  
MT5-2**

---

**SECTION II**

**PERSONNEL & ORGANIZATION**

**DATA**

## **Fort Hunter Liggett, CA**

**1. Recommendation:** Realign Fort Hunter Liggett by relocating the U.S. Army Test and Experimentation Center (TEC) missions and functions to Fort Bliss, Texas. Eliminate the active component mission. Retain minimum essential facilities and training area as an enclave to support the Reserve Components (RC).

**2. Justification:** Fort Hunter Liggett is low in military value compared to other major training area installations and has few Active Component tenants.

Relocation of the Test and Experimentation Center optimizes the unique test capabilities afforded by Fort Bliss and White Sands Missile Range.

Fort Hunter Liggett's maneuver space is key to Reserve Component training requirements. Since it a primary maneuver area for mechanized units in the western United States, retention of its unique training lands is essential.

**3. Return on Investment:** The total one-time cost to implement this recommendation is \$6 million. The net of all costs and savings during the implementation period is a savings of \$12 million. Annual recurring savings after implementation are \$5 million with a return on investment expected in 1 year. The net present value of the costs and savings over 20 years is a savings of \$64 million.

**4. Impacts:** Assuming no economic recovery, this recommendation could result in a maximum potential reduction of 686 jobs (478 direct jobs and 208 indirect jobs) over the 1996-to-2001 period in the Salinas, CA MSA area, which is 0.3 percent of the area's employment. There are no known environmental impediments to realigning this installation.



**MILITARY  
VALUE  
ASSESSMENT**  
 FT. POLK  
 FT. IRWIN  
 FT. DIX  
 FT. A.P. HILL  
 FT. MCCOY  
 FT. GREELY  
 FT. HUNTER LIGGETT  
 FT. PICKETT  
 FT. INDIANTOWN GAP  
 FT. CHAFFEE

**FORT HUNTER  
LIGGETT, CA**

CLOSEHOLD / SENSITIVE



FT BLISS

TEC

FT HUNTER LIGGETT

GARRISON

**REALIGN FT HUNTER LIGGETT**

- Move Texcom to Ft Bliss (only active mission)
- Retain minimum essential facilities and training areas for RC enclave

**COSTS (\$M)**

O&M	\$ 6
MILCON	\$ 0
OTHER	\$ 0
<b>TOTAL</b>	<b>\$ 6</b>

---

**PAYBACK PERIOD (YEARS) 1**

**BREAK EVEN YEAR 1999**

**STEADY STATE (\$M) \$ 5 (1999)**

**20 YEAR NPV (\$M) \$ 64**

CLOSEHOLD / SENSITIVE

THE ARMY BASING STUDY



# IMPACT SUMMARY FT. HUNTER LIGGETT, CA

**OPERATIONAL:**

- Army Reserve installation
- Supports 15+ RC BNS training.
- Closing will cause 12+ BNS to travel over 300 miles to train

**PERSONNEL:**

	MILITARY	CIVILIAN
REDUCTIONS	17	5
REALIGNMENTS	376	80

**ENVIRONMENTAL:** No known impediments

**ECONOMIC:** Assuming no economic recovery, this recommendation could result in a maximum potential reduction of 686 jobs(478 direct jobs and 208 indirect jobs) over the 1996 to 2001 period in Salinas, CA MSA, which is 0.3% of the area's employment.

**OTHER SERVICE/DOD FACTORS:** None

**ALTERNATIVES CONSIDERED:** None

**DEPARTMENT OF DEFENSE  
ARMY BASE STRUCTURE  
United States  
September 30, 1993**

Installation Name	City	Budget Activity Code	Category Code	Military	Civilian	Other	Total	Total Acreage	BRAC Round	Major Unit-Activity Function
<b>ALABAMA</b>										
ANNISTON ARMY DEPOT	ANNISTON	4.02	2	13	3,473	35	3,521	15,279		LOGISTICS DEPOT ✓ 50%
CLELLAN, FORT	ANNISTON	3.02	1	5,694	1,214	1,080	7,988	45,679		MIL POLICE SCHOOL & TNG CTR
CKER, FORT	DALEVILLE	3.02	1	5,448	2,884	4,589	12,901	63,390		AVIATION CENTER & SCHOOL ✓ 50%
DSTONE ARSENAL	HUNTSVILLE	4.02	1	2,516	12,519	7,888	22,923	38,235	91 R	ROCKET & GUIDED MSL, R&D, SCH & CTR ✓ 40%
<b>ALASKA</b>										
HARDSON, FORT	ANCHORAGE	1.05	2	2,575	1,061	349	3,984	71,546		172ND INFANTRY BRIGADE
EELY, FORT	DELTA JUNCTION	4.02	3	411	241	107	759	681,299		R&D TEST CENTER (ARTIC TNG CTR)
INWRIGHT, FORT	FAIRBANKS	1.05	1	4,014	1,016	524	5,554	946,572		172ND INFANTRY BRIGADE ✓ 50%
<b>ARIZONA</b>										
ACHUCA, FORT	SIERRA VISTA	3.02	1	7,403	3,286	3,484	14,183	102,910	88 R	COMM CMD & INTELLIGENCE SCH ✓ 40%
MA PROVING GROUND	YUMA	4.02	2	294	847	700	1,841	1,009,378		R&D TEST CENTER ✓ 50%
<b>KANSAS</b>										
IAFFEE, FORT	FORT SMITH	1.06	3	103	273	24	400	71,772	91 R	RC & ACTIVE ARMY TNG ✓ 80%
NE BLUFF ARSENAL	PINE BLUFF	4.02	2	89	1,107	265	1,461	14,943		SM AVIATION/RC SUPPORT
<b>CALIFORNIA</b>										
WIN, FORT	BARSTOW	1.06	1	4,545	1,200	1,888	7,633	636,181		NATIONAL TRAINING CENTER ✓ 50%
ERRA ARMY DEPOT	HERLONG	4.02	2	393	697	38	1,128	96,430		LOGISTICS DEPOT ✓ 40%
JNTER LIGGETT, FORT	JOLON	1.06	2	432	447	252	1,131	164,762		DIV/NG TNG-CDEC
ONTEREY, PRESIDIO OF	MONTEREY	3.02	1	3,484	1,595	2	5,081	393		DEFENSE LANGUAGE SCHOOL ✓ 80%
AKLAND ARMY BASE	OAKLAND	2.02	2	248	646	1,111	1,905	422		HARBOR & PORT
VERBANK ARMY AMMUNITION PLT	RIVERBANK	4.02	3	0	4	80	84	172		PRODUCTION-PROJECTILES(C)
ACRAMENTO ARMY DEPOT	SACRAMENTO	4.02	2	51	507	974	1,532	485	91 C	LOGISTICS DEPOT
RD, FORT	SEASIDE	1.05	3	141	120	0	261	28,052	91 C	7TH INFANTRY DIVISION (MECH)(-)
CAMP PARKS		1.06	3	6	22	0	28	2,307		RESERVE COMPONENT TRAINING

SCREEN FOUR DATA-FORSCOM	factors	BRAGG	CAMPBEL	CARSON	DRUM	HOOD	LEWIS	RILEY	STEWART
Housing Cost per DU		5189	5037	4231	8114	5272	5016	5690	3888
Fam Hous on Post (7110F)		4842	4152	1836	4272	5556	3504	3136	2927
FY 93 \$ AFH		25125.14	20913.62	7768.116	34663.01	29291.23	17576.06	17843.84	11380.18
FY 96 \$AFH		26961.79	22442.41	8335.965	37196.87	31432.42	18860.87	19148.22	12212.07
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	386
Audio Visual Direct		1071	760	1143	514	1606	444	722	588
Audio Visual Reimb		266	2	0	0	0	4	0	7
Base Commo Direct		4811	2851	3118	1301	1899	2902	1479	1481
Base Commo 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
FY93 DoD RPMD (9730131)		7488	9845	10240	2279	10789	6777	8419	4473
TOTAL FY 93\$		184463	112483	91927.3	109764.6	142128.3	139296.4	93307	96659.2
FY 95 \$ (* 1.0731)	1.073	197947.2	120705.5	98647.19	117788.4	152517.9	149479	100127.7	103725
TOTAL RPMA		37109	30662	23692.2	22256.6	31131.4	30209.9	25352	24248.1
TOTAL BASOPS		152686.2	86461.51	71627.39	94048.79	119049.3	115570.1	72905.74	77329.09
BASOPS PAYROLL (40% OF TOTAL) - NOTE	0.4	61074.5	34584.6	28650.95	37619.52	47619.71	46228.03	29162.3	30931.64
BASOPS NON PAY (60% OF TOTAL) - NOTE	0.6	91611.75	51876.9	42976.43	56429.28	71429.57	69342.04	43743.45	46397.45
COMMO		8747.911	3843.844	3570.848	1591.407	2508.049	3969.397	2006.697	2304.804
RPMA NON PAY (66% OF TOTAL) - NOTE 1	0.66	24491.94	20236.92	15636.85	14689.36	20546.72	19938.53	16732.32	16003.75
TOTAL		185926.1	110542.3	90835.09	110329.6	142104.1	139478	91644.76	95637.64
BASOPS ADJUSTMENT		BRAGG	CAMPBEL	CARSON	DRUM	HOOD	LEWIS	RILEY	STEWART
POPULATION ADJUSTMENT FACTOR		1.059264	1.036561	1.068272	0.971853	1.061685	1.106549	0.966426	0.988026
FY 93 TOTAL POP		49237	26941	20726	13074	47824	19728	18169	19542
FY 96 TOTAL POP		52155	27926	22141	12706	50774	21830	17559	19308
RPMA NON -PAY(COBRA)		24491.94	20236.92	15636.85	14689.36	20546.72	19938.53	16732.32	16003.75
BASOPS PAYROLL (COBRA)		64694.04	35849.06	30607	36560.62	50557.11	51153.58	28183.21	30561.25
BASOPS NON PAYROLL (COBRA)		97041.06	53773.6	45910.51	54840.93	75835.67	76730.37	42274.82	45841.88
COMMO (COBRA)		9266.351	3984.38	3814.636	1546.613	2662.757	4392.332	1939.325	2277.206
NOTE 1 - PAY /NONPAY BREAKOUT FROM BASOPS PRIMER									
INFLATION FACTOR FY93 TO FY96=	1.0731								



REPLY TO ATTENTION OF

DEPARTMENT OF THE ARMY  
HEADQUARTERS, UNITED STATES ARMY FORCES COMMAND  
FORT MCPHERSON, GEORGIA 30330-6000



AFPI-BC (5-10c)

28 OCT 1994

MEMORANDUM FOR DEPARTMENT OF THE ARMY, DIRECTOR FOR MANAGEMENT  
ATTN: DACS-TABS, WASHINGTON, DC 20310-0200

SUBJECT: Fort Hunter Liggett Army Stationing and Installation Program (ASIP)

1. The ASIP data on Fort Hunter Liggett contains two garrison entries. We have researched these two entries and determined the one for UIC W12K1A should not be included. The only correct entry for the garrison operation is the 136 authorizations shown for UIC W12K22.
2. Corrective action is being initiated to ensure it is accurate for the next ASIP edition.
3. For additional information contact Neta Adams, DSN 367- 6315.

FOR THE DCS FOR PERSONNEL AND INSTALLATION MANAGEMENT:

*Joseph H. Plunkett*  
 JOSEPH H. PLUNKETT  
 Chief, Base Realignment and  
 and Closure Division, DCSPIM

*WT*  
 ↓  
 W12K1A + W12K22

0	1	+	2	=	3
0	0	+	0	=	0
0	0	+	12	=	12
0	204	+	136	=	340
			136		

OPTIONAL FORM 99 (7-90)

FAX TRANSMITTAL

# of pages = 1

To	<i>LTC Bryan</i>	From	<i>Neta Adams</i>
Dept/Agency		Phone #	<i>DSN 367-6315</i>
Fax #	<i>223-9322</i>	Fax	<i>367-7040</i>



WTS-1



STAY

BASE X

Ft. Hood

RIF

C-6v

W05E09  
W06126

O-1  
E-9  
C-5

W16101

O-1  
E-4

W17K22

O-2  
E-12  
C-136

W30225

O-50  
E-326  
C-62

W4FF31

E-2

DCSW25

C-12

BASEX = DENTAL AND VET  
 FIRE = MEDICAL = CLINICS.

Not  
 NOT DCS MED  
 MFC TO BASEX.  
 ALL MED PERSONNEL  
 D TO ALL  
 A RUNS AS  
 UN ON IGNOVA

MEDICAL / DENTAL ASSETS.

Ft. A.P. Hill

<u>MEDICAL</u>	<u>VET</u>	<u>DENTAL</u>
0/0/5/1 (W2LF05)	NONE	NONE
1/0/1/0 (W2LF1A)		
<u>1/0/6/1 TOTAL</u>		

Ft. Chaffee

<u>MEDICAL</u>	<u>VET</u>	<u>DENTAL</u>
0/0/1/1 (W2NV10)	0/0/1/0 (W2NV1A)	NONE
<u>0/0/2/1 TOTAL</u>		

Ft. Dix

<u>MEDICAL</u>	<u>VET</u>	<u>DENTAL</u>
0/0/3/0 (W1U531)	1/0/1/1 (W1U526) 0/0/2/1 (W1U528)	NONE
<u>1/0/6/2 TOTAL</u>		

HUNTER LIGGETT

<u>MEDICAL</u>	<u>VET</u>	<u>DENTAL</u>
1/0/9/5 (W0Q126)	NONE	1/0/4/0 (W0Q127)
<u>2/0/13/5 TOTAL</u>		

INDIANTOWN CAMP

<u>MEDICAL</u>	<u>VET</u>	<u>DENTAL</u>
0/0/1/0 (W2K229)	0/0/1/0 (W2K229)	NONE

0/0/2/1 TOTAL

Ft. Dix

MEDICAL  
0/0/3/0 (W14531)

VET  
1/0/1/1 (W14526)  
0/0/2/1 (W14528)

DENTAL  
NONE

1/0/6/2 TOTAL

HUNTER LIGGETT

MEDICAL  
1/0/9/5 (W09126)

VET  
NONE

DENTAL  
1/0/4/0 (W09127)

2/0/13/5 TOTAL

INDIANTOWN GAP

MEDICAL  
0/0/3/5 (W24219)

VET  
0/0/4/0 (W24229)

DENTAL  
NONE

0/0/4/5 TOTAL

McCoy

MEDICAL  
0/0/2/3 (W14432)

VET  
0/0/2/0 (W14439)

DENTAL  
1/0/1/1 (W14448)

1/0/5/4 TOTAL

Pickett

0/0/7/3 TOTAL

MEDICAL  
0/0/3/0 (W2441A)  
0/0/4/3 (W2441B)

VET  
NONE

DENTAL  
NONE



DEPARTMENT OF THE ARMY  
OFFICE OF THE CHIEF OF STAFF  
WASHINGTON, DC 20310-0200

Clinic - general

Hospital -

≤ 50 beds estimate 163 cases

transfer other to base

> 50 beds estimate 394 cases

transfer other to base

Med Centers

estimate 713 cases

transfer other to base

Fitzsimons - Med Center

McClellan 48 beds

Lee 49 beds

## Text item 2: Planning Guidance

LTC Powell,

Provided below is generic policy guidance with regard to Army medical treatment facilities located on installations identified for closure by BRAC. Note: The numbers below reflect full time equivalents (FTEs). When the time comes to make actual determinations on the break between military and civilian manpower, the US Army Medical Command (USAMEDCOM) will make that decision based on the projected command-wide composition of the direct patient care workforce, make-buy decisions, CHAMPUS management concerns, civilian hiring constraints, local economic factors, etc.

For medical treatment facilities located on installations identified by BRAC for closure, FTEs tied to the fixed costs associated with operating the facility could be eliminated. These FTEs vary based on the size of the facility. For installations with small medical activities (MEDDACs) (50 beds or less), these fixed costs total about 163 FTEs. For large MEDDACs (greater than 51 beds), these fixed costs total about 344 FTEs. For Medical Centers with tertiary care capability and graduate medical education programs, these fixed costs total about 713 FTEs.

Residual medical spaces not tied to fixed costs are associated with the variable costs of supporting the beneficiary population. Since there may be soldiers and their families on the closing installation migrating to other locations, USAMEDCOM must retain these assets for redistribution to offset any migration, plus any increase in CHAMPUS caused by the closure of the installation facility.

Maurice Yaglom  
DASC-HCN  
756-0293



FACSIMILE TRANSMITTAL HEADER SHEET  
DEPARTMENT OF THE  
ARMY  
OFFICE OF THE SURGEON  
GENERAL

TO: \_\_\_\_\_  
LTC. POWELL  
\_\_\_\_\_  
\_\_\_\_\_  
FAX #: 697-9322  
TELEPHONE: 697-0777

FROM:  
MR. MAURICE YAGLOM  
DASG-HCM  
TELEPHONE:  
(703)756-0293 FAX: (703)756-7821, 0247  
DSN: 289-0293 FAX: DSN 289-7821, 0247

Classification: UNCLASSIFIED Number of Pages: 3  
(Includes header page)  
Date: \_\_\_\_\_ Time: \_\_\_\_\_

LTC POWELL -  
GENERIC INPUT FOR  
POLICY GUIDANCE WITH REGARD  
TO ARMY MEDICAL FACILITIES  
LOCATED ON INSTALLATIONS  
IDENTIFIED FOR MR. -

INPUT DATA REPORT (COBRA v5.08)  
 Data As Of 17:44 09/27/1994, Report Created 08:40 02/22/1995

Department : ARMY  
 Option Package : MT5-2  
 Scenario File : C:\COBRA\MT5-2.CBR  
 Std Fctrs File : C:\COBRA\SP7DEC.SFF

INPUT SCREEN ONE - GENERAL SCENARIO INFORMATION

Model Year One : FY 1996

Model does Time-Phasing of Construction/Shutdown: Yes

Base Name	Strategy:
-----	-----
BASE X, US	Realignment
FT HUNTER LIGGETT, CA	Realignment
FT BLISS, TX	Realignment

Summary:  
 -----

Realign Ft. Hunter Liggett, Ca.  
 Move all Army and tenant organizations to Base X and Ft. Bliss.

Maintain all essential ranges and training land for RC training.  
 THERE IS NO NG OR AR UNITS ON FT HUNTER LIGGETT, CA.  
 Removed W12K1A from total Garrison numbers per FORSCOM recommendation.

(See final page for Explanatory Notes)

INPUT SCREEN TWO - DISTANCE TABLE

From Base:	To Base:	Distance:
-----	-----	-----
BASE X, US	FT HUNTER LIGGETT, CA	1,340 mi
BASE X, US	FT BLISS, TX	1,340 mi
FT HUNTER LIGGETT, CA	FT BLISS, TX	1,633 mi

INPUT SCREEN THREE - MOVEMENT TABLE

Transfers from FT HUNTER LIGGETT, CA 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:	0	0	18	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

Transfers from FT HUNTER LIGGETT, CA to FT BLISS, TX

	1996	1997	1998	1999	2000	2001
	----	----	----	----	----	----
Officer Positions:	0	0	50	0	0	0
Enlisted Positions:	0	0	326	0	0	0
Civilian Positions:	0	0	62	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

Department : ARMY  
 Option Package : MT5-2  
 Scenario File : C:\COBRA\MT5-2.CBR  
 Std Pctrs File : C:\COBRA\SF7DEC.SFF

INPUT SCREEN FOUR - STATIC BASE INFORMATION

Name: BASE X, US

Total Officer Employees:	752	RPMA Non-Payroll (\$K/Year):	11,891
Total Enlisted Employees:	4,208	Communications (\$K/Year):	1,514
Total Student Employees:	1,121	BOS Non-Payroll (\$K/Year):	29,982
Total Civilian Employees:	2,709	BOS Payroll (\$K/Year):	21,877
Mil Families Living On Base:	55.0%	Family Housing (\$K/Year):	8,151
Civilians Not Willing To Move:	6.0%	Area Cost Factor:	1.09
Officer Housing Units Avail:	0	CHAMPUS In-Pat (\$/Visit):	0
Enlisted Housing Units Avail:	0	CHAMPUS Out-Pat (\$/Visit):	0
Total Base Facilities(KSF):	6,091	CHAMPUS Shift to Medicare:	0.0%
Officer VHA (\$/Month):	178	Activity Code:	BASEX
Enlisted VHA (\$/Month):	132		
Per Diem Rate (\$/Day):	101	Homeowner Assistance Program:	No
Freight Cost (\$/Ton/Mile):	0.07	Unique Activity Information:	No

Name: FT HUNTER LIGGETT, CA

Total Officer Employees:	54	RPMA Non-Payroll (\$K/Year):	2,169
Total Enlisted Employees:	353	Communications (\$K/Year):	414
Total Student Employees:	0	BOS Non-Payroll (\$K/Year):	4,795
Total Civilian Employees:	221	BOS Payroll (\$K/Year):	3,197
Mil Families Living On Base:	6.9%	Family Housing (\$K/Year):	73
Civilians Not Willing To Move:	6.0%	Area Cost Factor:	1.44
Officer Housing Units Avail:	0	CHAMPUS In-Pat (\$/Visit):	0
Enlisted Housing Units Avail:	0	CHAMPUS Out-Pat (\$/Visit):	0
Total Base Facilities(KSF):	730	CHAMPUS Shift to Medicare:	0.0%
Officer VHA (\$/Month):	363	Activity Code:	6205
Enlisted VHA (\$/Month):	272		
Per Diem Rate (\$/Day):	112	Homeowner Assistance Program:	No
Freight Cost (\$/Ton/Mile):	0.07	Unique Activity Information:	No

Name: FT BLISS, TX

Total Officer Employees:	1,679	RPMA Non-Payroll (\$K/Year):	25,043
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



Department : ARMY  
 Option Package : MT5-2  
 Scenario File : C:\COBRA\MT5-2.CBR  
 Std Fctrs File : C:\COBRA\SF7DEC.SPF

INPUT SCREEN FIVE - DYNAMIC BASE INFORMATION

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%

Name: FT HUNTER LIGGETT, CA

	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):	730					
Perc Family Housing ShutDown:						100.0%

Name: FT BLISS, TX

	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 : MT5-2  
 Scenario File : C:\COBRA\MT5-2.CBR  
 Std Fctrs File : C:\COBRA\SF7DEC.SPF

INPUT SCREEN SIX - BASE PERSONNEL INFORMATION

Name: FT HUNTER LIGGETT, CA

	1996	1997	1998	1999	2000	2001
	----	----	----	----	----	----
Off Force Struc Change:	0	0	0	0	0	0
Enl Force Struc Change:	0	0	0	0	0	0
Civ Force Struc Change:	0	0	0	0	0	0
Stu Force Struc Change:	0	0	0	0	0	0
Off Scenario Change:	0	0	-2	0	0	0
Enl Scenario Change:	0	0	-15	0	0	0
Civ Scenario Change:	0	0	-5	0	0	0
Off Change(No Sal Save):	0	0	0	0	0	0
Enl Change(No Sal Save):	0	0	0	0	0	0
Civ Change(No Sal Save):	0	0	0	0	0	0
Caretakers - Military:	0	0	0	0	0	0
Caretakers - Civilian:	0	0	0	0	0	0

STANDARD FACTORS SCREEN ONE - PERSONNEL

Percent Officers Married:	77.00%	Civ Early Retire Pay Factor:	9.00%
Percent Enlisted Married:	58.50%	Priority Placement Service:	60.00%
Enlisted Housing MilCon:	91.00%	PPS Actions Involving PCS:	50.00%
Officer Salary(\$/Year):	67,948.00	Civilian PCS Costs (\$):	28,800.00
Off BAQ with Dependents(\$):	7,717.00	Civilian New Hire Cost(\$):	1,109.00
Enlisted Salary(\$/Year):	30,860.00	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(\$):	11,191.00
Civilian Turnover Rate:	15.00%	Civilian Homeowning Rate:	64.00%
Civilian Early Retire Rate:	10.00%	HAP Home Value Reimburse Rate:	22.90%
Civilian Regular Retire Rate:	5.00%	HAP Homeowner Receiving Rate:	5.00%
Civilian RIF Pay Factor:	39.00%	RSE Home Value Reimburse Rate:	19.00%
SF File Desc:	SF7DEC.SPF	RSE Homeowner Receiving Rate:	12.00%

STANDARD FACTORS SCREEN TWO - FACILITIES

RPMA Building SF Cost Index:	0.93	Rehab vs. New MilCon Cost:	59.00%
BOS Index (RPMA vs population):	0.54	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(\$/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):	0.09
HHG Per Enl Family (Lb):	9,000.00	Heavy/Spec Vehicle(\$/Mile):	0.09
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):	2.90
Total HHG Cost (\$/100Lb):	35.00	Routine PCS(\$/Pers/Tour):	4,665.00
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

Department : ARMY  
 Option Package : MT5-2  
 Scenario File : C:\COBRA\MT5-2.CBR  
 Std Fctrs File : C:\COBRA\SF7DEC.SFF

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 FITNBSS FAC	(SF)	128
School Buildings	(SF)	104	2+2 BACHQ	(EA)	19,140
Maintenance Shops	(SF)	108	Optional Category G	( )	0
Bachelor Quarters	(EA)	46,227	Optional Category H	( )	0
Family Quarters	(EA)	96,040	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			

EXPLANATORY NOTES (INPUT SCREEN NINE)

Used Monterey, Ca. for the Per Diem Rate and Housing Rate for Ft. Hunter

Liggett, Ca.



THE ARMY BASING STUDY

**BRAC 95  
ALTERNATIVE  
DOCUMENTATION  
SET**

**ALTERNATIVE NO.  
MT5-2**

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**SECTION V**

**COBRA MODEL OUTPUT**

Department : ARMY  
 Option Package : MT5-2  
 Scenario File : C:\COBRA\MT5-2.CBR  
 Std Fctrs File : C:\COBRA\SF7DEC.SPF

Starting Year : 1996  
 Final Year : 1998  
 ROI Year : 1999 (1 Year)

NPV in 2015(\$K): -64,367  
 1-Time Cost(\$K): 6,486

	Net Costs (\$K) Constant Dollars		1998	1999	2000	2001	Total	Beyond
	1996	1997						
MilCon	0	0	0	0	0	0	0	0
Person	0	0	-712	-1,379	-1,379	-1,379	-4,848	-1,379
Overhd	608	456	1,034	-4,101	-4,101	-4,101	-10,205	-4,101
Moving	0	0	3,104	0	0	0	3,104	0
Missio	0	0	0	0	0	0	0	0
Other	0	0	205	0	0	0	205	0
<b>TOTAL</b>	<b>608</b>	<b>456</b>	<b>3,631</b>	<b>-5,480</b>	<b>-5,480</b>	<b>-5,480</b>	<b>-11,745</b>	<b>-5,480</b>

	1996	1997	1998	1999	2000	2001	Total
<b>POSITIONS ELIMINATED</b>							
Off	0	0	2	0	0	0	2
Enl	0	0	15	0	0	0	15
Civ	0	0	5	0	0	0	5
<b>TOT</b>	<b>0</b>	<b>0</b>	<b>22</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>22</b>
<b>POSITIONS REALIGNED</b>							
Off	0	0	50	0	0	0	50
Enl	0	0	326	0	0	0	326
Stu	0	0	0	0	0	0	0
Civ	0	0	80	0	0	0	80
<b>TOT</b>	<b>0</b>	<b>0</b>	<b>456</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>456</b>

Summary:

-----  
 Realign Ft. Hunter Liggett, Ca.  
 Move all Army and tenant organizations to Base X and Ft. Bliss.  
 RIF civilians that support Garrison.  
 Maintain all essential ranges and training land for RC training.  
 THERE IS NO NG OR AR UNITS ON FT HUNTER LIGGETT, CA.  
 Removed W12K!A from total Garrison numbers per FORSCOM recommendation.

Department : ARMY  
 Option Package : MT5-2  
 Scenario File : C:\COBRA\MT5-2.CBR  
 Std Fctrs File : C:\COBRA\SF7DEC.SPF

Costs (\$K) Constant Dollars								
	1996	1997	1998	1999	2000	2001	Total	Beyond
	----	----	----	----	----	----	----	-----
MilCon	0	0	0	0	0	0	0	0
Person	0	0	1,709	1,456	1,456	1,456	6,079	1,456
Overhd	608	456	2,200	946	946	946	6,102	946
Moving	0	0	3,709	0	0	0	3,709	0
Missio	0	0	0	0	0	0	0	0
Other	0	0	205	0	0	0	205	0
<b>TOTAL</b>	<b>608</b>	<b>456</b>	<b>7,823</b>	<b>2,402</b>	<b>2,402</b>	<b>2,402</b>	<b>16,094</b>	<b>2,402</b>

Savings (\$K) Constant Dollars								
	1996	1997	1998	1999	2000	2001	Total	Beyond
	----	----	----	----	----	----	----	-----
MilCon	0	0	0	0	0	0	0	0
Person	0	0	2,421	2,835	2,835	2,835	10,927	2,835
Overhd	0	0	1,166	5,047	5,047	5,047	16,307	5,047
Moving	0	0	605	0	0	0	605	0
Missio	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0
<b>TOTAL</b>	<b>0</b>	<b>0</b>	<b>4,192</b>	<b>7,882</b>	<b>7,882</b>	<b>7,882</b>	<b>27,839</b>	<b>7,882</b>

NET PRESENT VALUES REPORT (COBRA v5.08)  
 Data As Of 17:44 09/27/1994, Report Created 10:00 02/15/1995

Department : ARMY  
 Option Package : MT5-2  
 Scenario File : C:\COBRA\MT5-2.CBR  
 Std Fctrs File : C:\COBRA\SF7DEC.SPF

Year	Cost(\$)	Adjusted Cost(\$)	NPV(\$)
----	-----	-----	-----
1996	608,308	600,113	600,113
1997	456,231	438,038	1,038,151
1998	3,631,024	3,392,928	4,431,079
1999	-5,480,116	-4,983,717	-552,638
2000	-5,480,116	-4,850,332	-5,402,970
2001	-5,480,116	-4,720,518	-10,123,489
2002	-5,480,116	-4,594,178	-14,717,667
2003	-5,480,116	-4,471,220	-19,188,887
2004	-5,480,116	-4,351,552	-23,540,439
2005	-5,480,116	-4,235,087	-27,775,527
2006	-5,480,116	-4,121,739	-31,897,266
2007	-5,480,116	-4,011,425	-35,908,691
2008	-5,480,116	-3,904,063	-39,812,755
2009	-5,480,116	-3,799,575	-43,612,330
2010	-5,480,116	-3,697,883	-47,310,213
2011	-5,480,116	-3,598,913	-50,909,127
2012	-5,480,116	-3,502,592	-54,411,719
2013	-5,480,116	-3,408,849	-57,820,567
2014	-5,480,116	-3,317,614	-61,138,182
2015	-5,480,116	-3,228,822	-64,367,003

Department : ARMY  
 Option Package : MT5-2  
 Scenario File : C:\COBRA\MT5-2.CBR  
 Std Fctrs File : C:\COBRA\SF7DEC.SPF

(All values in Dollars)

Category	Cost	Sub-Total
-----	----	-----
<b>Construction</b>		
Military Construction	0	
Family Housing Construction	0	
Information Management Account	0	
Land Purchases	0	
Total - Construction		0
<b>Personnel</b>		
Civilian RIF	89,696	
Civilian Early Retirement	37,258	
Civilian New Hires	32,161	
Eliminated Military PCS	77,983	
Unemployment	15,660	
Total - Personnel		252,758
<b>Overhead</b>		
Program Planning Support	1,406,713	
Mothball / Shutdown	912,500	
Total - Overhead		2,319,213
<b>Moving</b>		
Civilian Moving	1,682,500	
Civilian PPS	57,600	
Military Moving	1,845,507	
Freight	123,357	
One-Time Moving Costs	0	
Total - Moving		3,708,965
<b>Other</b>		
HAP / RSE	204,682	
Environmental Mitigation Costs	0	
One-Time Unique Costs	0	
Total - Other		204,682
<b>Total One-Time Costs</b>		<b>6,485,619</b>
<b>One-Time Savings</b>		
Military Construction Cost Avoidances	0	
Family Housing Cost Avoidances	0	
Military Moving	604,841	
Land Sales	0	
One-Time Moving Savings	0	
Environmental Mitigation Savings	0	
One-Time Unique Savings	0	
<b>Total One-Time Savings</b>		<b>604,841</b>
<b>Total Net One-Time Costs</b>		<b>5,880,777</b>

6,200,956



Department : ARMY  
 Option Package : MT5-2  
 Scenario File : C:\COBRA\MT5-2.CBR  
 Std Pctrs File : C:\COBRA\SP7DEC.SPF

Base: BASE X, US  
 (All values in Dollars)

Category	Cost	Sub-Total
-----	----	-----
Construction		
Military Construction	0	
Family Housing Construction	0	
Information Management Account	0	
Land Purchases	0	
Total - Construction		0
Personnel		
Civilian RIF	0	
Civilian Early Retirement	0	
Civilian New Hires	7,763	
Eliminated Military PCS	0	
Unemployment	0	
Total - Personnel		7,763
Overhead		
Program Planning Support	0	
Mothball / Shutdown	0	
Total - Overhead		0
Moving		
Civilian Moving	0	
Civilian PPS	0	
Military Moving	0	
Freight	0	
One-Time Moving Costs	0	
Total - Moving		0
Other		
HAP / RSE	0	
Environmental Mitigation Costs	0	
One-Time Unique Costs	0	
Total - Other		0
-----		
Total One-Time Costs		7,763
-----		
One-Time Savings		
Military Construction Cost Avoidances	0	
Family Housing Cost Avoidances	0	
Military Moving	0	
Land Sales	0	
One-Time Moving Savings	0	
Environmental Mitigation Savings	0	
One-Time Unique Savings	0	
-----		
Total One-Time Savings		0
-----		
Total Net One-Time Costs		7,763

Department : ARMY  
 Option Package : MT5-2  
 Scenario File : C:\COBRA\MT5-2.CBR  
 Std Pctrs File : C:\COBRA\SF7DEC.SPF

Base: FT HUNTER LIGGETT, CA  
 (All values in Dollars)

Category	Cost	Sub-Total
-----	----	-----
<b>Construction</b>		
Military Construction	0	
Family Housing Construction	0	
Information Management Account	0	
Land Purchases	0	
<b>Total - Construction</b>		<b>0</b>
<b>Personnel</b>		
Civilian RIF	89,696	
Civilian Early Retirement	37,258	
Civilian New Hires	0	
Eliminated Military PCS	77,983	
Unemployment	15,660	
<b>Total - Personnel</b>		<b>220,597</b>
<b>Overhead</b>		
Program Planning Support	1,406,713	
Mothball / Shutdown	912,500	
<b>Total - Overhead</b>		<b>2,319,213</b>
<b>Moving</b>		
Civilian Moving	1,682,500	
Civilian PPS	57,600	
Military Moving	1,845,507	
Freight	123,357	
One-Time Moving Costs	0	
<b>Total - Moving</b>		<b>3,708,965</b>
<b>Other</b>		
HAP / RSE	204,682	
Environmental Mitigation Costs	0	
One-Time Unique Costs	0	
<b>Total - Other</b>		<b>204,682</b>
<b>Total One-Time Costs</b>		<b>6,453,458</b>
-----		
<b>One-Time Savings</b>		
Military Construction Cost Avoidances	0	
Family Housing Cost Avoidances	0	
Military Moving	604,841	
Land Sales	0	
One-Time Moving Savings	0	
Environmental Mitigation Savings	0	
One-Time Unique Savings	0	
<b>Total One-Time Savings</b>		<b>604,841</b>
<b>Total Net One-Time Costs</b>		<b>5,848,616</b>

Department : ARMY  
 Option Package : MT5-2  
 Scenario File : C:\COBRA\MT5-2.CBR  
 Std Fctrs File : C:\COBRA\SF7DEC.SPF

Base: FT BLISS, TX  
 (All values in Dollars)

Category	Cost	Sub-Total
-----	----	-----
<b>Construction</b>		
Military Construction	0	
Family Housing Construction	0	
Information Management Account	0	
Land Purchases	0	
Total - Construction		0
<b>Personnel</b>		
Civilian RIF	0	
Civilian Early Retirement	0	
Civilian New Hires	24,398	
Eliminated Military PCS	0	
Unemployment	0	
Total - Personnel		24,398
<b>Overhead</b>		
Program Planning Support	0	
Mothball / Shutdown	0	
Total - Overhead		0
<b>Moving</b>		
Civilian Moving	0	
Civilian PPS	0	
Military Moving	0	
Freight	0	
One-Time Moving Costs	0	
Total - Moving		0
<b>Other</b>		
HAP / RSE	0	
Environmental Mitigation Costs	0	
One-Time Unique Costs	0	
Total - Other		0
-----		
Total One-Time Costs		24,398
-----		
<b>One-Time Savings</b>		
Military Construction Cost Avoidances	0	
Family Housing Cost Avoidances	0	
Military Moving	0	
Land Sales	0	
One-Time Moving Savings	0	
Environmental Mitigation Savings	0	
One-Time Unique Savings	0	
-----		
Total One-Time Savings		0
-----		
Total Net One-Time Costs		24,398

PERSONNEL, SF, RPMA, AND BOS DELTAS (COBRA v5.08)  
 Data As Of 17:44 09/27/1994, Report Created 10:00 02/15/1995

Department : ARMY  
 Option Package : MT5-2  
 Scenario File : C:\COBRA\MT5-2.CBR  
 Std Fctrs File : C:\COBRA\SF7DEC.SFF

Base	Personnel		SF		
	Change	%Change	Change	%Change	Chg/Per
BASE X	18	0%	0	0%	0
FT HUNTER LIGGETT	-478	-76%	-730,000	-100%	1,527
FT BLISS	438	2%	0	0%	0

Base	RPMA(\$)			BOS(\$)		
	Change	%Change	Chg/Per	Change	%Change	Chg/Per
BASE X	0	0%	0	34,812	0%	1,934
FT HUNTER LIGGETT	-2,169,000	-100%	4,538	-2,804,939	-54%	5,868
FT BLISS	0	0%	0	910,833	1%	2,079

Base	RPMABOS(\$)		
	Change	%Change	Chg/Per
BASE X	34,812	0%	1,934
FT HUNTER LIGGETT	-4,973,939	-67%	10,406
FT BLISS	910,833	1%	2,079

Department : ARMY  
 Option Package : MT5-2  
 Scenario File : C:\COBRA\MT5-2.CBR  
 Std Fctrs File : C:\COBRA\SF7DEC.SPF

All Costs in \$K

Base Name	Total MilCon	IMA Cost	Land Purch	Cost Avoid	Total Cost
-----	-----	-----	-----	-----	-----
BASE X	0	0	0	0	0
FT HUNTER LIGGETT	0	0	0	0	0
FT BLISS	0	0	0	0	0
-----	-----	-----	-----	-----	-----
Totals:	0	0	0	0	0

PERSONNEL SUMMARY REPORT (COBRA v5.08)  
 Data As Of 17:44 09/27/1994, Report Created 10:00 02/15/1995

Department : ARMY  
 Option Package : MT5-2  
 Scenario File : C:\COBRA\MT5-2.CBR  
 Std Fctrs File : C:\COBRA\SP7DEC.SPF

PERSONNEL SUMMARY FOR: BASE X, US

BASE POPULATION (FY 1996, Prior to BRAC Action):

Officers	Enlisted	Students	Civilians
752	4,208	1,121	2,709

PERSONNEL REALIGNMENTS:

From Base: FT HUNTER LIGGETT, CA

	1996	1997	1998	1999	2000	2001	Total
Officers	0	0	0	0	0	0	0
Enlisted	0	0	0	0	0	0	0
Students	0	0	0	0	0	0	0
Civilians	0	0	18	0	0	0	18
TOTAL	0	0	18	0	0	0	18

TOTAL PERSONNEL REALIGNMENTS (Into BASE X, US):

	1996	1997	1998	1999	2000	2001	Total
Officers	0	0	0	0	0	0	0
Enlisted	0	0	0	0	0	0	0
Students	0	0	0	0	0	0	0
Civilians	0	0	18	0	0	0	18
TOTAL	0	0	18	0	0	0	18

BASE POPULATION (After BRAC Action):

Officers	Enlisted	Students	Civilians
752	4,208	1,121	2,727

PERSONNEL SUMMARY FOR: FT HUNTER LIGGETT, CA

BASE POPULATION (FY 1996, Prior to BRAC Action):

Officers	Enlisted	Students	Civilians
54	353	0	221

PERSONNEL REALIGNMENTS:

To Base: BASE X, US

	1996	1997	1998	1999	2000	2001	Total
Officers	0	0	0	0	0	0	0
Enlisted	0	0	0	0	0	0	0
Students	0	0	0	0	0	0	0
Civilians	0	0	18	0	0	0	18
TOTAL	0	0	18	0	0	0	18

To Base: FT BLISS, TX

	1996	1997	1998	1999	2000	2001	Total
Officers	0	0	50	0	0	0	50
Enlisted	0	0	326	0	0	0	326
Students	0	0	0	0	0	0	0
Civilians	0	0	62	0	0	0	62
TOTAL	0	0	438	0	0	0	438

TOTAL PERSONNEL REALIGNMENTS (Out of FT HUNTER LIGGETT, CA):

	1996	1997	1998	1999	2000	2001	Total
Officers	0	0	50	0	0	0	50
Enlisted	0	0	326	0	0	0	326
Students	0	0	0	0	0	0	0
Civilians	0	0	80	0	0	0	80
TOTAL	0	0	456	0	0	0	456

Department : ARMY  
 Option Package : MT5-2  
 Scenario File : C:\COBRA\MT5-2.CBR  
 Std Fctrs File : C:\COBRA\SF7DEC.SPF

SCENARIO POSITION CHANGES:

	1996	1997	1998	1999	2000	2001	Total
Officers	0	0	-2	0	0	0	-2
Enlisted	0	0	-15	0	0	0	-15
Civilians	0	0	-5	0	0	0	-5
TOTAL	0	0	-22	0	0	0	-22

BASE POPULATION (After BRAC Action):

Officers	Enlisted	Students	Civilians
2	12	0	136

PERSONNEL SUMMARY FOR: FT BLISS, TX

BASE POPULATION (FY 1996, Prior to BRAC Action):

Officers	Enlisted	Students	Civilians
1,679	9,853	2,196	4,132

PERSONNEL REALIGNMENTS:

From Base: FT HUNTER LIGGETT, CA

	1996	1997	1998	1999	2000	2001	Total
Officers	0	0	50	0	0	0	50
Enlisted	0	0	326	0	0	0	326
Students	0	0	0	0	0	0	0
Civilians	0	0	62	0	0	0	62
TOTAL	0	0	438	0	0	0	438

TOTAL PERSONNEL REALIGNMENTS (Into FT BLISS, TX):

	1996	1997	1998	1999	2000	2001	Total
Officers	0	0	50	0	0	0	50
Enlisted	0	0	326	0	0	0	326
Students	0	0	0	0	0	0	0
Civilians	0	0	62	0	0	0	62
TOTAL	0	0	438	0	0	0	438

BASE POPULATION (After BRAC Action):

Officers	Enlisted	Students	Civilians
1,729	10,179	2,196	4,194

Department : ARMY  
 Option Package : MT5-2  
 Scenario File : C:\COBRA\MT5-2.CBR  
 Std Fctrs File : C:\COBRA\SP7DEC.SPF

	Rate	1996	1997	1998	1999	2000	2001	Total
CIVILIAN POSITIONS REALIGNING OUT		0	0	80	0	0	0	80
Early Retirement*	10.00%	0	0	8	0	0	0	8
Regular Retirement*	5.00%	0	0	4	0	0	0	4
Civilian Turnover*	15.00%	0	0	12	0	0	0	12
Civs Not Moving (RIFs)*+		0	0	5	0	0	0	5
Civilians Moving (the remainder)		0	0	51	0	0	0	51
Civilian Positions Available		0	0	29	0	0	0	29
CIVILIAN POSITIONS ELIMINATED		0	0	5	0	0	0	5
Early Retirement	10.00%	0	0	1	0	0	0	1
Regular Retirement	5.00%	0	0	0	0	0	0	0
Civilian Turnover	15.00%	0	0	1	0	0	0	1
Civs Not Moving (RIFs)*+		0	0	0	0	0	0	0
Priority Placement#	60.00%	0	0	3	0	0	0	3
Civilians Available to Move		0	0	0	0	0	0	0
Civilians Moving		0	0	0	0	0	0	0
Civilian RIFs (the remainder)		0	0	0	0	0	0	0
CIVILIAN POSITIONS REALIGNING IN		0	0	80	0	0	0	80
Civilians Moving		0	0	51	0	0	0	51
New Civilians Hired		0	0	29	0	0	0	29
Other Civilian Additions		0	0	0	0	0	0	0
TOTAL CIVILIAN EARLY RETIREMENTS		0	0	9	0	0	0	9
TOTAL CIVILIAN RIFS		0	0	5	0	0	0	5
TOTAL CIVILIAN PRIORITY PLACEMENTS#		0	0	3	0	0	0	3
TOTAL CIVILIAN NEW HIRES		0	0	29	0	0	0	29

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

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

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



Department : ARMY  
 Option Package : MT5-2  
 Scenario File : C:\COBRA\MT5-2.CBR  
 Std Pctrs File : C:\COBRA\SF7DEC.SPF

Base: BASE X, US	Rate	1996	1997	1998	1999	2000	2001	Total
CIVILIAN POSITIONS REALIGNING OUT		0	0	0	0	0	0	0
Early Retirement*	10.00%	0	0	0	0	0	0	0
Regular Retirement*	5.00%	0	0	0	0	0	0	0
Civilian Turnover*	15.00%	0	0	0	0	0	0	0
Civs Not Moving (RIFs)*	6.00%	0	0	0	0	0	0	0
Civilians Moving (the remainder)		0	0	0	0	0	0	0
Civilian Positions Available		0	0	0	0	0	0	0
CIVILIAN POSITIONS ELIMINATED		0	0	0	0	0	0	0
Early Retirement	10.00%	0	0	0	0	0	0	0
Regular Retirement	5.00%	0	0	0	0	0	0	0
Civilian Turnover	15.00%	0	0	0	0	0	0	0
Civs Not Moving (RIFs)*	6.00%	0	0	0	0	0	0	0
Priority Placement#	60.00%	0	0	0	0	0	0	0
Civilians Available to Move		0	0	0	0	0	0	0
Civilians Moving		0	0	0	0	0	0	0
Civilian RIFs (the remainder)		0	0	0	0	0	0	0
CIVILIAN POSITIONS REALIGNING IN		0	0	18	0	0	0	18
Civilians Moving		0	0	11	0	0	0	11
New Civilians Hired		0	0	7	0	0	0	7
Other Civilian Additions		0	0	0	0	0	0	0
TOTAL CIVILIAN EARLY RETIREMENTS		0	0	0	0	0	0	0
TOTAL CIVILIAN RIFs		0	0	0	0	0	0	0
TOTAL CIVILIAN PRIORITY PLACEMENTS#		0	0	0	0	0	0	0
TOTAL CIVILIAN NEW HIRES		0	0	7	0	0	0	7

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

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

Department : ARMY  
 Option Package : MT5-2  
 Scenario File : C:\COBRA\MT5-2.CBR  
 Std Fctrs File : C:\COBRA\SF7DEC.SPF

Base: FT HUNTER LIGGETT, CA	Rate	1996	1997	1998	1999	2000	2001	Total
CIVILIAN POSITIONS REALIGNING OUT		0	0	80	0	0	0	80
Early Retirement*	10.00%	0	0	8	0	0	0	8
Regular Retirement*	5.00%	0	0	4	0	0	0	4
Civilian Turnover*	15.00%	0	0	12	0	0	0	12
Civs Not Moving (RIFs)*	6.00%	0	0	5	0	0	0	5
Civilians Moving (the remainder)		0	0	51	0	0	0	51
Civilian Positions Available		0	0	29	0	0	0	29
CIVILIAN POSITIONS ELIMINATED		0	0	5	0	0	0	5
Early Retirement	10.00%	0	0	1	0	0	0	1
Regular Retirement	5.00%	0	0	0	0	0	0	0
Civilian Turnover	15.00%	0	0	1	0	0	0	1
Civs Not Moving (RIFs)*	6.00%	0	0	0	0	0	0	0
Priority Placement#	60.00%	0	0	3	0	0	0	3
Civilians Available to Move		0	0	0	0	0	0	0
Civilians Moving		0	0	0	0	0	0	0
Civilian RIFs (the remainder)		0	0	0	0	0	0	0
CIVILIAN POSITIONS REALIGNING IN		0	0	0	0	0	0	0
Civilians Moving		0	0	0	0	0	0	0
New Civilians Hired		0	0	0	0	0	0	0
Other Civilian Additions		0	0	0	0	0	0	0
TOTAL CIVILIAN EARLY RETIREMENTS		0	0	9	0	0	0	9
TOTAL CIVILIAN RIFs		0	0	5	0	0	0	5
TOTAL CIVILIAN PRIORITY PLACEMENTS#		0	0	3	0	0	0	3
TOTAL CIVILIAN NEW HIRES		0	0	0	0	0	0	0

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

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

Department : ARMY  
 Option Package : MT5-2  
 Scenario File : C:\COBRA\MT5-2.CBR  
 Std Fctrs File : C:\COBRA\SF7DEC.SPF

Base: FT BLISS, TX	Rate	1996	1997	1998	1999	2000	2001	Total
CIVILIAN POSITIONS REALIGNING OUT		0	0	0	0	0	0	0
Early Retirement*	10.00%	0	0	0	0	0	0	0
Regular Retirement*	5.00%	0	0	0	0	0	0	0
Civilian Turnover*	15.00%	0	0	0	0	0	0	0
Civs Not Moving (RIFs)*	6.00%	0	0	0	0	0	0	0
Civilians Moving (the remainder)		0	0	0	0	0	0	0
Civilian Positions Available		0	0	0	0	0	0	0
CIVILIAN POSITIONS ELIMINATED		0	0	0	0	0	0	0
Early Retirement	10.00%	0	0	0	0	0	0	0
Regular Retirement	5.00%	0	0	0	0	0	0	0
Civilian Turnover	15.00%	0	0	0	0	0	0	0
Civs Not Moving (RIFs)*	6.00%	0	0	0	0	0	0	0
Priority Placement#	60.00%	0	0	0	0	0	0	0
Civilians Available to Move		0	0	0	0	0	0	0
Civilians Moving		0	0	0	0	0	0	0
Civilian RIFs (the remainder)		0	0	0	0	0	0	0
CIVILIAN POSITIONS REALIGNING IN		0	0	62	0	0	0	62
Civilians Moving		0	0	40	0	0	0	40
New Civilians Hired		0	0	22	0	0	0	22
Other Civilian Additions		0	0	0	0	0	0	0
TOTAL CIVILIAN EARLY RETIRMENTS		0	0	0	0	0	0	0
TOTAL CIVILIAN RIFs		0	0	0	0	0	0	0
TOTAL CIVILIAN PRIORITY PLACEMENTS#		0	0	0	0	0	0	0
TOTAL CIVILIAN NEW HIRES		0	0	22	0	0	0	22

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

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

PERSONNEL YEARLY PERCENTAGES (COBRA v5.08)  
 Data As Of 17:44 09/27/1994, Report Created 10:00 02/15/1995

Department : ARMY  
 Option Package : MT5-2  
 Scenario File : C:\COBRA\MT5-2.CBR  
 Std Fctrs File : C:\COBRA\SF7DEC.SFF

Base: BASE X, US

Year	Pers Moved In		MilCon TimePhase	Pers Moved Out/Eliminated		ShutDn TimePhase
	Total	Percent		Total	Percent	
1996	0	0.00%	0.00%	0	0.00%	16.67%
1997	0	0.00%	100.00%	0	0.00%	16.67%
1998	18	100.00%	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	18	100.00%	100.00%	0	0.00%	100.00%

Base: FT HUNTER LIGGETT, CA

Year	Pers Moved In		MilCon TimePhase	Pers Moved Out/Eliminated		ShutDn TimePhase
	Total	Percent		Total	Percent	
1996	0	0.00%	66.67%	0	0.00%	0.00%
1997	0	0.00%	33.33%	0	0.00%	0.00%
1998	0	0.00%	0.00%	478	100.00%	100.00%
1999	0	0.00%	0.00%	0	0.00%	0.00%
2000	0	0.00%	0.00%	0	0.00%	0.00%
2001	0	0.00%	0.00%	0	0.00%	0.00%
TOTALS	0	0.00%	100.00%	478	100.00%	100.00%

Base: FT BLISS, TX

Year	Pers Moved In		MilCon TimePhase	Pers Moved Out/Eliminated		ShutDn TimePhase
	Total	Percent		Total	Percent	
1996	0	0.00%	0.00%	0	0.00%	16.67%
1997	0	0.00%	100.00%	0	0.00%	16.67%
1998	438	100.00%	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	438	100.00%	100.00%	0	0.00%	100.00%

TOTAL APPROPRIATIONS DETAIL REPORT (COBRA v5.08) - Page 1/12  
 Data As Of 17:44 09/27/1994, Report Created 10:00 02/15/1995

Department : ARMY  
 Option Package : MT5-2  
 Scenario File : C:\COBRA\MT5-2.CBR  
 Std Fctrs File : C:\COBRA\SF7DEC.SPF

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	90	0	0	0	90
Civ Retire	0	0	37	0	0	0	37
CIV MOVING							
Per Diem	0	0	166	0	0	0	166
POV Miles	0	0	14	0	0	0	14
Home Purch	0	0	659	0	0	0	659
HHG	0	0	372	0	0	0	372
Misc	0	0	36	0	0	0	36
House Hunt	0	0	148	0	0	0	148
PPS	0	0	58	0	0	0	58
RITA	0	0	287	0	0	0	287
FREIGHT							
Packing	0	0	106	0	0	0	106
Freight	0	0	17	0	0	0	17
Vehicles	0	0	0	0	0	0	0
Driving	0	0	0	0	0	0	0
Unemployment	0	0	16	0	0	0	16
OTHER							
Program Plan	608	456	342	0	0	0	1,407
Shutdown	0	0	912	0	0	0	912
New Hire	0	0	32	0	0	0	32
1-Time Move	0	0	0	0	0	0	0
MIL PERSONNEL							
MIL MOVING							
Per Diem	0	0	163	0	0	0	163
POV Miles	0	0	110	0	0	0	110
HHG	0	0	1,309	0	0	0	1,309
Misc	0	0	263	0	0	0	263
OTHER							
Elim PCS	0	0	78	0	0	0	78
OTHER							
HAP / RSE	0	0	205	0	0	0	205
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	608	456	5,421	0	0	0	6,486

TOTAL APPROPRIATIONS DETAIL REPORT (COBRA v5.08) - Page 2/12  
 Data As Of 17:44 09/27/1994, Report Created 10:00 02/15/1995

Department : ARMY  
 Option Package : MT5-2  
 Scenario File : C:\COBRA\MT5-2.CBR  
 Std Fctrs File : C:\COBRA\SF7DEC.SFF

RECURRINGCOSTS	1996	1997	1998	1999	2000	2001	Total	Beyond
---- (\$K) ----	----	----	----	----	----	----	----	----
FAM HOUSE OPS	0	0	0	0	0	0	0	0
O&M								
RPMA	0	0	0	0	0	0	0	0
BOS	0	0	946	946	946	946	3,782	946
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	1,456	1,456	1,456	1,456	5,826	1,456
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	2,402	2,402	2,402	2,402	9,609	2,402
TOTAL COST	608	456	7,823	2,402	2,402	2,402	16,094	2,402
ONE-TIME SAVES	1996	1997	1998	1999	2000	2001	Total	
---- (\$K) ----	----	----	----	----	----	----	----	
CONSTRUCTION								
MILCON	0	0	0	0	0	0	0	0
Fam Housing	0	0	0	0	0	0	0	0
O&M								
1-Time Move	0	0	0	0	0	0	0	0
MIL PERSONNEL								
Mil Moving	0	0	605	0	0	0	605	0
OTHER								
Land Sales	0	0	0	0	0	0	0	0
Environmental	0	0	0	0	0	0	0	0
1-Time Other	0	0	0	0	0	0	0	0
TOTAL ONE-TIME	0	0	605	0	0	0	605	0
RECURRINGSAVES	1996	1997	1998	1999	2000	2001	Total	Beyond
---- (\$K) ----	----	----	----	----	----	----	----	----
FAM HOUSE OPS	0	0	36	73	73	73	255	73
O&M								
RPMA	0	0	1,030	2,169	2,169	2,169	7,537	2,169
BOS	0	0	99	2,805	2,805	2,805	8,514	2,805
Unique Operat	0	0	0	0	0	0	0	0
Civ Salary	0	0	115	230	230	230	805	230
CHAMPUS	0	0	0	0	0	0	0	0
MIL PERSONNEL								
Off Salary	0	0	68	136	136	136	476	136
Enl Salary	0	0	231	463	463	463	1,620	463
House Allow	0	0	2,006	2,006	2,006	2,006	8,026	2,006
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	3,587	7,882	7,882	7,882	27,234	7,882
TOTAL SAVINGS	0	0	4,192	7,882	7,882	7,882	27,839	7,882

TOTAL APPROPRIATIONS DETAIL REPORT (COBRA v5.08) - Page 3/12  
 Data As Of 17:44 09/27/1994, Report Created 10:00 02/15/1995

Department : ARMY  
 Option Package : MT5-2  
 Scenario File : C:\COBRA\MT5-2.CBR  
 Std Fctrs File : C:\COBRA\SF7DEC.SFF

ONE-TIME NET	1996	1997	1998	1999	2000	2001	Total	
-----(\$K)-----	----	----	----	----	----	----	-----	
<b>CONSTRUCTION</b>								
MILCON	0	0	0	0	0	0	0	
Fam Housing	0	0	0	0	0	0	0	
<b>O&amp;M</b>								
Civ Retir/RIF	0	0	127	0	0	0	127	
Civ Moving	0	0	1,863	0	0	0	1,863	
Other	608	456	1,302	0	0	0	2,367	
<b>MIL PERSONNEL</b>								
Mil Moving	0	0	1,319	0	0	0	1,319	
<b>OTHER</b>								
HAP / RSE	0	0	205	0	0	0	205	
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	
<b>TOTAL ONE-TIME</b>	<b>608</b>	<b>456</b>	<b>4,816</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>5,881</b>	
<b>RECURRING NET</b>								
-----(\$K)-----	----	----	----	----	----	----	-----	Beyond
FAM HOUSE OPS	0	0	-36	-73	-73	-73	-255	-73
<b>O&amp;M</b>								
RPMA	0	0	-1,030	-2,169	-2,169	-2,169	-7,537	-2,169
BOS	0	0	846	-1,859	-1,859	-1,859	-4,731	-1,859
Unique Operat	0	0	0	0	0	0	0	0
Caretaker	0	0	0	0	0	0	0	0
Civ Salary	0	0	-115	-230	-230	-230	-805	-230
<b>CHAMPUS</b>								
MIL PERSONNEL								
Mil Salary	0	0	-299	-599	-599	-599	-2,096	-599
House Allow	0	0	-550	-550	-550	-550	-2,200	-550
<b>OTHER</b>								
Procurement	0	0	0	0	0	0	0	0
Mission	0	0	0	0	0	0	0	0
Misc Recur	0	0	0	0	0	0	0	0
Unique Other	0	0	0	0	0	0	0	0
<b>TOTAL RECUR</b>	<b>0</b>	<b>0</b>	<b>-1,185</b>	<b>-5,480</b>	<b>-5,480</b>	<b>-5,480</b>	<b>-17,625</b>	<b>-5,480</b>
<b>TOTAL NET COST</b>	<b>608</b>	<b>456</b>	<b>3,631</b>	<b>-5,480</b>	<b>-5,480</b>	<b>-5,480</b>	<b>-11,745</b>	<b>-5,480</b>

Department : ARMY  
 Option Package : MT5-2  
 Scenario File : C:\COBRA\MT5-2.CBR  
 Std Fctrs File : C:\COBRA\SF7DEC.SPF

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	8	0	0	0	8
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	8	0	0	0	8





APPROPRIATIONS DETAIL REPORT (COBRA v5.08) - Page 6/12  
 Data As Of 17:44 09/27/1994, Report Created 10:00 02/15/1995

Department : ARMY  
 Option Package : MT5-2  
 Scenario File : C:\COBRA\MT5-2.CBR  
 Std Fctrs File : C:\COBRA\SF7DEC.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/RIP	0	0	0	0	0	0	0	
Civ Moving	0	0	0	0	0	0	0	
Other	0	0	8	0	0	0	8	
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	8	0	0	0	8	
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	35	35	35	35	139	35
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	35	35	35	35	139	35
TOTAL NET COST	0	0	42	35	35	35	147	35

APPROPRIATIONS DETAIL REPORT (COBRA v5.08) - Page 7/12  
 Data As Of 17:44 09/27/1994, Report Created 10:00 02/15/1995

Department : ARMY  
 Option Package : MT5-2  
 Scenario File : C:\COBRA\MT5-2.CBR  
 Std Fctrs File : C:\COBRA\SF7DEC.SPF

Base: FT HUNTER LIGGETT, CA

ONE-TIME COSTS	1996	1997	1998	1999	2000	2001	Total
-----(\$K)-----	----	----	----	----	----	----	-----
<b>CONSTRUCTION</b>							
MILCON	0	0	0	0	0	0	0
Fam Housing	0	0	0	0	0	0	0
Land Purch	0	0	0	0	0	0	0
<b>O&amp;M</b>							
<b>CIV SALARY</b>							
Civ RIFs	0	0	90	0	0	0	90
Civ Retire	0	0	37	0	0	0	37
<b>CIV MOVING</b>							
Per Diem	0	0	166	0	0	0	166
POV Miles	0	0	14	0	0	0	14
Home Purch	0	0	659	0	0	0	659
HHG	0	0	372	0	0	0	372
Misc	0	0	36	0	0	0	36
House Hunt	0	0	148	0	0	0	148
PPS	0	0	58	0	0	0	58
RITA	0	0	287	0	0	0	287
<b>FREIGHT</b>							
Packing	0	0	106	0	0	0	106
Freight	0	0	17	0	0	0	17
Vehicles	0	0	0	0	0	0	0
Driving	0	0	0	0	0	0	0
Unemployment	0	0	16	0	0	0	16
<b>OTHER</b>							
Program Plan	608	456	342	0	0	0	1,407
Shutdown	0	0	912	0	0	0	912
New Hires	0	0	0	0	0	0	0
1-Time Move	0	0	0	0	0	0	0
<b>MIL PERSONNEL</b>							
<b>MIL MOVING</b>							
Per Diem	0	0	163	0	0	0	163
POV Miles	0	0	110	0	0	0	110
HHG	0	0	1,309	0	0	0	1,309
Misc	0	0	263	0	0	0	263
<b>OTHER</b>							
Elim PCS	0	0	78	0	0	0	78
<b>OTHER</b>							
HAP / RSE	0	0	205	0	0	0	205
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
<b>TOTAL ONE-TIME</b>	<b>608</b>	<b>456</b>	<b>5,389</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>6,453</b>

APPROPRIATIONS DETAIL REPORT (COBRA v5.08) - Page 8/12  
 Data As Of 17:44 09/27/1994, Report Created 10:00 02/15/1995

Department : ARMY  
 Option Package : MT5-2  
 Scenario File : C:\COBRA\MT5-2.CBR  
 Std Pctrs File : C:\COBRA\SF7DEC.SPF

Base: FT HUNTER LIGGETT, CA

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

TOTAL COSTS 608 456 5,389 0 0 0 6,453 0

ONE-TIME SAVES	1996	1997	1998	1999	2000	2001	Total	Beyond
-----(\$K)-----	----	----	----	----	----	----	-----	-----
CONSTRUCTION								
MILCON	0	0	0	0	0	0	0	0
Fam Housing	0	0	0	0	0	0	0	0
O&M								
1-Time Move	0	0	0	0	0	0	0	0
MIL PERSONNEL								
Mil Moving	0	0	605	0	0	0	605	0
OTHER								
Land Sales	0	0	0	0	0	0	0	0
Environmental	0	0	0	0	0	0	0	0
1-Time Other	0	0	0	0	0	0	0	0
TOTAL ONE-TIME	0	0	605	0	0	0	605	0

RECURRINGSAVES	1996	1997	1998	1999	2000	2001	Total	Beyond
-----(\$K)-----	----	----	----	----	----	----	-----	-----
FAM HOUSE OPS	0	0	36	73	73	73	255	73
O&M								
RPMA	0	0	1,030	2,169	2,169	2,169	7,537	2,169
BOS	0	0	99	2,805	2,805	2,805	8,514	2,805
Unique Operat	0	0	0	0	0	0	0	0
Civ Salary	0	0	115	230	230	230	805	230
CHAMPUS	0	0	0	0	0	0	0	0
MIL PERSONNEL								
Off Salary	0	0	68	136	136	136	476	136
Enl Salary	0	0	231	463	463	463	1,620	463
House Allow	0	0	2,006	2,006	2,006	2,006	8,026	2,006
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	3,587	7,882	7,882	7,882	27,234	7,882

TOTAL SAVINGS 0 0 4,192 7,882 7,882 7,882 27,839 7,882

APPROPRIATIONS DETAIL REPORT (COBRA v5.08) - Page 9/12  
 Data As Of 17:44 09/27/1994, Report Created 10:00 02/15/1995

Department : ARMY  
 Option Package : MT5-2  
 Scenario File : C:\COBRA\MT5-2.CBR  
 Std Fctrs File : C:\COBRA\SF7DEC.SFF

Base: FT HUNTER LIGGETT, CA

ONE-TIME NET	1996	1997	1998	1999	2000	2001	Total	
-----(\$K)-----	----	----	----	----	----	----	-----	
<b>CONSTRUCTION</b>								
MILCON	0	0	0	0	0	0	0	
Fam Housing	0	0	0	0	0	0	0	
<b>O&amp;M</b>								
Civ Retir/RIF	0	0	127	0	0	0	127	
Civ Moving	0	0	1,863	0	0	0	1,863	
Other	608	456	1,270	0	0	0	2,335	
<b>MIL PERSONNEL</b>								
Mil Moving	0	0	1,319	0	0	0	1,319	
<b>OTHER</b>								
HAP / RSE	0	0	205	0	0	0	205	
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	
<b>TOTAL ONE-TIME</b>	<b>608</b>	<b>456</b>	<b>4,784</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>5,849</b>	
<b>RECURRING NET</b>								
-----(\$K)-----	----	----	----	----	----	----	-----	-----
FAM HOUSE OPS	0	0	-36	-73	-73	-73	-255	-73
<b>O&amp;M</b>								
RPMA	0	0	-1,030	-2,169	-2,169	-2,169	-7,537	-2,169
BOS	0	0	-99	-2,805	-2,805	-2,805	-8,514	-2,805
Unique Operat	0	0	0	0	0	0	0	0
Caretaker	0	0	0	0	0	0	0	0
Civ Salary	0	0	-115	-230	-230	-230	-805	-230
CHAMPUS	0	0	0	0	0	0	0	0
<b>MIL PERSONNEL</b>								
Mil Salary	0	0	-299	-599	-599	-599	-2,096	-599
House Allow	0	0	-2,006	-2,006	-2,006	-2,006	-8,026	-2,006
<b>OTHER</b>								
Procurement	0	0	0	0	0	0	0	0
Mission	0	0	0	0	0	0	0	0
Misc Recur	0	0	0	0	0	0	0	0
Unique Other	0	0	0	0	0	0	0	0
<b>TOTAL RECUR</b>	<b>0</b>	<b>0</b>	<b>-3,587</b>	<b>-7,882</b>	<b>-7,882</b>	<b>-7,882</b>	<b>-27,234</b>	<b>-7,882</b>
<b>TOTAL NET COST</b>	<b>608</b>	<b>456</b>	<b>1,197</b>	<b>-7,882</b>	<b>-7,882</b>	<b>-7,882</b>	<b>-21,386</b>	<b>-7,882</b>

APPROPRIATIONS DETAIL REPORT (COBRA v5.08) - Page 10/12  
 Data As Of 17:44 09/27/1994, Report Created 10:00 02/15/1995

Department : ARMY  
 Option Package : MT5-2  
 Scenario File : C:\COBRA\MT5-2.CBR  
 Std Fctrs File : C:\COBRA\SF7DBC.SPF

Base: FT BLISS, TX

ONE-TIME COSTS	1996	1997	1998	1999	2000	2001	Total
-----(\$K)-----	----	----	----	----	----	----	-----
<b>CONSTRUCTION</b>							
MILCON	0	0	0	0	0	0	0
Fam Housing	0	0	0	0	0	0	0
Land Purch	0	0	0	0	0	0	0
<b>O&amp;M</b>							
<b>CIV SALARY</b>							
Civ RIFs	0	0	0	0	0	0	0
Civ Retire	0	0	0	0	0	0	0
<b>CIV MOVING</b>							
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
<b>FREIGHT</b>							
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
<b>OTHER</b>							
Program Plan	0	0	0	0	0	0	0
Shutdown	0	0	0	0	0	0	0
New Hires	0	0	24	0	0	0	24
1-Time Move	0	0	0	0	0	0	0
<b>MIL PERSONNEL</b>							
<b>MIL MOVING</b>							
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
<b>OTHER</b>							
Elim PCS	0	0	0	0	0	0	0
<b>OTHER</b>							
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
<b>TOTAL ONE-TIME</b>	<b>0</b>	<b>0</b>	<b>24</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>24</b>



APPROPRIATIONS DETAIL REPORT (COBRA v5.08) - Page 12/12  
 Data As Of 17:44 09/27/1994, Report Created 10:00 02/15/1995

Department : ARMY  
 Option Package : MT5-2  
 Scenario File : C:\COBRA\MT5-2.CBR  
 Std Fctrs File : C:\COBRA\SF7DEC.SPF

Base: FT BLISS, TX

ONE-TIME NET	1996	1997	1998	1999	2000	2001	Total	
-----(\$K)-----	----	----	----	----	----	----	-----	
CONSTRUCTION								
MILCON	0	0	0	0	0	0	0	
Fam Housing	0	0	0	0	0	0	0	
O&M								
Civ Retir/RIF	0	0	0	0	0	0	0	
Civ Moving	0	0	0	0	0	0	0	
Other	0	0	24	0	0	0	24	
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	24	0	0	0	24	
RECURRING NET								
-----(\$K)-----	---- <td>---- <td>---- <td>---- <td>---- <td>---- <td>-----</td> <td>Beyond</td> </td></td></td></td></td>	---- <td>---- <td>---- <td>---- <td>---- <td>-----</td> <td>Beyond</td> </td></td></td></td>	---- <td>---- <td>---- <td>---- <td>-----</td> <td>Beyond</td> </td></td></td>	---- <td>---- <td>---- <td>-----</td> <td>Beyond</td> </td></td>	---- <td>---- <td>-----</td> <td>Beyond</td> </td>	---- <td>-----</td> <td>Beyond</td>	-----	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	911	911	911	911	3,643	911
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	1,456	1,456	1,456	1,456	5,826	1,456
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	2,367	2,367	2,367	2,367	9,469	2,367
TOTAL NET COST	0	0	2,392	2,367	2,367	2,367	9,494	2,367



RPMA/BOS CHANGE REPORT (COBRA v5.08)

Data As Of 17:44 09/27/1994, Report Created 10:00 02/15/1995

Department : ARMY  
 Option Package : MT5-2  
 Scenario File : C:\COBRA\MT5-2.CBR  
 Std Fctrs File : C:\COBRA\SF7DEC.SFF

Net Change (\$K)	1996	1997	1998	1999	2000	2001	Total	Beyond
RPMA Change	0	0	-1,030	-2,169	-2,169	-2,169	-7,537	-2,169
BOS Change	0	0	846	-1,859	-1,859	-1,859	-4,731	-1,859
Housing Change	0	0	-36	-73	-73	-73	-255	-73
<b>TOTAL CHANGES</b>	<b>0</b>	<b>0</b>	<b>-221</b>	<b>-4,101</b>	<b>-4,101</b>	<b>-4,101</b>	<b>-12,525</b>	<b>-4,101</b>



**THE ARMY BASING STUDY**

**BRAC 95  
ALTERNATIVE  
DOCUMENTATION  
SET**

**ALTERNATIVE NO.  
MT5-2**

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**SECTION VI**

**IMPACTS:**

**ECONOMIC IMPACT ON COMMUNITIES  
COMMUNITY INFRASTRUCTURE  
ENVIRONMENTAL**

# ECONOMIC IMPACT DATABASE

Installation: **FORT HUNTER HOCKETT**

State: **California**

Service: **ARMY**

Report Note: **MT5-2**

Comment: **REALIGN - RELOCATE TO FT BLISS & BASE- X**

Previous BRAC Actions: Year: **N/A**

Action: **UNAFFECTED** MB: **17** Civ: **146** Contr: **0** Train: **0**

**BRAC95 Inputs:**

Current Base Pers: #: **54** Ent: **353** Civ: **221** Contr: **252** Train: **0**

Action: **REALIGNING**

	1994	1995	1996	1997	1998	1999	2000	2001
Military Pers. Relocated (OUT)	0	0	0	0	-376	0	0	0
Military Pers. Disestablished (OUT)	0	0	0	0	-17	0	0	0
Civilian Pers. Relocated (OUT)	0	0	0	0	-80	0	0	0
Civilian Pers. Disestablished (OUT)	0	0	0	0	-5	0	0	0
Contractor Personnel (OUT)	0	0	0	0	0	0	0	0
Military Training Status (OUT)	0	0	0	0	0	0	0	0
Military Personnel (IN)	0	0	0	0	0	0	0	0
Civilian Personnel (IN)	0	0	0	0	0	0	0	0
Contractor Personnel (IN)	0	0	0	0	0	0	0	0
Military Training Status (IN)	0	0	0	0	0	0	0	0

## Economic Impact Data

**Activity: FORT HUNTER LIGGETT**

**Economic Area: Salinas, CA MSA**

**Impact of Proposed BRAC-95 Action at FORT HUNTER LIGGETT:**

Total Population of Salinas, CA MSA (1992):	368,300
Total Employment of Salinas, CA MSA, BEA (1992):	198,186
Total Personal Income of Salinas, CA MSA (1992 actual):	\$7,484,834,000
BRAC 95 Total Direct and Indirect Job Change:	(686)
BRAC 95 Potential Total Job Change Over Closure Period (% of 1992 Total Employment)	(0.3%)

		1994	1995	1996	1997	1998	1999	2000	2001	Total
Relocated Jobs:	MIL	0	0	0	0	(376)	0	0	0	(376)
	CIV	0	0	0	0	(80)	0	0	0	(80)
Other Jobs:	MIL	0	0	0	0	(17)	0	0	0	(17)
	CIV	0	0	0	0	(5)	0	0	0	(5)

**BRAC 95 Direct Job Change Summary at FORT HUNTER LIGGETT:**

MIL	0	0	0	0	(393)	0	0	0	(393)
CIV	0	0	0	0	(85)	0	0	0	(85)
TOT	0	0	0	0	(478)	0	0	0	(478)

Indirect Job Change: (208)  
 Total Direct and Indirect Job Change: (686)

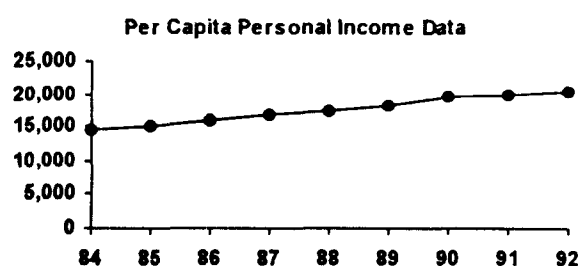
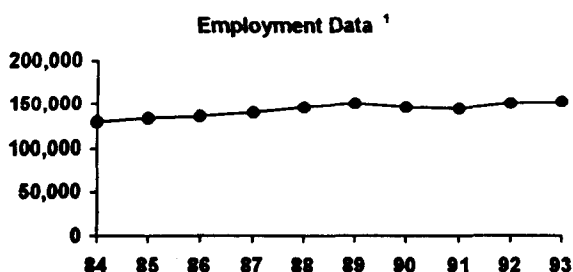
**Other Pending BRAC Actions at FORT HUNTER LIGGETT (Previous Rounds):**

MIL	0	17	0	0	0	0	0	0	17
CIV	0	146	0	0	0	0	0	0	146

**Salinas, CA MSA Profile:**

Civilian Employment, BLS (1993): 153,551

Average Per Capita Income (1992): \$20,322



**Annualized Change in Civilian Employment (1984-1993)**

Employment: 2,809  
 Percentage: 2.1%  
 U.S. Average Change: 1.5%

**Annualized Change in Per Capita Personal Income (1984-1992)**

Dollars: \$741  
 Percentage: 4.4%  
 U.S. Average Change: 5.3%

**Unemployment Rates for Salinas, CA MSA and the US (1984 - 1993):**

	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
Local	10.7%	10.6%	10.4%	8.7%	8.4%	8.1%	9.0%	10.9%	12.2%	12.3%
U.S.	7.5%	7.2%	7.0%	6.2%	5.5%	5.3%	5.5%	6.7%	7.4%	6.8%

<sup>1</sup> Note: Bureau of Labor Statistics employment data for 1993, which has been adjusted to incorporate revised methodologies and 1993 Bureau of the Census metropolitan area definitions are not fully compatible with 1984 - 1992 data.

**Economic Impact Data****Activity: FORT HUNTER LIGGETT****Economic Area: Salinas, CA MSA****Cumulative BRAC Impacts Affecting Salinas, CA MSA:**

<b>Cumulative Total Direct and Indirect Job Change:</b>	<b>(6,424)</b>
<b>Potential Cumulative Total Job Change Over Closure Period (% of 1992 Total Employ</b>	<b>(3.2%)</b>

		1994	1995	1996	1997	1998	1999	2000	2001	Total	
<b>Other Proposed BRAC 95 Direct Job Changes in Economic Area (Excluding FORT HUNTER LIGGETT)</b>											
Army:	MIL	0	0	0	0	0	0	0	0	0	
	CIV	0	0	0	0	0	0	0	0	0	
Navy:	MIL	0	0	0	0	0	0	0	0	0	
	CIV	0	0	0	0	0	0	0	0	0	
Air Force:	MIL	0	0	0	0	0	0	0	0	0	
	CIV	0	0	0	0	0	0	0	0	0	
Other:	MIL	0	0	0	0	0	0	0	0	0	
	CIV	0	0	0	0	0	0	0	0	0	
<b>Other Pending Prior BRAC Direct Job Changes in Economic Area (Excluding FORT HUNTER LIGGETT)</b>											
Army:	MIL	(3,008)	(19)	0	0	0	0	0	0	(3,027)	
	CIV	(794)	(229)	0	(82)	0	0	0	0	(1,105)	
Navy:	MIL	0	(6)	1	0	0	0	0	0	(5)	
	CIV	0	0	0	0	0	0	0	0	0	
Air Force:	MIL	0	0	0	0	0	0	0	0	0	
	CIV	0	0	0	0	0	0	0	0	0	
Other:	MIL	0	0	0	0	0	0	0	0	0	
	CIV	0	0	0	0	0	0	0	0	0	
<b>Cumulative Direct Job Change in Salinas, CA MSA Statistical Area (Including FORT HUNTER LIGGETT)</b>											
	MIL	(3,008)	(8)	1	0	(393)	0	0	0	(3,408)	
	CIV	(794)	(83)	0	(82)	(85)	0	0	0	(1,044)	
	TOT	(3,802)	(91)	1	(82)	(478)	0	0	0	(4,452)	
										Cumulative Indirect Job Change:	(1,972)
										Cumulative Total Direct and Indirect Job Change:	(6,424)



**THE ARMY BASING STUDY**

**BRAC 95  
ALTERNATIVE  
DOCUMENTATION  
SET**

**ALTERNATIVE NO.**

**MT5-2**

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**SECTION VII**

**ANALYSTS NOTES**

7 FEB 1995

ANALYSTS,

FINAL TOUCH-UPS TO COBRA.

THE NEXT TIME YOU ARE SITTING AROUND WITH NOTHING TO DO....

1. REVIEW THE SCREEN 1 - GENERAL SCENARIO SUMMARY/DESCRIPTION COMMENTS.

2. MAKE SURE - THE ACTION RECOMMENDED ON THE 1-PAGER IS THE FIRST LINE ENTRY.

EXAMPLE: "CLOSE FORT MISSOULA, EXCEPT..."

"REALIGN LETTERKENNY DEPOT."

COMPLETED  
8 FEB 95, 1000 B

3. MAKE SURE EVERY OTHER ENTRY IS TRUE, i.e. RELOCATE UNIT X TO BASE Y, ETC.

4. MAKE SURE EVERY ENTRY IS UNDERSTANDABLE, i.e. LIMIT JARGON, ACRONYMS, ETC.

THIS MUST BE DONE BECAUSE OSD & THE PUBLIC WILL READ THE SUMMARY COMMENTS AND COMPARE THEM TO THE ACTUAL COBRA & THE 1-PAGER.

WE NEED TO HAVE THIS FIXED BEFORE THE NEXT UPDATE TO OSD; I EXPECT THAT WILL OCCUR O/A 20-22 FEB.

CHUCK

Recd 1 FEB 95

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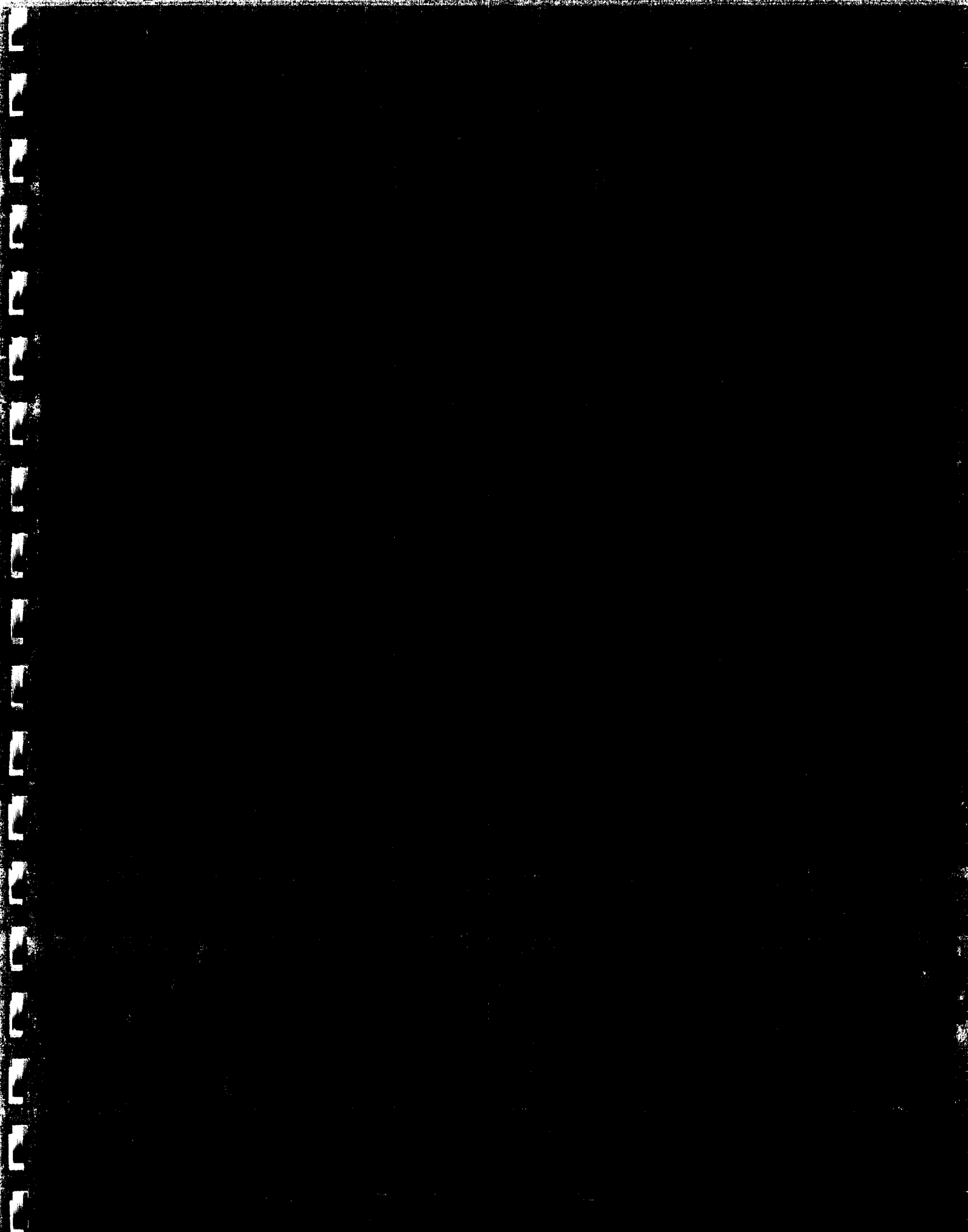
se: FORT BLISS, TX
Total Officers (1995): 1683 1679 RPMA Non-Payroll ($K/Yr): 25044
Total Enlisted (1995): 10599 9853 Communication Costs ($K/Yr): 4527
Total Students (1995): 2196 BOS Non-Payroll ($K/Yr): 64637
Total Civilians (1995): 3386 BOS Payroll ($K/Yr): 52130
Fam Housing Costs ($K/Yr): 13155
% Mil Families On Base: 43.8 %
% Civs Not Will to Move: 6.0 % Area Cost Factor: 0.96
Off Housing Units Vacant: 0 CHAMPUS In-Patient($/Vis): 0
Enl Housing Units Vacant: 0 CHAMPUS Out-Patient($/Vis): 0
Total Facilities (KSF): 12968 CHAMPUS Shift to Medicare: 0.0
Officer VHA ($/Month): 78 Activity Code: 48125
Enlisted VHA ($/Month): 53
[ ] Homeowner Assistance Program
Per Diem Rate ($/Day): 93 [ ] Unique Activity Information
Freight Cost ($/Ton/Mi): 0.07
Next E Previous E Done E
0000000000 0000000000 0000000000

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# Document Separator



# Biography

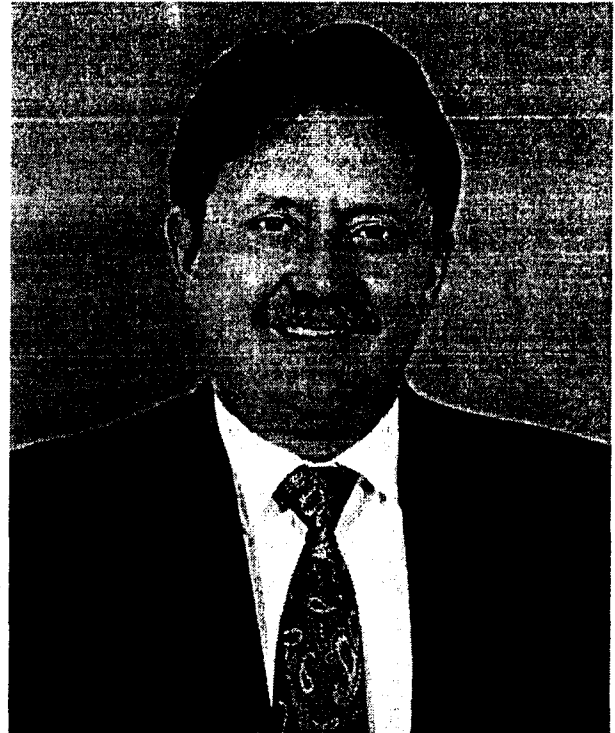
## Carl T. Russell

Chief Scientist and Director of Operations, Instrumentation and Testing  
TEXCOM Experimentation Center

Carl T. Russell is the Chief Scientist and Director of Operations, Instrumentation and Testing (DOIT) at the TEXCOM Experimentation Center (TEC). In this position, he directs the technical assets of TEC and serves as the primary technical advisor to the TEC Commander.

Prior to arriving at TEC in August, 1993, Dr. Russell had already spent eighteen years in test and evaluation of military systems. He received a Ph.D. in Mathematical Statistics from Indiana University in 1973, and taught mathematics at The University of Texas at Austin for three years. He entered government service in 1975 with the Operational Test and Evaluation Agency (OTEA), a predecessor to the Operational Test and Evaluation Command (OPTEC). Except for a year in which he planned joint operational tests with the Institute for Defense Analyses (IDA), and three years with the US Army Cold Regions Test Center (CRTC) at Fort Greely, Alaska, Dr. Russell has remained with OPTEC.

He has participated in a great variety of military systems tests, from early tests of the Dragon antitank missile, the Apache helicopter and the M1 Abrams tank to the recent test of the JAVELIN antitank missile and the upcoming test of the Longbow Apache helicopter system. He was senior analyst in key evaluations of the Stinger and SGT York air defense systems, participated in test and evaluation of the Single-Channel Ground and Airborne Radio System (SINCGARS) and Joint Surveillance Attack System (JSTARS) communications systems, and has had leadership roles in evaluating the Maneuver Control System (MCS) and the Combat Service Support Control System (CSSCS) components of the Army Tactical Command and Control System (ATCCS), as well as such combat support



Carl T. Russell

systems such as the Palletized Loading System (PLS). He has served in a variety of analytic, methodological, supervisory, and management positions within OPTEC.

Dr. Russell has presented and published numerous technical papers on test and evaluation of military systems. He is a Charter Member of the International Test and Evaluation Association (ITEA) and has been very active in the Army mathematical and statistical community. He served for many years on the Army Mathematics Steering Committee and its Subcommittee on Probability and Statistics and has been a leader in promoting modern descriptive statistics and the visualization of data within the Army and DOD.

Carl Russell resides in Paso Robles, California, with his wife Marlene, and their son, Chris.

# BIOGRAPHY

## Colonel Michael H. Jackson

Commander, TEXCOM Experimentation Center

Colonel Michael Jackson was born on July 13, 1950 in Honolulu, Hawaii. He was commissioned a 2nd Lieutenant of Air Defense Artillery upon graduation from the U.S. Military Academy in 1972. After attending Airborne training and the Air Defense Artillery Officer Basic Course, his first troop assignment was with Battery B, 1st Battalion (Chaparral/Vulcan) 59th Air Defense Artillery, 8th Infantry Division, Wackernheim, Germany. While assigned to the 59th ADA (1973-1976), he served as platoon leader, systems maintenance officer and executive officer, respectively.

His subsequent military assignments were: Commander of Battery B, 3rd Battalion (HAWK), 68th Air Defense Artillery, 31st Air Defense Brigade, Homestead, FL; Commander of the Franklin Recruiting Area, U.S. Army Recruiting Command, Franklin, IN; Budget Coordination Officer in the Office of the Director of the Army Budget, The Pentagon; Executive Assistant to the Comptroller of the Army, The Pentagon; Executive to the Commanding General, U.S. Army Strategic Defense Command, Arlington, VA; Executive Officer of the 2nd Battalion (Chaparral/Vulcan/Stinger), 60th Air Defense Artillery, Ramstein, Germany; Deputy Commander, 69th Air Defense Artillery Brigade, Wuerzburg, Germany; Commander, 6th Battalion (Patriot), 43rd Air Defense Artillery, Ansbach, Germany; and Deputy Director of Investment, Army Budget Office, Office of the Assistant Secretary of the Army (Financial Management), The Pentagon.

He earned a Master of Business Ad-

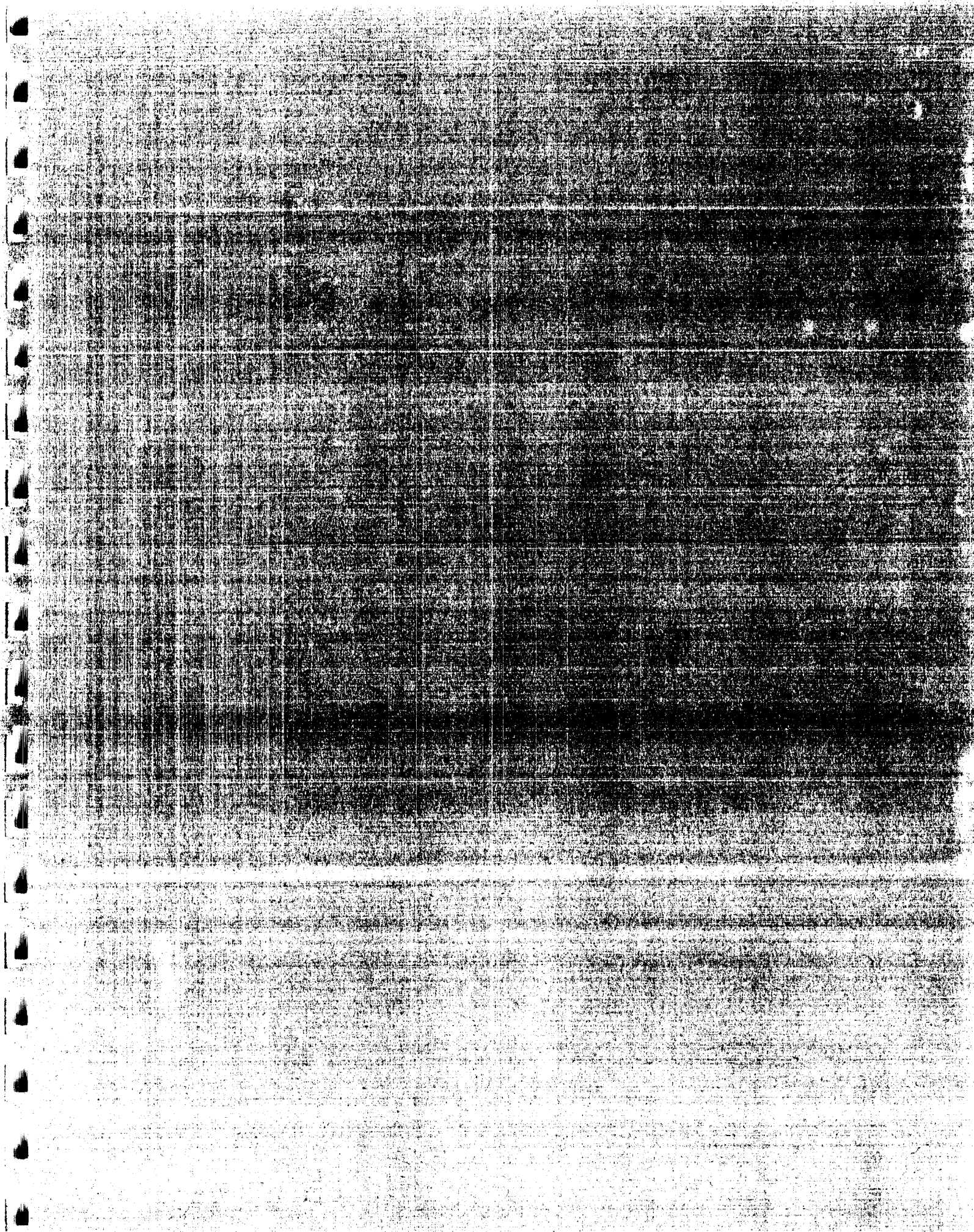


Col. Michael H. Jackson

ministration degree in Comptrollership from Syracuse University, and is a graduate of the Air Defense Artillery Officer Advanced Course, the U.S. Army Command and General Staff College and the Army War College.

His awards and decorations include the Legion of Merit, the Meritorious Service Medal (4 Oak Leaf Clusters), the Army Commendation Medal, the Army Achievement Medal, the Army Staff Identification Badge and the Parachutist Badge.

Mrs. Jackson is the former Caroline Joyce Clark.



**BRAC 95  
TEC MOVE TO FORT BLISS**



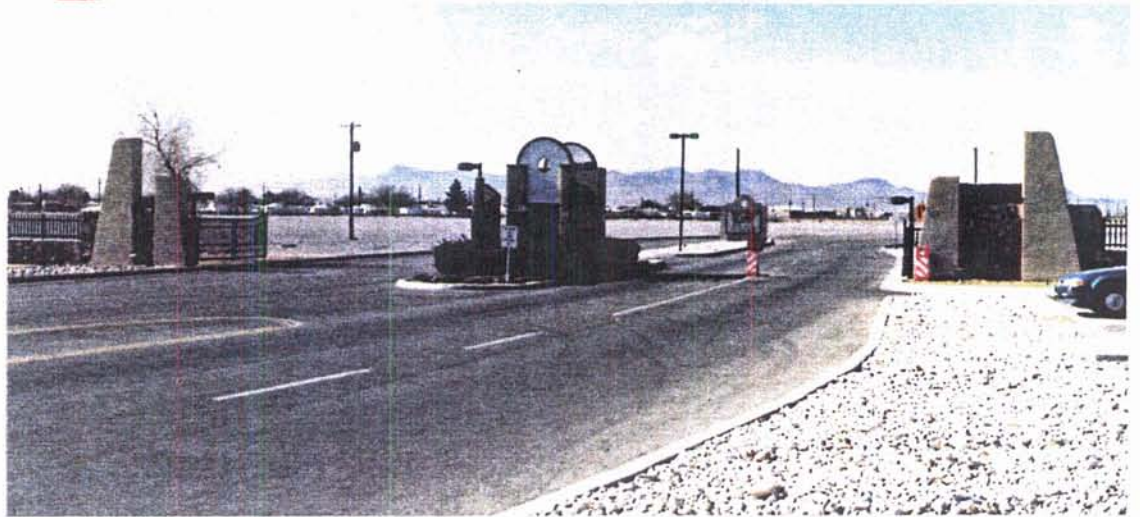
BRAC 95  
TEC MOVE TO FORT BLISS

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*Fort Bliss' entrances conveniently enter into various points of the local community, to include the El Paso International Airport. Pershing Gate provides quick access to I-10 and downtown El Paso. All entrances are manned by the Military Police.*

I.

**FORT BLISS OVERVIEW**

1. **BACKGROUND.**

a. HISTORY. Established in 1848 at El Paso, Texas, on land donated by the city, Fort Bliss evolved from a border outpost for infantry and cavalry units responsible for patrolling the Mexican border to its current role as home of the United States Army Air Defense Artillery (USAADA).

b. CURRENT MISSION. Fort Bliss is the home of and provides command and support to the ADA School, U.S. Army Sergeants Major Academy, Joint Task Force Six, and various deployable FORSCOM units, including the 11th ADA Brigade and 3d Armored Cavalry Regiment (ACR). The ADA School trains the Army's air defenders, develops air defense doctrine and organizations, and defines air defense equipment requirements. The German Air Force Air Defense School is also located at Fort Bliss. On the average, 36 other allied nations conduct their Annual Service Practice in air defense at Fort Bliss and/or maintain a permanent presence with on-going training for their students. Altogether, Fort Bliss serves 46 tenant activities and supports 33 satellite activities.

c. OPERATING BUDGET. The FY95 projected operating budget for Fort Bliss is \$260 million. Total population is approximately 26,000. The current military strength at Fort Bliss is 15,766 (includes average daily student population); projected FY95 military manyears supported are 16,097. FY95 Civilian authorizations of 4,952 do not include approximately 2,740 civilian employees working for nonappropriated fund activities, Post Exchanges, contractors, etc. Total population served by the installation is approximately 105,783.

2. **MAJOR INITIATIVES.**

a. ENHANCED ADA MISSION. Two new missions, Theater Missile Defense (TMD) and National Missile Defense (NMD), will have major impact on Fort Bliss in the areas of materiel development, testing, training and fielding new organizations and associated weapon systems. TMD includes major improvements to the PATRIOT, the creation of a new missile system designed specifically to counter the TBM threat, and development of a capability to engage TBM with the HAWK follow-on, CORPSAM. The NMD gives Fort Bliss responsibility for the ground based component of Global Protection Against Limited Strike (GPALS), which will defend the CONUS against limited ballistic missile strikes.

b. FOREIGN MILITARY SALES (FMS). Fort Bliss' extensive FMS training program is expanding. Following the Gulf War several allied nations purchased the PATRIOT Missile System. As the only installation with the range capability to fire the missile, Fort

Bliss offers training and qualification on the system to these allies. Extensive two-year Patriot training program for Kuwait has just begun.

c. RANGE IMPROVEMENTS. Efforts continue to expand and improve range and maneuver area capability to support increasing numbers of joint training and combined arms training exercises. Negotiations continue with the Air Force to relocate and enlarge the Class C bombing range, significantly enhancing joint tactical exercise opportunities. Surveillance functions are consolidated for both White Sands Missile Range and Fort Bliss. Multipurpose Range Complex allows computerized target presentation for annual testing. Efforts are ongoing to expand the railroad system to allow full rail movement to the ranges.

d. RESTRUCTURING ACTIONS. Recent Army force structure decisions will impact Fort Bliss. The 3d Armored Cavalry Regiment will relocate from Fort Bliss to Fort Carson, Colorado. The same decision will relocate the 31st, 35th and 108th ADA Brigades from Forts Hood, Lewis, and Polk, respectively, to Fort Bliss, transitioning Fort Bliss into an Air Defense Center of Excellence. All these actions will be completed by the end of FY96. BRAC 95 announcement identifies the OPTEC, TEXCOM activity located at Fort Hunter Liggett for realignment to Fort Bliss, Texas. This action should be completed in the FY98/99 time frame. These actions ensure that Fort Bliss will remain an important, vibrant part of our nation's defense.

II.

BRAC 93 MEASURES OF MERIT

a. MISSION ESSENTIALITY/SUITABILITY.

(1) Fort Bliss, with 1.1 million acres of maneuver, training and range area, to include corresponding superimposed airspace, is ideally suited for concurrently training all elements of the combined arms team. As one of the foremost desert warfare training centers, with the largest inland land mass in the free world, installation ranges support firing of every Army weapons system. The large maneuver area allows units to deploy as they would in a Theater of Operations. Contiguous maneuver areas are fully adequate to support Brigade to Division-level exercises. Based on currently withdrawn land, and with the understanding that environmental impact analysis is required, Fort Bliss could support significantly larger maneuver and exercise activities. Facilities in the cantonment area are specifically designed to support the high-tech weapons associated with ADA.

(2) Fort Bliss is ideally suited for supporting the TRADOC Battle Lab concept. Facilities, ranges, maneuver space, instrumentation, testing expertise and weather will accommodate the ADA Lab as well as many other battle labs' activities and requirements.

(3) Unique facilities include Biggs Army Airfield that routinely supports the largest aircraft in the Air Force/civilian inventory. This superb facility, with its 13,200 foot runway, is fully capable of supporting major unit deployments, other power projection missions, as well as early entry deployments. A plan is proposed for the joint use of the airfield by the El Paso International Airport (owned and operated by the city) and Fort Bliss.

(4) Weather is excellent for year-round training, providing a cross-section of seasons to enhance readiness for national defense in any potential combat environment.

(5) Fort Bliss plays an important role in the U.S. Government's counter narcotics program and serves as home to Joint Task Force Six and other law enforcement agencies involved in federal law enforcement efforts. A leader in the war against drugs, Joint Task Force Six is a multi-service agency that works closely with drug enforcement officials to help combat the flow of narcotics into the U.S.



*The El Paso Intelligence Center is an umbrella for the President's counter narcotics program. The sensitive nature of this program requires tremendous security precautions.*



*Joint Task Force Six, a multi service agency that leads the war against drugs.*

(6) Fort Bliss has a significant mobilization mission. In addition to deployment responsibility for the installation units (3rd Armored Cavalry Regiment and 11th Air Defense Artillery Brigade), under current plans 118 Reserve Component units with approximately 12,000 personnel will mobilize, train, and deploy from Fort Bliss. The 84th USAR Division (Training) will mobilize at Fort Bliss to establish an Army Training Center and AIT. Fort Bliss will also be heavily involved in refresher and reclassification training for up to 39,000 Individual Ready Reservists (IRR) returning to active duty from the training control group consisting of a spectrum of MOSSs including Air Defense, Medical and several others. Fort Bliss remains capable of rapid expansion to accommodate mobilization.

(7) During the last 5 years, Fort Bliss has made extensive improvements in the Information Mission Area. An electronic switch supporting up to 14,000 telephone lines was recently installed. Currently in the process of upgrading our telephone switch to allow another approximately 4,000 lines. Audio and video (secure capability) teleconferencing is on line. Every functional area is fully operational with ADP equipment. In the cantonment area 100% of telephone cable has been replaced.

b. QUALITY OF LIFE.

(1) Fort Bliss maintains several state-of-the-art morale, welfare, recreation (MWR) facilities, including a newly renovated olympic size indoor pool; a 52-lane bowling center, the largest in DoD; gymnasiums equipped with modern, up-to-date physical fitness equipment; 2 youth activities centers; and child care centers. Also available to soldiers and family members are The Inn at Fort Bliss and a Residence Inn operated by the ASYMCA. Recent additions to the MWR facility family include a 73-space, fully contained Recreational Vehicle Park and storage facility, a 60,000 square foot NCO Club, and banquet facility. A newly renovated picnic and outdoor recreation area, containing softball, football, and soccer fields, miniature golf, and a playground area recently opened, and renovations to another community park will begin soon. Fort Bliss also operates two 18-hole golf courses located at the Underwood Golf Complex. The complex also includes a clubhouse, locker rooms, snack bar, a restaurant, practice putting greens, a driving range, and a well stocked and supplied pro shop. The Fort Bliss Rod and Gun Facility offers a variety of activities for the hunting and fishing enthusiast. The facility includes several types of rifle, pistol, archery, skeet and trap ranges, and a pro shop, restaurant, and lounge. Quality of Life programs also include important family support programs offered by Army Community Service, the Alcohol and Drug Abuse Prevention and Control Program, and the Equal Opportunity Office. These programs provide assistance to all members of the military community in meeting personal and community problems beyond the scope of the individual's own resources.

(2) Fort Bliss enjoys an exceptional relationship with the city of El Paso and receives strong support from the community. The city has a major state university and a large junior college; and offers every amenity of a large metropolitan area such as top restaurants, ballet, symphony and minor league sports. Fort Bliss, in cooperation with Southern Union Gas Company is contracting with an energy saving contractor to install from 6 to 9 megawatts of electrical generation capacity. This plant has the potential of saving in upward of one million dollars per year in electrical cost. Contractor will finance/construct/operate the plant and will be paid from the savings. El Paso is adjacent to Fort Bliss on two sides.

(3) William Beaumont Army Medical Center reflects the latest developments in military medicine. The center operates more than 65 specialty outpatient clinics and serves as a Trauma Center for the southwest region. The VA is constructing an outpatient building adjacent to the Center. This partnership will consolidate services and provide excellent treatment to veterans as well as to a large active duty and retired population.

c. OPERATIONAL EFFECTIVENESS. The cost of stationing soldiers at Fort Bliss is advantageous. BASOPS support is relatively inexpensive; with an average civilian labor rate of \$40,932 and military manyear variable cost factor of \$2,096. Variable Housing Allowance costs are minimal.

d. EXPANDABILITY.

(1) Fort Bliss occupies 1.1 million acres of land and, in combination with White Sands Missile Range (which it adjoins), offers a land mass of over 3 million acres that may be used to support future training and strategic initiatives. Fort Bliss has over 1,500 square miles of airspace; in combination with WSMR the total is 6,500 square miles. Current firing ranges totaling more than 608,749 acres can support any conventional weapon in the Army inventory and can be expanded subject to environmental considerations. Eight maneuver areas totaling 915,455 acres can support ARTEPS and field training exercises up to and including division level.

(2) Fort Bliss is meeting its environmental stewardship responsibilities through programmed agreements with state and federal regulatory agencies. Efforts are well underway in both the cultural and natural resource arenas. The integration of these programs into training needs will ensure the proper balance is struck between training and environmental stewardship.

4. OTHER CONSIDERATIONS.

a. WATER AVAILABILITY. Fort Bliss obtains water from its own well fields and from the city of El Paso. The city relies upon two primary sources of water - the Rio Grande River and underground

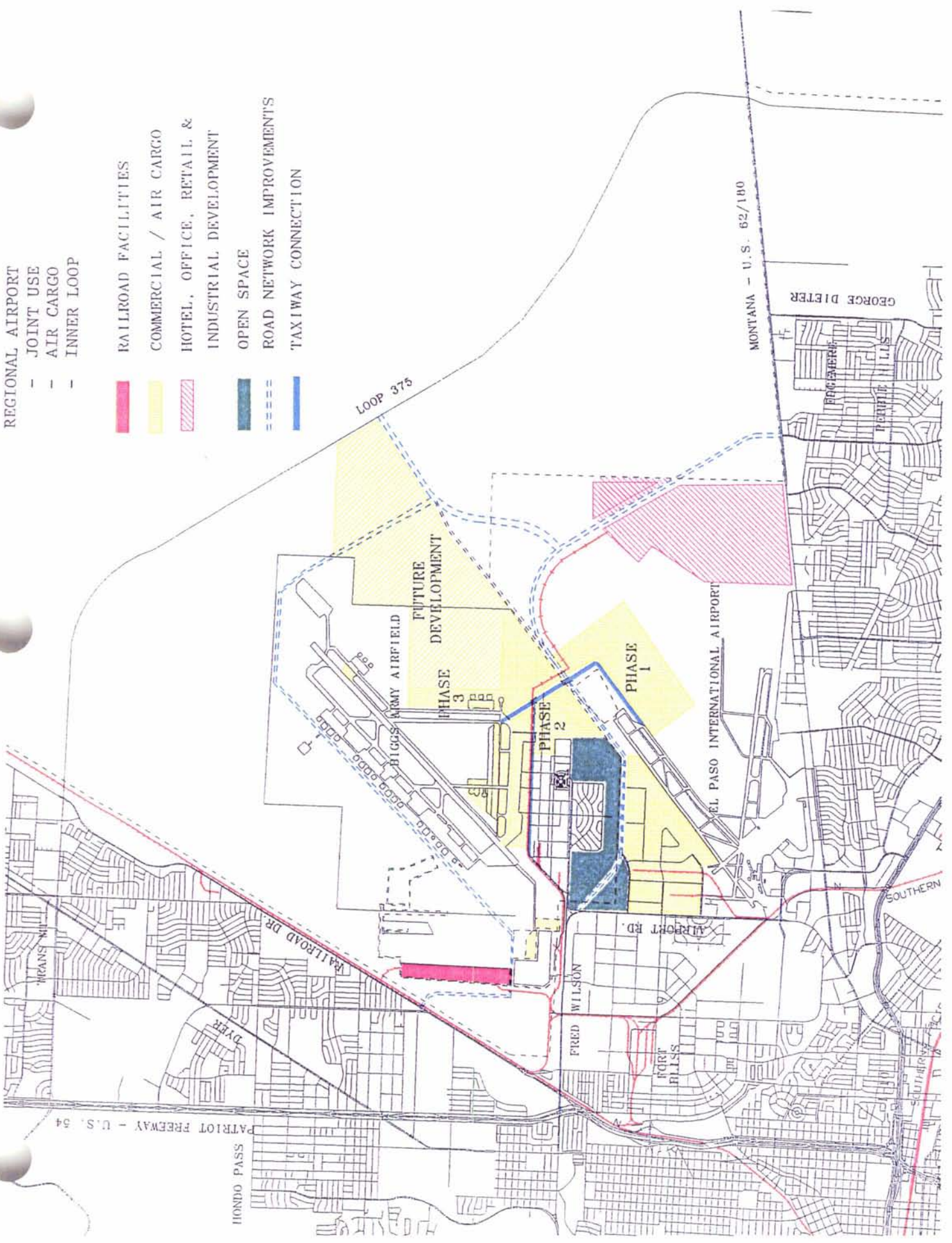
bolsons within the area. Studies commissioned by El Paso indicate an adequate supply for the next fifty years and beyond. As insurance, the city is acquiring additional water from underground bolsons within the Trans-Pecos area. Fort Bliss is also entitled to additional water underlying upland training areas. Thus, water is available to meet potential growth for years to come.

b. EL PASO FEDERAL PRISON CAMP. Fort Bliss is supported by inmate labor from the camp located at Biggs Army Airfield. The availability of inmate labor allows soldiers the opportunity to concentrate almost entirely on training. Use of inmate labor provides substantial value and added benefits to the installation support base.



REGIONAL AIRPORT  
 - JOINT USE  
 - AIR CARGO  
 - INNER LOOP

- RAILROAD FACILITIES
- COMMERCIAL / AIR CARGO
- HOTEL, OFFICE, RETAIL & INDUSTRIAL DEVELOPMENT
- OPEN SPACE
- ROAD NETWORK IMPROVEMENTS
- TAXIWAY CONNECTION



MONTANA - U.S. 62/180

PATRIOT FREEWAY - U.S. 54

HONDO PASS

WALLROAD DR.

DYER

FRED WILSON

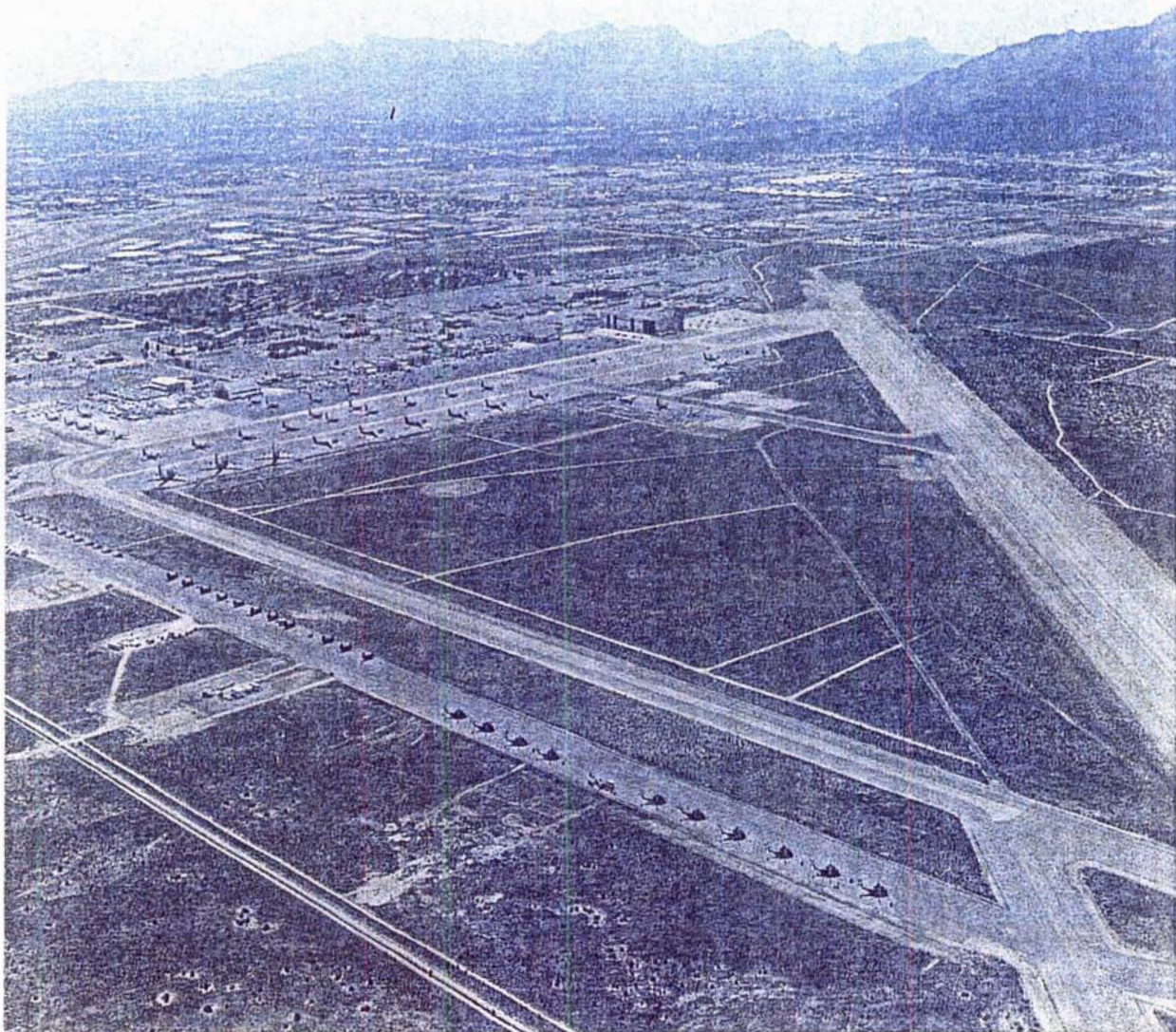
AIRPORT RD.

FORP  
HILLS

TUTO  
ALD

SOUTHERN  
SOUTHERN

GEORGE DIETER  
PROCANE  
PEROTE



*Biggs Army Airfield, with a 13,200 x 300 ft. runway and four major taxiways, supports the largest aircraft in the military/civilian inventory.*

### III.

#### BASOPS SUPPORT

##### a. TELECOMMUNICATIONS SUPPORT.

(1) **Satellite Access.** Fort Bliss' Microwave communications voice/data also serve four test firing ranges: McGregor, Dona Ana, Oro Grande and White Sands Missile Range. These ranges operate via remote ESSs hosted by the SL-100 ESS. The remote ESSs also have expandable line capacity. Strategic communication links are currently in use by Forces Command at Fort Bliss. These are easily expandable to meet further requirements.

(2) **Defense Secure Network.** Intelligence communication systems are currently in use by Joint Task Force Six, Biggs Army Airfield. This system is expandable to meet further requirements by going through Fort Hood or Fort Huachuca.

(3) **Autodin Circuits** are available, with an unlimited expandability capability.

(4) **Capacity of DCO.** Fort Bliss is equipped with a Northern Telecom Meridian SL-100 Telephone/Data Electronic Switching System (ESS). It currently has a line capacity of 6,790 and can be expanded to 13,000 lines. ESS expansion is currently in progress.

(5) **GENSER/DSSCS** was installed March 1993 and is operational. Fort Bliss has a modern, updated communication center that has recently replaced all of the DCT 9,000 message equipment. The center has the capability of being operational 24 hours per day/seven days per week.

(6) **DDN.** The Defense Data Network is in place and operational.

(7) **DSNET Connectivity.** Service can be provided through Fort Huachuca. We can assist users in receiving service.

(8) **DSN/Commercial Lines.** The FTS 2000 system is available and can be expanded.

(9) **DS/GS C-E Maintenance Support.** Support can be provided either in-house or by contract, depending on type of service needed.

(10) The electromagnetic spectrum at Fort Bliss is controlled by the DOIM Frequency Management Branch. The branch coordinates, assigns and controls all radio-radar frequencies in use at Fort Bliss and William Beaumont Army Medical Center (WBAMC).

Frequency Management functions are controlled IAW AR 5-12, the Standard Frequency Actions Format, and NTIA manual. The DoD Area Frequency Coordinator located at White Sands Missile Range (WSMR),

New Mexico is the authorized DoD representative in this area and is the assignment authority for all frequencies used at Fort Bliss and WBAMC. The DoD Area Frequency Coordinator receives technical guidance from the U.S. Military Communications Electronic Board (USMCEB) and the Joint Chiefs of Staff, if required.

b. AUTOMATION SUPPORT.

(1) The Data Processing Center (DPC) complex consists of approximately 2,800 sq ft of raised floor space that houses the IBM mainframe and supporting peripherals. If staff is available, the center can be operational on a 24 hour basis. The DPC provides the following support to the installation and tenant organizations:

- **STAMIS Support.** Army Standard Information Management System (ASIMS) provides support for SAILS, SIDPERS, STANFINS, ITAADS, SRD1, STARCIPS, STARFIARS. The tactical DS4/DS3 is supported through Objective Supply Capability (OSC) and DS4.

- **Maintenance.** Automation maintenance support for both classified and unclassified.

- **Software Support.** Program development services for PC based applications, i.e., macro based programs for applications in LOTUS 1-2-3 and programming in DBASE III and IV.

- **NSA PLATFORM** connectivity allows access from PC to the mainframe.

- **Defense Data Network (DDN) Connectivity** (previously DSN) is available and operational.

- **E-Mail.** The Professional Office System (PROFS), IBM's electronic mail program, is utilized throughout the installation. Communications via PROFS is primarily through the Fort Bliss telephone cable system. The connectivity to PROFS within the building proper is for the older buildings via coaxial cable; the newer buildings via the telephone lines. The PROFS capability is expandable.

- **Installation Support Modules (ISM)** supports two groups:

- TRADOC ISMS (IBM mainframe): RAIDERS, IPBO, military personnel system, clothing issue facility, vehicle registration, reception station, work order management system, and security tracking system.
- DA ISMS (Client/servier network): Drug and alcohol information management system, transition processing, transition orders, personnel locator, inprocessing, outprocessing, education management information system, master schedule activities, SIDPERS, SAILS, ITAADS, STANFINS, SRD1, STARCIPS, STARFIARS, DS4/DS3.

- Process classified information on KG34 (being upgraded to KG84).

- Implements and trains installation employees on new MACOM programs.

- Customer Support Division provides overall planning for acquisition of new/replacement equipment.

(2) At the present time the Director of Information Management (DOIM) is reviewing a proposal from IBM to upgrade the current mainframe. In addition, another MACOM (AMC) is considering opening a PC repair center in conjunction with the local DOIM.

c. MAINTENANCE SUPPORT.

(1) **Aircraft Maintenance.**

(a) Aviation Intermediate Maintenance provides AVUM/AVIM and limited Depot Maintenance. Aircraft maintenance is contract at Biggs Army Airfield. The following services are available: Aircraft Survivability Equipment (ASE) Repair (Classified); Non-Destructive Inspection (NDI) to include surface, magnaflux, Eddy Current and ultrasound; engine repair, starter/generator overhaul; electronics/company repair to include transponders; OSHA/Texas Air Quality board approved paint booth; temperature controlled prop & rotor repair; metal fabrication/sheet metal repair, heat treating ovens/furnaces; turn table for NDI of aircraft landing wheels; certified aircraft welding, machine/millrite services; hydraulic and powertrain repair, hydraulic test stand up to 10,000 PSI; mobile nitrogen services 0-5,000 PSI; ultrasonic cleaners; ground support equipment service and overhaul; aeronautical hose and line fabrication and testing up to 10,000 PSI; Aviation Life Support Equipment (ALSE) services.

(b) The installation provides contract administration, Quality Assurance - Aerospace to include upper level quality - MIL-I-45208A and MIL-Q-9858A and Government Property Administration (FAR Part 45.5). The ATCOM, CECOM and MICOM LARs are located in Bldg 11202.

(2) **DS/GS for Maintenance Support for Conventional Equipment.** The installation TDA maintenance activity has the skills, equipment and facilities necessary to provide Direct Support and General Support maintenance on the following commodity groups: aircraft, air defense systems, artillery weapons, tanks, combat vehicles, tactical vehicles, communication and electronic equipment, construction equipment, materiel handling equipment, non-tactical vehicles and office machinery. A new 14 million dollar, 112,000 square foot Field Maintenance Shop will be completed in June 1996, which will provide efficient, one-stop maintenance service to all customers.

(3) **Calibration TSO Support.** Army Materiel Command (AMC) operates a TMDE support activity on Fort Bliss.

d. SUPPLY SUPPORT.

(1) Fort Bliss uses the following Standard Army Systems: SAILS (OSC, SPBS-R, TACCS-AMMO, ULLS-G); STANFINS; STARFIARS; SIDPERS; ITAADS; ISMs (RAIDERS, LOGMARS, TAAAS, CIF/CIIP); AFMIS; TOPS; TC ACCIS; IWARS; and IMCRSR.

(2) **Supply Classes.** Class I, II, III, IV, V, VII, IX supplies can be obtained from the Supply and Services Division of the Directorate of Public Works and Logistics (utilizing the SAILS System). Supply support is provided by government credit card, plus direct delivery contracts with GSA.

(3) **Administrative Vehicles.** Administrative vehicles can be provided on a reimbursable basis.

(4) **Installation Property.** Quantities of available installation property on-hand vary based on activation/inactivation of units and organizations. However, Installation Property can be purchased with unit funds.

(5) **DRMO.** The Defense Reutilization and Marketing Office (DRMO) is located at Biggs Army Airfield and provides a turn-in point for any excess/surplus property turned in from Fort Bliss and surrounding areas. It serves as a source of supply for new or used items. Fort Bliss receives first priority in DRMO's list of DoD, Federal and State agencies.

(6) **Central Issue Facility (CIF).** A CIF is in operation at Fort Bliss. Activities drawing CIF supplies are charged based on cost of replenishment requisitions. Cost is prorated for each activity by the number of personnel authorized.

(7) **Contract Support.** The Directorate of Contracting (DOC) provides supply and services Blanket Purchase Agreements (BPA), and over the counter small purchases. They prefer credit card use for small items (unit may use DOC's credit card until such time as they obtain their own). Currently, secure contract support is provided on a limited basis only.

e. VISUAL INFO SUPPORT (GRAPHICS/TELECONFERENCING/PRINTING).

(1) Training Services Division of DPTMS can provide visual information support to the battalion in the following:

- Graphic arts
- Still photography
- Video and audio recording for non-production documentary purposes

- Still video
- VI library services
- VI equipment loan and maintenance
- Display/exhibit fabrication

Services include the purchase, lease, or rental of off-the-shelf commercial VI equipment and productions for local use, television production to include editing, limited local reproduction of completed video tapes, and graphic production of VGTs, charts and posters.

In addition, Fort Bliss has a first class (secure and nonsecure) Video Teleconference facility, providing direct face to face communication via audio and video links with up to 25 installations simultaneously. Equipment allows transmission and reception of viewgraphs, 35mm slides, photographs, hard copy, high resolution graphics, video tape (VHS) and paper copies of anything under discussion. The center has the capability of communicating up to "SECRET" on a point to point conference.

(2) The Defense Printing Service (DPS) - Fort Bliss has the printing equipment in place to meet most mission related printing requirements.

- Backup support is obtained from the Government Printing Office (GPO), established direct deal contracts and DPS facilities at other CONUS installations.

- Accounts are established directly with the DPS.

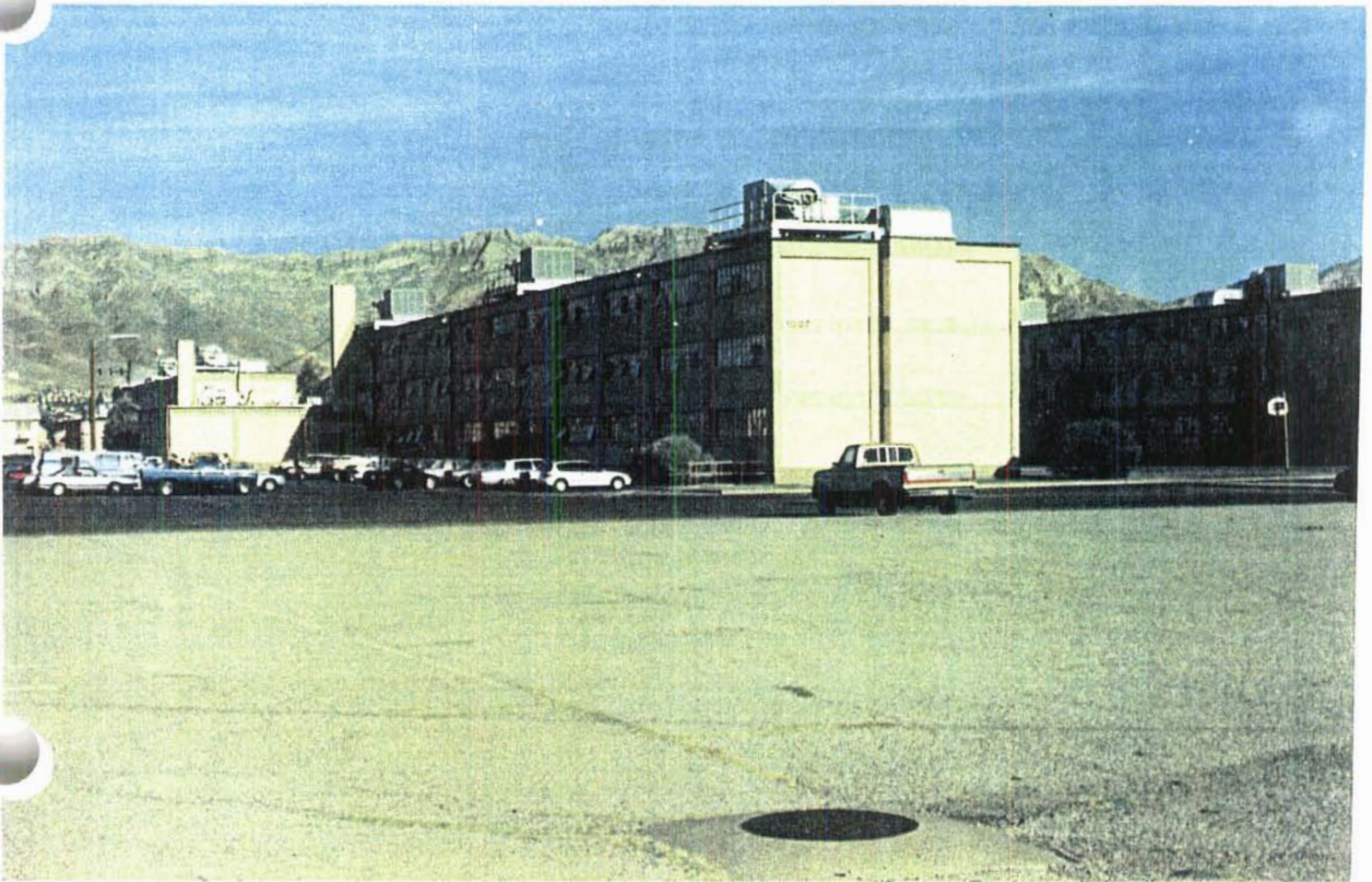
- Routine printing requirements can be expected to take 1-3 days. Specialized printing and classified jobs are programmed in accordance with customer needs, equipment capability and workload projections.

f. ENVIRONMENTAL. In February 1993, the CG established the Environmental Directorate. This directorate is structured and staffed to proactively achieve compliance with environmental laws and regulations. This pro-active approach with agencies in both cultural and natural resources has resulted in significant increases in land use by military trainers.

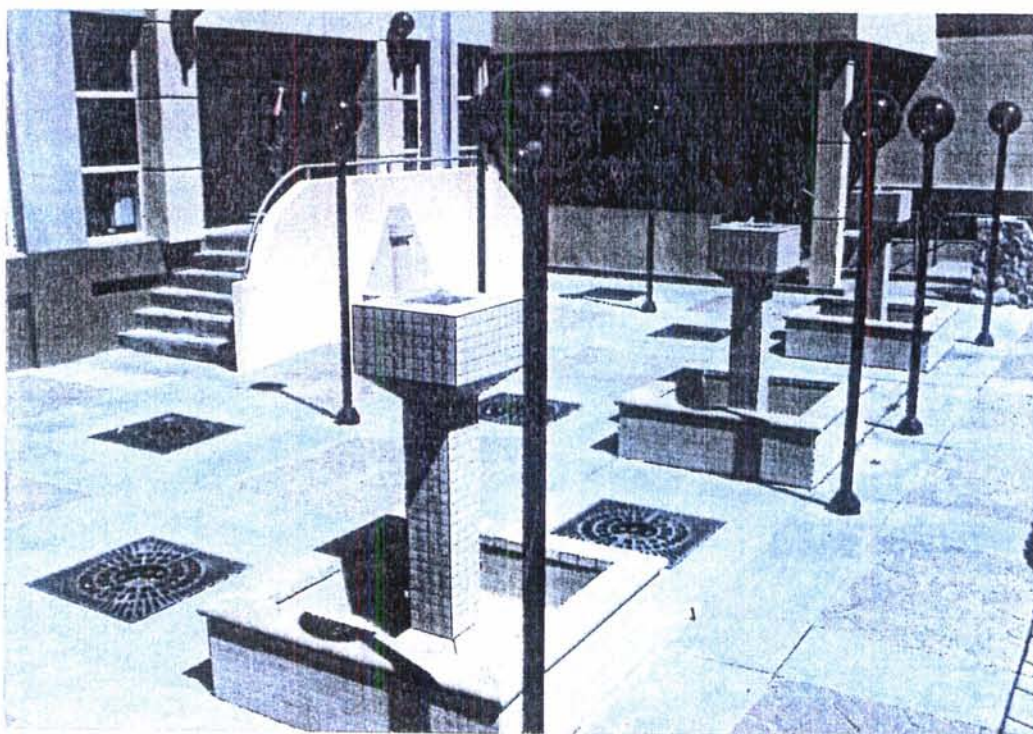


*Soldiers live in modern facilities that compare with local apartments. Barracks also feature television rooms, game rooms and kitchenettes located in common areas.*





Fort Bliss has approximately 6,720 existing permanent, unaccompanied enlisted barrack spaces. There are 4,382 scheduled to be modernized and 2,092 substandard spaces programmed for replacement during FY 96-01.



*The Cav House provides a relaxed atmosphere and features separate nacho, ice cream, salad and popcorn bars, in addition to their buffet and a la carte menu.*

g. TRANSIENT QUARTERS FOR TDY PERSONNEL. Fort Bliss has approximately 695 spaces available for use by TDY personnel and students. We also maintain Distinguished Bachelor Quarters (DBQ) for VIP visitors. In addition, the Fort Bliss Inn, with 103 rooms, provides transient lodging to active and retired military service families and their guests. The facility has 36 rooms with kitchenette units. An expansion project for 55 rooms is planned for the near future.

h. LAUNDRY. A Government-operated laundry is run by Federal Prison Industries. Person clothing is by over-the-counter service only. Pick-up and delivery service is provided for linen and Organizational Clothing and Individual Equipment (OCIE).

i. MILITARY CLOTHING SALES STORE. Fort Bliss has a full service clothing sales store. With a one-month notice they can stock clothing/requirements for an incoming unit. Open every day of the week, the store averages monthly sales of \$420,000.

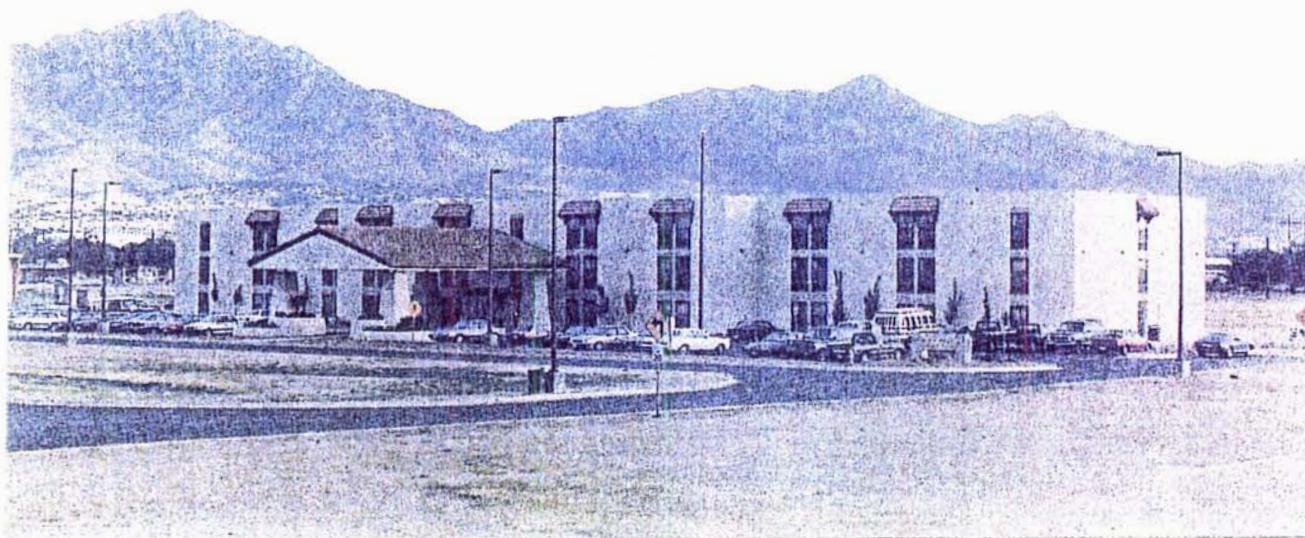
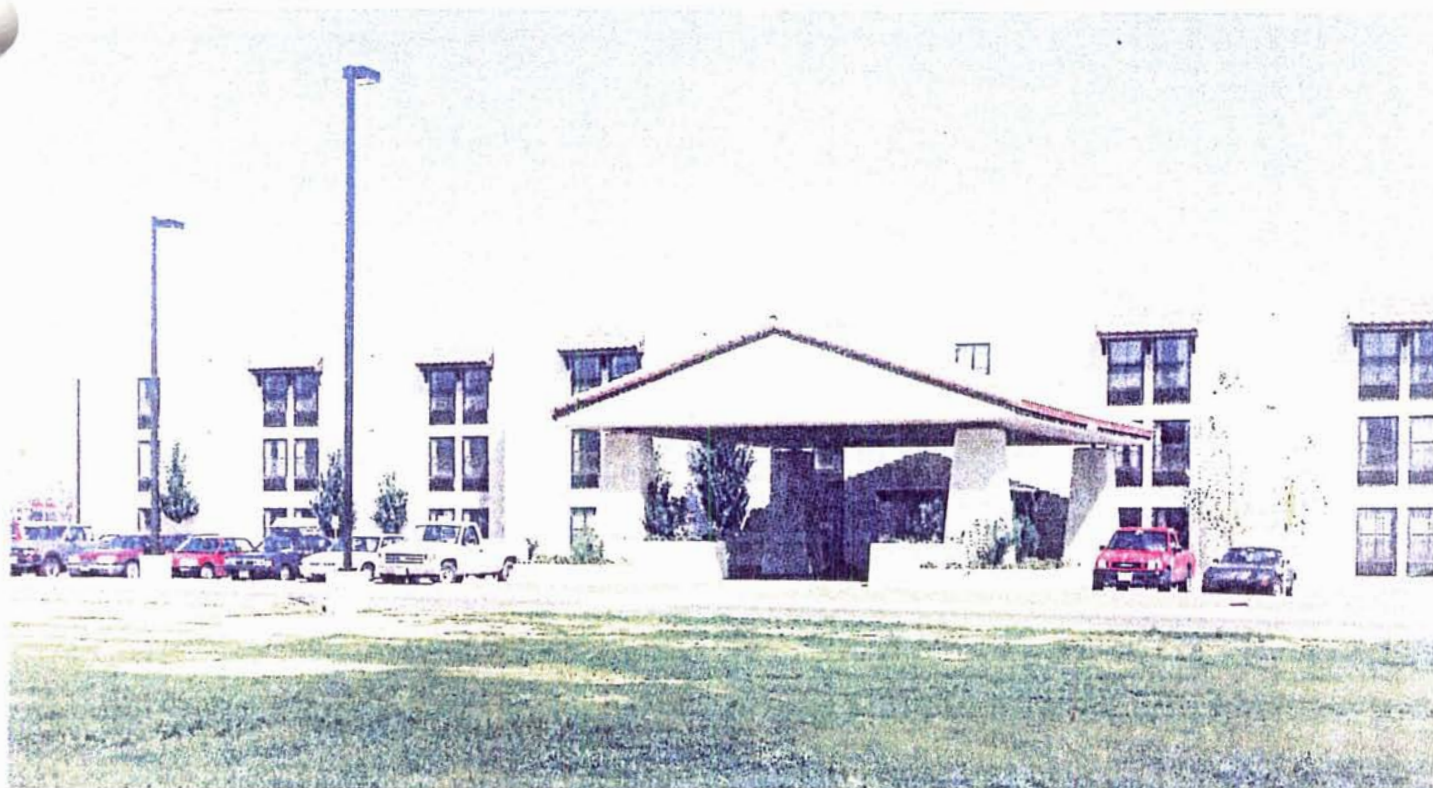
j. FIRE AND POLICE SUPPORT.

(1) Fire. The Fire Prevention and Protection Division has four fire stations, each responsible for a 5 mile radius. Response time averages 3 minutes. Fifty percent of our firefighters are Emergency Medical Technician (EMT) certified. The division received 100% on their last three Operational Ready Inspections (ORI).

(2) Police. The Provost Marshal's Office (PMO), supported by the Law Enforcement Battalion (LEB) and the 978th Military Police Company, plans and provides physical security, crime prevention support and police service support for the Fort Bliss community. The PMO's Physical Security Plan requires a 3-5 minutes response time for Level A (maximum security level) areas. They presently monitor and respond to an on-site SCIF. A 15 minute response is required for Level B (advanced security level) areas, i.e., ammunition and explosives. Other areas are responded to ASAP. Fort Bliss is a secure military installation with Military Police stationed 24 hours per day/seven days per week at 11 gates located across the post. The main post area is bordered by a six foot chain link fence to ensure physical security.

k. CLASSIFIED DESTRUCTION FACILITY. A facility, located on the main post and operated by the Engineers, is open two days a week. The material is shredded in the presence of the requestor, mixed with water and pulverized. The pulverizer is able to handle volume shredding.

l. LEGAL SUPPORT. The Staff Judge Advocate (SJA) administers military justice, furnishes legal advice and services on civil and administrative law matters and processes claims for and against the government. The Legal Assistance Office of the SJA provides legal counseling and guidance to active duty and retired military personnel and their family members. Services provided cover the



The 103 room Inn provides lodging to active and retired military service families and their guests. The facility has 36 rooms with kitchenette units. An expansion project for 55 rooms is planned for the near future.

full spectrum of civil law, including but not limited to family law, consumer law, wills and estates and landlord/tenant law. The SJA also provides free tax service to military, their dependents and retirees.

m. FINANCE SUPPORT. The Defense Accounting Office - Fort Bliss and the 105th Finance Bn are collocated on main post and provide all financial and accounting services to include military and civilian pay and TDY services.

n. PERSONNEL CENTERS.

(1) Civilian. The DCP provides civilian personnel services for all appropriated and nonappropriated fund organizations. They develop, monitor and maintain civilian personnel programs designed to obtain, train, develop, use, compensate and retain a qualified work force.

(2) Military. The Director of Military Personnel (DMP) manages installation military personnel and retirement services. To improve "soldier care", the DMP recently opened a One Stop In/Outprocessing Center with representatives from housing, finance, personal property, transportation, security, education, PMO post vehicle registration, legal assistance, dental and medical collocated in one building. Also in the center are the ACS lending closet and food locker, ACS counseling services and wives' programs, club system and wives' clubs representatives, and the Texas Vehicle Registration office. The concept of the center is to move information, not people, and fully utilize automation and Enhanced Inprocessing Program (EIP) modules.

o. MILITARY HOSPITAL AND DENTAL FACILITIES.

(1) Military Hospital. William Beaumont Army Medical Center (WBAMC), one of seven U.S. Army medical centers in the nation (321 beds), has the capability to provide quality health care for the additional population associated with this relocation. The center operates more than 65 specialty outpatient clinics and serves as a Trauma Center for the southwest region. The Veterans Administration is constructing an outpatient building adjacent to the Center. This partnership will consolidate services and provide excellent treatment to veterans as well as to a large active duty and retired population.

In addition to routine medical care capabilities, WBAMC has specialized care available to include:

Pediatrics and Adolescent Medicine  
Obstetrics and Gynecology  
Same day surgery - Trauma Center with Level II  
Emergency Room  
Hematology/Oncology Medicine  
Allergy Specialized Care

Nuclear Medicine  
High Tech Radiology Service  
Physical and Occupational Therapy  
Residential Treatment Facility for substance abuse

The Consolidated Troop Medical Clinic located on main post offers service with full ancillary support services, x-ray, pharmacy and laboratory.

A Refill Pharmacy, located in the main Post Exchange complex, makes prescription refills more convenient for WBAMC patients, while simultaneously relieving congestion at the main Outpatient Pharmacy in the Medical Center. Patients may refill prescriptions by walking-in, or by using the mail-in or phone-in services.

(2) Dental Facilities. The U.S. Army Dental Activity (DENTAC) operates five dental clinics - three on main post, one at WBAMC and one at White Sands Missile Range. These clinics provide most dental specialty services and also serve to support a graduate level dental residency training program. Dental care for family members is provided on a space available basis, and nonduty dental care is available at the WBAMC Dental Clinic.

(3) Off-post services are discussed in Part IV, Community Services.

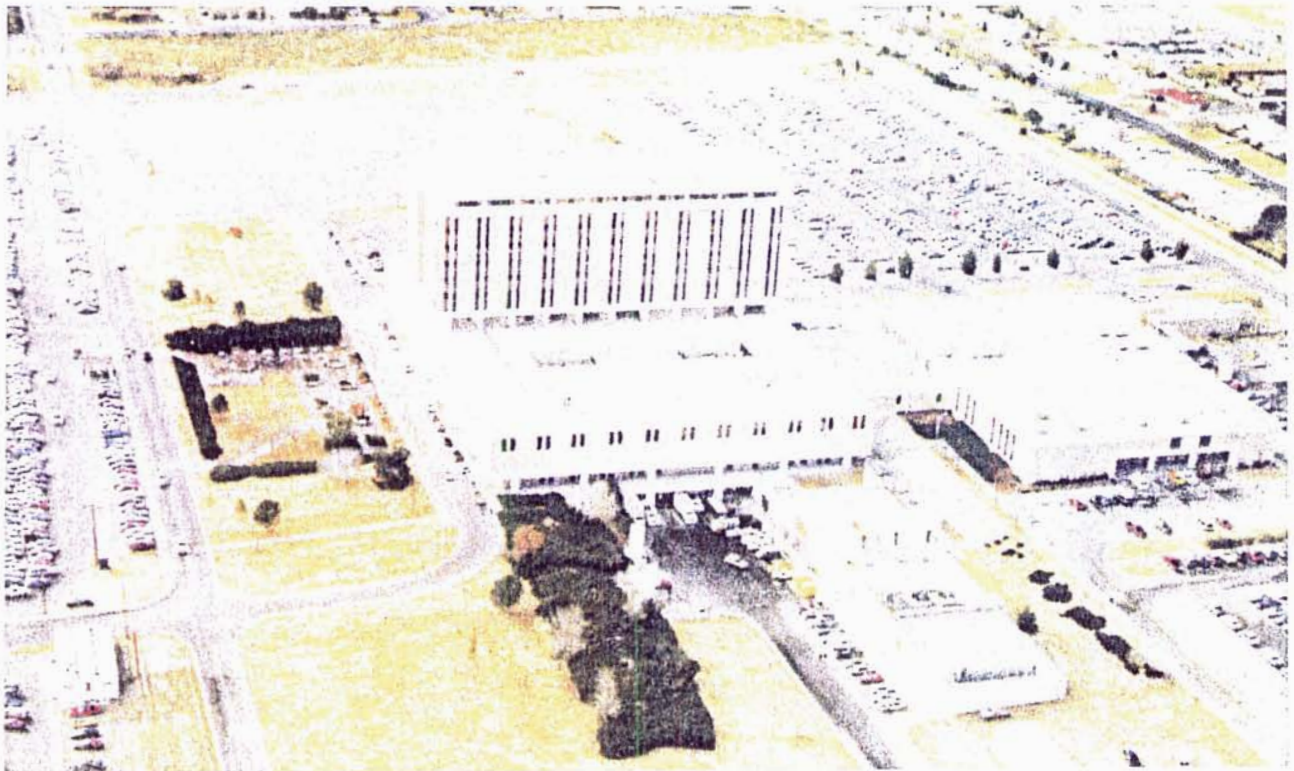
p. BASOPS COSTS.

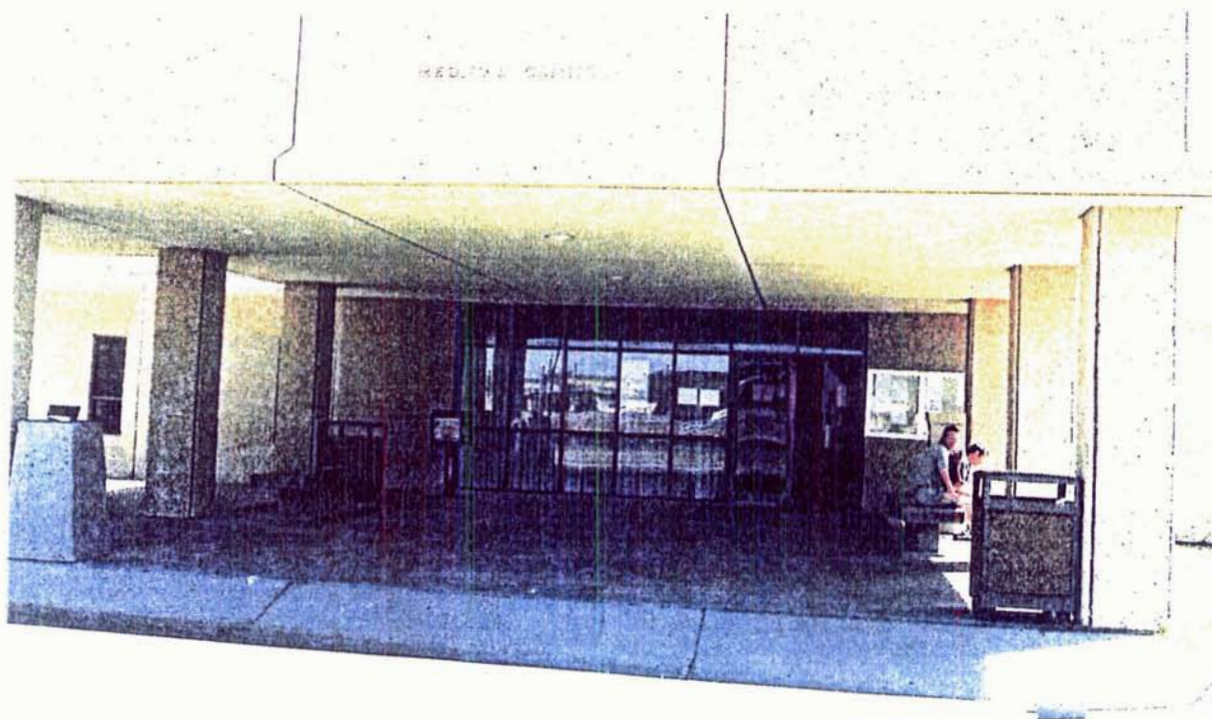
(1) Cost for all engineer functions total \$2.53 per square foot (utility cost rate \$.84; maintenance, \$1.05; other engineer support \$.64). Communications rates will vary based of type and amount of communication equipment needed and location of the battalion.

(2) BASOPS support is provided to all OMA funded tenant activities on Fort Bliss based on military manyears supported. Support required over that amount which can be funded by the installation base operations activities will be provided on a reimbursable basis as specified by an Inter-Service Support Agreement (ISSA). Fort Bliss has an average civilian labor rate of \$40,932, well below that of any major TRADOC installation. Military manyear variable cost factor is \$2,096.



William Beaumont Army Medical Center, one of three Army regional centers, services West Texas, New Mexico and Arizona. This 321-bed hospital provides both inpatient and outpatient care. It also serves as a Trauma Center for the local population.





*The Consolidated Troop Medical Clinic, adjacent to the Troop area, handles routine medical and dental concerns of the soldiers.*



IV.

QUALITY OF LIFE

Fort Bliss has been a TRADOC Communities of Excellence (TCOE) award winner since the program began in 1985. Our awards include Best Long Range Planning, Best Engineering and Special Recognition for Space Management.

Our Family Support Programs remain unsurpassed; many have become the model for the Department of the Army. Our Family Action Initiatives, spearheaded by the Installation Family Action Council, reaffirm our commitment to identify and resolve problems faced by soldiers and civilians and their family members.

a. Fort Bliss community facilities include:

(1) COMMISSARY. The Commissary is consistently recognized as one of the best in DoD. Surveys conducted by Army Times, the Defense Commissary Agency and the installation's Directorate of Resource Management all reflect a much higher percent of customer satisfaction at Fort Bliss compared to that at other posts. The commissary was expanded from 35,000 to 62,000 square feet - making it the third largest commissary in DoD and DECA. Grand opening is scheduled 25 April 1995, featuring a new deli, bakery, fish market and an expanded produce area.

(2) AAFES. The Army and Air Force Exchange Service (AAFES) maintains a wide variety of retail merchandise, food and service outlets, including: barber and beauty shops, florist, optical shop, personal services, laundry/dry cleaning, Mexican gift shop, video movie rental, equipment rental, car rental, Western Union, and a picture frame shop. Several new facilities have opened recently - a 6,000 sq ft furniture/appliance store, auto parts store, and a book store. Main store sales for 1994 totaled approximately \$48 million.

(3) CHILD CARE. Child Development Services (CDS) provides a multitude of child care services at two Child Development Centers. Services include: weekly and hourly child care; before/after school care for first through sixth grade children; preschool programs; and a kindergarten class. In addition, Family Child Care is available (geared toward infants, toddlers and exceptional family member children) and provides extended hours and child care for field duty and TDY. The homeprovider is subsidized by the Child Development Center to assist families in financial need. At the Child Development Centers, there is no waiting list for kindergarten and school age children; a short wait for preschool children during the school year; and at least a year's wait for infants and toddlers. Normally, there is no wait for the Family Child Care (in-home) program. At the present time, the Director of Community Activities is actively seeking funding for one new child care center.



PX had \$48 million in sales for 1994. There are plans for a new Home and Garden Store to be completed in FY 95.

The Commissary was expanded from 35,000 to 62,000 square feet - making it the third largest in DOD and DECA.





*Fort Bliss Child Development Center provides professional day care programs for example: structured developmental and summer; before/after school; and full day/part day and hourly care. Also has a staff of in-home child care providers with flexible hours.*



(4) YOUTH SERVICES. The Family and Recreation Division Youth Plex is available for family members between the ages of 6 through 19. Year-round activities include dance, gymnastics, art, swimming, karate, tennis and piano. Additional programs offered include: Junior Achievement, Junior Lions (Leo's Club), a school-age latchkey program and a computer learning center. Seasonal activities offered include football, fall and spring soccer, basketball, T-ball, baseball, and a large "Summer Fun" program.

(5) EDUCATION. Fort Bliss lies within the El Paso Independent and the Ysleta Independent School Districts. Three elementary schools are located on Fort Bliss. Both districts include grades pre-kindergarten through 12, Special Education Programs, and Gifted Education Programs. In addition, both offer active PTA and volunteer programs. DPTMS, Education Division staff includes a Public School Liaison representative who offers assistance to military families new to Fort Bliss or who have special needs.

Education Division of the Directorate of Plans, Training, Mobilization and Security (DPTMS) provides a full range of education services for soldiers and family members.

- Three on-post colleges (Park College, Webster University, and El Paso Community College) offer courses leading to associate, bachelor, and masters degrees.

- Campus classes are offered by the University of Texas at El Paso and New Mexico State University.

- Self-development learning centers are located in troop areas with professional counselors available to help identify individual educational needs.

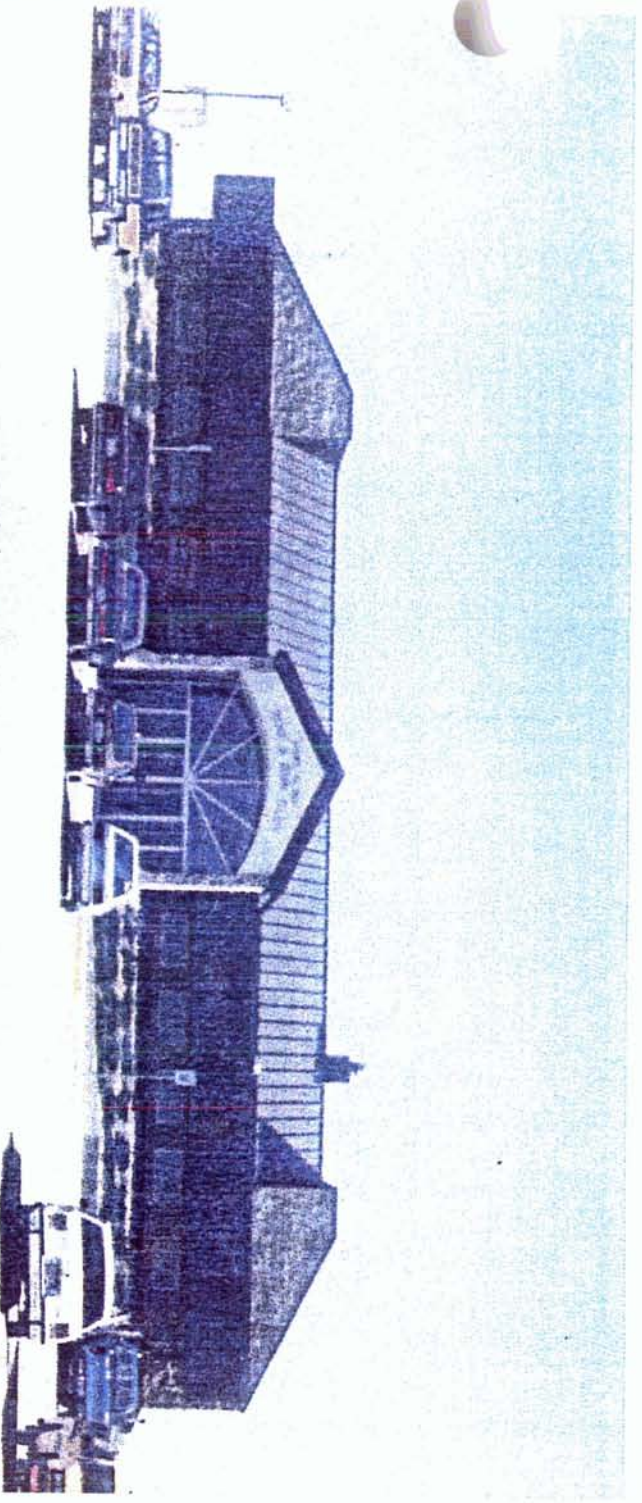
- A full range of other courses include MOS improvement training, Unit Level Logistics System (ULLS) training, computer literacy courses, Functional Area Skills Training (formerly BSEP), and education transition services. A learning lab includes CD-interactive training. A large testing program offers academic testing, Skills Development Testing, tests for credit, and Army Personnel Testing.

- A new program in Texas offers assistance for exiting soldiers who want to become certified public school teachers.

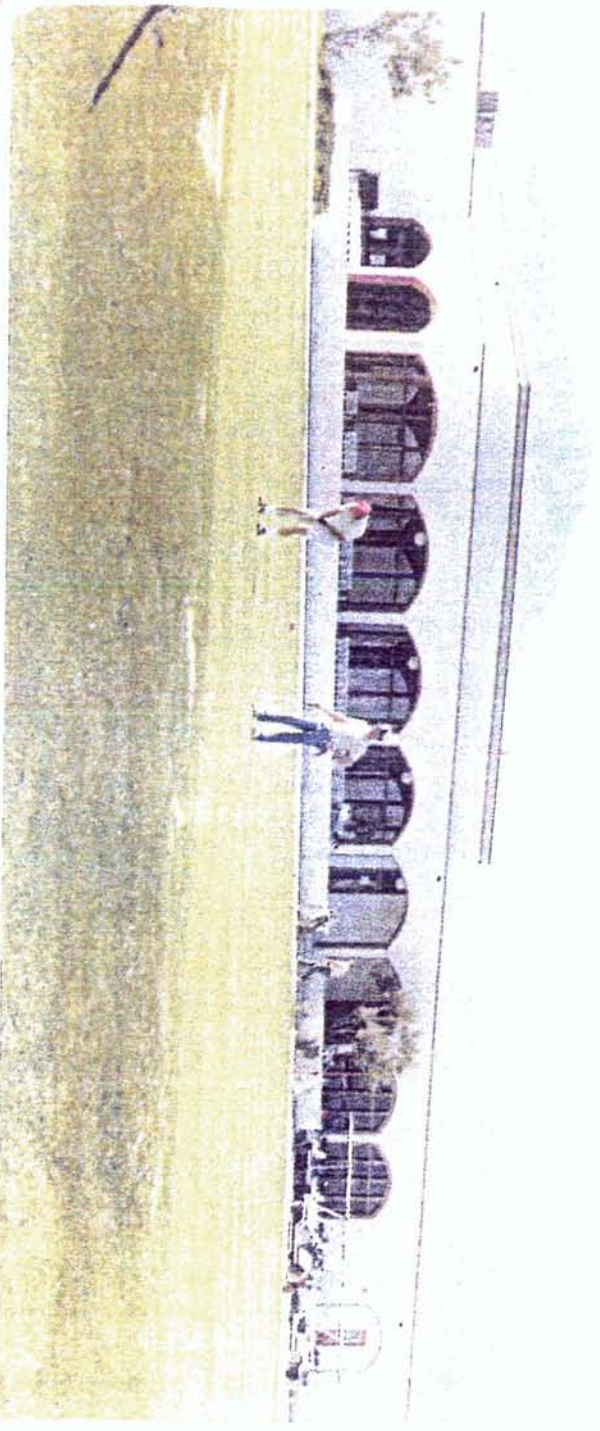
(6) MWR. The MWR corporate vision and innovative organizational structure make it a model throughout Army. Fort Bliss established an aggressive commercial sponsorship program that supports MWR events, including goods, equipment, services and funds. Last year the program's support to the Fort Bliss community exceeded 880,000 dollars in funds, goods, and services. MWR offers the soldier a myriad of activities and programs. Some include:



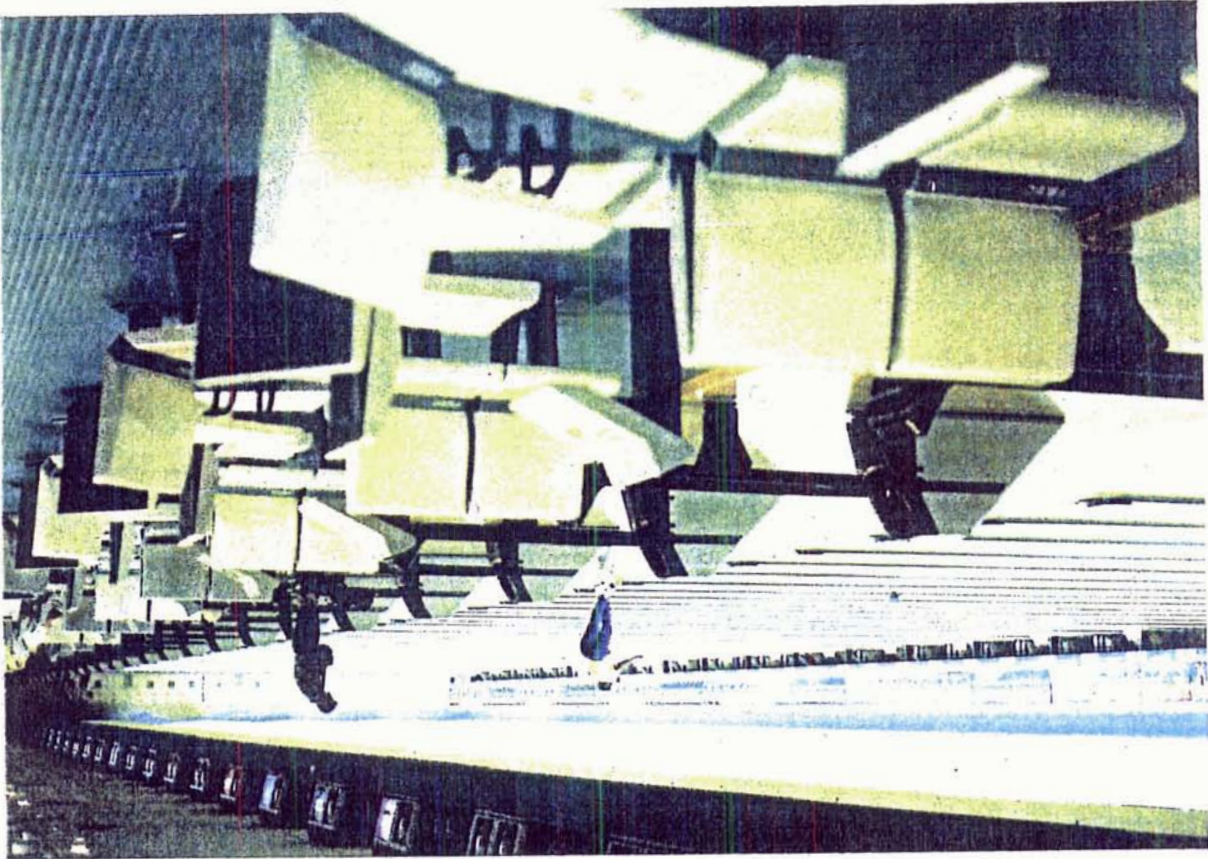
The Stout Physical Fitness Center, features three basketball courts, six racquetball courts, locker rooms with saunas, cardiovascular room, large free weight room and pro shop.



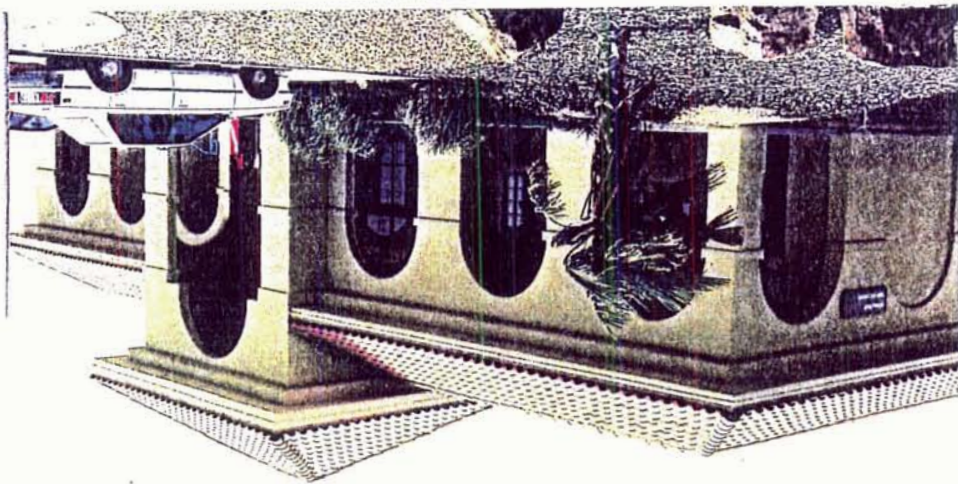
*The Rod and Gun Club, opened in 1992, includes rifle, pistol, archery, skeet and trap ranges, a pro shop, restaurant, lounge, meeting room and a club information center. Various activities are scheduled throughout the year for the hunting and fishing enthusiast.*



The George V. Underwood Golf Complex features a clubhouse, locker rooms, snack bar/restaurant, practice putting greens, a lit driving range, a pro shop, and two 18-hole golf courses with a perimeter fence for security.



The Fort Bliss Bowling Center, with 52 lanes and automatic scoring, is the largest in the U.S. Army. It also has a day care center, pro shop, billiards/game room and a lounge/restaurant. Year-round leagues and lessons are available.





*The Terry de la Mesa Allen Center houses the Post Exchange, Commissary, branches of two local banks, the Fort Bliss Federal Credit Union and a variety of fast food restaurants. A WBAMC satellite pharmacy provides a convenient refill service.*



- 2 Youth Service Centers
- 11 outdoor athletic fields
- 2 swimming pools (FBOC/1 indoor)
- 2 18-hole golf courses
- NCO Club/banquet facility with 1,200 seating capacity
- 2 Child Development Centers; 50 Family Child Care Homes
- 6 physical fitness centers
- 52-lane bowling center (largest in Army)
- Library
- 2 picnic and recreation areas
- RV park/storage lot
- Equipment rental
- Rod and Gun Club
- Riding stables
- Movie theater
- Ceramic shop
- Wood craft shop
- Frame shop
- Music and theater program
- Auto craft shop

(7) FAMILY MEMBER EMPLOYMENT. The Spouse Preference Program is administered by the Director of Civilian Personnel. The program provides priority placement in available vacancies for service members' spouses. Fort Bliss is experiencing the Army's downsizing and is currently undergoing an internal reduction in force (RIF).

The Family Member Employment Assistance Program (FMEAP), administered by the Army Community Service (ACS), also provides job hunting assistance to military family members. Services include: information and referral for employment and education/training opportunities, assistance with resumes and application preparation, career planning services and planning and preparation for transitioning from military life to civilian life. Periodically the FMEAP sponsors job search workshops at the Junior Enlisted Family Center and at the ACS Outreach Center.

(8) ACS. Army Community Service (ACS) and its separate Outreach Center provide assistance to all members of the military community in meeting personal and community problems beyond the scope of the individual's own resources. Among the more popular services offered by ACS are: emergency food, financial assistance, a lending closet of small household items and appliances, referrals to on-and off-post facilities, child care, debt liquidation, consumer assistance, and the bicultural program. The Fort Bliss ACS was recognized recently as "Best in TRADOC" for its innovative program and the comprehensive family support network developed during Desert Storm.

(9) PHYSICAL FITNESS CENTERS. Fort Bliss has six well-equipped physical fitness centers on main post and one at McGregor Range. All facilities offer a wide variety of programs and

facilities for recreation, as well as physical training. The newest of the six, the Stout Physical Fitness Center, is a \$6.2 million, 60,500 square foot state-of-the-art physical fitness facility.

(10) QUARTERS.

▪ **FAMILY QUARTERS.** At Fort Bliss there are 3,055 sets of quarters for enlisted personnel and 426 sets for officers. There are an additional 800 sets of quarters at Biggs Army Airfield for enlisted personnel and 300 single family leased houses for Senior NCOs are located on 60 acres in Northeast El Paso.

Available units by grade follow:

<u>GRADE</u>	<u>NO. UNITS</u>	<u>WAITING TIME</u>
E-1 thru E-3:	405 units	8-12 months
E-4 thru E-6:	2,000 units	8-12 months
E-7 thru E-9:	450 units	8-12 months
O-1 thru O-3:	290 units	8-12 months
O-4 thru O-5:	102 units	8-10 months
O-6:	29 units	12 months
O-7:	4 units	None
	<hr/>	
	<b>3,480 units</b>	

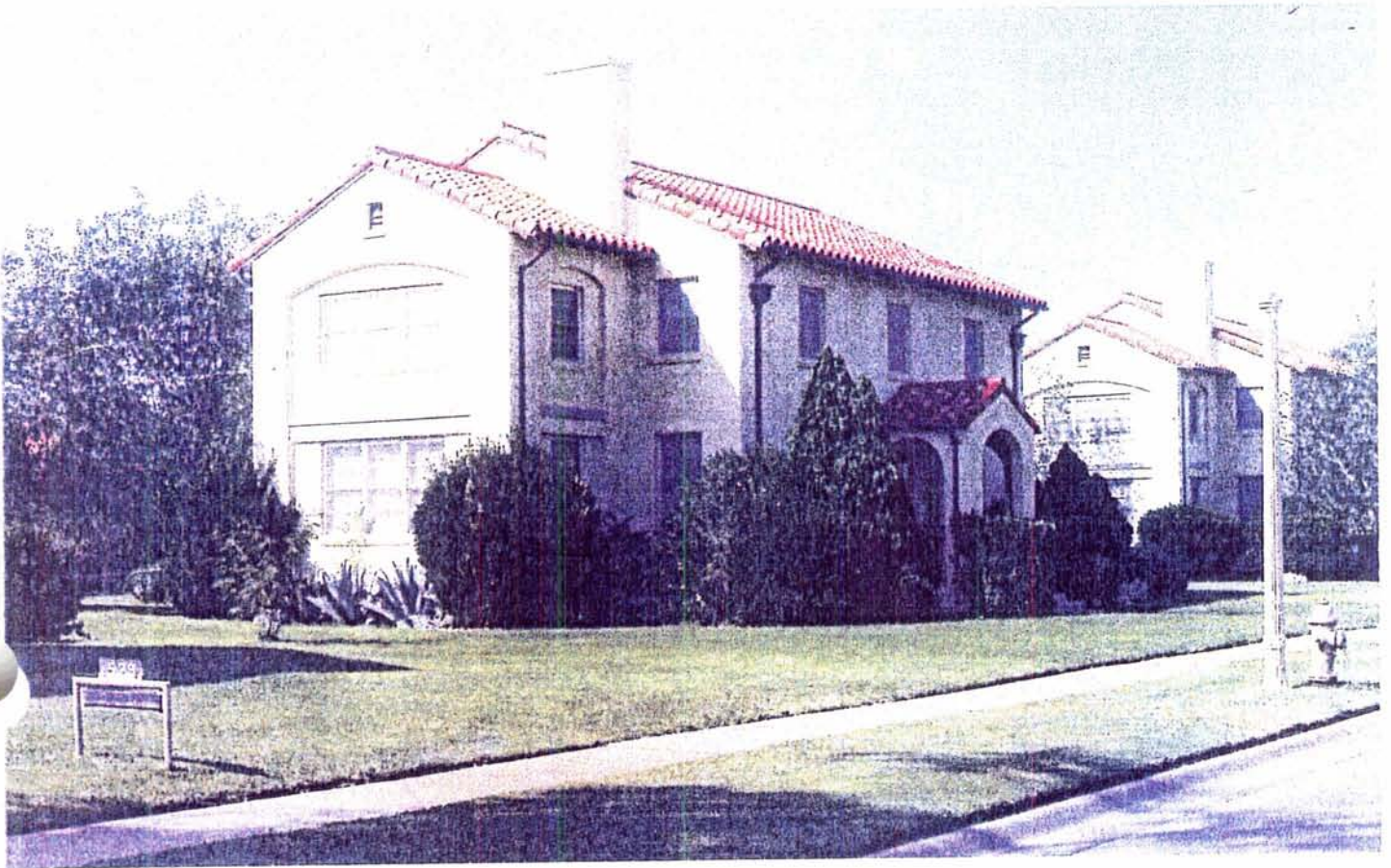
Breakdown of units:

<u>Quantity</u>	<u>Bedrooms</u>	<u>Baths</u>	<u>Est Sq Ft</u>
692	2	1	930
2,396	3	1-2	1,200
387	4	2	1,350

Senior Officer Quarters: 2-story stucco, approx 3,000 SF  
 Field Grade Off Quarters: 2-story duplex, approx 2,500 SF

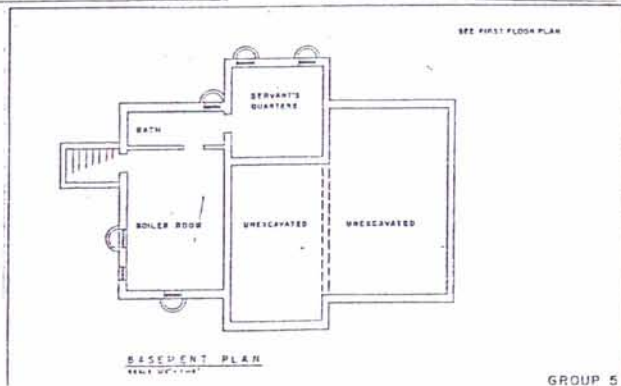
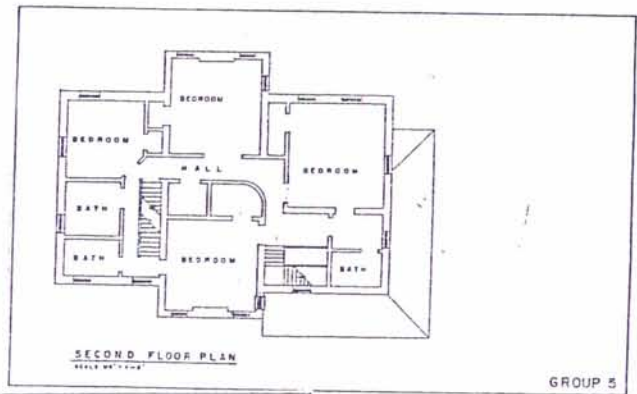
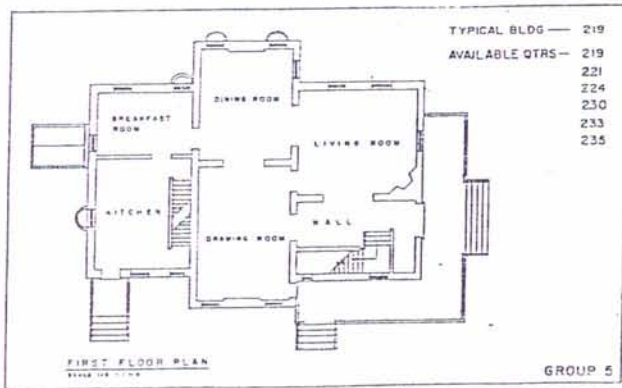
Army family housing programming actions continue through the year 2012. New construction of 189 replacement family dwelling units will start in FY95 and other replacement projects follow into 2012. This program replaces approximately 90% of existing houses.

HOUSE, 2-STORY STUCCO  
COL  
YEAR BUILT: 1934  
MAJOR INTERIOR RENOVATION 1989-1990 .  
2,804 TO 3,162 SQ FT GROSS

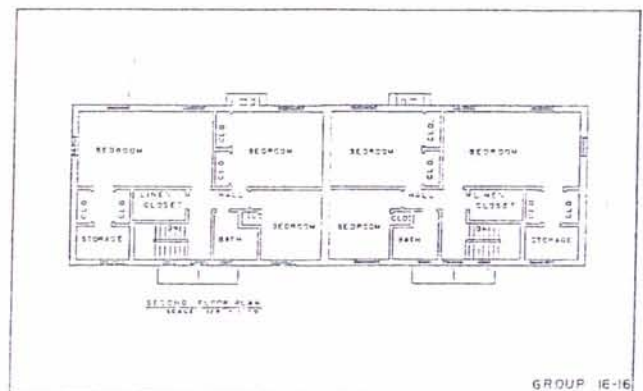
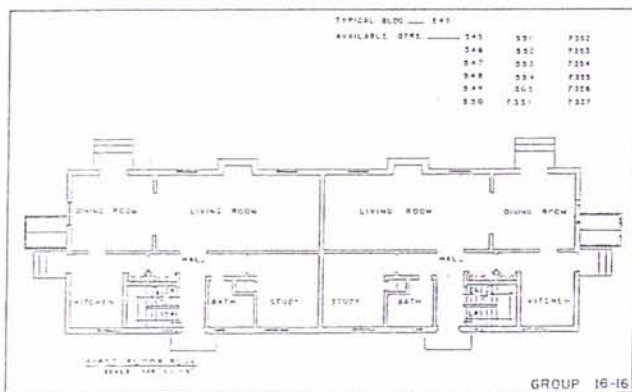
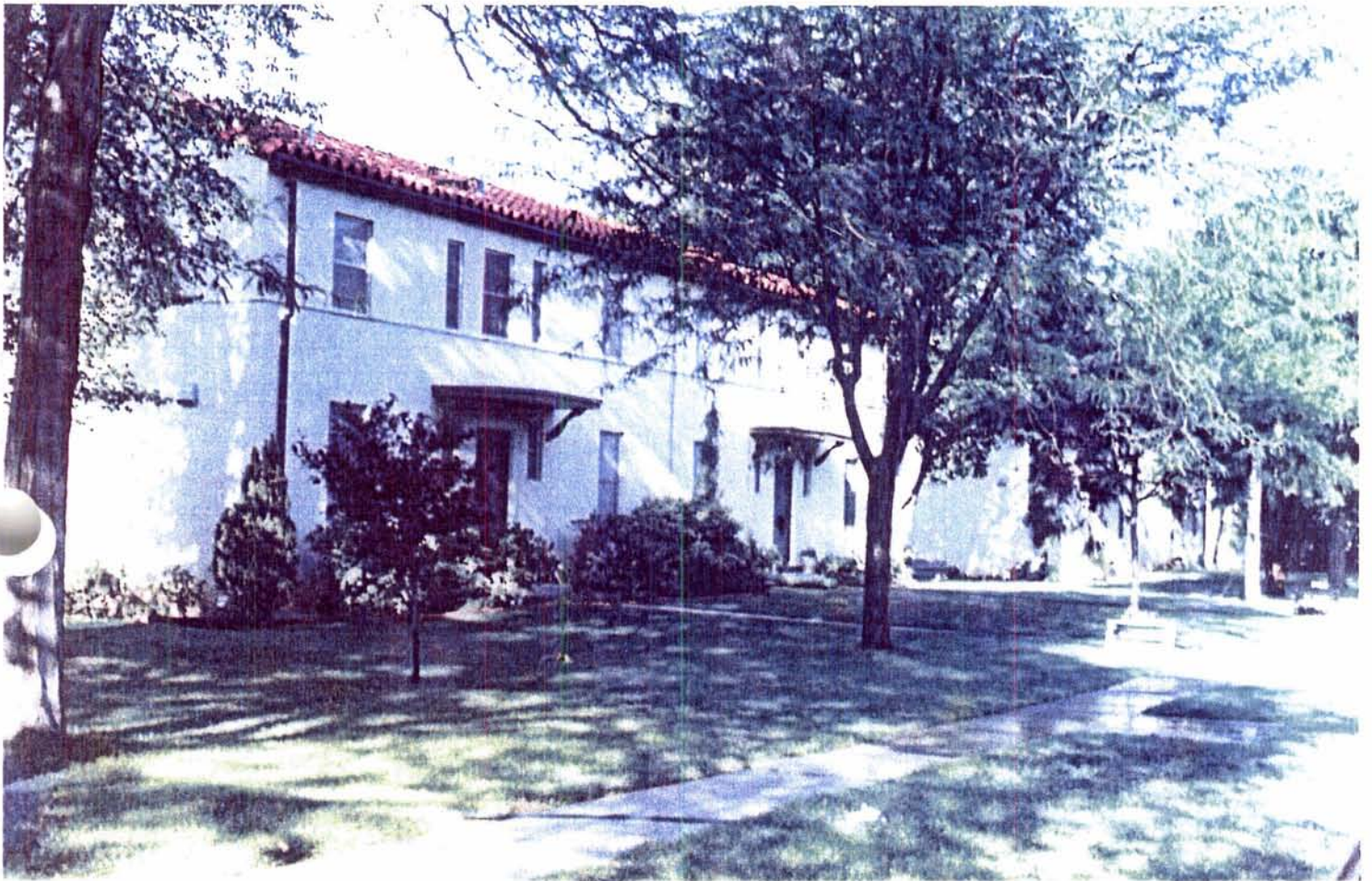


Senior officers quarters, single family/two story structures, feature three bedroom, three bath and four bedroom, three bath, a sun room, hardwood floors, fireplace, full basement with laundry facilities. Sizes range from 2,804 to 3,162 sq ft gross.

HOUSE, 2-STORY RED BRICK  
 LTC  
 YEAR BUILT: 1893  
 MAJOR INTERIOR RENOVATION 1989  
 3,350 SQ FT GROSS



2-STORY DUPLEX STUCCO  
 MAJ  
 YEAR BUILT: 1948  
 MAJOR INTERIOR RENOVATION 1989-1990  
 2,575 SQ FT GROSS

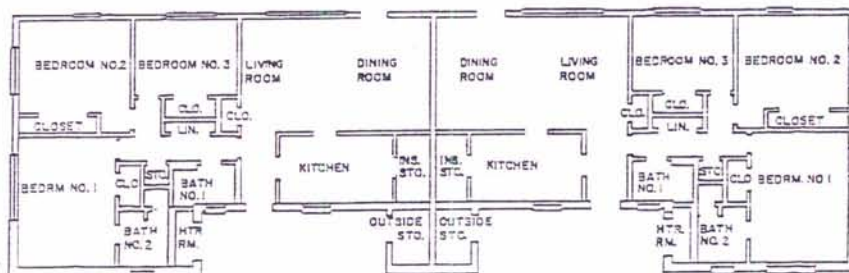
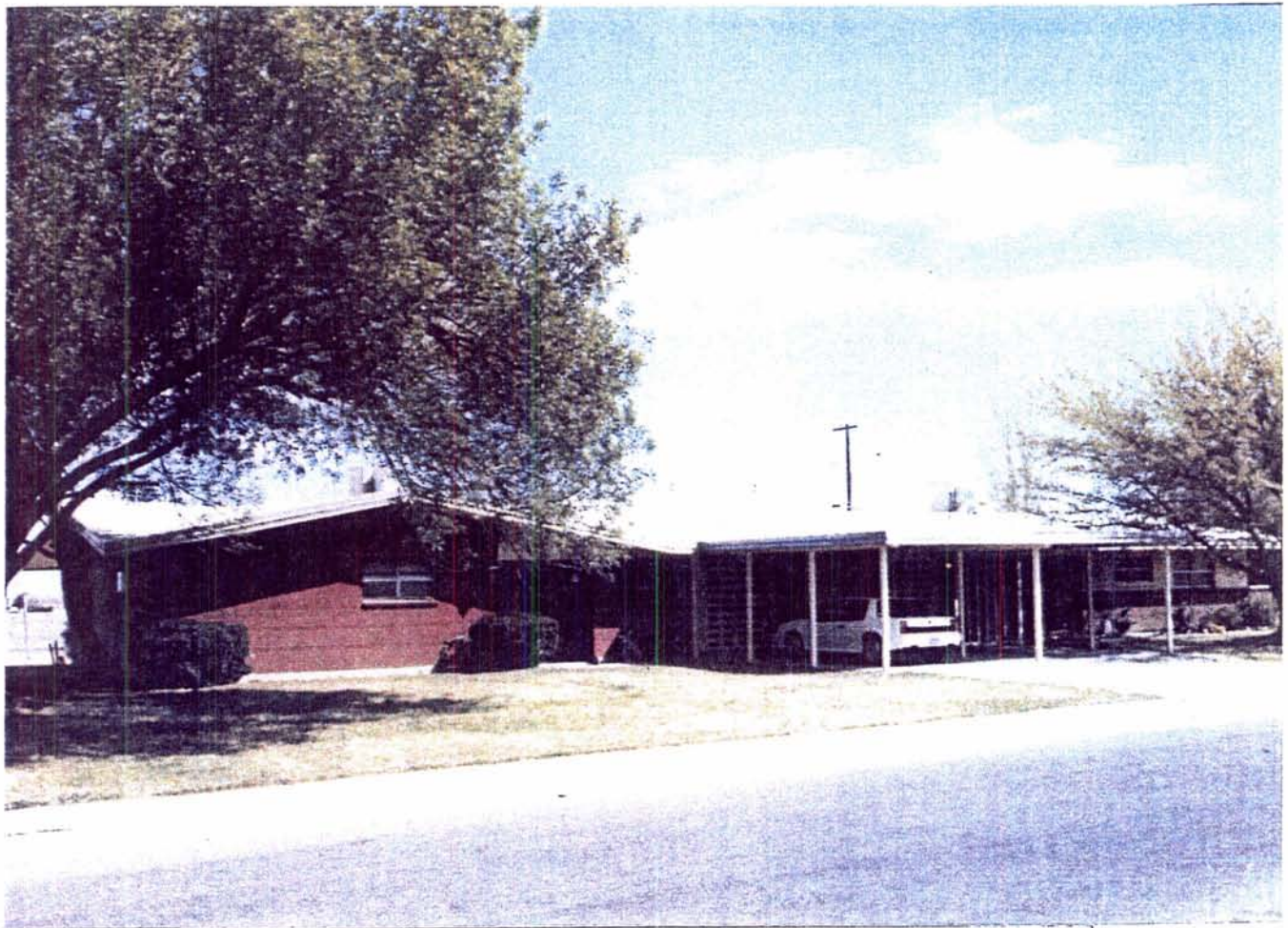


HOUSE, SINGLE-STORY BRICK/STUCCO  
COMPANY GRADE  
YEAR BUILT: 1962  
1,568 TO 1,672 SQ FT GROSS



Officers quarters, single family/single story structures, feature three bedrooms, 1568 to 1672 sq ft with an attached carport.

HOUSE, SINGLE STORY DUPLEX  
 COMPANY GRADE  
 BRICK/STUCCO  
 YEAR BUILT: 1960 & 1961  
 1,691 SQ FT GROSS



FLOOR PLAN  
 SCALE 1/4"=1'-0"

TYPICAL BLDG 5190

AVAILABLE QUARTERS

5190	5197	5204	5211	5218	5225	5232	5243	5250	5260
5191	5198	5205	5212	5219	5226	5233	5244	5251	5261
5192	5199	5206	5213	5220	5227	5234	5245	5252	5262
5193	5200	5207	5214	5221	5228	5235	5246	5253	5263
5194	5201	5208	5215	5222	5229	5236	5247	5254	5264
5195	5202	5209	5216	5223	5230	5237	5248	5255	5265
5196	5203	5210	5217	5224	5231	5238	5249	5256	5266

GROUP 43-43



Housing on Fort Bliss includes 3,055 quarters for enlisted personnel and 426 for officers. Styles vary as well, there are 97 different floor plans.



*Senior NCO housing, built to lease, single family units, three and four bedrooms, 1250 sq. ft. with single car garage.*



(11) CULTURAL EVENTS.

- A sample of cultural events offered on post:  
Music and Theater productions  
62d Army Band Concerts  
Air Defense Museum  
Fort Bliss Museum  
3d Armored Cavalry Museum  
NCO Museum  
American Heritage Week  
Asian-Pacific Celebration  
Black History Week  
Hispanic Week  
Womens' Equality Day

In addition, the post plays a large role in several events sponsored by the city, including the Sun Carnival activities and the Amigo Airshow.

■ El Paso, considered a major cultural center of the Southwest, is famous for its binational, bicultural flavor. The city has more than 20 art galleries and 18 museums. Events include:

- Art in the Park
- Ballet of the Americas
- Ballet Folklorico
- Community Theater
- El Paso Museum of Art
- El Paso Planetarium
- El Paso Pro-Musica
- El Paso Symphony Orchestra
- Insights Science Museum
- Music Under the Stars
- Viva El Paso
- Border Jazz Festival
- International Festival De Las Zarzuela
- El Paso Street Festival
- Ysleta Festival
- Fiesta de las Flores

(12) COMMUNITY RECREATIONAL FACILITIES. In addition to the variety of excellent MWR recreational facilities offered on post, the city provides an array of parks, gardens, mountain and desert trails, as well as facilities for hiking, biking and horseback riding. Every outdoor sport is possible year-round including golf, tennis, polo and swimming. Available are:

- 6 Private Golf Courses
- 4 Public Golf Courses
- 5 Private Tennis Courts
- 25 Public Tennis Courts
- 4 State Parks
- 13 County Parks
- 97 City Parks
- 5 Stables

Other recreation centers located in and around El Paso:

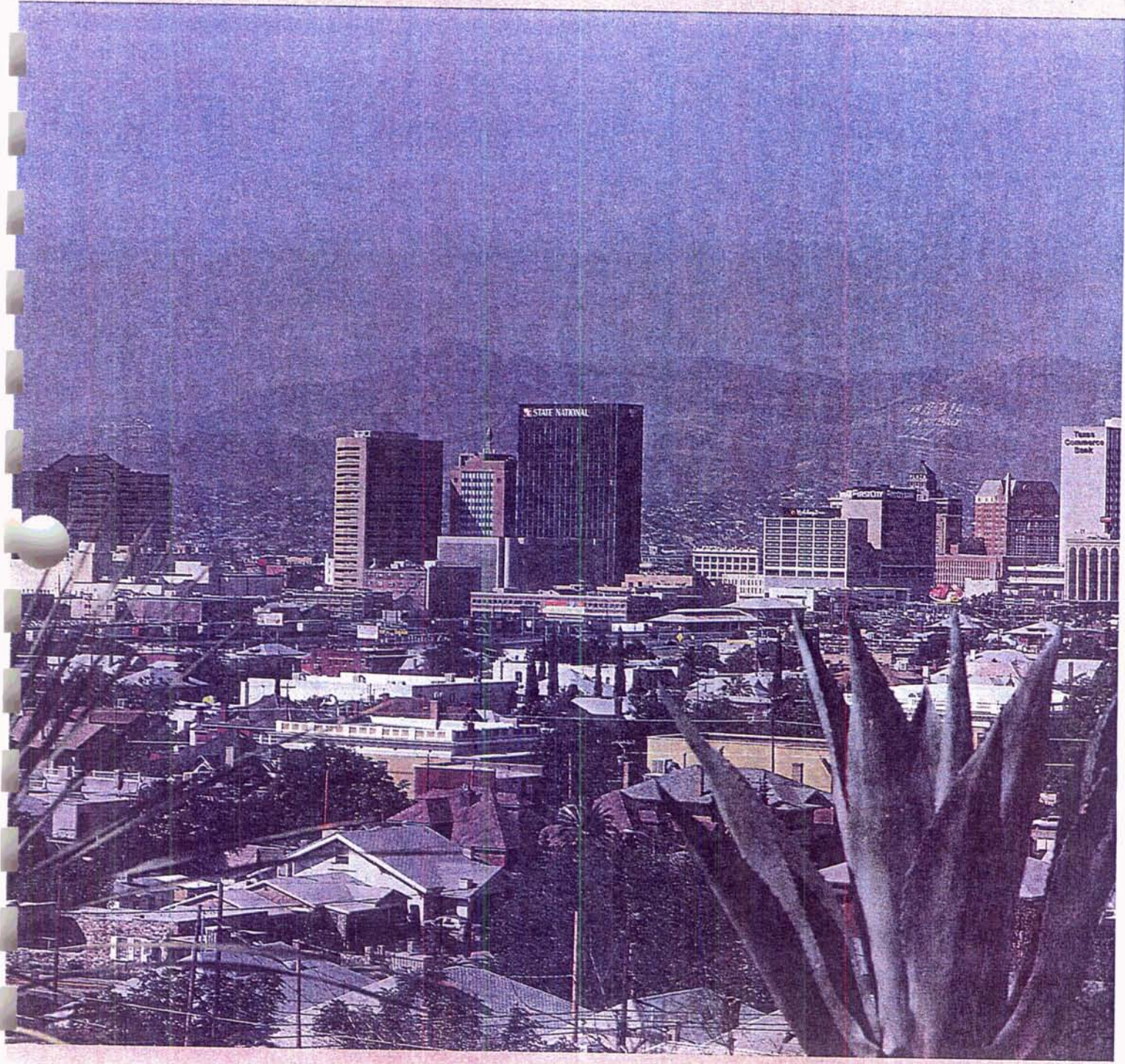
Western Playland at Ascarate Lake  
 Wet and Wild Water World  
 Champions Sportsplex  
 El Paso Zoo  
 El Paso Speedway  
 Mountain Shadow Lakes  
 Putt Golf & Games

(13) PLANNED/PROGRAMMED CONSTRUCTION. The following are planned or programmed construction projects in quality of life facilities/housing:

PROG YEAR	PROJECT TITLE	SCOPE	COST (\$000)	TYPE	PROG
91	Barracks Mod	743 PN*	20,800	MCA	
92	Barracks Mod	524 PN*	23,600	MCA	
93	Barracks Mod	548 PN*	25,400	MCA	
93	Family Housing Improvement	278 FA*	17,500	AFH	
93	VA Clinic	200,000 SF	38,000	VA	
94	Barracks Replacement Construction	429 PN*	23,000	MCA	
94	PX Expansion/Alterations	135,000 SF	6,500	AAFES	
95	Barracks Modernization/Repl	302 PN*	18,500	MCA	
95	Family Housing Improvement	149 FA*	10,800	AFH	
95	Family Housing Replacement	110 FA*	10,600	AFH	
96	Barracks Modernization/Replacement	448 PN*	27,000	MCA	
97-99	Barracks/Modernization/Replacement	882 PN*	55,900	MCA	
97	Child Development Centers	47,320 SF	7,900	MCA	
97-02	Fam Hsg Improve/Improvement	1,303 FA*	118,500	AFH	

\*PN = Persons  
 \*FA = Families

El Paso



El Paso

V.

**COMMUNITY SUPPORT**

1. **OFF-POST HOUSING WITHIN 30 MILES.** The Off-Post Housing Referral Office maintains up-to-date information on many apartments, rental housing and houses for sale in the El Paso area. It has normally been Fort Bliss' policy to grant a certificate of non-availability of government quarters to those who are authorized quarters for which the waiting period is greater than 30 days at the time of arrival. The certificate allows the individual to buy or rent available housing in El Paso and continue to receive Basic Allowance for Quarters (BAQ). Off-post housing can be found within a 10-20 mile radius.

a. RESIDENTIAL REAL ESTATE.

(1) **MARKET CONDITIONS.** The supply of resale homes available to the home buyer is plentiful. Certain price ranges in some neighborhoods have few resales on the market which make building a new home attractive to some buyers.

(2) **MARKET VELOCITY.** According to the El Paso Board of Realtors, as of September 1994, there were 3,148 active listings; including resales and new homes listed in the Multiple Listing Service.

b. APARTMENTS. El Paso offers over 100 apartment complexes throughout the city. Furnished and unfurnished apartments, as well as corporate "instant homes" are available within many of these complexes.

c. RETIREMENT COMMUNITIES. There are several retirement facilities located throughout the city offering services such as medical care/facilities, regular transportation, 24 hour security, recreation facilities, meal programs, etc. Because of its moderate climate, state-of-the-art medical facilities and infrastructure, El Paso is a great place to retire.

2. **SCHOOLS.**

a. DAY-CARE/PRESCHOOL. El Paso has over 100 day-care/preschool facilities as well as state licensed private home day-cares. The weekly cost ranges from \$40 to \$80 (the average is \$50).

There is also a day-care facility just for sick children, called KidCare at Southwestern General Hospital, accepting children from 3 days to 17 years old.

b. ELEMENTARY, MIDDLE AND HIGH SCHOOLS. Three school districts serve El Paso proper: El Paso Independent School

District (EPISD), Ysleta Independent School District (YISD), and Socorro Independent School District (SISD).

c. EL PASO COMMUNITY COLLEGE. With three campuses and a total enrollment of 20,000 students, El Paso Community College is one of the largest comprehensive community colleges in the nation. A wide variety of course offerings make the college a leader in bringing responsive educational opportunities to residents of El Paso County. El Paso Community College confers Associate Degrees in Science, Arts and Applied Science (133 subjects), as well as granting Certificates of Completion in other courses of study.

d. UNIVERSITY OF TEXAS AT EL PASO (UTEP). The University of Texas at El Paso is the second oldest academic component of the 14 institutions making up the University of Texas System. The 363 acre campus enrolls an average of over 17,213 students.

The University of Texas is involved in several programs that address the educational needs of our neighbors to the south. Many graduate students, including faculty from Mexican universities who do not possess advanced degrees, attend UTEP under the auspices of the Agency for International Development, which provides grants for tuition, books, and subsistence.

The University was selected by the United States Information Agency sponsored Central American Program of Undergraduate Scholarships (CAMPUS), to host a group of high school teachers from Honduras and El Salvador for intensive English language training and for professional skill development. The University has formal agreements (convenios) with twelve institutions in northern Mexico for activities such as exchanges of faculty, researchers, administrators, and students; team teaching of courses; sharing of cultural and social experiences; reciprocal awarding of scholarships; exchange of statistical and technical data; and cooperation in research projects.

**3. COMMUNITY RELATIONS.** Fort Bliss enjoys an exceptional relationship with the city of El Paso and receives strong support from the community. The city has a major state university and a large junior college; and offers every amenity of a large metropolitan area such as top restaurants, ballet, symphony and minor league sports. The superb rapport between the military and civilian communities is unmatched anywhere in the United States.

Just across the Rio Grande River is El Paso's sister city, Juarez, Mexico. Located in the state of Chihuahua, Juarez has a population of 1.2 million. Daily bus tours are offered to help newcomers become acquainted with Juarez, and the city offers many attractions. Credit cards and U.S. currency are accepted.

#### 4. CIVILIAN HEALTH CARE FACILITIES.

- 13 private hospitals
- 1 public hospital
- 1 Army medical center  
more than 2300 beds
- 1 bed to 275 population
- 1 doctor to 737 population
- 150 practicing dentists

William Beaumont Army Medical Center, one of seven U.S. Army medical centers in the nation, provides an additional 321 beds for area military personnel and veterans.

El Paso also has a well organized public health services program managed by the state directed City/County Health Department.

5. **QUALITY OF LIFE OFF-POST.** El Paso, considered a major cultural center of the Southwest, is famous for its binational, bicultural and bilingual flavor. Twenty-eight visual artists of national acclaim make their homes here, and the city boasts more than 20 art galleries and 18 museums.

##### a. RECREATION.

(1) EL PASO. El Paso offers a variety of recreational activities to include an array of parks, gardens, mountain and desert trails, as well as facilities for hiking, biking and horseback riding. Every outdoor sport is possible year round including golf, tennis, polo, swimming and pleasure driving. Additionally, several recreation centers are located in and around El Paso.

(2) SOUTHERN NEW MEXICO. Southern New Mexico offers resort areas, quiet cabins, luxury condominiums, and numerous outdoor activities; all within a three hour drive. Hunting and fishing areas are available in many parts of New Mexico as well.

Ruidoso, surrounded by the densely wooded Lincoln National Forest in the Sierra Blanca Mountains, is known mainly for its excellent skiing and the \$1 Million All American Futurity Horse Race. Inn of the Mountain Gods Resort tops the list of living accommodations in the Ruidoso area. Excellent fishing, golf, hiking, tennis and camping in the summer months are also available.

Cloudcroft, a small resort community (just a short drive from Ruidoso), offers a smaller ski area with snow tubing facilities. A small, warm town, Cloudcroft offers quaint restaurants, antique shops, golf course, and The Lodge, a locally famous hotel. Area festivals, held throughout the year, help visitors get a taste of local flavor. Cloudcroft also offers many fine camping, fishing and hunting opportunities.

b. SPORTS. Sports enthusiasts will find: college football and basketball at the University of Texas at El Paso and New Mexico State University; minor league baseball (El Paso Diablos); horse and greyhound racing; college and professional soccer. The John Hancock Bowl, nationally televised by CBS, is played in UTEP's Sun Bowl. The Soccer World Championships are an annual event.

c. SHOPPING. El Paso has a variety of shopping facilities in every area of town with more than 55 department stores. There are four indoor shopping malls and one courtyard mall as well as several discount and outlet malls.

d. RESTAURANTS & ENTERTAINMENT. El Paso's rapid growth has spurred the opening of many excellent restaurants and nightclubs. In 1987 alone, 249 new restaurants opened in the area, offering all varieties of fine cuisine. Nightclub entertainment offers everything from comedy to disco to live rock and jazz. There is an abundance of country/western dance clubs in El Paso.

e. CHURCHES & SYNAGOGUES. El Paso has over 348 churches and synagogues representing more than 60 denominations.





TEXCOM Experimentation Center  
FT Hunter Liggett, CA



# QUALITY OT&E FOR A QUALITY ARMY

JCS

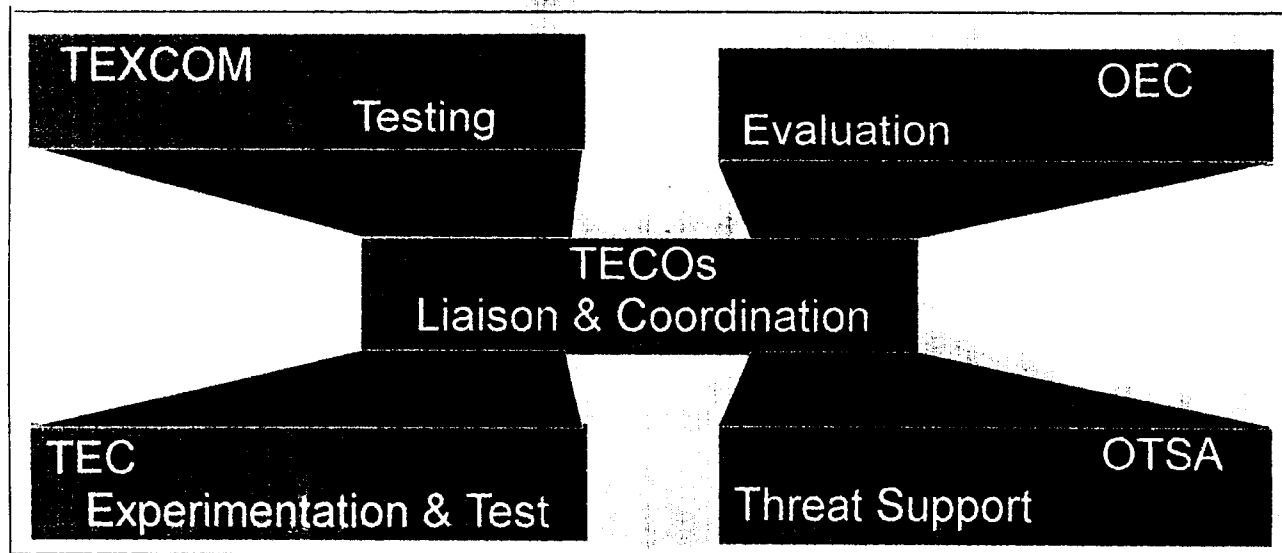
OSD

HQDA

Supporting a Wide Array of Customers

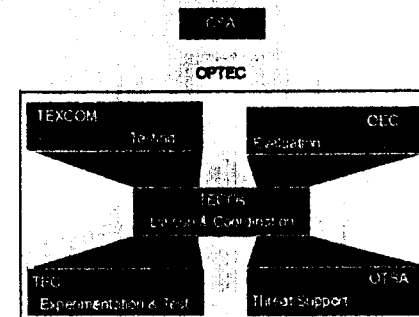
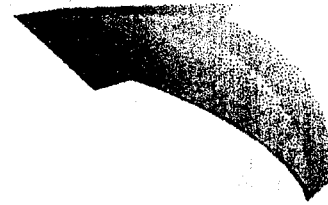
CSA

OPTEC



TEXCOM Experimentation Center

# TEC FUNCTIONS

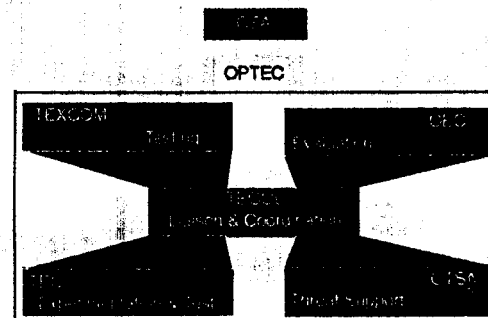


- Operational Test & Experimentation Site for OPTEC, DoD, TRADOC
- Laboratory for Short Fuze Experimentation



TEXCOM Experimentation Center

# TEC MISSION



Conduct high quality field experiments and tests in a unique environment using very precise instrumentation

Provide high resolution data for model simulation/war games

Examine options for system development, and verify proposed solutions to system development challenges

Develop instrumentation for experimentation and tests



TEXCOM Experimentation Center

***Extensive  
Experience  
in  
Experimentation  
and Testing***

**Readily available, on-site capability**

- ✓ Technically innovative workforce
- ✓ GPS-based RTCA instrumentation
- ✓ Instrumentation development and fabrication facility
- ✓ Armor/mechanized troop unit and equipment
- ✓ FHL digitized terrain database
- ✓ Data collection/reduction/analysis
- ✓ Logistics support/facilities

- **Responsiveness**
- **Flexibility**
- **Adaptability**

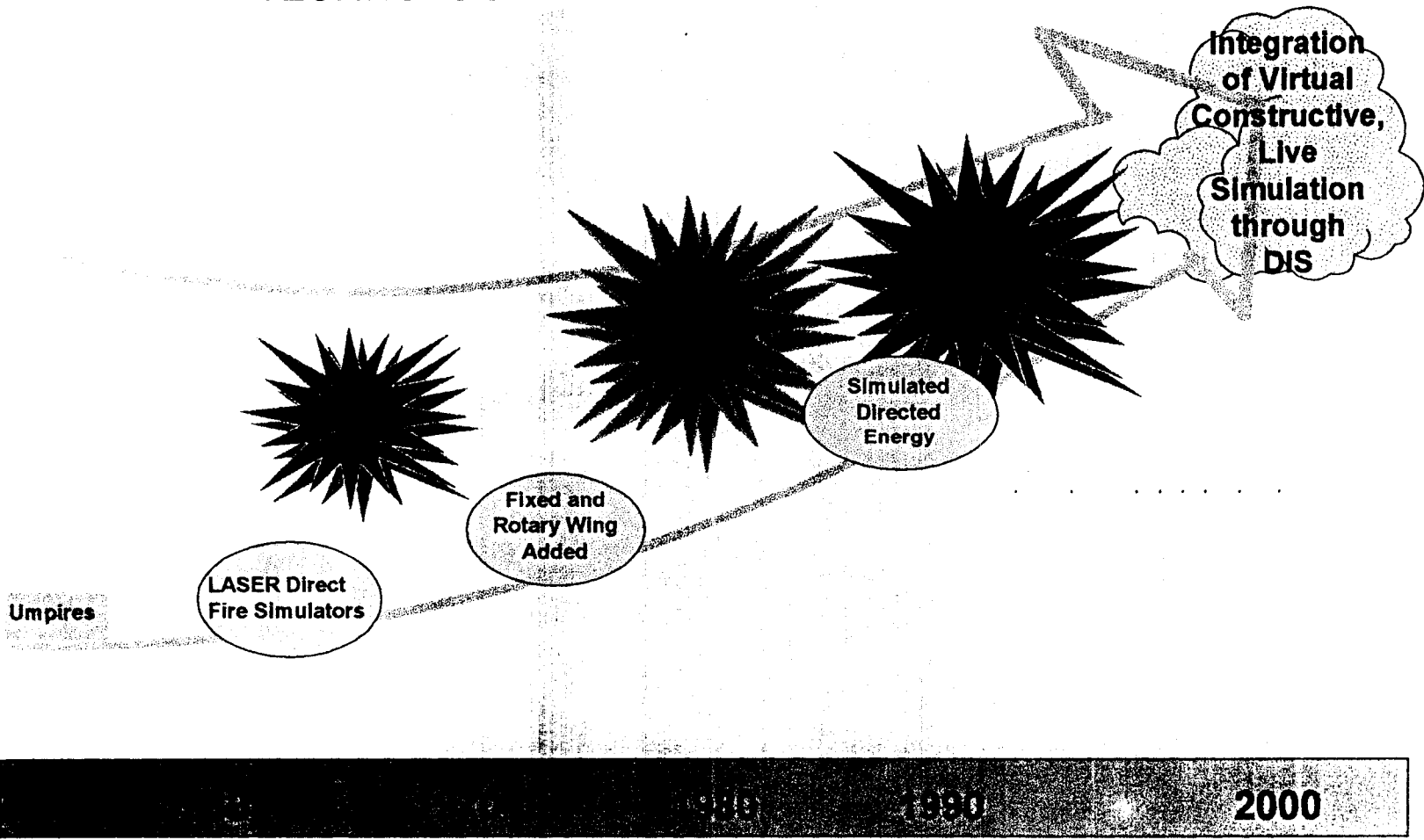
**TEC ASSETS**



**TEXCOM Experimentation Center**

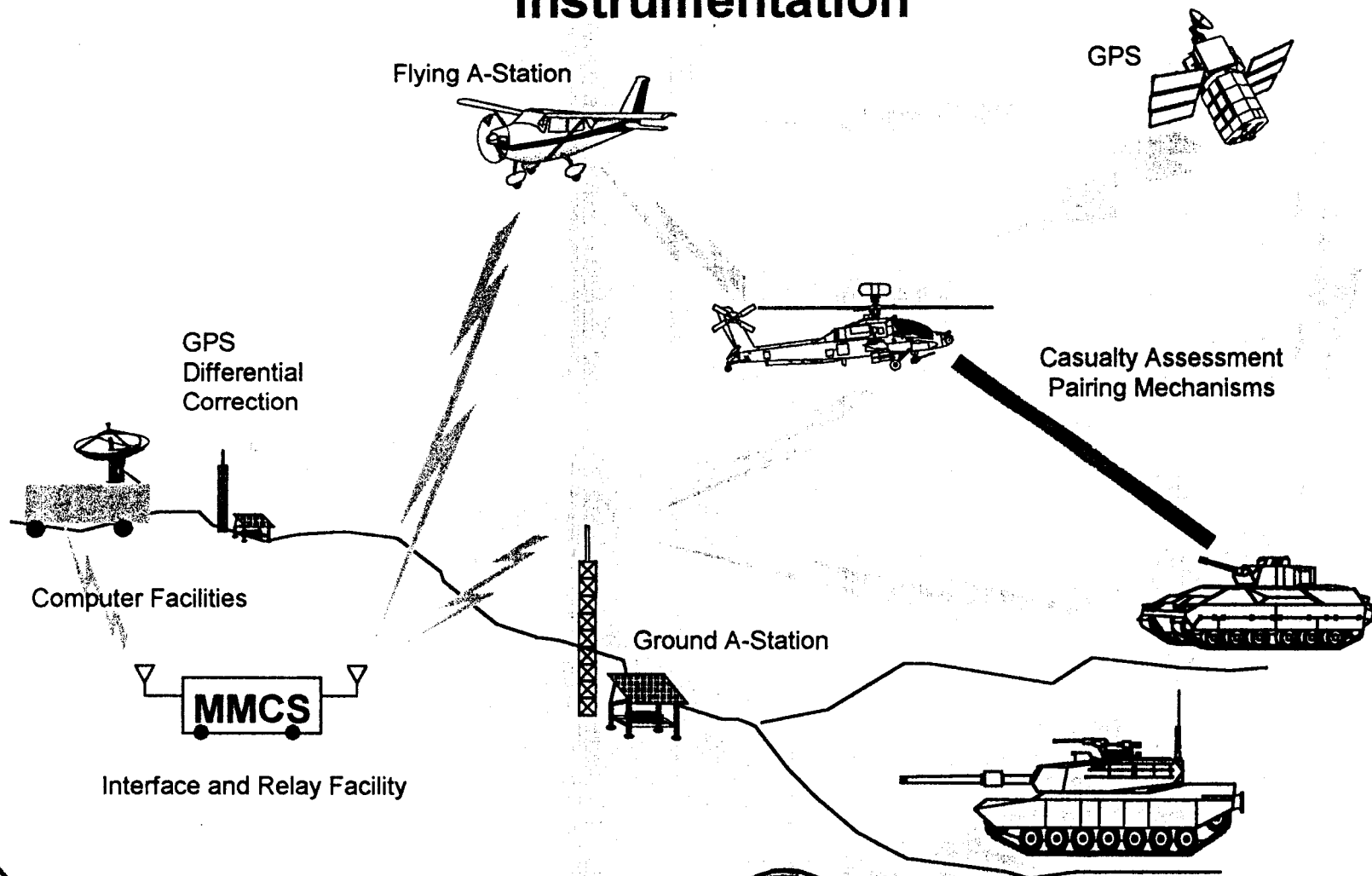
# TEC INSTRUMENTATION

## TECHNOLOGICAL EVOLUTION



TEXCOM Experimentation Center

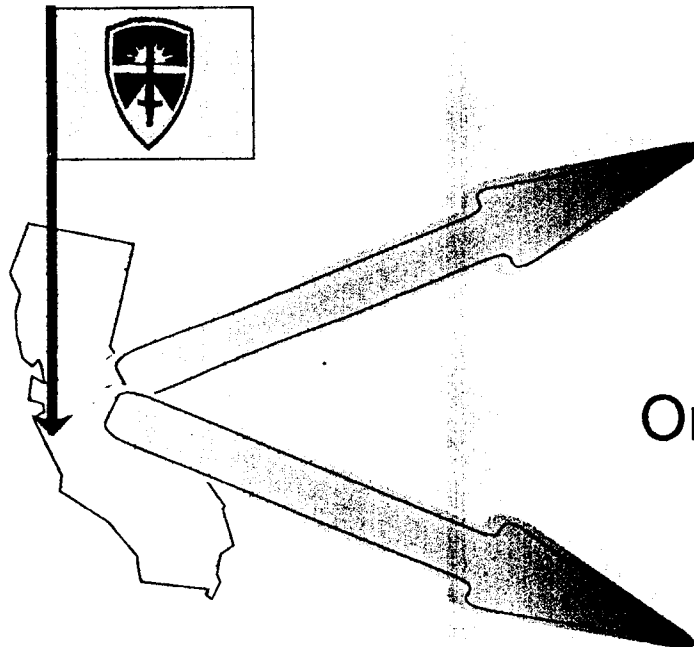
# Real Time Casualty Assessment (RTCA) Instrumentation



TEXCOM Experimentation Center

# FORT HUNTER LIGGETT

## UNIQUE ENVIRONMENT



### Remote Maneuver Area

- Readily accessible
- Variety of terrain, vegetation and weather
- Controlled airspace
- Isolated from ambient light and RF interference
- High energy lasers

### On-site Facilities

- MPRC
- Combat airstrip
- Accessible railhead
- Heliport
- Drop zones
- Support facilities



TEXCOM Experimentation Center



# TEC & FT HUNTER LIGGETT

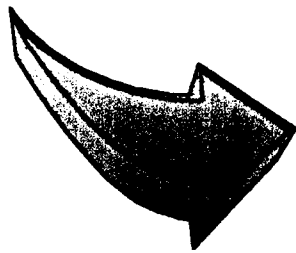
## Value Added

### TEC Assets

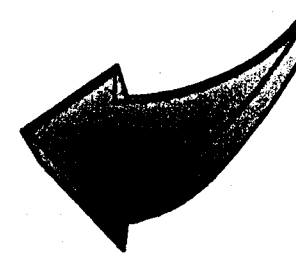
- Extensive Experience
- On-site Capabilities
  - ✓ Instrumentation
  - ✓ Troops/Equipment
  - ✓ Digitized Terrain Database
  - ✓ Data Management
  - ✓ Logistics Support
- Innovative Workforce
- Responsive, Flexible, Adaptable

### FHL Environment

- Readily Available Maneuver Areas
- Variety of Terrain/Vegetation
- Isolation
- Controlled Airspace
- High Energy Lasers
- MPRC
- Combat Airstrip
- Support Facilities



**The Total  
Test/Experimentation  
Facility**



TEXCOM Experimentation Center

**Emerging Instrumentation**

**FUTURE  
DIRECTIONS**

**OBJ  
FORCE XXI**

**AWE/ACTD Support**



**TEXCOM Experimentation Center**

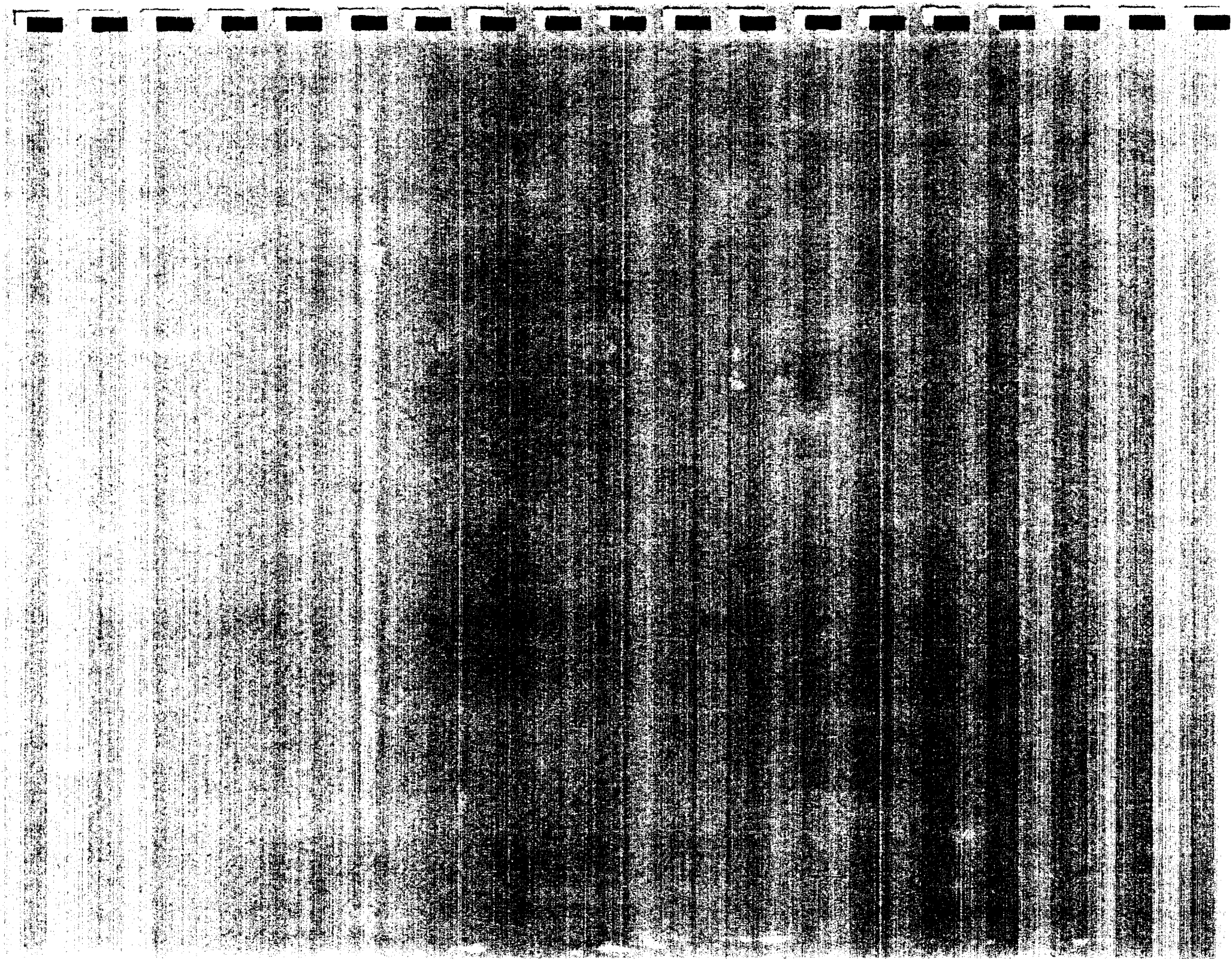
# TEC =

- Teamwork
- Expert Planning
- Effective Execution
- Technical Expertise
- Cost Effective Experimentation
- Vision of the Future

*THE 21st CENTURY SOLDIER IS OUR CUSTOMER*



TEXCOM Experimentation Center



## INFORMATION PAPER

Subject: TEXCOM Experimentation Center (TEC)

1. Purpose. To provide facts concerning TEC's capabilities.
2. Facts.

a. The TEXCOM Experimentation Center, located at Fort Hunter Liggett (FHL), California, has the unique capability to provide the total test and experimentation package. It possesses on-site capabilities required to support comprehensive test and experiment execution: a high resolution instrumentation system for real time casualty assessment (RTCA), an experimentation battalion of trained armor/mechanized infantry soldiers and equipment, a data collection/reduction/assessment capability, a digitized terrain data base, and appropriate logistics support/facilities. It possesses the expertise and facilities to evaluate materiel, doctrine, tactics, training, and organization in a real world operational environment.

b. As a battlefield laboratory, TEC has experience in a broad variety of combat and combat support missions. Its civilian work force, a combination of Department of the Army civilians and contractor personnel, possesses years of experience in innovative experimentation and operational testing and is integrated with an outstanding military cadre. TEC's high performing team is capable of expert planning, effective execution, and offers a future vision of improved instrumentation. The highly trained experimentation battalion (Armor/Mechanized) provides subordinate elements which are capable of executing both friendly and enemy tactics. The instrumentation development and fabrication facility possesses a unique ability to design, modify, and fabricate instrumentation to meet test and experimentation needs almost over night.

c. TEC's isolated location provides unequaled access to 760 square kilometers of extremely versatile training areas which can be further expanded to include the California Army National Guard installation at Camp Roberts (an additional 135 square kilometers connected by tank trail). Large portions of this terrain are available in SIMNET. FHL offers a wide variety of weather, terrain, and vegetation conditions; controlled airspace to 24,000 feet; one of the few worldwide 360 degree high energy laser play areas; isolation from ambient light; and minimal radio frequency (RF) interference. It also provides an independent location in which to conduct tests and experiments much like the National Training Center provides an independent training facility for the US Army. Additionally, the FHL training area provides a C-130 and C-17 capable combat airstrip, a Multipurpose Range Complex (MPRC) for tank and Bradley gunnery, and personnel and equipment drop zones for airborne operations. In proximity to FHL is Lemoore Naval Air Station for high performance aircraft staging and a C-5A capable runway, the Fort Ord Military Operations in Urban Terrain (MOUT) site, and a railhead at Camp Roberts.

d. TEC's greatest asset/attribute is its flexibility to quickly respond to specific customer needs and off-cycle requirements. This can be accomplished because of the unique capabilities described above.

e. TEC's diverse, unique, and cost effective instrumentation capability provides a long term benefit to the US Army and the Department of Defense. It possesses the only current capability to instrument, for high resolution force on force data collection, emerging technologies such as Longbow Apache, Javelin, Abrams, and Bradley. Its instrumentation arsenal includes weapons on these systems as well as air defense, other rotary and fixed wing, remotely piloted vehicle, and dismounted players.

f. Force on Force RTCA using TEC instrumentation has evolved over the years into an exceptionally adaptive and responsive capability. Current development incorporates Global Positioning System (GPS) applications for player location. This allows an expanded realistic battlefield environment to be created, in which soldiers employ new weapons systems or technologies. A component based approach has proven successful in the creation and employment of the instrumentation inventory. This enables the tailoring of the instrumentation suite to meet the unique data collection requirements set forth for each experiment. Modification, replacement, interfacing, programming, or upgrading decisions are done at the component level, which constrains risk, reduces cost, and increases responsiveness.

g. Development work is currently underway to expand the TEC instrumentation capability into the world of modeling and simulation. TEC has recently been involved in a tri-service project entitled Environmental Effects for Distributed Interactive Simulation (E2DIS). This project centers around the unique capability to quantify environmental effects on weapon systems. It links FHL into the DIS network, resulting in the potential for significant cost savings. Twenty years of historical data on Army sensors tested in field conditions against FHL terrain and various threat arrays exists, which can be compared with models. There is a unique one meter resolution data base of every feature in the exercise area, with which field data can be rigorously analyzed. There is a system which interfaces simulation with field exercises in real time, forming a "Bridge to Reality." The most significant capability is that simulation validation can be improved from one-on-one acquisition scenarios to full scale Force on Force, where analysis is carried through to full combat effectiveness.

h. In summary, TEC and FHL are a special combination of personnel, terrain, and technology that contributes significantly to the Army and Defense mission. This capability ensures both the accomplishment of cost effective test and experimentation in an operational environment and the appropriate link of simulations and models to actual field exercises for realism and validation.

COL Mike Jackson/DSN 686-2114



DEPARTMENT OF THE ARMY  
 HEADQUARTERS, CALIFORNIA ARMY NATIONAL GUARD  
 9800 GOETHE ROAD - P.O. BOX 269101  
 SACRAMENTO, CALIFORNIA 95826-9101



CAFE

DATE SENT: 17 APR 95

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SENT TO: BASE REALIGNMENT & Closure Com OFFICE SYMBOL: \_\_\_\_\_

ATTENTION: LTC STEVE BAILEY

SUBJECT OF MESSAGE: FT HUNTER WIGGETT

FACSIMILE PHONE NUMBER: 703-696-0550

NUMBER OF PAGES INCLUDING HEADER: 5

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SENT BY: LTC FRED GAGE OFFICE SYMBOL: CAFE

TELEPHONE NUMBER: 916-854-3584 OR DSN 466-3584

FACSIMILE PHONE NUMBER: 916-854-3643 OR DSN 466-3643

ADDITIONAL INFORMATION: \_\_\_\_\_

PER OUR DISCUSSION

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HEADQUARTERS, CALIFORNIA ARMY NATIONAL GUARD  
9800 GOETHE ROAD • P.O. BOX 269101  
SACRAMENTO, CALIFORNIA 95826-9101



CAFE (405)

14 April 1995

MEMORANDUM FOR Chief, National Guard Bureau, ATTN: NGB-AEN,  
(Mr. Graham), 111 South George Mason Drive,  
Arlington, VA 22204-1382

SUBJECT: Fort Hunter Liggett

1. Enclosed for your information is a copy of a letter sent to Mr. Alan J. Dixon, Chairman, Base Realignment and Closure Commission. This letter was sent at the direction of Mr. Robert Walker, Assistant Secretary of the Army. Mr. Walker visited this headquarters in late March and was briefed about our concerns with the future of Fort Hunter Liggett. At the conclusion of the discussion Mr. Walker directed that a letter be sent to the Commission stating our concerns.

2. On 26 Apr 95 Ms. Wendi Steele, a BRAC Commissioner, will visit Fort Hunter Liggett. During the visit Brigadier General Zysk and other members of this staff will meet with Ms. Steele to discuss the post and advise her of the importance of Fort Hunter Liggett to the California National Guard. You will be advised of the results of the meeting.

3. If you have questions or comments I can be reached at DSN 466-3584 or 916-854-3584, Monday through Friday from 0700-1530.

FOR THE COMMANDER:

FRED W. GAGE  
LTC, AR, CA ARNG  
Deputy Director  
Facilities Engineering

Encl

CF: NGB-ARO-TS





DEPARTMENTS OF THE ARMY AND AIR FORCE

OFFICE OF THE ADJUTANT GENERAL  
CALIFORNIA NATIONAL GUARD  
9800 GOETHE ROAD · P.O. BOX 269101  
SACRAMENTO, CALIFORNIA 95826-9101

April 13, 1995



Directorate  
Facilities Engineering

The Honorable Alan J. Dixon  
Chairman, Base Realignment and  
Closure Commission  
1700 North Moore Street, Suite 1425  
Alexandria, VA 22209

Dear Mr. Dixon:

This letter is to advise you of the importance of Fort Hunter Liggett to the California National Guard. The post is a major training area for our units and organizations. It is the only installation in California where we have reasonable access to a range that enables our soldiers to meet Army standards for tank, aerial, and anti-tank missile (TOW) gunnery. There is an equivalent range at Fort Irwin (National Training Center) however, access is limited due to heavy use by the active components during task force rotations throughout the year. Fort Hunter Liggett is also used by the California Air National Guard for several different activities. The 129th Rescue Group, the 146th Airlift Wing, and the 162nd Combat Communications Group conduct training at the post. The facility offers airspace and terrain close to these organizations, which enhances training and reduces training costs.

Fort Hunter Liggett also has a large area available for maneuver. The terrain is ideal for the force structure of the California National Guard. The proximity of Fort Hunter Liggett to Camp Roberts enables the 40th Infantry Division (Mech) to train as it would fight. In order to support the combat units training at Fort Hunter Liggett, the logistics units provide resupply from Camp Roberts. The distance between the two posts approximates tactical reality. This type of training environment is available at few installations in the United States.

The California National Guard has expanded its presence at Fort Hunter Liggett. We have operated the Multi-Purpose Range Complex (MPRC) for several years. Recently, we established a vehicle storage site on the installation. A company team of M-60A3 Tanks, M-113 Personnel Carriers, M-901 Improved TOW Carriers, and support equipment is located on post. This allows units to use Fort Hunter Liggett during Inactive Duty Training

weekends without having to move vehicles from Camp Roberts, a distance of 30 miles. This has proven to be cost effective since we save time, fuel, vehicle wear, and cause less environmental damage by reducing the amount of travel on the road network.

Long-range plans include the expansion of the vehicle fleet at Fort Hunter Liggett. It is our plan to construct a combat vehicle maintenance facility at the post. This type of facility is known as the Unit Training Equipment Site, or UTES. The 40th Division receives the M-1 Tank in 1996 and will field the Bradley Fighting Vehicle in 1997. Construction of a UTES is essential to support this equipment. The range complex (MPRC) may need to be expanded to accommodate the training required for the Bradley crews. In order to qualify the tank crews and Bradley crews, we will need to use the existing range for 157 days per year. Aviation gunnery and other weapons requirements add an additional 90 days of range time needed for the 40th Division to qualify to Army standards. If the MPRC is expanded, the number of days required to qualify our soldiers would be reduced. More importantly, Camp Roberts is the only reserve component mobilization site in the Western United States. The ranges and maneuver complex at Fort Hunter Liggett are essential to the mobilization process.

The California National Guard has no interest in operating Fort Hunter Liggett's cantonment area. If the decision is made to relocate elements of the Test and Experimental Command, we would be interested only in acquiring the track vehicle maintenance facilities located on the post. This would suit our long-range purposes and obviate the need to construct a maintenance building mentioned in the previous paragraph. Other considerations include the continued operation of a Range Control organization and allowing access to the MEDEVAC crew building during periods of heavy troop concentration.

The California National Guard is vitally interested in the future of Fort Hunter Liggett. We want to be an active participant in the decisions that may be made concerning the installation. It is essential that Fort Hunter Liggett remain in the Army inventory. Since the California National Guard would be the primary user of Fort Hunter Liggett, it may be more efficient to license the maneuver, range, and buildings requested by us.

With minor additional funding, the existing staff at Camp Roberts could manage the facilities and property.

Sincerely,

A handwritten signature in dark ink, appearing to read "Tandy K. Bozeman", is written over a horizontal line.

Tandy K. Bozeman  
Major General  
The Adjutant General



**FORT HUNTER LIGGETT**



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**FORT  
HUNTER  
LIGGETT**



**FORT HUNTER LIGGETT**



- 
- **THE WESTERN TRAINING CENTER FOR THE USAR**
  - **A TOTAL FORCE TRAINING CENTER**



**FORT HUNTER LIGGETT**



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## **MISSION**

- **MAINTAIN AND ALLOCATE TRAINING AREAS FOR TRAINING AND TESTING**
- **PROTECT THE ENVIRONMENT SO THAT FHL REMAINS A USEFUL TRAINING AND TESTING AREA**
- **PROVIDE SUPPORT TO UNITS ASSIGNED TO FHL**



# **FORT HUNTER LIGGETT**



---

## **A BRIEF HISTORY**

### **LTG HUNTER LIGGETT**

**CHIEF of STAFF FOR GEN PERSHING WW I**

**FIRST COMMANDER OF I CORPS**

**1940 - ORIGINAL ACREAGE 266,950**

**158,000 ACRES FROM HEARST & 108, 950 FROM OTHERS**

**1941 - 6TH ARMY CAMP ROBERTS**

**1953 - SUBPOST OF FT ORD**

**1975 - DESIGNATED FT HUNTER LIGGETT**

**1990 - CURRENT ACRES 164,762**

**1993 - SUBINSTALLATION OF FT LEWIS, WA**



# FORT HUNTER LIGGETT



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## USARC TRANSITION

**18 NOV 93**

**ACTING SECRETARY OF THE ARMY  
APPROVED TRANSFER OF FORT HUNTER  
LIGGETT TO USARC**

**10 DEC 93**

**TRANSFER OF COMMAND AND CONTROL TO  
USARC**

**1 OCT 94**

**TRANSFER TO FORT MCCOY**





# **FORT HUNTER LIGGETT**



- 
- **AC MILITARY POSITIONS CONVERTED TO EITHER AGR OR CIVILIAN POSITIONS**
  - **MWR AND HOUSING**
    - **HQ FORSCOM RETAINS OVERSIGHT**
    - **RESPONSIBILITY OF POST COMMANDER**
  - **ALL OTHER FUNCTIONS TRANSFER TO USARC**



**FORT HUNTER LIGGETT**



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## **CRITICAL TO THE USAR:**

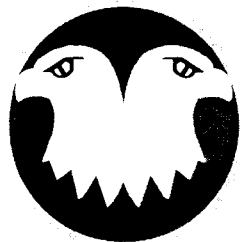
- **MAJOR TRAINING INSTALLATION ON WEST COAST**
  - **HEAVY CONCENTRATION OF USAR UNITS**
  - **REDUCED ODT FUNDING**
  - **LIMITED ACCESS TO OTHER INSTALLATIONS**



**FORT HUNTER LIGGETT**



- 
- **OFFERS USAR:**
    - **EXTENSIVE MANEUVER AREA**
      - **REAL TIME/DISTANCE TRAINING**
    - **ISOLATED TRAINING LOCATION**
      - **MINIMUM IMPACT ON COMMUNITIES**
      - **GREAT TRAINING FOCUS FOR SOLDIERS**



# **FORT HUNTER LIGGETT**



- 
- **INCREASED USAR TRAINING AT FHL**
  - **CONTINUED SUPPORT TO THE ARNG**
  - **USARC WILL PROVIDE SUPPORT PACKAGE**
    - **RELOCATION OF 91ST DIV (EX) LSB**
    - **CONSOLIDATION OF ECS**
      - **ELIMINATES LONG MOTOR MARCHES**
      - **SUPPORTS LANES TRAINING**
      - **SUPPORTS MOBILIZATION**





# FORT HUNTER LIGGETT



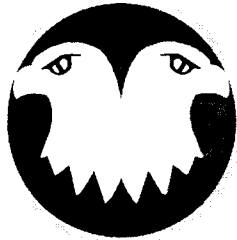
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## RECENT CONSTRUCTION

**\$MILLION**

<b>FY 94</b>	<b>FAM HSG 57 UNITS (DOWNGRADED FROM 154 UNITS)</b>	<b>12</b>
<b>FY 94-5</b>	<b>BARRACKS UPGRD 1+1</b>	<b>3.5</b>
<b>FY 95</b>	<b>YOUTH CENTER (MAJOR NAF)</b>	<b>1.2</b>

**ALL OTHERS CANCELLED BY FORSCOM**



# FORT HUNTER LIGGETT



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## BILLETING

**6 GUEST ROOMS W/BATH**

**6 GUEST ROOMS W/O BATH**

**24 BOQ/SEBQ**

**36 TRANSIENT QUARTERS**

**OPEN BAY BARRACKS WHICH CAN HOUSE 522 SOLDIERS**

**SUBSTANDARD BARRACKS FOR A MAX OF 228 SOLDIERS**

**STANDARD BARRACKS FOR A MAX OF 144 SOLDIERS**

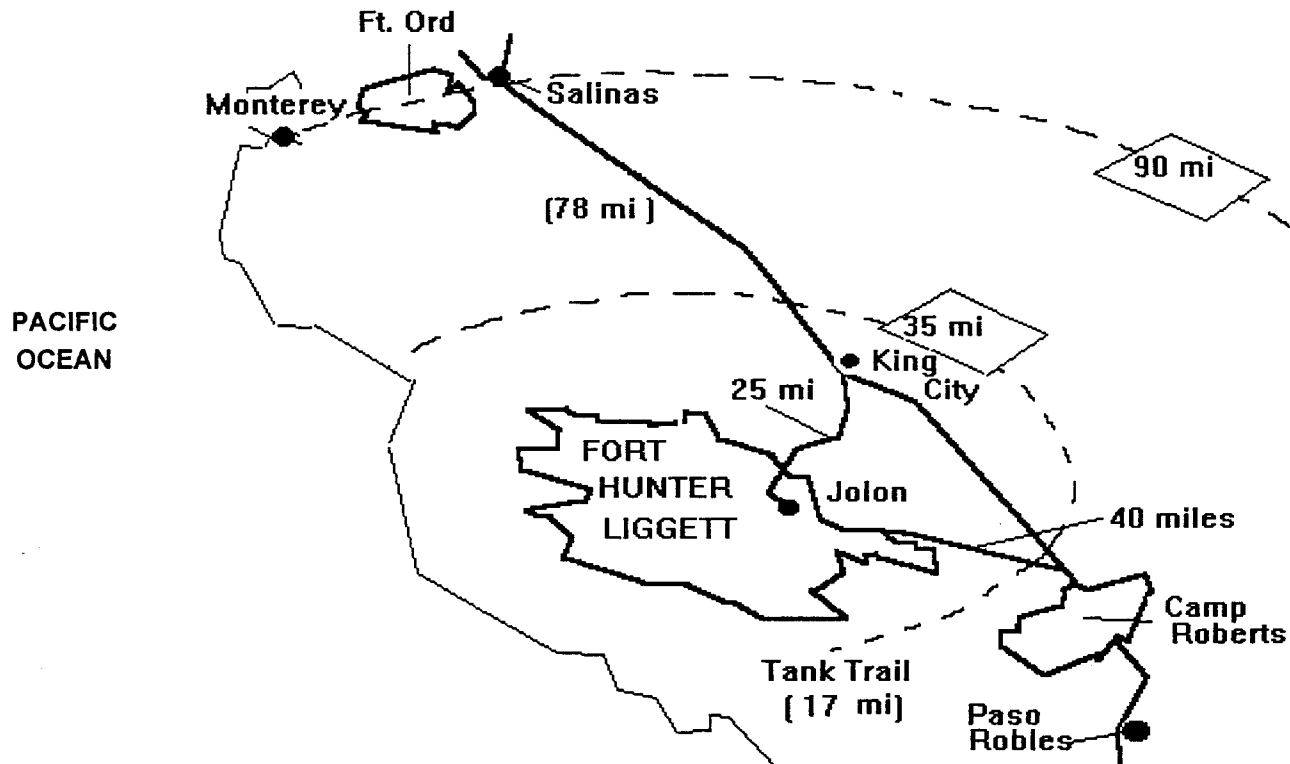
## HOUSING

**85 STANDARD FAM QTRS**

**1 SUB-STANDARD FAM QTRS**



# FORT HUNTER LIGGETT



TO FORT McCOY - 2,150 MILES  
TO USARC - 2,450 MILES





# FORT HUNTER LIGGETT



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## OUTLYING COMMUNITIES

### LOCKWOOD:

DISTANCE: 12 MILES POP: 405

SMALL GENERAL STORE

MOBILE HOME PARK

SCHOOL K-8

### KING CITY:

DISTANCE: 30 MILES POP: 8,500

MEDIUM GROCERY, SMALL STORES

RENTAL (MOBILES, HOMES, APT)

SCHOOLS K-8 & 9-12

### PASO ROBLES:

DISTANCE: 50 MILES POP: 20,150

GROCERY, CHAIN STORES, SHOPPING AREAS

RENTAL (HOMES, APT)

SCHOOLS K-8 & 9-12



# FORT HUNTER LIGGETT



---

## CLIMATE

AVG HIGH / LOW

WINTER	60	32
SPRING	70	37
SUMMER	95	51
FALL	80	41

## AVERAGE RAINFALL:

RAINY SEASON OCT - APR

18 INCHES

NON-RAINY SEASON

.51 INCHES



# FORT HUNTER LIGGETT



<b>CURRENT POPULATION</b>				
	<b>USAG</b>	<b>TEC</b>	<b>OTHER</b>	<b>TOTAL</b>
<b>MILITARY</b>	<b>15</b>	<b>327</b>	<b>132</b>	<b>474</b>
<b>MIL FAMILY</b>	<b>40</b>	<b>571</b>	<b>138</b>	<b>749</b>
<b>DAC/NAF</b>	<b>184</b>	<b>82</b>	<b>53</b>	<b>319</b>
<b>CONTRACT</b>	<b>24</b>	<b>198</b>	<b>4</b>	<b>226</b>
<b>TOTAL:</b>	<b>221</b>	<b>1178</b>	<b>327</b>	<b>1768</b>

AS OF: 10 APR 95



# FORT HUNTER LIGGETT

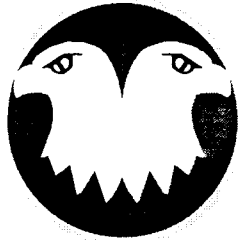


## DAILY WORKING STRENGTH

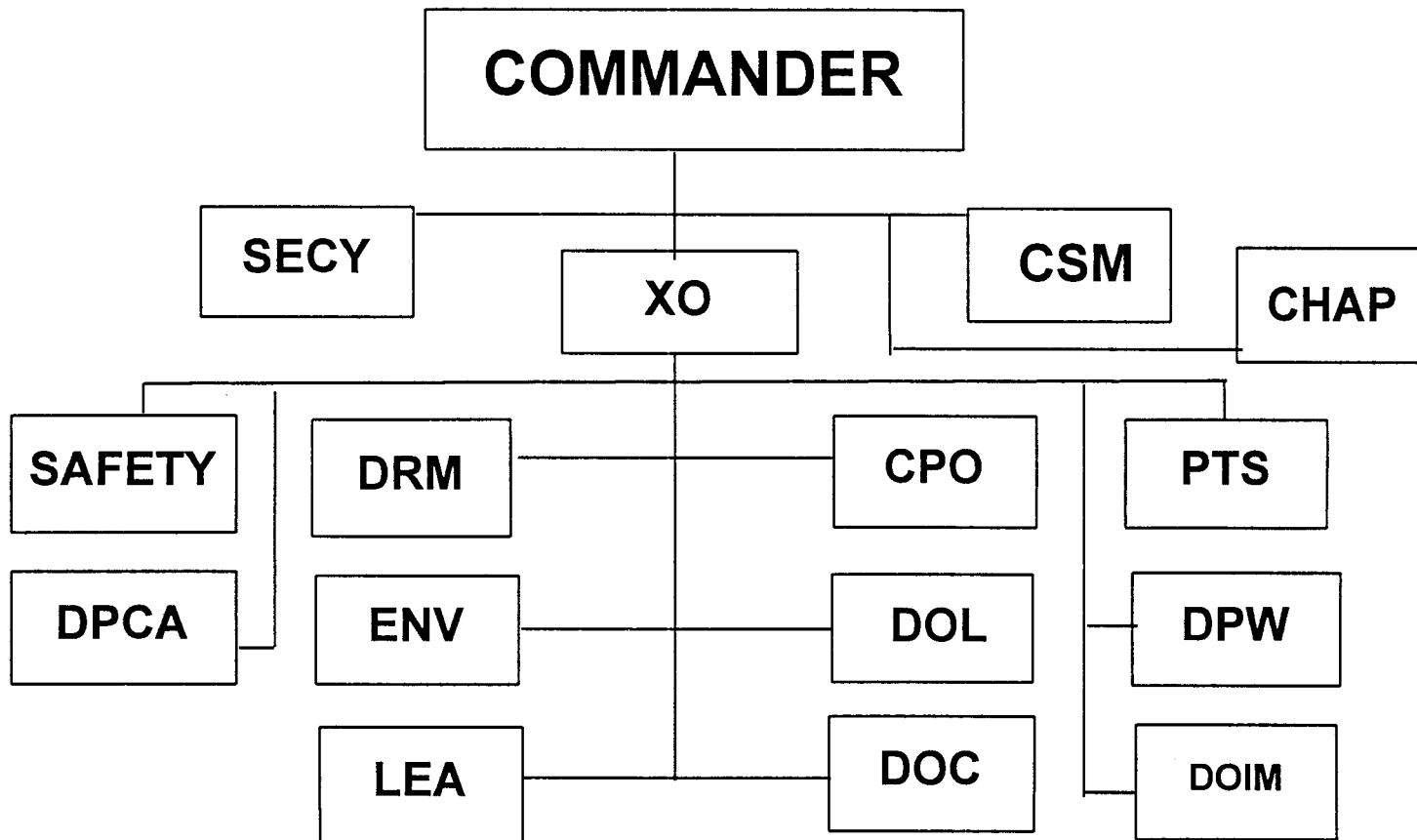
	OFF	EM	DAC/NAF	CNTRACT	TOTAL
GARRISON	2	13	142/42	24	23
HSC	2	13	4		19
TENANT:					
TEC	34	293	82	198	607
SATCOM	1	66	16		83
MET			5		5
SPACECOM	1	49	1	4	55
FLW 5-9			2		2
CAARNG			5		5
CMSY			8		8
AAFES			12		12
TOTAL:	40	434	314	226	1019

DOES NOT INCLUDE TEC TEST TEMPS

AS OF: 10 APR 95



# FORT HUNTER LIGGETT



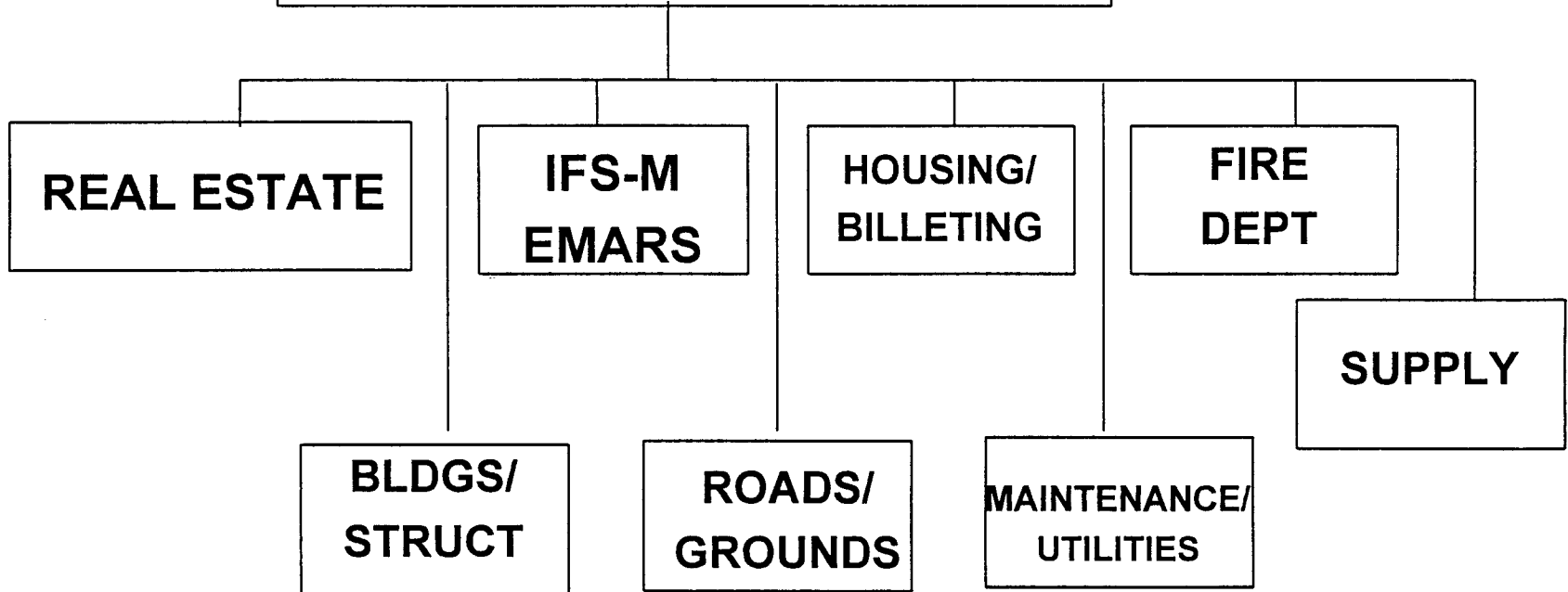


# FORT HUNTER LIGGETT



## PUBLIC WORKS

### FACILITY MANAGER

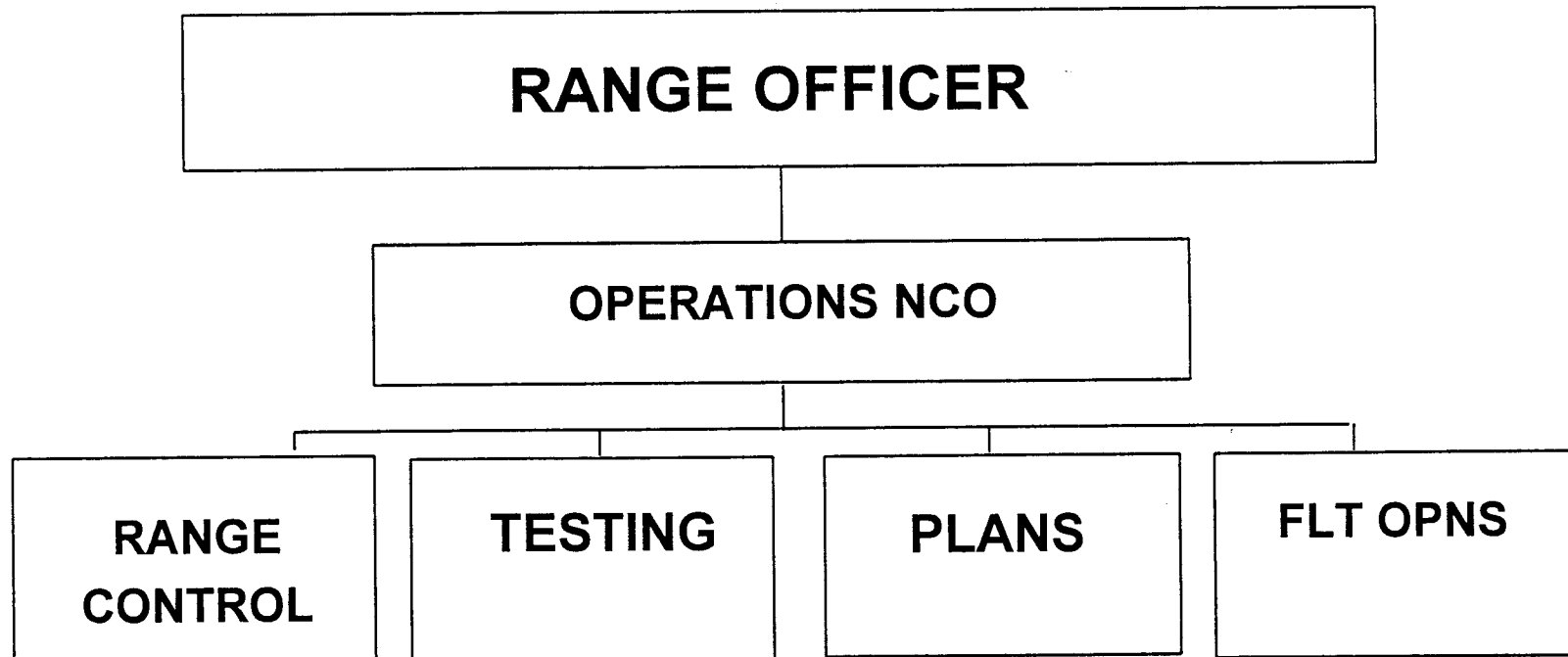




**FORT HUNTER LIGGETT**



## **PLANS, TRAINING AND SECURITY**

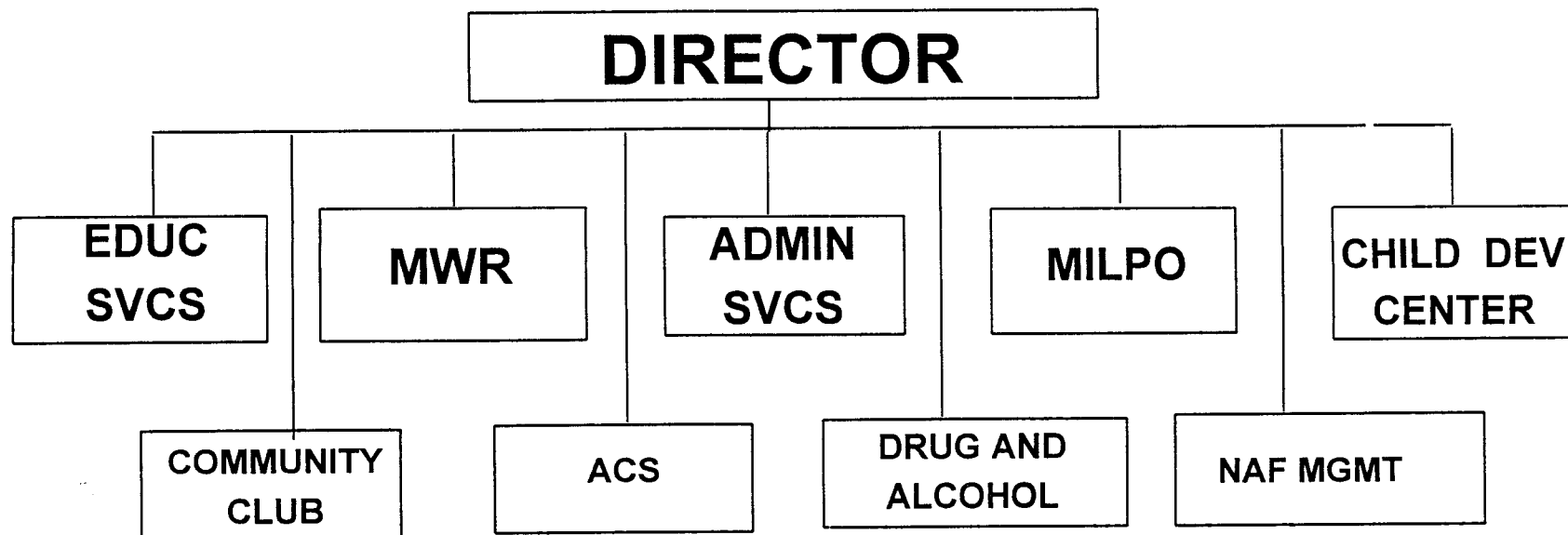




# FORT HUNTER LIGGETT



## PERSONNEL AND COMMUNITY ACTIVITIES





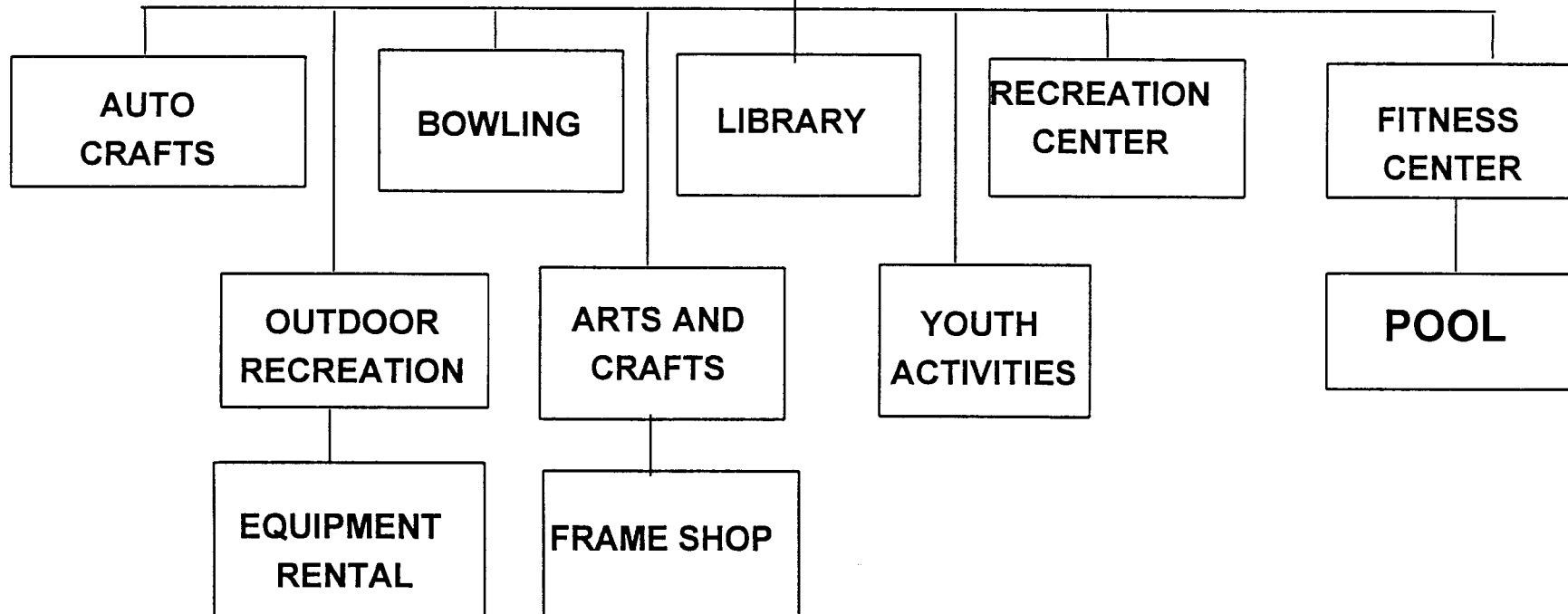


# FORT HUNTER LIGGETT



## MORALE AND WELFARE AND RECREATION

COMMUNITY RECREATION DIRECTOR

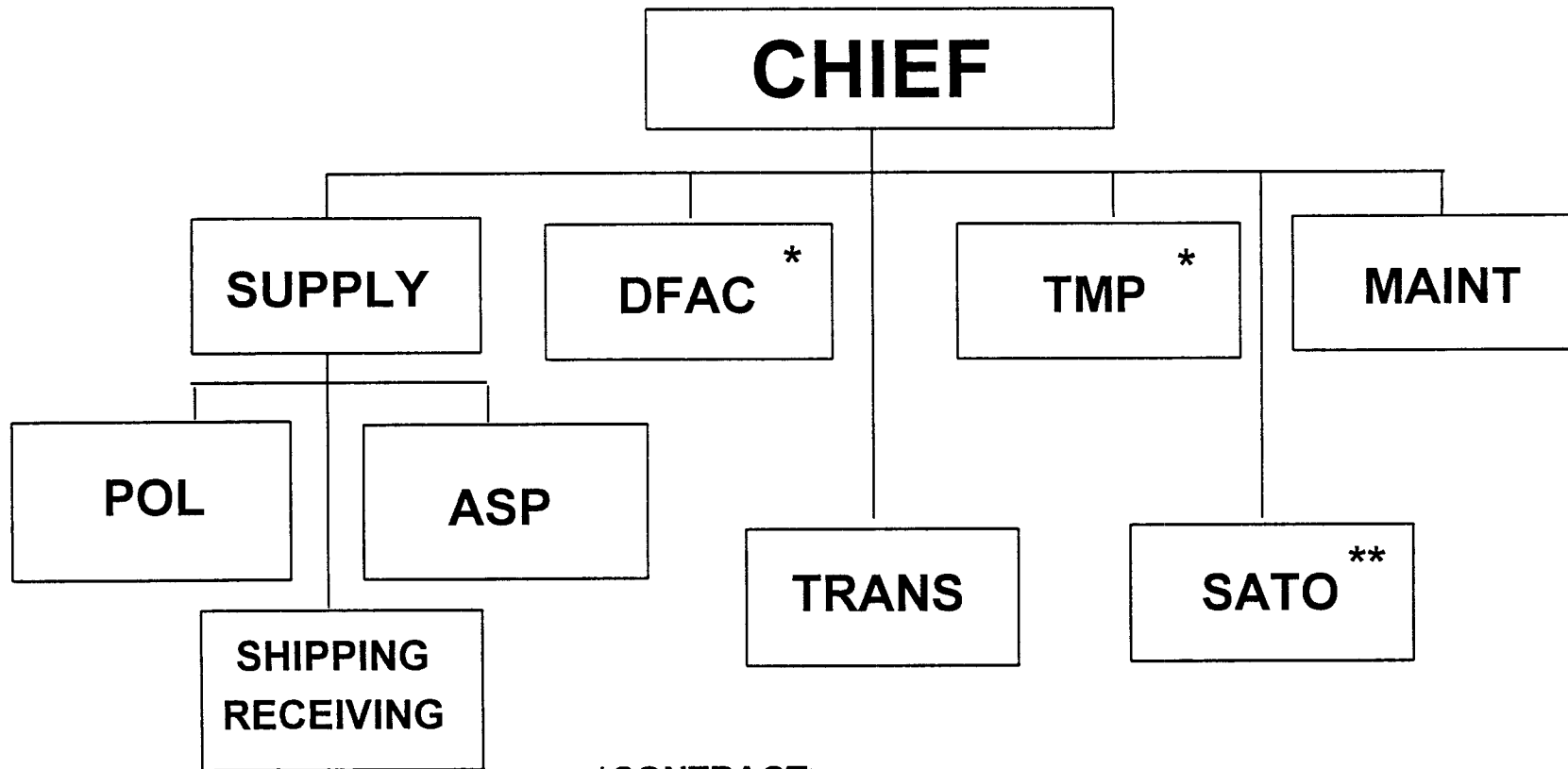




# FORT HUNTER LIGGETT

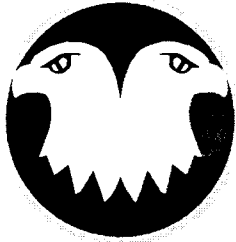


## LOGISTICS DIVISION



\*CONTRACT

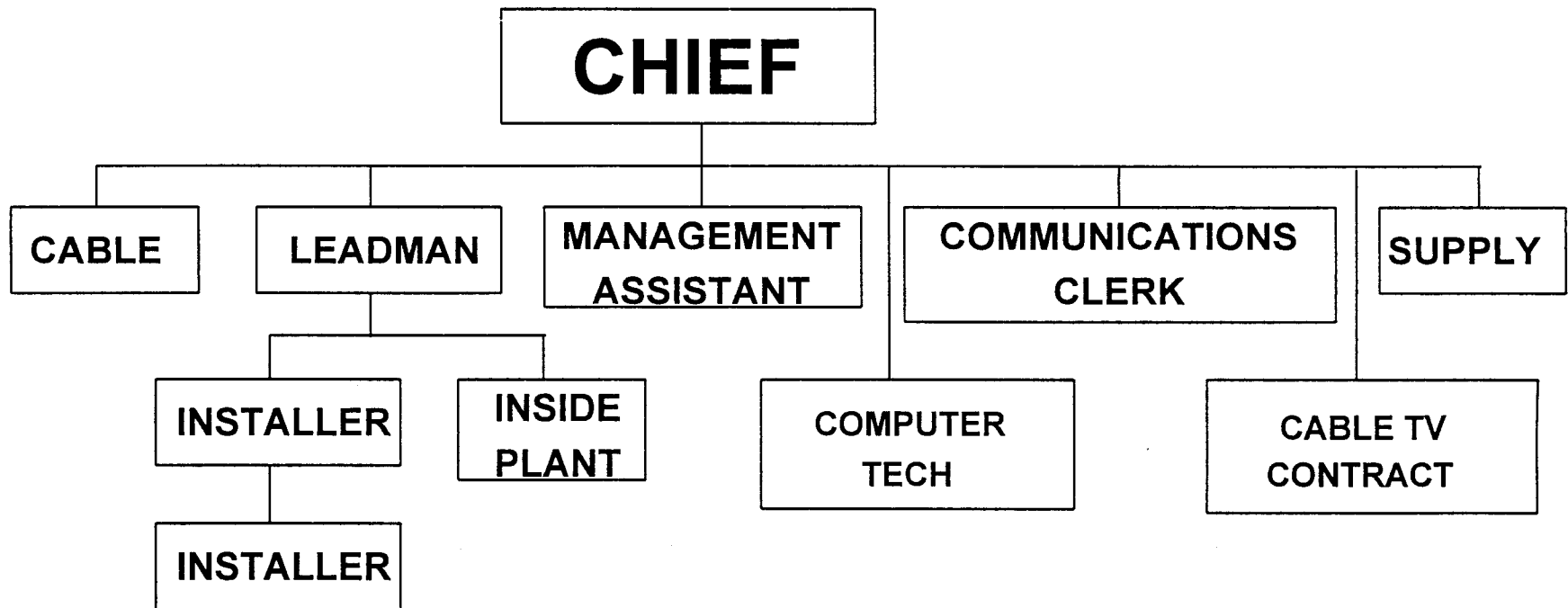
\*\*REMOTE TERMINAL



**FORT HUNTER LIGGETT**



## **INFORMATION MANAGEMENT**

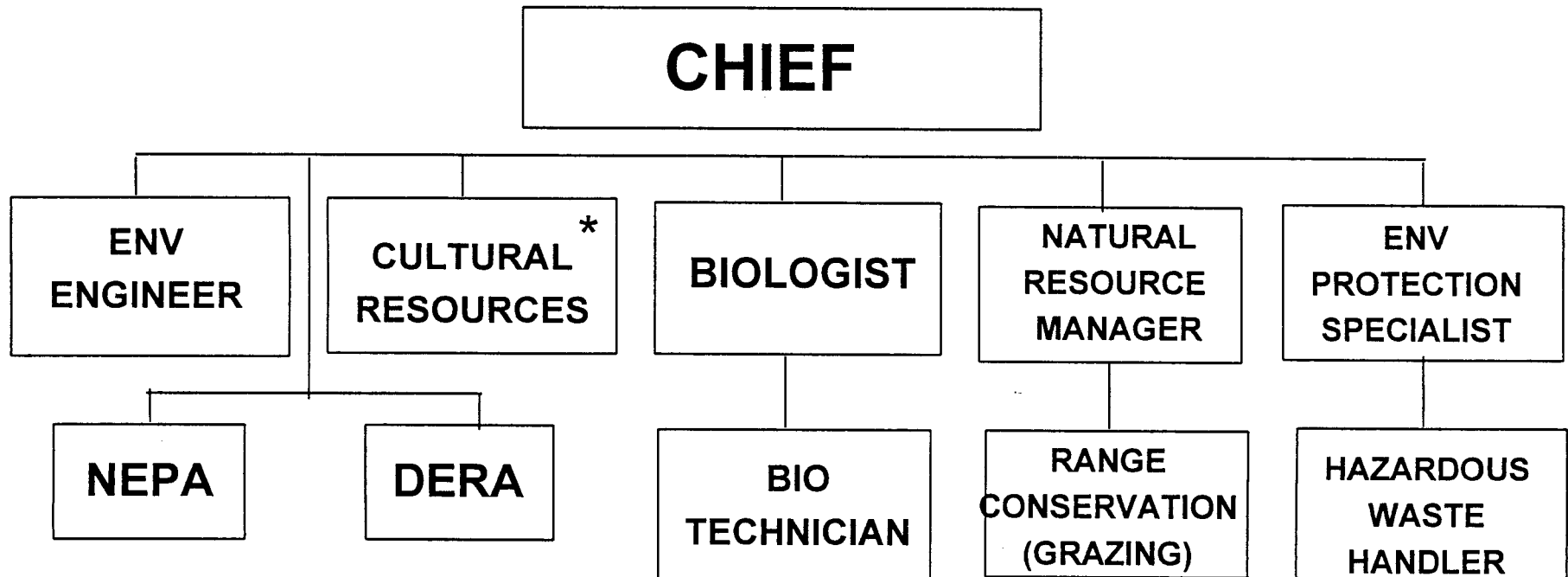




# FORT HUNTER LIGGETT



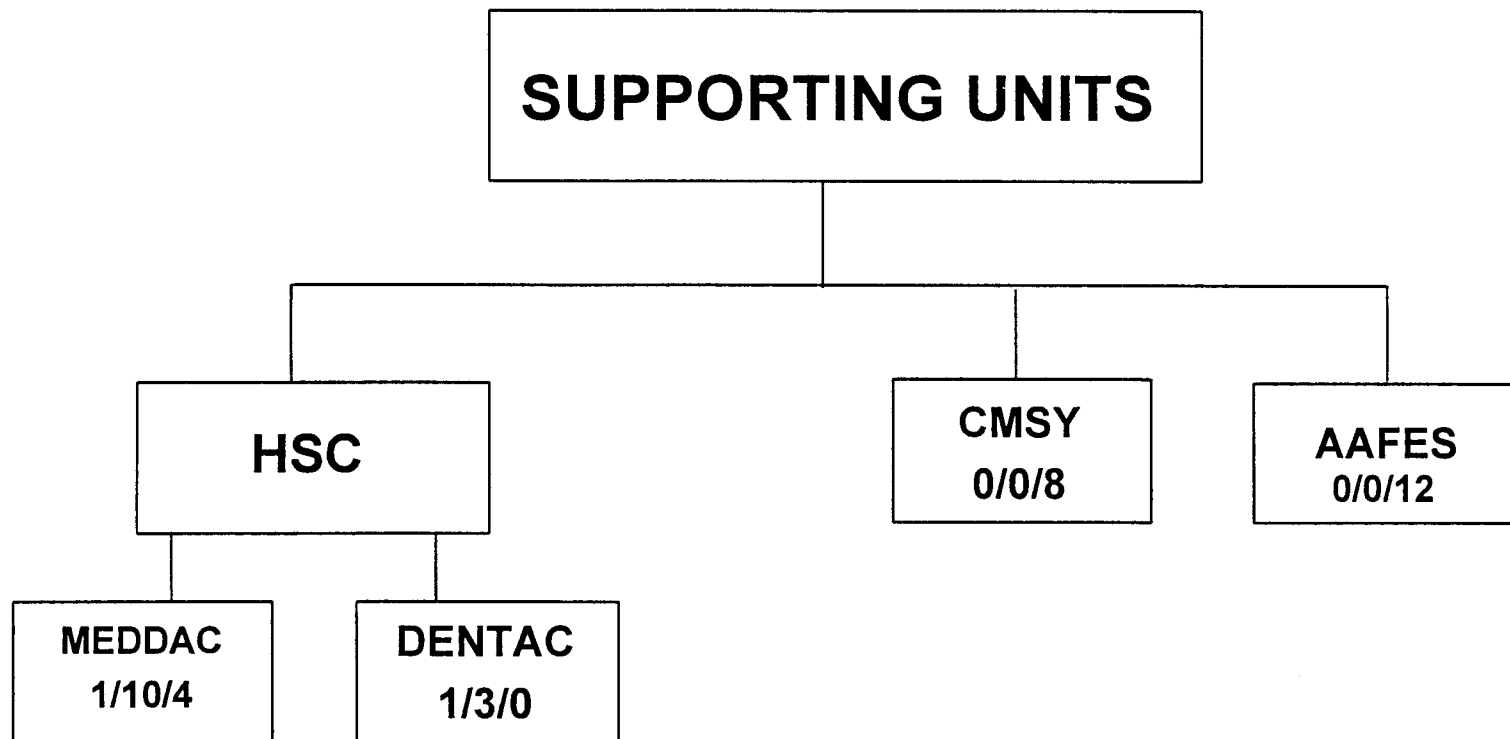
## ENVIRONMENTAL BRANCH



\* CONTRACT



# FORT HUNTER LIGGETT





**FORT HUNTER LIGGETT**



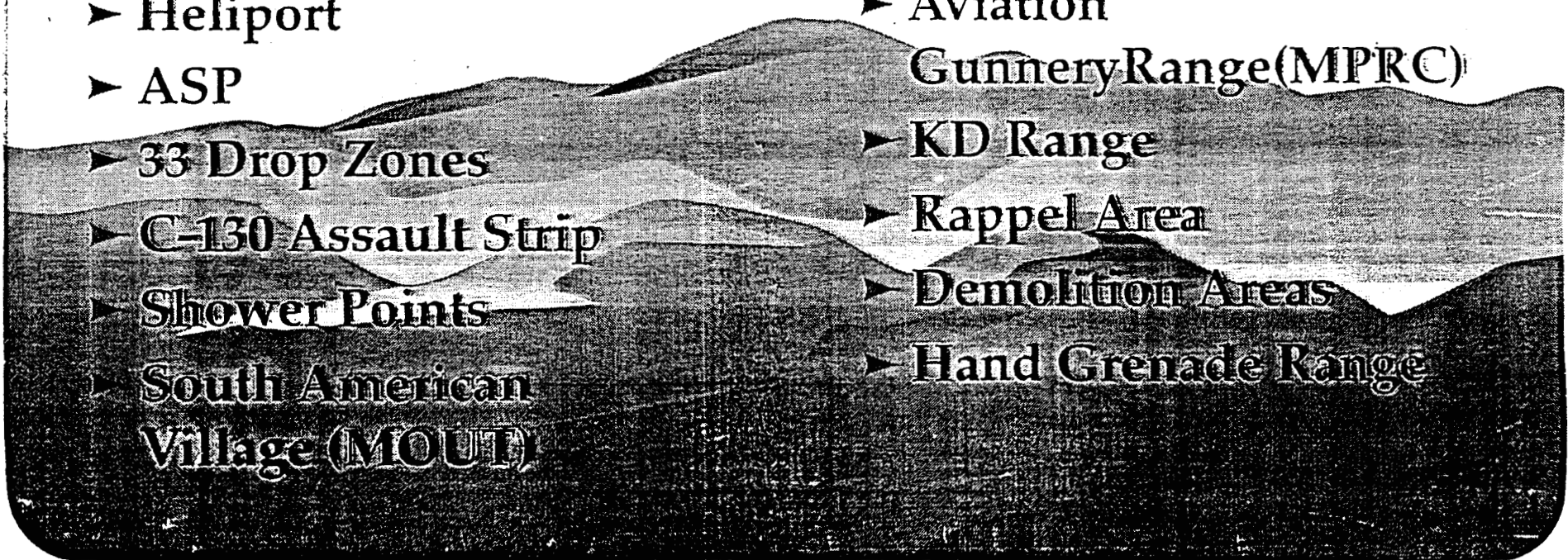
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## **HSC DETACHMENT**

- **0800 - 1700 MONDAY THRU FRIDAY**
- **CLOSED HOLIDAYS & WEEKENDS**
- **AMBULANCE SUPPORTED BY FIRE DEPARTMENT DURING OFF DUTY HOURS**
- **UNIT MEDICAL SUPPORT REQUIRED FOR TRAINING UNITS**

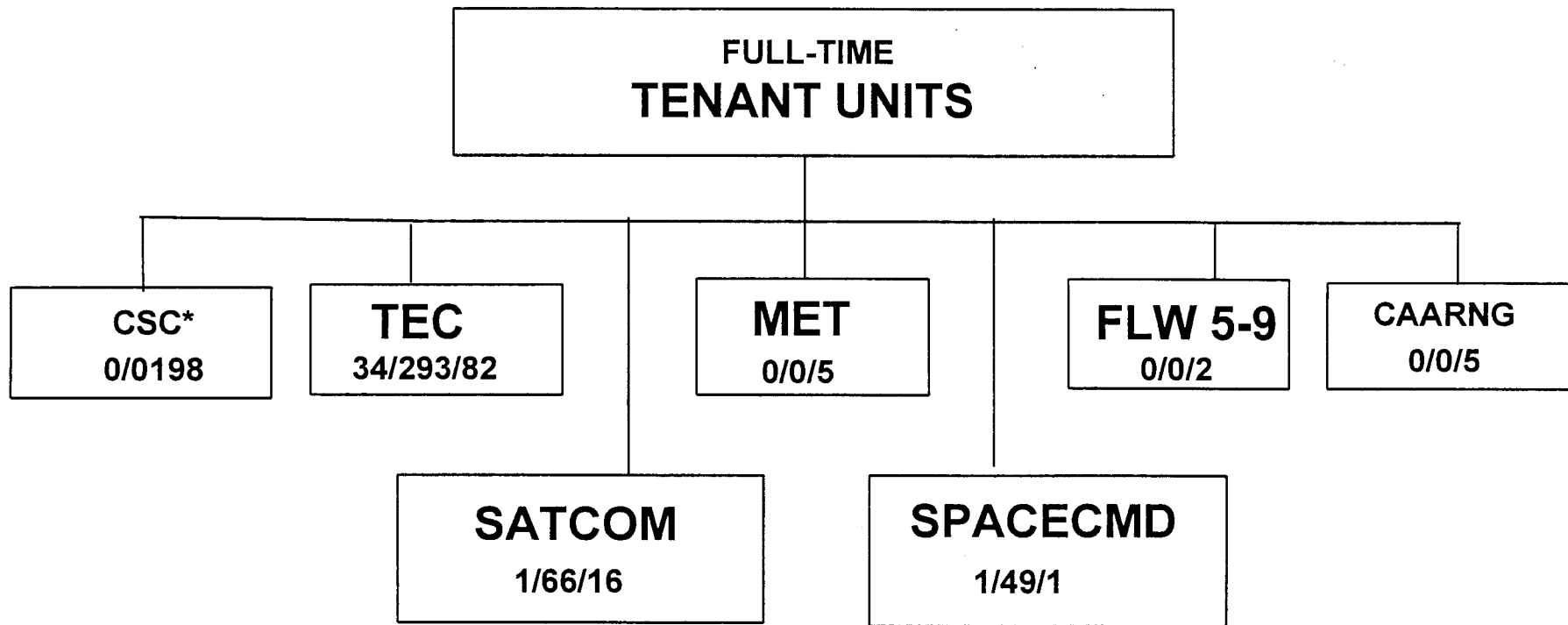
# *Fort Hunter Liggett. What We Have...*

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- ▶ Multi-Purpose Range Complex
  - ▶ 29 Maneuver /Training Areas
  - ▶ 165,000 Acres
  - ▶ Heliport
  - ▶ ASP
  - ▶ 33 Drop Zones
  - ▶ C-130 Assault Strip
  - ▶ Shower Points
  - ▶ South American Village (MOUT)
  - ▶ ADA May be fired from training area 20 and the MPRC
  - ▶ Artillery and Mortar firing areas
  - ▶ Aviation Gunnery Range (MPRC)
  - ▶ KD Range
  - ▶ Rappel Area
  - ▶ Demolition Areas
  - ▶ Hand Grenade Range
- 



# FORT HUNTER LIGGETT

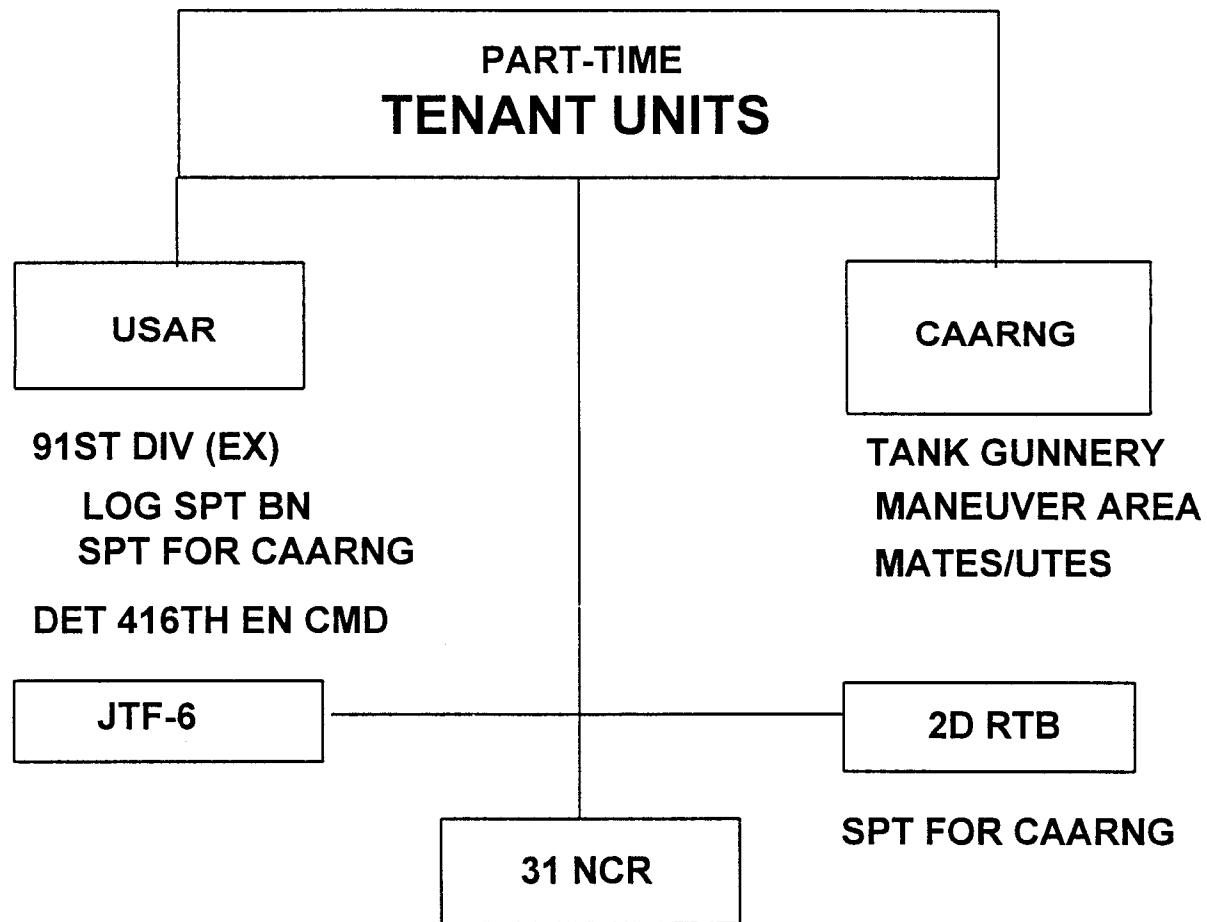


\* CONTRACT





# FORT HUNTER LIGGETT





# FORT HUNTER LIGGETT



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## UNIQUENESS OF POST

- 1800 FREQUENCIES AVAILABLE FOR TACTICAL MILITARY USE
- CAN USE MOST OF FREQUENCY SPECTRUM DUE TO REMOTE LOCATION
- THE ONLY POST WHERE NON-EYE-SAFE LASERS CAN BE USED IN 360° , FORCE-ON-FORCE MANEUVERS



# FORT HUNTER LIGGETT



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## MULTI-PURPOSE RANGE COMPLEX (LIGHT)

- 3 FIRING / MOVING LANES
- 15 VEHICLE DEFENSIVE POSITIONS
- 156 STATIONARY INFANTRY TARGETS
- 47 MOVING INFANTRY TARGETS
- 37 STATIONARY ARMOR TARGETS
- 7 MOVING ARMOR TARGETS



# **FORT HUNTER LIGGETT**



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## **CAMP ROBERTS (CALIFORNIA NATIONAL GUARD)**

- **29 AIRMILES FROM HUNTER LIGGETT**
- **CONNECTED TO HUNTER LIGGETT BY A 33KM TANK TRAIL WE MAINTAIN**
- **CONSISTS OF 152 SQ KM**
  - 5 SQ KM CANTONMENT**
  - 35 SQ KM IMPACT AREA**
- **2 DZ'S & 1 C - 130 CAPABLE ASSAULT STRIP**
- **SATCOM STATION**



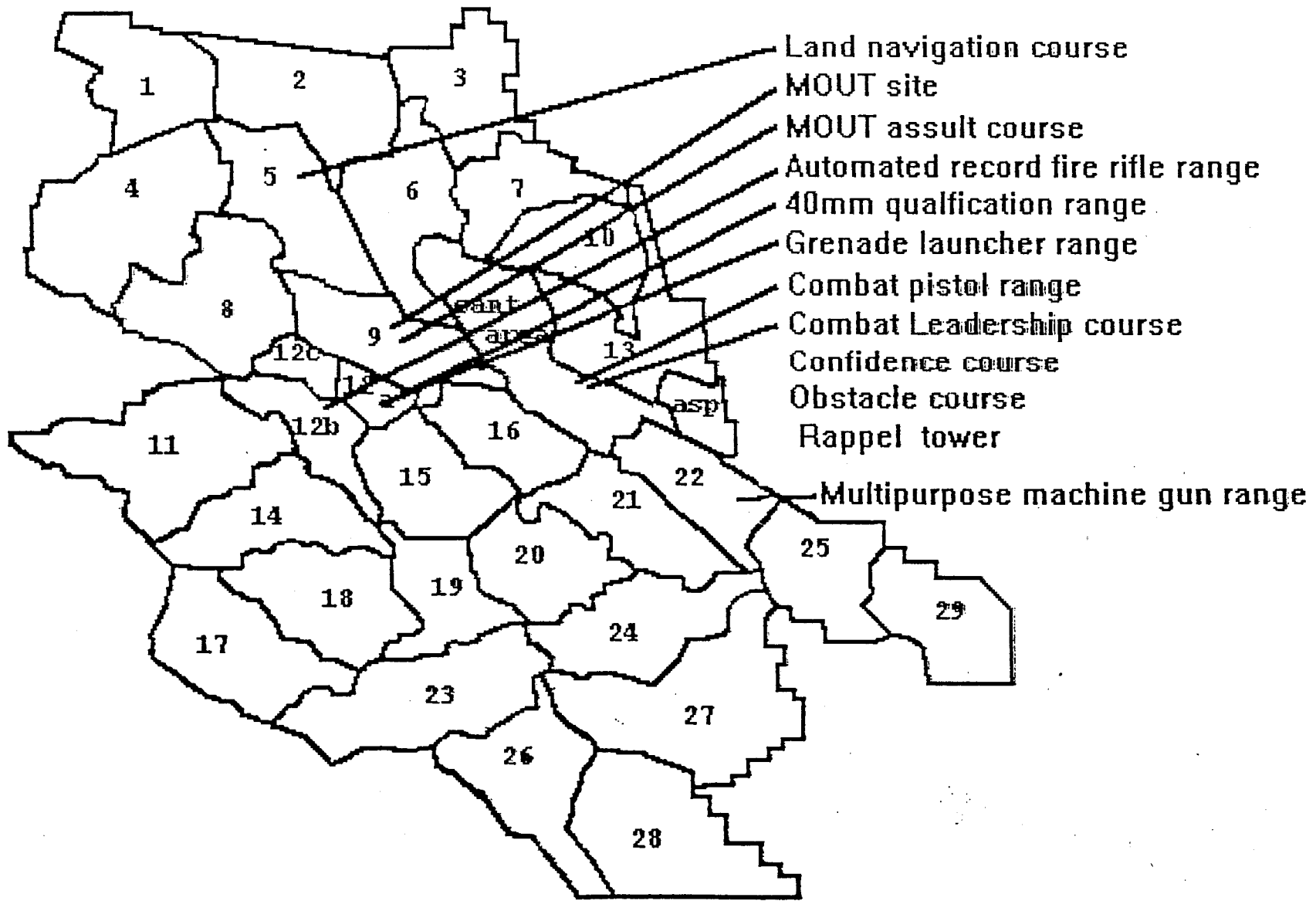
**FORT HUNTER LIGGETT**

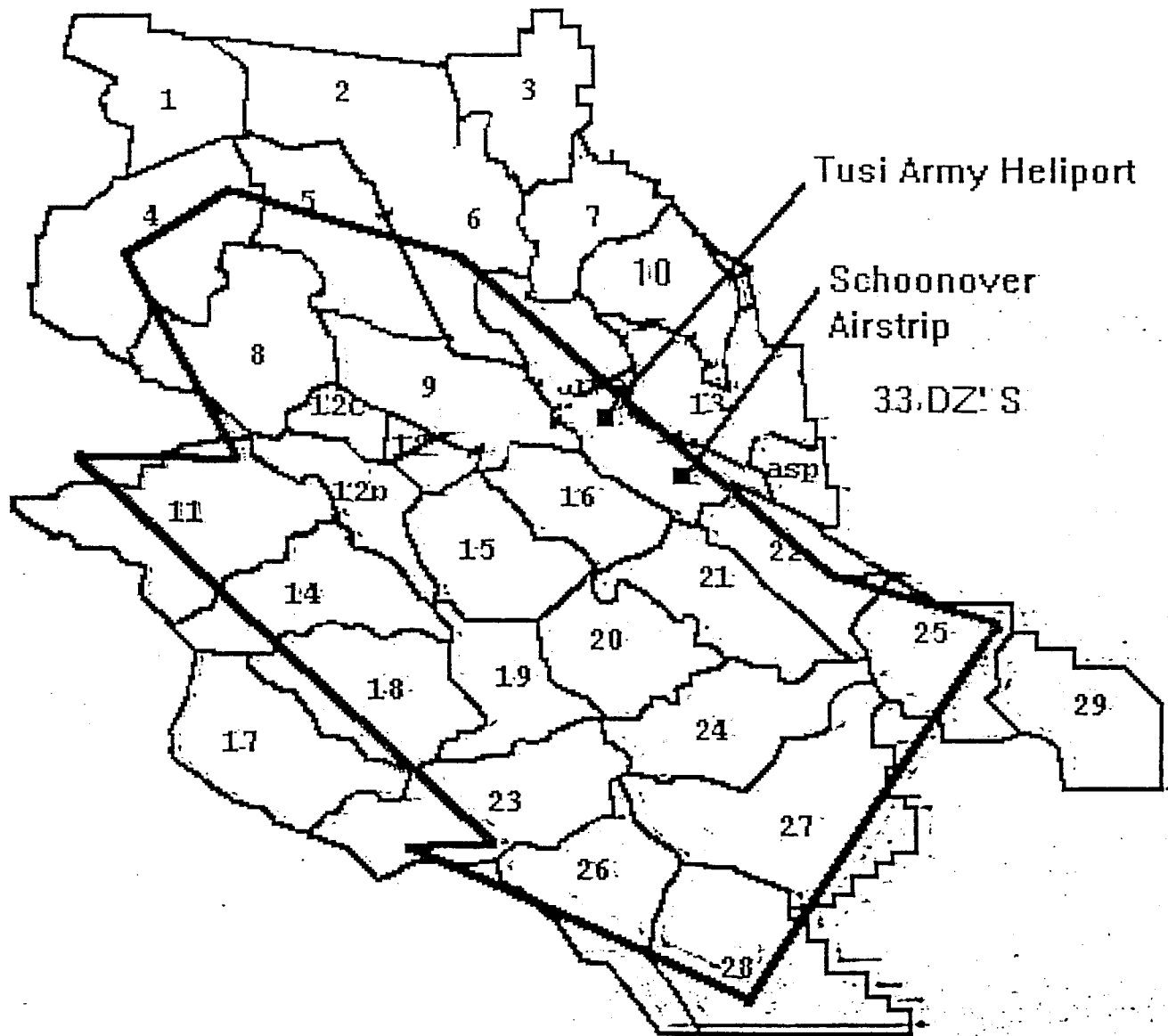


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**PLANS, TRAINING, AND SECURITY**  
**US FOREST SERVICE**  
**(LOS PADRES NATIONAL FOREST)**

- **92,000 ACRES**
- **REQUEST LAND 90 DAYS PRIOR TO TRAINING**
- **MUST IDENTIFY TYPE OF TRAINING**
- **LIMITED PYROTECHNICS**
- **NO OFF- ROAD VEHICLE TRAFFIC**
- **MUTUAL AID - - MOU AGREEMENTS**







# FORT HUNTER LIGGETT



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## RANGES AND TRAINING FACILITIES REQUIREMENTS

- COMPAT PISTOL QUALIFICATIONS (CPQC)  
MILITARY PISTOL QUALIFICATION COURSE (MPQC)
- BASIC 25 METER FIRING RANGE (ZERO)
- AUTOMATED RECORD-FIRE (ARF) RANGE
- MULTIPURPOSE MACHINEGUN TRANSITION RANGE (M60, M2, & SAW)
- MULTIPURPOSE GUNNERY RANGE (MK-19) 40MM QUALIFICATION
- GRENADE LAUNCHER RANGE (M79 & M203)





**FORT HUNTER LIGGETT**



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## **RANGES AND TRAINING FACILITIES REQUIREMENTS (CONT)**

- **MILITARY OPERATIONS ON URBANIZED TERRAIN ASSAULT COURSE (MAC)**
- **MILITARY OPERATIONS ON URBANIZED TERRAIN COLLECTIVE TRAINING FACILITIES (MOUT CTF)**
- **CONFIDENCE OBSTACLE COURSE**
- **CONDITIONING OBSTACLE COURSE**
- **RAPPEL TOWER**
- **LAND NAVIGATION**

**RANGE CONTROL WEEKLY BRIEF (as of 19 APRIL 95)**  
**Training Scheduled at Fort Hunter Liggett 19 APRIL TO 26 APRIL 95**

UNIT	TIME PERIOD	TRAINING AREAS	NUMBER OF PERSONNEL	SCHEDULED TRAINING
31 NCR USN Port Hueneme, CA	14 Apr - 5 May	9,10,13,20,21,22, 24,25,27	1,000	Defensive Ops H2O Purification Live fire Demo
CXB	17 - 20 Apr 24 - 4 May	20,21,22,24	85	Bradley Gunnery
CXB	17 -21 Apr	10,13	160	Weapons Qual
2D RTB USA Fort Lewis, WA	18 -25 Apr	9,12,15,20,21,22, 24	19	Recon
4TH ROTC U of S.F..	19 - 23 Apr	2,3,5,6	83	STAC, Squad Patrolling Land Nav
4th Force Recon USMC Reno, NV.	21 - 23 Apr	6,7,9,10,13,16 Hammer DZ, Schoonover LZ	60	Static Line/MFF, Para Ops & Team Recon Patrols
HQ 1-149th AR ARNG Salinas	21 - 23 Apr	MPRC, 20,21,22,24	300	M60A3 Tables IV & V
CXB	26 -27 Apr	15	65	CTT Training



# **FORT HUNTER LIGGETT**



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## **CAARNG USE OF POST**

- **MPRC (5 CIV)**
- **UTES/MATES (FY97) (5-10 CIV)**
- **IDT 4800-9600 TROOPS/YEAR**
- **AT 4500 TROOPS/YEAR**



# FORT HUNTER LIGGETT



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## FUNDING FY 95

MORALE, WELFARE, RECREATION (OMA)	\$788K
ARMY FAMILY HOUSING (OMA)	\$274K
EDUCATION CENTER (OMA)	\$126K (FLW)
WILDLIFE (21X)	\$60K
GRAZING	\$111K
ENVIRONMENTAL (OMAR)	\$1,700k
OTHER BASOPS (OMAR)	\$9,531K
	<hr/>
TOTAL:	\$12,590K



# FORT HUNTER LIGGETT



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## SUPPORT PROVIDED TO TEC

- BILLETING
- HOUSING
- ADMIN SPACE
- WAREHOUSE SPACE
- MORALE, WELFARE, RECREATION
- OFFICIAL TRAVEL
- ENVIRONMENTAL
- MAIL AND TELEPHONE
- DRUG AND ALCOHOL
- TRANSPORTATION MOTOR POOL
- DINING FACILITY
- SOME SHIPPING & RECEIVING
- CIVILIAN PERSONNEL OFFICE
- LAUNDRY
- ARMY COMMUNITY SERVICES
- ARMY EMERGENCY RELIEF
- BASIC MEDICAL AND DENTAL CARE
- MILITARY PERSONNEL OFFICE



# **FORT HUNTER LIGGETT**



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## **BASOPS SUPPORT TEC PROVIDES TO ITSELF DUE TO LACK OF CAPABILITY OF USAG**

- **GSA CONTRACT FOR NON-TACTICAL VEHICLES**
- **CENTRAL ISSUE FACILITY FOR INDIVIDUAL MILITARY EQUIPMENT**
- **SOME SHIPPING & RECEIVING**
- **PUBLIC AFFAIRS OFFICE**
- **PROTOCOL**
- **GENERAL SUPPORT MAINTENANCE FOR TACTICAL VEHICLES**



# **FORT HUNTER LIGGETT**



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## **SUPPORT RECEIVED FROM TEC**

- **FREQUENCY MANAGEMENT**
- **WEATHER FORCASTING (FROM MET TEAM WHICH SUPPORTS TEC)**
- **MINOR ENGINEER SUPPORT**
- **CHAPLAIN**
- **LOCAL AREA NETWORK - ELECTRONIC MAIL**
- **SOME PUBLIC AFFAIRS**



**FORT HUNTER LIGGETT**



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**FORT  
HUNTER  
LIGGETT**





COMMANDER  
HQ, FORT HUNTER LIGGETT  
FORT HUNTER LIGGETT, CA 93928-5000

TELEPHONE: DSN 686-2505 COMM (408) 386-2505  
FAX: DSN 686-2011 COMM (408) 386-2011

TO: LTC Bailey  
NAME OFFICE SYMBOL PHONE#

NUMBER OF PAGES (INCL HEADER) 9

FROM: Cindy  
NAME OFFICE SYMBOL PHONE#

COMMENTS: For LTC Mc Nernery  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

SIGNATURE: \_\_\_\_\_ DATE: \_\_\_\_\_

April 18, 1995

*Draft*

Office of the Commander

Monterey County  
Intergovernmental Affairs  
Veronica A. Ferguson  
P. O. Box 180  
Salinas, California 93902

Dear Ms. Ferguson:

The assignment of 918 MHz for instrumentation at Fort Hunter Liggett was made in 1978, and is in accordance with the provisions of the National Telecommunications and Information Administration (NTIA) manual in the 902-928 MHz band as a "radiolocation" service. With a bandwidth of 20 MHz, the assignment uses nearly all of the band. As noted in the NTIA manual, "the band 902-928 MHz (center frequency 915 MHz) is designated for industrial, scientific and medical (ISM) applications. Radio communication services operating within this band must accept harmful interference which may be caused by ISM applications." Additionally, "Government fixed and mobile radio services are permitted in the band on a secondary basis."

At the time of the development of the Test and Experimentation Command, Experimentation Center's instrumentation computer network, technology made the use of the 902-928 MHz band ideal. Additional incentives for development included terrain features at Fort Hunter Liggett (surrounded by mountains) and isolation from urban areas and other users of the electromagnetic spectrum. Over the years, the initial instrumentation has been upgraded time and time again, to reach its current capabilities. Those capabilities provide for equipping 250 players with instrumentation which is valued in excess of \$10 million at 1995 costs. This figure includes only those items using 918 MHz transmissions.

A parallel system of instrumentation was developed and is in use at the National Training Center, Fort Irwin, California. However, it is being replaced by a system which greatly increases the number of participants, but decreases the amount of data available for each player. TFC has requested the transfer of selected hardware from Fort Irwin, which includes approximately 600 units for individual players, and associated systems.

As stated, Fort Bliss, Texas, is contiguous to White Sands Missile Range (WSMR), New Mexico. WSMR is a Department of Defense research, test and development facility, which uses 915 MHz as a "safety" frequency in flight termination for missiles. Additionally, it is used in formation tracking/controlling systems.

According to Mr. Stanley Greene, Department of Defense Area Frequency Coordinator, White Sands, 918 MHz could be used at Fort Bliss, Texas. However, that use would be on a secondary

Apr-21-95 02:02A

## RADIO FREQUENCY AND FORT HUNTER LIGGETT

The radio frequency (RF) spectrum is a limited and critical natural resource, essential to the Department of Defense. The amount of usable spectrum is finite and requires efficiency in management to ensure its availability.

The multitude of electronic emitters within any given area requires compatibility of assigned frequencies. Those frequencies are listed on two separate Tables of Frequency Allocations, the U.S. Government Table and the Federal Communications Commission (FCC) Table.

The government portion of the spectrum is coordinated through the Administrator, National Telecommunications and Information Administration (NITA) who is advised by the Interdepartmental Radio Advisory Committee (IRAC) comprised of representatives from twenty-one government departments and agencies. The FCC is the responsible agent for regulation of the non-government portion of the spectrum, which includes civil users, state and local governments.

The increased demands placed on the RF spectrum by both civil and government interests have already saturated some areas which now require time sharing. In many areas hosting government or manufacturing facilities, there is a great deal of competition with required spectrum use that provides services demanded by society, such as TV, radio, personal communications, etc. This is not a major factor at the TEXCOM Experimentation Center.

Fort Hunter Liggett, California, enjoys a geographical location which provides unique opportunities for the use of emitters in the test and evaluation of equipment, as well as the test and evaluation of newly developed emitters themselves. The physical terrain features surrounding Fort Hunter Liggett limit normal broadcast distances, and in turn, limit intrusion of RF from outside sources. The installation is located adjacent to agricultural and forestry areas, with a sparse, scattered population. The nearest major industrial complex is Salinas, approximately 70 miles away. Located midway between Los Angeles and San Francisco, the facility is serviced by an excellent highway system with a rail head at adjacent Camp Roberts. It is not likely that Fort Hunter Liggett will be exposed to severe population pressure in the foreseeable future.

The remote location and surrounding terrain features are assets which add to the attractiveness of Fort Hunter Liggett to users of the electromagnetic spectrum. It is important that the Department of Defense realize that the availability of the RF spectrum at this installation cannot be duplicated elsewhere. The uniqueness of the geographical features, coupled with current levels of instrumentation, constitute an asset that should be maintained and protected in the future.

basis to scheduling of 915 MHz at WSMR. Scheduling conflicts with WSMR activities were a contributing factor in the decision to test the Apache Longbow at Fort Hunter Liggett instead of Fort Bliss, Texas.

The abandonment of 918 MHz for another frequency to provide the data collected by TEC instrumentation presents a multitude of challenges. At present, no systems are available from commercial sources which could be used to duplicate the TEC capabilities. Development of one such system currently underway has already exceeded \$110 million, and is not expected to be fielded in the near future. And, that effort was not designed to provide the same degree of sophistication found in TEC instrumentation.

Fort Hunter Liggett has provided TEC the environment necessary to increase its capabilities by developing high tech, state-of-art data collection instrumentation without interference or competition. The Fort Bliss/White Sands Missile Range offers an environment already heavy with research, development, test and experimentation instrumentation. The relocation of TEC facilities to Fort Bliss will result in some loss of business in the test and evaluation arena.

Sincerely,

Thomas K. McNerney  
Lieutenant Colonel, U S Army  
Commanding

*rich  
font*

## **The Test and Experimentation Command Instrumentation Legacy and the Pitfalls of Relocating.**

### **Background:**

Instrumentation utilized by the Test and Experimentation Command, Experimentation Center (TEC), Fort Hunter Liggett, California, was developed in the 1970's. It has evolved to the Armies most sophisticated hardware and methodologies to test new weapon systems in Combined Arms Battalion level exercises. Through the years the test capabilities have extended well beyond those of "testing to spec". The ability to experiment with various force mixtures, conceptual weapons and emerging tactics has become extremely sophisticated in the Fort Hunter Liggett Virtual Battlefield. These experiments are highly realistic mock battles in which casualties are assessed by a computer using state of the science weapon flyout and damage simulation. These Real Time Casualty Assessments allow examination of weapon systems effectiveness, organization, and tactics in an environment as close to actual combat as possible. The experiments are conducted under day, night, obscured or unobscured conditions with individual weapons, combat vehicles, helicopters, fixed-wing aircraft, crew served weapons, or infantry direct fire weapons.

### **Instrumentation Functional details:**

The instrumentation at TEC encompasses equipment that performs data gathering, control, reduction, or simulation functions. The data gathering ranges from position location and weapon status updates every 3 seconds on slow moving vehicles to man-computer interface activities updated many times a second for sophisticated systems such as Longbow Apache. The control system allows all position location and engagement activities for up to 250 players to be individually monitored in real time. The reduction capabilities allow for Level I (raw data) to be merged, verified, quality controlled and developed into a Level III data (smoothed, blanks accounted for and time sorted) in time to have emerging results effect conduct of the ongoing test. The simulation includes detailed weapon flyout for end game results and live to virtual replication; using 3 dimensional perspective views for any player in real time. The simulation is at the highest resolution (1 meter) for any range in the country and has been used effectively to assess Longbow masking issues. It has proven accurate enough to be used in post trial accident reporting to indicate which tree a helicopter blade struck.

Key to the instrumentation is the telemetry system which operates at 918 MHz, with a 15 MHz bandwidth. Each player is equipped with a specifically programmed module (current market price \$40K each), which transmits identification, location, and events data to a centralized computer system. The communications are two way, messages are sent to each player to add tactical realism by signalling artillery events and indicating damages to weapon systems. Data collected by the suite is processed by complex computer systems employed to produce plots, graphs, diagrams, charts and diagnoses of player instrumentation hardware and firmware in real-time.

The use of TEC data collection technology at other locations is being programmed with the fielding of MTEC (a suite comprised of the RTCA and supporting instrumentation.) This suite is based on the Longbow Apache FDTE and IOTE proven technologies of GPS, the huge space savings and hardening gained by

converting the central processor to a parallel processing computer and the mobile design of the existing telemetry system.

**Pitfalls of relocating TEC:**

There are four severe operational and technical pitfalls which should be considered in the proposals to move TEC to Fort Bliss: FHL land is unmatched in tactical realism and in technical challenge for the weapon systems we see on the material developers drawing boards; the telemetry link used by TEC is in direct conflict with existing high priority use of the same frequencies at Ft Bliss; FHL provides a huge, safe exercise area to use non eye safe laser technologies which provide critical ranging and guidance features to current and emerging weapon platforms; and TEC/FHL has become a DOD canonical site for the development and validation of digitized terrain and environmental models.

The FHL combination of mountains, rolling hills, oak forests and wide open spaces offers DOD's best smorgasbord of technical and operational challenges to the systems of the future. The cooperation of the Forest Service, proven during Longbow Apache, adds a new dimension for Joint and Special Operations extending from the Ocean to the well instrumented target area in FHL proper. An existing digitized corridor stretching from the ocean to the FHL playing area makes massive Joint Operations including Aircraft Carrier activities easily achievable in a Virtual Operational Test Battlefield with a direct bridge to reality. Live players are easy to insert at key functional positions throughout the instrumented range. FHL may not go away, but with a move the stewardship of the land, the intimate knowledge of how and when to use it will pass as will the foot in the door status that being on location affords. Real costs associated with this loss of stewardship can be equated to TDY expenses for the site surveys and terrain walks that are the precursor to all tests. These are estimated to equate to three man weeks per test times six tests and candidate tests per year times \$1K per excursion. The equation includes an efficiency loss of 3/5 of each man week due to the impact on dwindling staff, to perform what, if on site could be accomplished in two days per excursion. Less tangible costs associated with the loss of stewardship are the miss placement of key operational tests. In the last ten years about one test a year ends up at FHL because the TEC stewards of the range have competed aggressively to move the test off less demanding terrain. These tests typically have ranged from ten to 30 million dollars to conduct and the results have dramatically changed Army tactics and weapon system procurement strategies. A simple formula that can be estimated is a 25% degradation in test outcomes due to the misplacement of tests. If applied to the cost of the smaller operational tests this equates to \$2.5 million dollars a year wasted. If the wrong decision, for example Sgt. York, is the outcome of a test that does not challenge the system, real costs can be counted in Billions of dollars.

Stewardship Cost losses (annual)	
Survey Travel Costs	$3*6*1000 = \$18,000$
Loss of efficiency costs	$3*6*3/5*(80000)/52 = \$16,600$
Potential Misplaced Test Cost	\$2,500,000
Potential Wrong Decision Cost	BILLIONS of dollars
Total	\$2,524,600

Ft Bliss is contiguous to the White Sands Missile Range, New Mexico, a Department of Defense test facility. White Sands operates a tracking and control system throughout its range complex utilizing 915 MHz at a 15 MHz bandwidth. The system is used in full-scale target control (drones) and flight termination, and is considered a "safety" frequency. According to Mr. Stanley Greene, the Department of Defense Area Frequency Coordinator at White Sands, TEC's use of 918 MHz would be on a secondary basis and require scheduling. TEC's recent major experiments (FAADS, Javelin, M1A2, and Longbow consistently show an 18 hour a day requirement for 90 days running; not a secondary requirement.

The abandonment of 918 MHz as a primary frequency and migration into another area of the electromagnetic spectrum poses a development challenge. Current efforts to duplicate TEC Instrumentation by STRICOM has cost the Army in excess of \$100,000,000. If the development is fully successful to current requirements, only a fraction of the TEC FHL capabilities will be achieved. New telemetry development costs would run from \$3,000,000 to \$10,000,000. Existing telemetry equipment costs are @ \$40,000,000 per player. NTC is accessing enough new players to supply spares and keep the current capabilities viable for ten years.

Frequency costs (First year only)	
Hardware Replacement	$250*\$40,000 = \$10,000,000$
Spare Stockpile	$500*\$40,000 = \$20,000,000$
re development costs	\$3,000,000 -10,000,000
Total	\$33,000,000 to \$40,000,000

The requirement for testing systems with hot lasers can only be overcome if a reliable surrogate is developed. The estimate to develop a laser surrogate is \$10,000,000 of development costs and \$5,000 to \$10,000 per player deployment costs. The alternative is to return to FHL every time a laser has to be tested. At any rate, a return must be anticipated every time the surrogate system has to be validated for a new application.

Laser testing costs (* = annual costs)	
Laser surrogate development	\$10,000,000
laser surrogate procurement (10)	\$50,000 to \$100,000
* laser surrogate validation	$2*(4*\$1000+(4*80,000/52)+\$5,000)$ =\$30,306
* return to FHL loss of efficiency	$2*(4*80,000/52)*3/5=\$7,384$
Total	\$10,087,690 to \$10,137,690

The establishment of TEC as a canonical site for terrain representations and model validation has come to pass after years of Technical testing of new sensors by Night Vision developers and Defense Intelligence Agency Scientists. These measured values about real sensors are combined with the TEC/FHL terrain data base; the link to live play; and the technical exchanges and Memorandum of Agreements with TRADOC Analysis Center - Monterey, the Naval Postgraduate School and the Naval Research Lab at Monterey. The technical ties which have been carefully nurtured over the last six years will be severely hampered with the disbanding of the TEC presence in this "Monterey Gang". The Virtual Operational Test Battlefield which has quietly been developed and demonstrated at a conceptual level will lose momentum. Even if the efforts are sustained the validation costs will escalate. As discussed in the land stewardship paragraphs, the ability to produce joint, combined arms exercises using the unique tools developed by TEC will be greatly undermined. A comparative estimate to create the crucial data base element for just Ft Bliss is \$300,000. The critical path for live and simulated forces to attack from an Ocean, for Ft Bliss can only be accomplished by Plate Tectonics, a heretofore impossible to obtain technology.

Virtual Operational Test Battlefield restart costs (first year only)	
Terrain data base	\$300,000
Re-establishment costs (1 man year of travel and dedicated efforts)	\$100,000
Sensor Testing	\$200,000
Corridor to the sea (development)	\$500,000
Total	\$1,100,000



**ITINERARY**

draft as of 1100 19 Apr 95

**COMMISSIONER STEELE  
BRAC COMMISSIONER, BRAC 95  
VISIT TO FORT HUNTER LIGGETT AND TEXCOM EXPERIMENTATION CENTER**

**25 - 26 APRIL 1995**

Tuesday, 25 April

1630 Arrival at Paso Robles Airport by military air from Sierra Army Depot  
1630 - 1730 ground transportation to Fort Hunter Liggett by CDR, Fort Hunter Liggett  
1730 - 2000 billeting / supper / personal time  
Remain overnight at the Hacienda

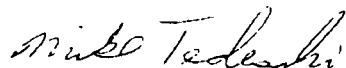
Wednesday, 26 April

0730 - 0800 Breakfast at the Hacienda (Hacienda is open to public: Commissioner Steele would have breakfast with LTC M<sup>c</sup>Nerney, COL Miller, COL Jackson, BG Zysk, LTC Bailey, LTC Bryan)  
0800 - 0815 Introduction by Congressman Farr and media opportunity  
0815 - 0845 Post Command Briefing by CDR, Fort Hunter Liggett  
0845 - 0915 TEXCOM Experimentation Center Command Briefing by CDR, TEC  
0915 - 1015 Windshield tour of post by CDR, Fort Hunter Liggett (Commissioner Steele, Congressman Farr, County Supervisor Perkins, BG Zysk, COL Miller, COL Jackson, LTC Bailey, LTC Bryan)  
1015 - 1145 Tour of TEXCOM Experimentation Center facilities by CDR, TEC  
1145 - 1200 Presentation by local communities  
1200 - 1300 Lunch (TBD)  
1300 departure for San Jose with LTC Bailey

LTC M<sup>c</sup>Nerney: Post Commander, Fort Hunter Liggett  
Congressman Farr: US Representative from the 17th District of California  
Supervisor Perkins: County Supervisor, Monterey County  
COL Miller: Commander Fort McCoy (parent installation of Fort Hunter Liggett)  
COL Jackson, Commander, TEXCOM Experimentation Center  
BG Zysk, CAARNG  
LTC Bailey, BRAC Commission  
LTC Bryan, The Army Basing Study (TABS)

**Conclusions:**

There are significant cost and benefit losses associated with moving the TEC instrumentation suite and supporting community away from Fort Hunter Liggett and the surrounding area of technical support. Estimates of non - recurring costs associated, just with the instrumentation re-engineering range from \$46,712,290 to \$53,762,290. Recurring trips back and wasted economies result in an annual cost of \$2,562,290. The damages to the new way of doing business, the Virtual Operational Test Battlefield are intangible in cost figures. A restructuring in the Fort Bliss terrain morphology is a non-starter so establishing a corridor to the sea must be re-engineered, with associated operational costs which can not be addressed. The final hidden cost is the potential billion dollar mistake, allowing a Sgt York to be produced, because the Operational Test was accomplished on a compromising terrain.



Mike Tedeschi  
chief, Methodology  
Cost Analyst

MEMORANDUM FOR COMMISSIONER STEELE

SUBJECT: INSTRUMENTATION COSTS

DATE: APRIL 27, 1995

COL (RET) WALKLEY: "There are 200, or so, instrumentation sets that either must have frequency changes or new equipment purchased at somewhere between \$20,000.00 and \$30,000.00 a pop - another 2 to 4 million dollar drop in the bucket."

COMMISSIONER STEELE: " Would you provide written back-up to that statement"

RESPONSE: There are 346 data telemetry instrumentation components at Fort Hunter Liggett, of which 246 are old models.

If the 918 MHZ frequency is not available for TEC use at Ft Bliss and the current telemetry technology is to be maintained, then use of another frequency will be required. The estimated cost of modifying the frequency on the 100 new models is approximately \$20,000.00 each. The old models cannot be modified. Purchase of 246 additional new models is estimated at \$40,000.00 each.

If the 918 MHZ frequency is not available for TEC use at Ft Bliss and a replacement telemetry technology is required, then an investigation into cost/availability must be conducted.

Preliminary investigation indicates that telemetry replacement may be accomplished at an estimated cost of approximately \$5 - 8 million.

SOURCE: Colonel Jackson, Commander, TEC.

*Walkley*  
Walkley

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*Walkley*  
Walkley

**MONTEREY COUNTY**  

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**THE BOARD OF SUPERVISORS**



**COUNTY OF MONTEREY / FORT HUNTER LIGGETT**

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**INFORMATION MEETING WITH**

**THE DEFENSE BASE CLOSURE AND REALIGNMENT, COMMISSION**

**Thursday, 20 April 1995**

## ARMY RECOMMENDATION IS A "SHOW STOPPER"

### I. *FLAWED ANALYSIS*

- A. Army recommendation evaluated Ft. Hunter Liggett **exclusively as a training area.**
- B. Proper evaluation should also have considered FHL as a **proving ground.**
- C. Critical questions regarding testing mission requirements were **omitted** in the Army's review and analysis process.

### II. *OPERATIONAL CONSIDERATIONS -- MILITARY VALUE*

- A. TEC as a system cannot be moved!

TEC is an *integrated* test and experimentation "system" consisting of people, instrumentation, and terrain. Some of the people can be moved, all of the instrumentation can be moved, but the terrain cannot be moved. Any attempt to move TEC will break it by destroying system integration. TEC cannot be reconstructed at Fort Bliss.

- B. Frequency interference at Fort Bliss

TEC's instrumentation is set at 918 mhz. At Fort Bliss, the contiguous White Sands Proving Ground uses an overlapping frequency (915 mhz) for safety and drone control. It is not economically feasible to reprogram TEC instrumentation for an alternative frequency.

- C. FHL can be closed for experimentation

**FHL's configuration permits the required testing and experimentation of dangerous weapons or classified systems.** As an isolated installation, it can be completely closed to all civilian traffic. Fort Bliss has a major highway running through it. This highway also requires heavy trucks to be moved via transporter rather than under their own power.

- D. FHL's terrain has been accurately digitized

Operational areas at FHL -- and much of the terrain surrounding the installation -- have been digitized to within one meter accuracy. Essential for some critical testing, this has not been done at Fort Bliss.

- E. FHL has a variety of terrain

FHL contains a uniquely-wide variety of terrain essential for comprehensive experimentation. It has mountains, wooded hills, flat open valleys, lakes, rivers, and desert. Fort Bliss contains arid high western desert.

F. FHL has a laser-safe test area

FHL is the sole Army installation with "laser-safe bowl" for non-eye-safe laser testing.

G. FHL has space for simultaneous training and testing

FHL is sufficiently large to accommodate simultaneous testing and most divisional-level training exercises without interference.

H. FHL has unrestricted airspace

The Army owns all airspace above FHL to 24,000 feet. This airspace allows for complete freedom of maneuver during experiments. Airspace at Fort Bliss is constricted by an international border and commercial air traffic.

I. Low artificial light levels at FHL

Because of its isolation, artificial light contamination at FHL is virtually nonexistent -- enabling the tester to create whatever light level he desires to accommodate testing requirements. This is not the case at Fort Bliss.

### **III. COST CONSIDERATIONS -- RETURN ON INVESTMENT**

A. Army analysis ignores operational costs

None of the operational costs -- in terms of replacing TEC instrumentation or changing its frequencies (the former is cheaper) -- were included in the Army COBRA analysis. Similarly, costs associated with test disruptions or moving tracks by transporters were not included.

B. TEC strength greatly overstated

The Army COBRA analysis uses a personnel strength of 456 (50 officers, 326 enlisted, 80 civilians) for TEC. However, force structure reductions already programmed will reduce the total strength to only 206 prior to the planned move. The Army analysis incorrectly includes a force structure saving as a BRAC saving. Furthermore, the planned force reduction will reduce BOS and RPMA costs at FHL -- thereby reducing that savings that would accrue from the proposed move.

C. RPMA/BOS costs are overstated for FHL and understated for Fort Bliss

RPMA and BOS costs associated with FHL are inflated while no RPMA or BOS costs are associated with Fort Bliss. However, the Reserve Component training garrison is to remain in place at FHL -- requiring RPMA and BOS costs very similar to those after the planned force reduction. Furthermore, it is difficult to see how an addition of 206 (or 456) personnel can be accommodated at Fort Bliss with *no* increase in these costs! These combine to render the anticipated savings illusory.

D. FHL has sufficient housing; Fort Bliss does not

FHL currently has 87 units of family housing, coupled with sufficient barracks and BOQ space to accommodate ALL personnel once the planned force reduction takes place. On the other hand, Fort Bliss lacks sufficient on-base housing for its current population. However, the increased personnel costs -- BAQ and VHA -- are not entered into the COBRA analysis.

E. Cost of moving TEC contracts was not considered

TEC is supported by a variety of contract personnel. The Army COBRA analysis avoids the costs associated with moving these personnel, terminating their contracts, or hiring new contractors (if such expertise can be found) at Fort Bliss.

F. Cost of moving TEC instrumentation was not considered

The summary statement in the Army COBRA analysis specifically notes that the cost of moving TEC instrumentation was not considered.

G. Cost of housing TEC instrumentation was not considered

The Army analysis does not consider any military construction requirements associated with moving TEC to Fort Bliss. However, necessary facilities to house the instrumentation must be built or modified to meet mission-peculiar requirements and there is a cost associated with this MILCON.

**IV. CONCLUSION**

As currently stated, the Army recommendation simply fails the common sense test on both operational and fiscal grounds. As the DoD Director of Operational Test and Evaluation stated in his 10 February 1995 memorandum, it is a **major** "show stopper" to the DoD OTE program.

**V. RECOMMENDATION**

Careful and complete **expert** analysis of the operational and fiscal implications of the Army recommendation to realign FHL.



# FORT HUNTER LIGGETT

BRAC SITE VISIT

COMMUNITY BRIEFING

Testimony presented to  
Commissioner Wendi Steele

Wednesday, April 26, 1995

# MILITARY VALUE

- FORT HUNTER LIGGETT IS THE BEST TRAINING AREA IN THE UNITED STATES.
- IT IS ALSO THE BEST OPERATIONAL TESTING AREA IN THE UNITED STATES.

# MILITARY VALUE

- TEC IS AN INTEGRATED SYSTEM
  - PEOPLE
  - INSTRUMENTATION
  - TERRAIN
- IT CANNOT BE RECONSTRUCTED AT FORT BLISS.

# MILITARY VALUE

- **FREQUENCY ADAPTATION**
  - TEC instrumentation is set at 918 mhz.
  - Fort Bliss/White Sands uses overlapping 915 mhz for safety and drone control.
- **NOT COST EFFECTIVE TO CHANGE FREQUENCY OF TEC INSTRUMENTATION.**

# MILITARY VALUE

- FORT HUNTER LIGGETT IS ISOLATED.
- FORT HUNTER LIGGETT CAN BE CLOSED FOR EXPERIMENTATION.
- FORT BLISS IS NOT ISOLATED.
  - Major highways run through Fort Bliss.

# MILITARY VALUE

- TERRAIN DIGITIZATION.
  - All Fort Hunter Liggett terrain has been digitized to 1 meter resolution.
- PRECISE DIGITIZATION ESSENTIAL FOR WEAPONS TESTING.
- SIMULATIONS AT FORT HUNTER LIGGETT ARE AS CLOSE TO COMBAT SITUATIONS AS POSSIBLE.
- BLISS TERRAIN HAS NOT BEEN COMPARABLY DIGITIZED.

# MILITARY VALUE

- Fort Hunter Liggett contains a unique variety of terrain:
  - MOUNTAINS
  - WOODED HILLS
  - FLAT OPEN VALLEYS
  - LAKES AND RIVERS
- Fort Bliss is limited to arid desert mountains.

# MILITARY VALUE

- **UNIQUE TESTING CAPABILITIES**
  - Fort Hunter Liggett is the sole CONUS Military installation with Laser Safe Bowl.
  - Essential for "Non Eye-Safe" Laser Testing.
- **UNRESTRICTED AIR SPACE**
  - Army owns the air space above Fort Hunter Liggett.
  - Bliss Airspace is constricted.
- **LOW ARTIFICIAL LIGHT**
  - Artificial light contamination is virtually nonexistent.
  - Bliss is next to major metropolitan area.



# MAJOR SHOW STOPPER

DIRECTOR OF THE DoD OPERATIONAL TEST  
& EVALUATION OFFICE  
HAS RECOMMENDED:

"THE ARMY WITHDRAW PROPOSAL  
TO MOVE ITS' TEST BATTALION  
FROM FORT HUNTER LIGGETT TO  
FORT BLISS."

# COBRA MODEL FLAWED

- COBRA MODEL IGNORES OPERATIONAL COSTS.
  - Replacement of Instruments
  - Change of Frequencies
- COBRA MODEL OVERESTIMATES TEC PERSONNEL STRENGTH.
- AVAILABLE HOUSING AT FORT HUNTER LIGGETT UNDERESTIMATED
  - FHL has 87 family housing units.

# COST - RETURN ON INVESTMENT

- COST OF MOVING AND HOUSING NOT CONSIDERED.
  - TEC Instrumentation
  - Laboratories
- COBRA ANALYSIS EXCLUDES SOME MOVEMENT COSTS.

# PEOPLE AND LOCATION

- TEC DRAWS UPON THE TECHNICAL EXPERTISE OF ITS STAFF.
- THESE PEOPLE ARE NOT GOING TO MOVE TO TEXAS.
- STAFF WILL BE HIRED BY PRIVATE SECTOR IN THE SILICON VALLEY, CALIFORNIA - LOWERING TEC'S EFFECTIVENESS.

# ECONOMIC IMPACT

- COMMUNITIES AFFECTED:
  - MONTEREY COUNTY
  - GREENFIELD
  - KING CITY
  - LOCKWOOD
  - BRADLEY
  - PASO ROBLES
  - SAN LUIS OBISPO COUNTY
- COMMUNITIES ARE WILLING AND ABLE TO SUPPORT THE FORCES, MISSIONS AND PERSONNEL AT FHL.

# ECONOMIC IMPACT

- MONTEREY COUNTY 1994  
UNEMPLOYMENT RATE - 12%.
- MONTEREY COUNTY  
UNEMPLOYMENT RATE IS  
DOUBLE THE NATIONAL  
AVERAGE.

# CUMULATIVE ECONOMIC IMPACTS

- BRAC 1991  
FORT ORD - CLOSED  
-\$572 Million Loss from  
Military Payroll
- BRAC 1995  
FORT HUNTER LIGGETT - REALIGNED  
-\$ 21 Million Loss from  
Military Payroll  
-CONTRACTOR - RELOCATE  
Unestimated Loss from Payroll
- TOTAL PAYROLL LOSS  
OVER \$600 MILLION

# CUMULATIVE ECONOMIC IMPACTS

LOSSES DUE TO  
NATURAL DISASTERS:

1989 LOMA PRIETA EARTHQUAKE:  
\$200 MILLION

1995 JANUARY FLOOD:  
\$10 MILLION

1995 MARCH FLOODS:  
ESTIMATED \$500 MILLION



**RECOMMENDATION:**

**KEEP**

**U.S. ARMY**

**TEST AND**

**EXPERIMENTATION**

**CENTER AT**

**FORT**

**HUNTER LIGGETT**

## EXECUTIVE SUMMARY

The U.S. Army proposal to move TEXCOM Experimentation Center (TEC) from Fort Hunter Liggett, California to Fort Bliss, Texas will seriously degrade mission accomplishment with little or no cost savings.

Commander, TEC states "It (TEC) possesses the expertise and facilities to evaluate materiel, doctrine, tactics, training and organization in a real world operational environment." (T3 K) Degradation to the "...real world operational environment" will be paramount to degradation of mission at Ft Bliss due to the arid unimaginative terrain, lack of vegetation, lack of total darkness (isolation), and the inability to free play tactical aircraft, non-eye safe lasers and radio frequency jamming. Real battlefield conditions available at Fort Hunter Liggett will become simulated battlefield conditions at Fort Bliss. Every simulation takes the mind of the soldier, marine and airman out of play and provides possible outcomes versus tested outcomes.

The probability of reconstitution, in this century, of TEC's technically innovative workforce and the laboratories, fabrication facilities and instrumented battlefield at Ft. Bliss have not been addressed by the U.S. Army. Director Coyle stated "For the right amount of money, the instrumentation at Fort Hunter-Liggett could be duplicated at Ft. Bliss. If as good a job were done as has been done at Fort Hunter-Liggett, it could be as effective at Ft. Bliss." (V 2) Reconstitution of the technically innovative workforce, their GOCO laboratories and fabrication facilities will also take "the right amount of money...". No cost considerations of these issues are contained in the COBRA analysis.

The largest COBRA recurring savings are attributed to RPMABOS and family housing. COBRA eliminates all RPMA (-2,169,000 annual) and -2,804,939 annual of 12,590,000 BOS. Commander, Ft. Hunter Liggett stated no RPMABOS savings, in fact, there probably will be increases to pick up the slack for BOS functions provided by TEC (FHL 11 - NN/PP) COBRA shows family housing recurring savings of 550,000 at Ft Bliss. Using actual personnel and family quarters data, any savings that occur in family housing will occur at Fort Hunter Liggett. This 5,524,000 (2,169 + 2,805 + 550) annual misrepresentation eliminates the COBRA annual recurring savings of -5,480,000.

Based on inputs from Commander, TEC; Commander, Fort Hunter Liggett, Director Coyle and the knowlege and experience of Dr. Marion Bryson and myself the only conclusion to this US Army propoal is that:

- Serious degradation of mission accomplishment will occur.
- There will be little or no cost savings.

MEMORANDUM FOR: To Whom It May Concern.

SUBJECT: TEXCOM Experimentation Center Realignment.

DATE: May 23, 1995

The community task force (CTF) has presented information to the Base Realignment and Closure Commission relative the realignment of TEXCOM Experimentation Center (TEC) from Fort Hunter Liggett to Fort Bliss which has focused on a significantly degraded TEC mission capability at Ft Bliss and a terribly flawed economic analysis as provided by the COBRA model.

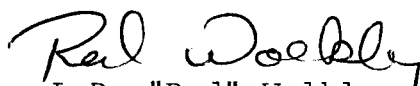
In addition, the Commission has received command briefings from the Commander, Fort Hunter Liggett; Commander, TEC; and information from Director Philip E. Coyle, DoD, Operational Test and Evaluation.

In an attempt to ensure we covered all the bases, I thought it might be valuable to correlate all data with the CTF presentation especially as it refers to the TEC mission. I believe the key issue is "CAN TEC ACCOMPLISH THE MISSION AT FT. BLISS."

Attached are:

- Appendix A. TEC mission analysis - FHL v Ft Bliss.
- Appendix B. COBRA analysis in general terms.
- Appendix C. CTF Briefing slides.
- Appendix D. Memorandum - FHL testing.
- Appendix FHL. Commander, FHL briefing slides.
- Appendix T. Commander, TEC briefing slides.
- Appendix U. Response to Ms Steele's question.
- Appendix V. Director Coyle's April 25 response to Chairman Dixon.

All data except Appendix D has been previously provided the Commission.

  
L.D. "Red" Walkley  
Colonel (Ret) USA

## THE MISSION

### TEXCOM EXPERIMENTATION CENTER (TEC) MISSION

- Conduct high quality field experiments and tests in a unique environment using very precise instrumentation.
- Provide high resolution data for simulations/war games.
- Examine options for system deployment, and verify proposed solutions to system development challenges.
- Develop instrumentation for experimentation and tests.

Annotations after mission statement are data previously provided BRAC commission unless otherwise noted.

- Conduct high quality field experiments and test in a unique environment using very precise instrumentation.

This element of the mission statement is the basis of the mission and the other elements depend on or are subelements of this base.

This element of the mission statement is a function of a combination of three factors; people - terrain - instrumentation.

### PEOPLE

The soldiers and DA civilians of TEC are somewhat of a given. The reality of being a soldier and the mindset of a career civil service civilian are such that all of the soldiers and most of the senior DA civilians will follow the flag. A major factor in degradation of capability, with respect to the soldiers is the quality and frequency of training. If TEC is moved to Ft Bliss the diverse training area, the unlimited access to a contiguous multi-purpose range complex (MPRC) and the freedom of training access just outside the cantonement area will be lost.

The contract workforce (referred to as an element of the "technically innovative workforce" by the TEC commander) (T2 - D) is a significantly different issue. This team has evolved to meet the day to day challenges of experimentation and to rise to the challenges offered by doing things that have never been done before. This team is the key element of the "extensive experience in experimentation and testing" (T2-D) because of their long-term dedication to the mission as well as the longevity and quality of the workforce.

## Unique Environment (T2-G)

The Commander, TEC divides this second factor of the three factors into two subelements 1). Remote maneuver areas. 2). On-site facilities. These are the factors listed under "Remote Maneuver Area" and relate primarily to TERRAIN.

- Readily accessible. At FHL - drive out of the cantonment area and you are in a maneuver area. At Ft. Bliss - place your equipment on Heavy Equipment Transporters (HETs) and ferry them to the maneuver area.

- Variety of terrain, vegetation and weather. At FHL - open valleys to mountains requiring pitons and ropes; rolling hills with manzanita thickets, sparse to dense oak and pine forest; rocky outcroppings offering tactical challenges; lakes and ponds; and rivers providing dry beds to raging impassible obstacles. Weather averages from 32 F to 95 F (FHL4-N) spiking from 8F to 110F. Ft Bliss - arid desert with hills and bigger hills.

- Controlled airspace. FHL - majority of maneuver area has restricted airspace to 24,000'MSL. The majority of the FHL boundary is protected by National, State and BLM lands. Remaining boundary is dryland farming and grazing with a 40 acre minimum building code. Tactical aircraft can approach, low level from 360 degrees. Ft. Bliss - restricted airspace over maneuver area, however, adjacent international airport and international boundary place necessary restrictions on tactical aircraft to ensure airspace safety.

- Isolated from ambient light and RF interference. FHL - Nearest significant ambient light source is King City, population 8,500, distance 30 miles (FHL4-M) Ft. Bliss - Adjacent to El Paso, Texas. FHL - Radio frequency interference basically non-existent (1800 frequencies, most usable (FHL8-DD)). Ft Bliss - Lack specific details, however, freedom of use of frequencies and freedom to jam frequencies will be limited due to major city, major airport and international boundary.

- High energy lasers. FHL - The only post where non-eye-safe lasers can be used in a 360 degree, force-on-force maneuver. Ft. Bliss - "Only" is self-explanatory.

These are the elements listed under "on-site facilities."

- MPRC (Multi-Purpose Range Complex). (Details at FHL8-EE).

- Combat airstrip - (FHL7-AA).

- Drop zones - (FHL7-AA).

FHL - additionally, the FHL training area provides a C130 and C17 capable combat airstrip, a multi-purpose range complex for tank and Bradley gunnery, and personnel and equipment drop zones for airborne operations." (T3-K) Ft. Bliss - lesser availability to like facilities.

- Accessible railhead - FHL - 33km distant at Camp Roberts (FHL9-FF and T3-K). Ft. Bliss - superior facilities.

- Heliport. FHL - three to five minutes airtime to testing area. Ft. Bliss - superior facility lesser availability to maneuver area.

-Support Facilities FHL - "the instrumentation development and fabrication facility possesses a unique capability to design, modify and fabricate instrumentation to meet test and experimentation needs almost overnight." (T3-K). Ft. Bliss - nothing.

Director Philip E. Coyle's February 10, 1995 Issue Paper and April 25, 1995 response to Chairman Dixon confirms the unique environment at Ft. Hunter Liggett and confirms the restrictions that will be imposed on testing with the concomitant degradation of the MISSION.

#### INSTRUMENTATION

In addition to the TEC, Commander, Director Coyle and Dr. Bryson have provided details relative this subject which can best be summarized by Director Coyle's April 25, 1995 response to Chairman Dixon.

"For the right amount of money, the instrumentation at Fort Hunter-Liggett could be duplicated at Fort Bliss. If as good a job were done as has been done at Fort Hunter-Liggett, it could be as effective at Fort Bliss."

This statement refers to the software and hardware of the high resolution GPS based real time casualty assessment (RTCA) instrumentation system.

Key to mission accomplishment consideration of this element is cost. Specific data has been received on modification and purchase costs of just the telemetry element if 918 MHZ is not available. The TEC Commander's estimate is "Preliminary investigation indicates that telemetry replacement may be accomplished at an estimated cost of approximately \$5 - 8 million."

No costs have been proffered nor would I speculate on the following government owned contractor operated (GOCO) instrumentation elements.

- Movement and reestablishment of the instrumentation fabrication facility.
- Movement and reestablishment of the computer center.
- Movement and reestablishment of the instrumentation laboratory.

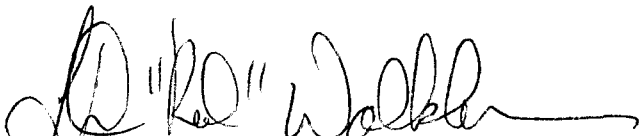
However, it is readily apparent that this is a high cost that must be funded or there will be further degradation of mission accomplishment than previously noted under "people" and "unique environment".

An analysis of the other three elements of the mission are totally dependent on the three elements of the previous analysis. These three elements are:

- Provide high resolution data for model simulation/war games.
- Examine options for system development, and verify proposed solutions to system development challenges.
- Develop instrumentation for Experimentation and tests.

If "the right amount of money" is available to reestablish the instrumentation, laboratory and fabrication capabilities, and if a sufficient element of the contract workforce accompanies these assets, these portions of the mission will only suffer the "unique environment" degradation.

It seems readily apparent that limiting the diverse terrain, limiting non-eye safe laser free play, limiting radio frequency jamming, limiting the degree of darkness achievable, limiting 360 degree high performance aircraft free play, and limiting the availability of readily accessible remote maneuver areas for maneuver and training would seriously affect the quality of these elements of the mission.



L.D. "Red" Walkley  
Col (Ret) USA  
May 18, 1995

## THE COBRA MODEL

Analysis of the COBRA model indicates it is so badly flawed due to erroneous inputs and omissions that the projected \$64 million savings by the year 2015 could be as much as \$100 million in error with the actual outcome being a cost of \$30 to \$40 million (conservative).

### FACTS:

1). Personnel from FHL to Ft Bliss/Base X:

COBRA	444
Actual (1998)	212

Cuts one-time movement costs for personnel in half.  
Eliminates family housing allowance savings at Ft Bliss.

2). Family Housing at FHL:

COBRA	24
Actual	85

In 1998 100% of TEC families would live on post, whereas, only 43.8% of families can live on post at Ft Bliss, therefore, at the time of the move 100% would live off-post.

3). RPMABOS:

COBRA Saves	\$4,974,000.00 annual
Commander FHL states	NO SAVINGS.

Commander states that, in fact, there will probably be increased RPMABOS because Post continues primary mission and support of remaining tenants. Current TEC BOS support of Post will revert to Post responsibility (FHL 11 - NN,OO,PP,QQ)

4). CONTRACTOR PERSONNEL:

COBRA	252
Actual	172

No impact because COBRA does not model civilian contractor Costs of movement or close out and renegotiating the contract not considered.

5). MEDICAL/DENTAL/VETERINARY

COBRA moves medical detachment, dental detachment, veterinary detachment to Base X with a projected savings of \$802,000.00 per year. There is no veterinary detachment and COBRA models no CHAMPUS costs so the shifting of military medical costs to civilian hospitals might severely lower this projected savings.

6). COBRA does not consider costs of MILCON/REMODELING to accept



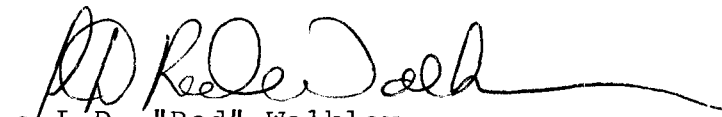
the Government Owned Contractor Operated laboratory, computer facilities, fabrication shops, instrumentation sites (laser sight/weapons alignment), Etc.

- 7). COBRA does not consider the cost of purchase/realignment of telemetry/instrumentation and establishing the instrumented playing field at Ft Bliss. (Reference Dr. Coyle's if "the right amount of money is available" comment).
- 8). COBRA does not consider cost of digitizing Ft Bliss for computer simulations.
- 9). COBRA plays one-time costs at \$5,881 million which is badly overstated for personnel issues and apparently phenomenally understated for 4, 6, 7, and 8 above.

The two recurring costs at Ft. Bliss (RPMABOS \$946,000 and Fam Hsg Allow \$1,456,000 -annual-) versus the savings at FHL of RPMABOS \$0 and Fam Hsg Allow \$0 (COBRA shows RPMABOS \$4,974 million and Fam Hsg Allow \$2,006 million -annual-) is the key issue. If the COBRA costs for Bliss are correct and the Cdr, FHL is correct the numbers swing from an annual savings of \$6,980 million to an annual cost of \$2,402 million.

The RPMABOS/Fam Hsg Allow swing added to all the unprogrammed and unmodeled costs (both one-time and recurring) that are noted above and it is not difficult to believe the reality of this situation. In essence the taxpayers are told a \$64 million savings by year 2015 when in fact, conservatively, it will be a \$30 to \$40 million dollar cost.

All of the above data has been presented to the BRAC Commission and is backed-up in slides of the presentations of the Cdr, TEC; Cdr, FHL; Community Task Force; or memoranda from Dr. Coyle and other sources. Nothing new here - just summarized and presented in different format.

  
L.D. "Red" Walkley  
Col (Ret) USA  
May 15, 1995.

# FORT HUNTER LIGGETT

## Community Briefing

BRAC Regional Hearing  
Friday, 28 April 1995

## ARMY ANALYSIS FLAWED

- \* ARMY EVALUATED FORT HUNTER LIGGETT AS TRAINING AREA ONLY
- \* PROPER EVALUATION SHOULD HAVE INCLUDED FORT HUNTER LIGGETT AS A TESTING AREA
- \* CRITICAL TESTING ISSUES WERE NOT ADDRESSED

## MAJOR SHOW STOPPER

- \* DIRECTOR OF THE DoD OPERATIONAL TEST & EVALUATION OFFICE HAS RECOMMENDED:

"The Army withdraw the proposal to move its' test battalion from Fort Hunter Liggett to Fort Bliss."



OFFICE OF THE SECRETARY OF DEFENSE  
1000 DEFENSE PENTAGON  
WASHINGTON, DC 20301-1000



CLOSE HOLD - FOR OFFICIAL USE ONLY - BRAC SENSITIVE

10 February 1995

MEMORANDUM FOR ASSISTANT SECRETARY OF DEFENSE FOR ECONOMIC SECURITY (ECONOMIC REINVESTMENT AND BRAC)

SUBJECT: Functional Assessment of Proposed Military Department Base Realignment and Closure Actions

Proposed BRAC actions by the MILDEPs as available on 9 February 1995, have been reviewed, and except as identified in the attachments, determined to be acceptable from the perspective of the DoD test and evaluation mission. Of those in the attachments, two are considered to be major showstoppers (regarding Dugway Proving Grounds and Fort Hunter-Liggett), and another a minor showstopper (Tunnel 9 inclusion in the White Oak closure). The remainder are considered incomplete requiring additional alternatives to be analyzed before we can agree to them.

Philip E. Coyle  
Director, Operational  
Test and Evaluation

John A. Burt  
Director, Test  
Systems Engineering and  
Evaluation

Attachments: a/s

CLOSE HOLD - FOR OFFICIAL USE ONLY - BRAC SENSITIVE

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ISSUE

The Army's proposal to move its Test Battalion from Fort Hunter-Liggett (FHL) to Ft. Bliss would de facto "close" FHL and remove its capabilities from operational test use.

RATIONALE

1. The TEXCOM Experimentation Center (TEC), located at Fort Hunter-Liggett, California, has the unique capability to provide a total test/experimentation package. TEC's isolated location provides unequalled access to extremely versatile training areas with a wide variety of weather and terrain conditions, controlled airspace to 24,000 feet, a 360 degree high energy laser play area, isolation from ambient light, and minimal radio frequency (RF) interference.

2. The terrain at FHL resembles Korea and is unlike that in any of the desert test ranges. Its diverse terrain features -- mountains, hills, rivers, creeks and lakes -- were the reason FHL was selected as a field laboratory site in 1957 and FHL remains a unique asset today. For example, operational testing prior to the final IOT&E of the SGT YORK was at Ft. Bliss where only flat terrain was encountered. In the IOT&E at FHL the valley walls caused ground clutter breakthrough which rendered the radar useless. Also, FHL has a unique capability -- a natural 360 degree "howl" -- and the necessary state permits -- to test high power military lasers. Recent Longbow Apache tests at FHL required this capability, revealing important limitations in modeling and simulation.

3. By moving to Ft. Bliss a further test restriction would be created. Radio frequency jamming essential to creating a realistic test environment in a location that is close to large metropolitan areas, international airports, and an international border will be difficult to recreate and will increase risks of not having an adequate test environment.

4. Operating temporarily at FHL with mobil assets will be more expensive. Just four years ago in March 1991, all of TEC's command, staff and operational functions were consolidated at FHL because operating in temporary duty status was too expensive. The projected savings reflected in the Army's submission, the reduction of 17 military and 5 federal civilians, would be trivial when considering giving up this valuable and important operational test capability.

RECOMMENDATION

Army withdraw proposal to move its test Battalion from Fort Hunter-Liggett to Ft. Bliss.

D

TEC MISSION

- \* CONDUCT HIGH QUALITY FIELD EXPERIMENTS AND TESTS IN A UNIQUE ENVIRONMENT USING VERY PRECISE INSTRUMENTATION
- \* PROVIDE HIGH RESOLUTION DATA FOR MODEL SIMULATION/WAR GAMES
- \* EXAMINE OPTIONS FOR SYSTEM DEVELOPMENT, AND VERIFY PROPOSED SOLUTIONS TO SYSTEM DEVELOPMENT CHALLENGES
- \* DEVELOP INSTRUMENTATION FOR EXPERIMENTATION AND TESTS

F

MILITARY VALUE

- \* FORT HUNTER LIGGETT IS THE BEST TRAINING AREA IN THE UNITED STATES
- \* IT IS ALSO THE BEST OPERATIONAL TESTING AREA IN THE UNITED STATES

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TEC & FORT HUNTER LIGGETT

TEC ASSETS

- Extensive Experience
- On-site Capabilities
  - Instrumentation
  - Troops/Equipment
  - Digitized Terrain Database
  - Logistics Support
- Innovative Workforce
- Responsive, Flexible, Adaptable

FHL ENVIRONMENT

- Readily available Maneuver Areas
- Variety of Terrain/Vegetation
- Isolation
- Controlled Airspace
- High Energy Lasers
- MPRC
- Combat Airstrip
- Support Facilities

THE TOTAL TEST/EXPERIMENTATION FACILITY

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### *MILITARY VALUE*

\* TEC IS AN INTEGRATED SYSTEM:

- People
- Instrumentation
- Terrain

\* IT CANNOT BE RECONSTRUCTED AT FORT BLISS

H

### *MILITARY VALUE*

\* FORT HUNTER LIGGETT IS ISOLATED

\* FORT HUNTER LIGGETT CAN BE CLOSED FOR EXPERIMENTATION

\* FORT BLISS IS NOT ISOLATED

- Major highways run through Fort Bliss

J

### *MILITARY VALUE*

\* FREQUENCY ADAPTATION

- TEC instrumentation is set at 918 mhz
- Fort Bliss / White Sands uses overlapping 915 mhz for safety and drone control

\* NOT COST EFFECTIVE TO CHANGE FREQUENCY OF TEC INSTRUMENTATION

I

### *MILITARY VALUE*

\* TERRAIN DIGITIZATION

- All Fort Hunter Liggett terrain has been digitized to 1 meter resolution

\* PRECISE DIGITIZATION ESSENTIAL FOR WEAPONS TESTING

\* SIMULATIONS AT FORT HUNTER LIGGETT ARE AS CLOSE TO COMBAT SITUATIONS AS POSSIBLE

\* BLISS TERRAIN HAS NOT BEEN COMPARABLY DIGITIZED

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## ***MILITARY VALUE***

### **\* FORT HUNTER LIGGETT CONTAINS A UNIQUE VARIETY OF TERRAIN**

- Mountains
- Wooded hills
- Flat open valleys
- Lakes and rivers

### **\* FORT BLISS IS LIMITED TO ARID DESERT**

L

## ***MILITARY VALUE***

### **\* UNIQUE TESTING CAPABILITIES**

- Fort Hunter Liggett is the sole CONUS military installation with Laser Safe Bowl
- Essential for "Non Eye-Safe" Laser Testing

### **\* UNRESTRICTED AIRSPACE**

- Army owns the airspace above Fort Hunter Liggett
- Bliss airspace is constricted

### **\* LOW ARTIFICIAL LIGHT**

- Artificial light contamination is virtually non-existent
- Bliss is next to a major metropolitan area

M

## ***COBRA MODEL FLAWED***

### **\* COBRA MODEL IGNORES OPERATIONAL COSTS**

- Replacement of instruments
- Change of frequencies

### **\* COBRA MODEL OVERESTIMATES TEC PERSONNEL STRENGTH**

### **\* AVAILABLE HOUSING AT FORT HUNTER LIGGETT UNDERESTIMATED**

- FHL has 87 family housing units

### **\* RMPA/BOS MISREPRESENTED**

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## ***COST -- RETURN ON INVESTMENT***

### **\* COST OF MOVING AND HOUSING NOT CONSIDERED**

- TEC instrumentation
- Laboratories

### **\* COBRA ANALYSIS EXCLUDES SOME MOVEMENT COSTS**

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## *PEOPLE AND LOCATION*

- \* TEC DRAWS UPON THE TECHNICAL EXPERTISE OF ITS STAFF
- \* THESE PEOPLE ARE NOT GOING TO MOVE TO TEXAS
- \* STAFF WILL BE HIRED BY PRIVATE SECTOR IN THE SILICON VALLEY, CA -- LOWERING TEC'S EFFECTIVENESS

P

## *ECONOMIC IMPACT*

- \* MONTEREY COUNTY 1994 UNEMPLOYMENT RATE = 12%
- \* MONTEREY COUNTY UNEMPLOYMENT RATE IS DOUBLE THE NATIONAL AVERAGE

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## *ECONOMIC IMPACT*

- \* COMMUNITIES AFFECTED:
  - Monterey County
  - Greenfield
  - King City
  - Lockwood
  - Bradley
  - Paso Robles
  - San Luis Obispo County

\* COMMUNITIES ARE WILLING AND ABLE TO SUPPORT THE FORCES, MISSIONS AND PERSONNEL AT FHL

Q

## *CUMULATIVE ECONOMIC IMPACTS*

- \* BRAC 1991
  - FORT ORD -- CLOSED
  - \$572 Million Loss from Military Payroll
- \* BRAC 1995
  - FORT HUNTER LIGGETT -- REALIGNED
  - \$21 Million Loss from Military Payroll
  - CONTRACTOR -- RELOCATE
  - Unestimated Loss from Payroll
- \* TOTAL PAYROLL LOSS OVER \$600 MILLION

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C5



**CUMULATIVE ECONOMIC IMPACTS**

**\* LOSSES DUE TO NATURAL DISASTERS:**

- 1989 Loma Prieta Earthquake = \$200 Million
- 1995 January Flood = \$10 Million
- 1995 March Floods = \$500 Million (estimated)

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**RECOMMENDATION**

**KEEP U.S. ARMY TEST AND EXPERIMENTATION  
CENTER AT FORT HUNTER LIGGETT**

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TO: Dave Anderson

Subj: Tests at Fort Hunter Liggett; Past and Present

05  
06-12-95

The kind of tests and experiments which TEC has the unique capability to execute are known as Force-on-Force, Real Time Casualty Assessment (RCTA) experiments. These are experiments (or tests) which are realistic war games with real soldiers on real terrain with real weapons systems. The scenario calls for two opposing forces to have conflicting objectives. They are then allowed to plan whatever strategy they think will be most likely to win the battle. Naturally, the strategy, when testing a new weapons system, will be attempt to capitalize on the advantage provided by the new system. In order for the data produced by these "war games" to be acceptable to the decision maker, the operational environment in which they were produced must fairly represent the real world in which the weapon system will be expected to perform. That is, the terrain, vegetation, enemy tactics, weather, freedom of movement, training level, etc. must represent a combat environment.

There have been many RTCA experiments done at FHL in the past. Some of the weapons systems tested there are the Apache helicopter, the Kiowa scout helicopter, the M1A2 tank, the Javelin missile, the Marine Corps light armored vehicle, the improved TOW vehicle, The SGT. York air defense gun, the ADATS air defense missile, and, most recently, the Apache Longbow. Two of these stand out as examples of why FHL is valuable. The Sgt. York was tested at Ft. Bliss and did quite well. Some decision maker(s) was not satisfied that the environment at Ft. Bliss was sufficiently challenging so directed that the test be repeated at FHL. In the presence of the cluttered terrain of FHL, much like the terrain of much of the world, the radar of the Sgt. York could not find and engage successfully the enemy aircraft. The results of this test at FHL prevented the Army from making a 3 billion dollar mistake in buying a weapon which would not perform. The other example is the Apache Longbow. This test was originally scheduled at Ft. Bliss, but because of restrictions of terrain, airspace, laser safety, among other things it was decided that the test should be done at FHL.

The Army's long range test plans are very tentative, always. Tests depend upon the availability of test items. New systems and upgrades of existing systems almost never stay on schedule, so to plan a definite time for the test of a system is futile. Also, systems are deleted from development, usually for budgetary reasons. So to try to predict what weapon systems will be ready for test five years from now, one would need a crystal ball. Two systems which will be tested if they continue in development are the Mobile Automated Instrumentation System and the Comanche helicopter. The Army plans (or, at least a year ago did plan) to test the MAIS at FHL. That is the only place where they can test such a system and have a valid baseline instrumentation system. FHL is the only place the DOD has where the full potential of the Comanche can be tested. It will have all of the latest developments in fighter helicopter technology, and it will



require a very sophisticated instrumentaton system to adequately test it. There will certainly be many other developments in the future which will require RTCA testing. Among these may be the remotely piloted vehicle, the non-line-of-sight missile (NLOS), and the future artillery system. It is recognized that FHL will still be there for testing, even if TEC moves to Ft. BLiss. What will not be there will be the people who make the instrumentation system work, the soldiers, the tanks, the infantry vehicles; in short, the system known as TEC.

I hope this helps. I am sending copies of this memo to Red Walkley and Veroica Ferguson.

*Marion*

Marion R. Bryson



FORT HUNTER LIGGETT



# FORT HUNTER LIGGETT



FORT HUNTER LIGGETT



- THE WESTERN TRAINING CENTER FOR THE USAR
- A TOTAL FORCE TRAINING CENTER

A



FORT HUNTER LIGGETT



## MISSION

- MAINTAIN AND ALLOCATE TRAINING AREAS FOR TRAINING AND TESTING
- PROTECT THE ENVIRONMENT SO THAT FHL REMAINS A USEFUL TRAINING AND TESTING AREA
- PROVIDE SUPPORT TO UNITS ASSIGNED TO FHL

B



FORT HUNTER LIGGETT



## A BRIEF HISTORY

### LTG HUNTER LIGGETT

CHIEF of STAFF FOR GEN PERSHING WW I  
FIRST COMMANDER OF I CORPS

1940 - ORIGINAL ACREAGE 266,950

158,000 ACRES FROM HEARST & 108, 950 FROM OTHERS

1941 - 6TH ARMY CAMP ROBERTS

1953 - SUBPOST OF FT ORD

1975 - DESIGNATED FT HUNTER LIGGETT

1990 - CURRENT ACRES 164,762

1993 - SUBINSTALLATION OF FT LEWIS, WA

C

FHL 1

FHL 1



FORT HUNTER LIGGETT



**USARC TRANSITION**

- 18 NOV 93     ACTING SECRETARY OF THE ARMY  
APPROVED TRANSFER OF FORT HUNTER  
LIGGETT TO USARC
- 10 DEC 93     TRANSFER OF COMMAND AND CONTROL TO  
USARC
- 1 OCT 94     TRANSFER TO FORT MCCOY

D



FORT HUNTER LIGGETT



- AC MILITARY POSITIONS CONVERTED TO EITHER AGR OR  
CIVILIAN POSITIONS
- MWR AND HOUSING
  - HQ FORSCOM RETAINS OVERSIGHT
  - RESPONSIBILITY OF POST COMMANDER
- ALL OTHER FUNCTIONS TRANSFER TO USARC

E



FORT HUNTER LIGGETT



**CRITICAL TO THE USAR:**

- MAJOR TRAINING INSTALLATION ON WEST  
COAST
  - HEAVY CONCENTRATION OF USAR UNITS
  - REDUCED ODT FUNDING
  - LIMITED ACCESS TO OTHER  
INSTALLATIONS

F



FORT HUNTER LIGGETT



**• OFFERS USAR:**

- EXTENSIVE MANEUVER AREA
  - REAL TIME/DISTANCE TRAINING
- ISOLATED TRAINING LOCATION
  - MINIMUM IMPACT ON COMMUNITIES
  - GREAT TRAINING FOCUS FOR SOLDIERS

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FHL 2

FHL 2

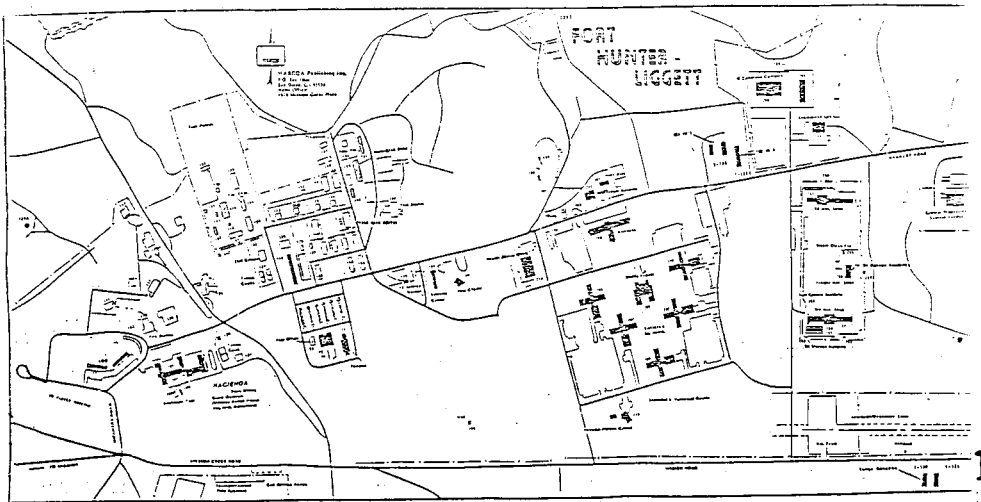


# FORT HUNTER LIGGETT



- INCREASED USAR TRAINING AT FHL
- CONTINUED SUPPORT TO THE ARNG
- USARC WILL PROVIDE SUPPORT PACKAGE
  - RELOCATION OF 91ST DIV (EX) LSB
  - CONSOLIDATION OF ECS
    - ELIMINATES LONG MOTOR MARCHES
    - SUPPORTS LANES TRAINING
    - SUPPORTS MOBILIZATION

H



FHL 3



# FORT HUNTER LIGGETT



## RECENT CONSTRUCTION

\$MILLION

FY 94	FAM HSG 57 UNITS (DOWNGRADED FROM 154 UNITS)	12
FY 94-5	BARRACKS UPGRD 1+1	3.5
FY 95	YOUTH CENTER (MAJOR NAF)	1.2

ALL OTHERS CANCELLED BY FORSCOM

J



# FORT HUNTER LIGGETT



## BILLETING

## HOUSING

6 GUEST ROOMS W/BATH

85 STANDARD FAM QTRS

6 GUEST ROOMS W/O BATH

1 SUB-STANDARD FAM QTRS

24 BOQ/SEBQ

36 TRANSIENT QUARTERS

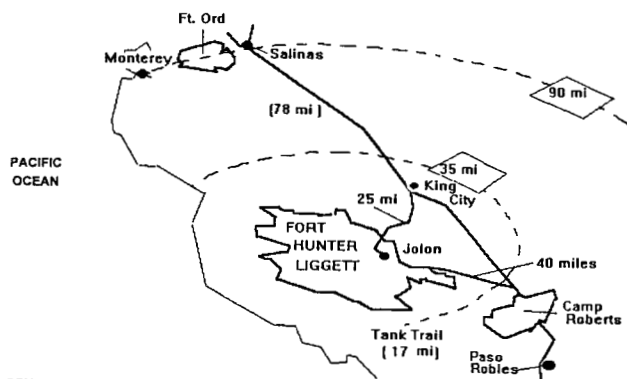
OPEN BAY BARRACKS WHICH CAN HOUSE 522 SOLDIERS  
 SUBSTANDARD BARRACKS FOR A MAX OF 228 SOLDIERS  
 STANDARD BARRACKS FOR A MAX OF 144 SOLDIERS

k

FHL 3



# FORT HUNTER LIGGETT



TO FORT McCOY - 2,150 MILES  
TO USARC - 2,450 MILES.

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# FORT HUNTER LIGGETT



## CLIMATE

AVG HIGH / LOW

WINTER	60	32
SPRING	70	37
SUMMER	95	51
FALL	80	41

## AVERAGE RAINFALL:

RAINY SEASON OCT - APR	18 INCHES
NON-RAINY SEASON	.51 INCHES

N



# FORT HUNTER LIGGETT



## OUTLYING COMMUNITIES

- LOCKWOOD:** DISTANCE: 12 MILES POP: 405  
SMALL GENERAL STORE  
MOBILE HOME PARK  
SCHOOL K-8
- KING CITY:** DISTANCE: 30 MILES POP: 8,500  
MEDIUM GROCERY, SMALL STORES  
RENTAL (MOBILES, HOMES, APT)  
SCHOOLS K-8 & 9-12
- PASO ROBLES:** DISTANCE: 50 MILES POP: 20,150  
GROCERY, CHAIN STORES, SHOPPING AREAS  
RENTAL (HOMES, APT)  
SCHOOLS K-8 & 9-12

M



# FORT HUNTER LIGGETT



## CURRENT POPULATION

	USAG	TEC	OTHER	TOTAL
MILITARY	15	327	132	474
MIL FAMILY	40	571	138	749
DAC/NAF	184	82	53	319
CONTRACT	24	198	4	226
<b>TOTAL:</b>	<b>221</b>	<b>1178</b>	<b>327</b>	<b>1768</b>

AS OF: 10 APR 95

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FHL 4

FHL 4



FORT HUNTER LIGGETT



DAILY WORKING STRENGTH

	OFF	EM	DAC/NAF	CNTRACT	TOTAL
GARRISON	2	13	142/42	24	23
HSC	2	13	4		19
TENANT:					
TEC	34	293	82	198	607
SATCOM	1	66	16		83
MET			5		5
SPACECOM	1	49	1	4	55
FLW 5-9			2		2
CAARNG			5		5
CMSY			8		8
AAFES			12		12
TOTAL:	40	434	314	226	1019

DOES NOT INCLUDE TEC TEST TEMPS

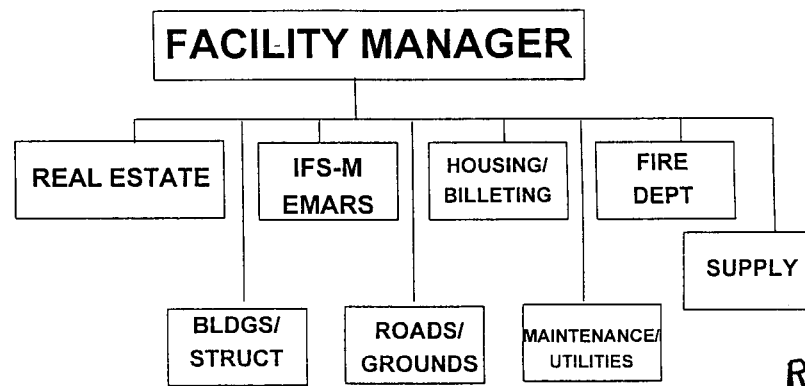
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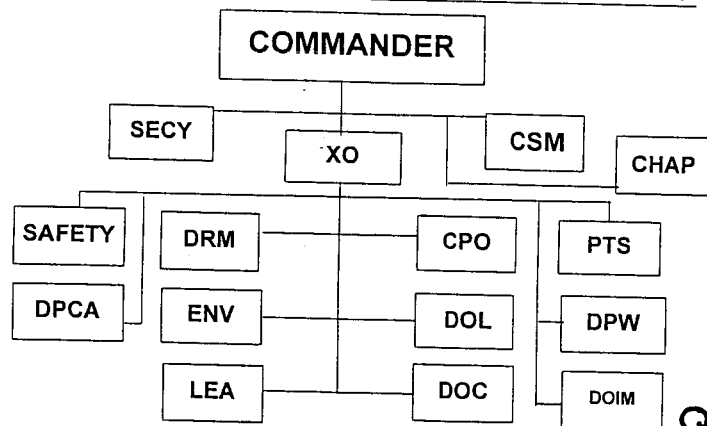
FORT HUNTER LIGGETT



PUBLIC WORKS



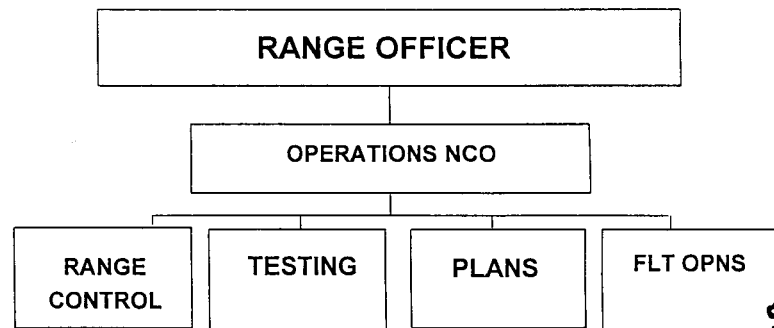
FORT HUNTER LIGGETT



FORT HUNTER LIGGETT



PLANS, TRAINING AND SECURITY



FHL 5

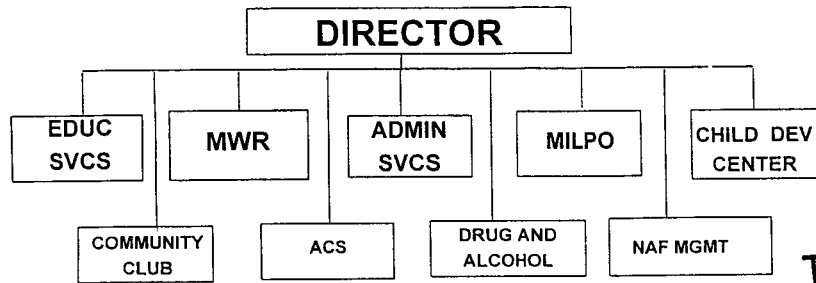
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FORT HUNTER LIGGETT



PERSONNEL AND COMMUNITY ACTIVITIES



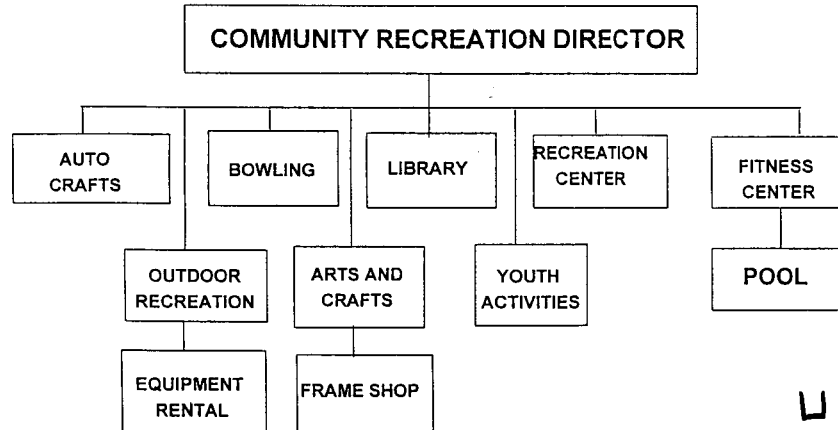
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FORT HUNTER LIGGETT



MORALE AND WELFARE AND RECREATION



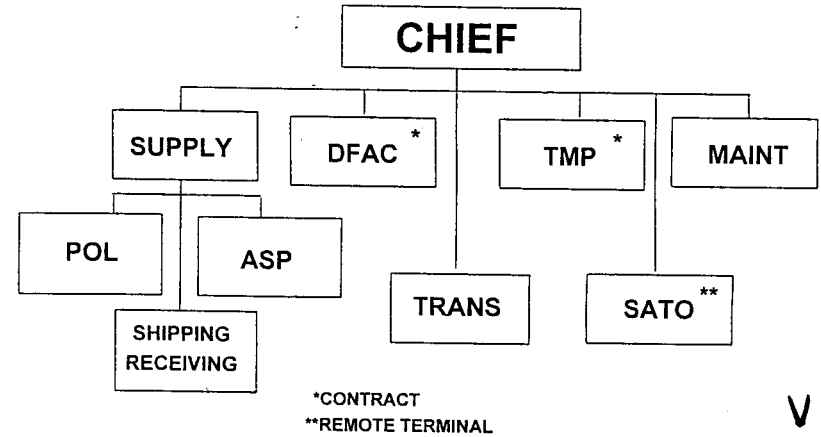
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FORT HUNTER LIGGETT



LOGISTICS DIVISION



\*CONTRACT  
\*\*REMOTE TERMINAL

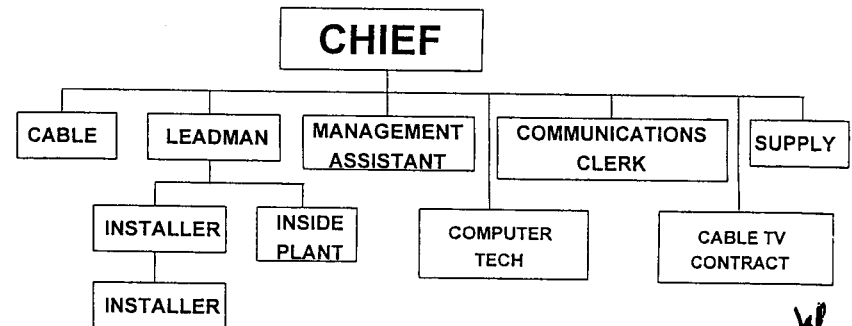
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FORT HUNTER LIGGETT



INFORMATION MANAGEMENT



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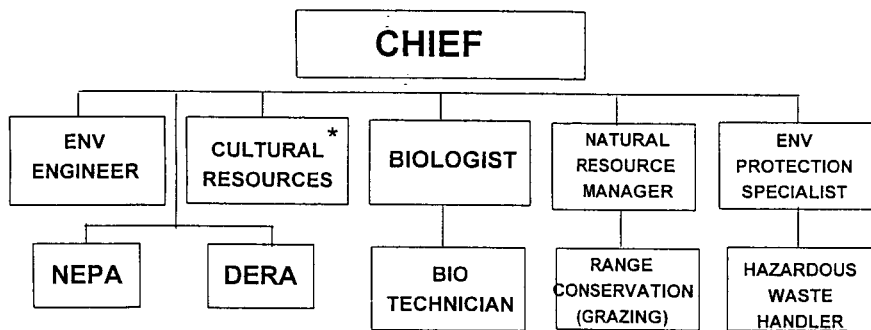
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FORT HUNTER LIGGETT



ENVIRONMENTAL BRANCH



\* CONTRACT

X



FORT HUNTER LIGGETT



HSC DETACHMENT

- 0800 - 1700 MONDAY THRU FRIDAY
- CLOSED HOLIDAYS & WEEKENDS
- AMBULANCE SUPPORTED BY FIRE DEPARTMENT DURING OFF DUTY HOURS
- UNIT MEDICAL SUPPORT REQUIRED FOR TRAINING UNITS

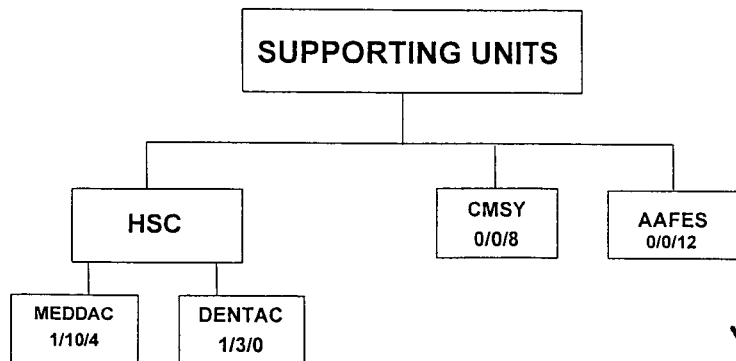
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FORT HUNTER LIGGETT



SUPPORTING UNITS



Y

REAT PLACE TO TRAIN

Fort Hunter Liggett. What We Have...

- ▶ Multi-Purpose Range Complex
- ▶ 29 Maneuver /Training Areas
- ▶ 165,000 Acres
- ▶ Heliport
- ▶ ASP
- ▶ 33 Drop Zones
- ▶ C-130 Assault Strip
- ▶ Shower Points
- ▶ South American Village (MOUI)
- ▶ ADA May be fired from training area 20 and the MPRC
- ▶ Artillery and Mortar firing areas
- ▶ Aviation Gunnery Range (MPRC)
- ▶ KD Range
- ▶ Rappel Area
- ▶ Demolition Areas
- ▶ Hand Grenade Range

AA

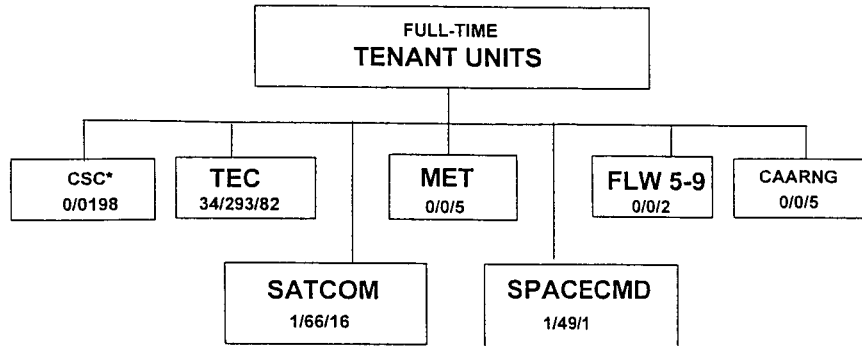
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# FORT HUNTER LIGGETT



\* CONTRACT

BB



# FORT HUNTER LIGGETT



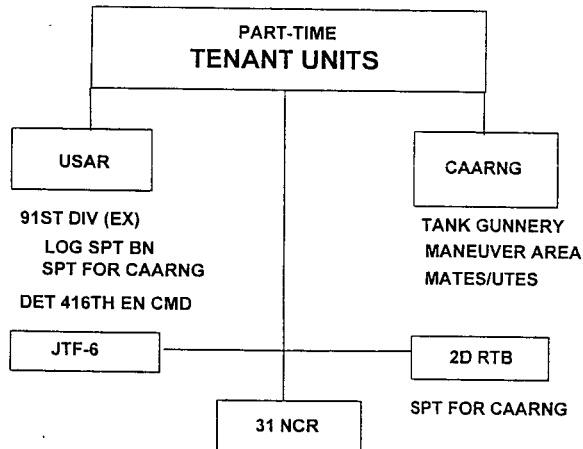
## UNIQUENESS OF POST

- 1800 FREQUENCIES AVAILABLE FOR TACTICAL MILITARY USE
- CAN USE MOST OF FREQUENCY SPECTRUM DUE TO REMOTE LOCATION
- THE ONLY POST WHERE NON-EYE-SAFE LASERS CAN BE USED IN 360°, FORCE-ON-FORCE MANEUVERS

DD



# FORT HUNTER LIGGETT



CC



# FORT HUNTER LIGGETT



## MULTI-PURPOSE RANGE COMPLEX (LIGHT)

- 3 FIRING / MOVING LANES
- 15 VEHICLE DEFENSIVE POSITIONS
- 156 STATIONARY INFANTRY TARGETS
- 47 MOVING INFANTRY TARGETS
- 37 STATIONARY ARMOR TARGETS
- 7 MOVING ARMOR TARGETS

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FHL 8

FHL 8



## FORT HUNTER LIGGETT

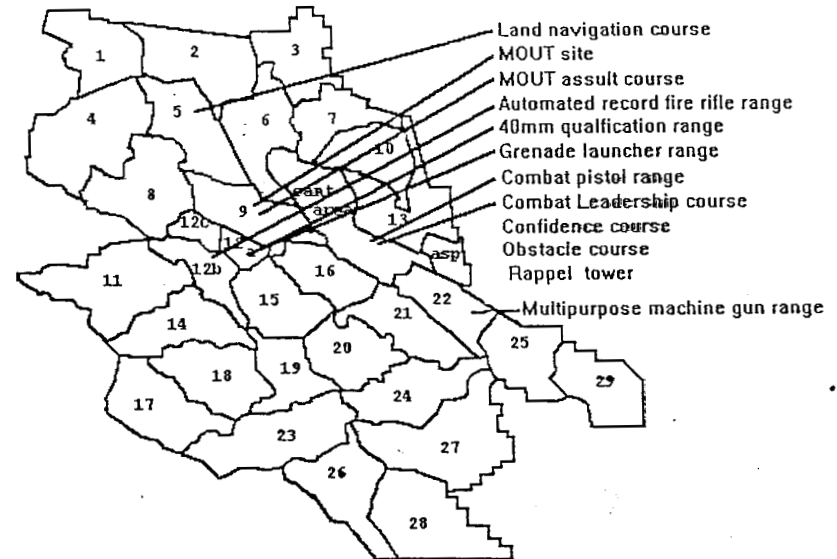


### CAMP ROBERTS

(CALIFORNIA NATIONAL GUARD)

- 29 AIRMILES FROM HUNTER LIGGETT
- CONNECTED TO HUNTER LIGGETT BY A 33KM TANK TRAIL WE MAINTAIN
- CONSISTS OF 152 SQ KM
  - 5 SQ KM CANTONMENT
  - 35 SQ KM IMPACT AREA
- 2 DZ'S & 1 C - 130 CAPABLE ASSAULT STRIP
- SATCOM STATION

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HH



## FORT HUNTER LIGGETT



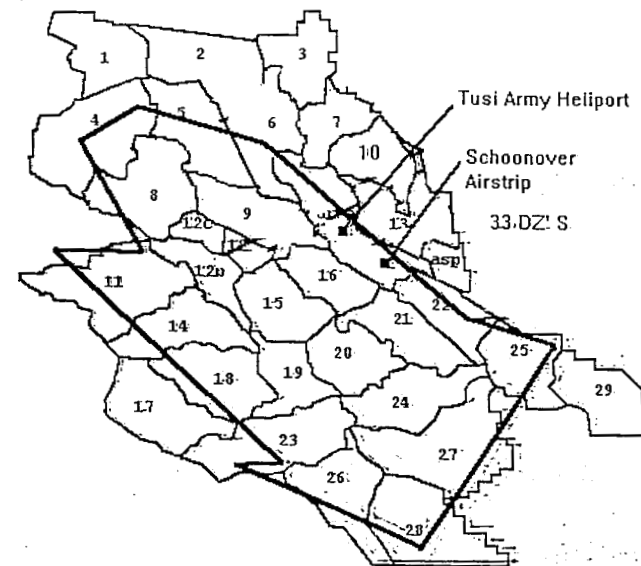
### PLANS, TRAINING, AND SECURITY

US FOREST SERVICE

(LOS PADRES NATIONAL FOREST)

- 92,000 ACRES
- REQUEST LAND 90 DAYS PRIOR TO TRAINING
- MUST IDENTIFY TYPE OF TRAINING
- LIMITED PYROTECHNICS
- NO OFF- ROAD VEHICLE TRAFFIC
- MUTUAL AID -- MOU AGREEMENTS

GG



II

FHL 9

FHL 9



# FORT HUNTER LIGGETT



## RANGES AND TRAINING FACILITIES REQUIREMENTS

- COMPAT PISTOL QUALIFICATIONS (CPQC)  
MILITARY PISTOL QUALIFICATION COURSE (MPQC)
- BASIC 25 METER FIRING RANGE (ZERO)
- AUTOMATED RECORD-FIRE (ARF) RANGE
- MULTIPURPOSE MECHINEGUN TRANSITION RANGE (M60,M2, & SAW)
- MULTIPURPOSE GUNNERY RANGE (MK-19) 40MM QUALIFICATION
- GRENADE LAUNCHER RANGE (M79 & M203)

J J



# FORT HUNTER LIGGETT



## RANGES AND TRAINING FACILITIES REQUIREMENTS (CONT)

- MILITARY OPERATIONS ON URBANIZED TERRAIN ASSAULT COURSE (MAC)
- MILITARY OPERATIONS ON URBANIZED TERRAIN COLLECTIVE TRAINING FACILITIES (MOUT CTF)
- CONFIDENCE OBSTACLE COURSE
- CONDITIONING OBSTACLE COURSE
- RAPPEL TOWER
- LAND NAVIGATION

KK

### RANGE CONTROL WEEKLY BRIEF (as of 19 APRIL 95) Training Scheduled at Fort Hunter Liggett 19 APRIL TO 26 APRIL 95

UNIT	TIME PERIOD	TRAINING AREAS	NUMBER OF PERSONNEL	SCHEDULED TRAINING
51 NCR USN Port Hueneme. CA	14 Apr - 5 May	9,10,13,20,21,22, 24,25,27	1,000	Defensive Ops H2O Purification Live fire Demo
CXB	17 - 20 Apr 24 - 4 May	20,21,22,24	85	Bradley Gunnery
CXB	17 - 21 Apr	10,13	160	Weapons Qual
2D RTB USA Fort Lewis, WA	18 - 25 Apr	9,12,15,20,21,22, 24	19	Recon
4TH ROTC U of S.F.	19 - 23 Apr	2,3,5,6	83	STAC, Squad Patrolling Land Nav
4th Force Recon USMC Reno, NV	21 - 23 Apr	6,7,9,10,13,16 Hammer DZ, Schoonover LZ	60	Static Line/MFF, Para Ops & Team Recon Patrols
HQ 1-149th AR ARNG Salinas	21 - 23 Apr	MPRC, 20,21,22,24	300	M60A3 Tables IV & V
CXB	26 - 27 Apr	15	65	CTT Training

LL



# FORT HUNTER LIGGETT



## CAARNG USE OF POST

- MPRC (5 CIV)
- UTES/MATES (FY97) (5-10 CIV)
- IDT 4800-9600 TROOPS/YEAR
- AT 4500 TROOPS/YEAR

MM

FHL 10

FHL 10



TEXCOM Experimentation Center  
 Ft. Huachuca, Tucson, AZ



## TEC FUNCTIONS



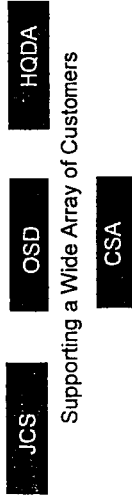
- Operational Test & Experimentation Site for OPTEC, DoD, TRADOC
- Laboratory for Short Fuze Experimentation

**B**

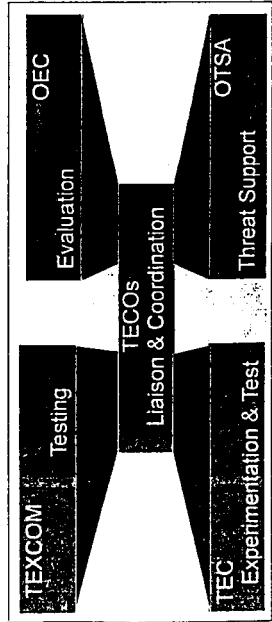


TEXCOM Experimentation Center

## QUALITY OT&E FOR A QUALITY ARMY



OPTEC

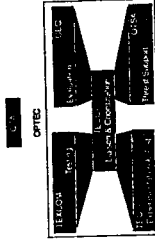


**A**



TEXCOM Experimentation Center

## TEC MISSION

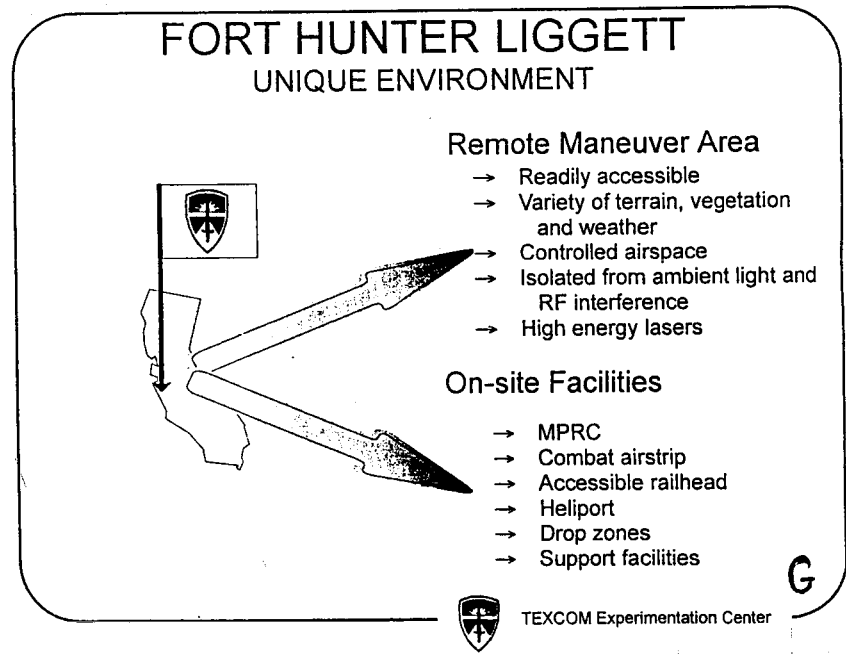
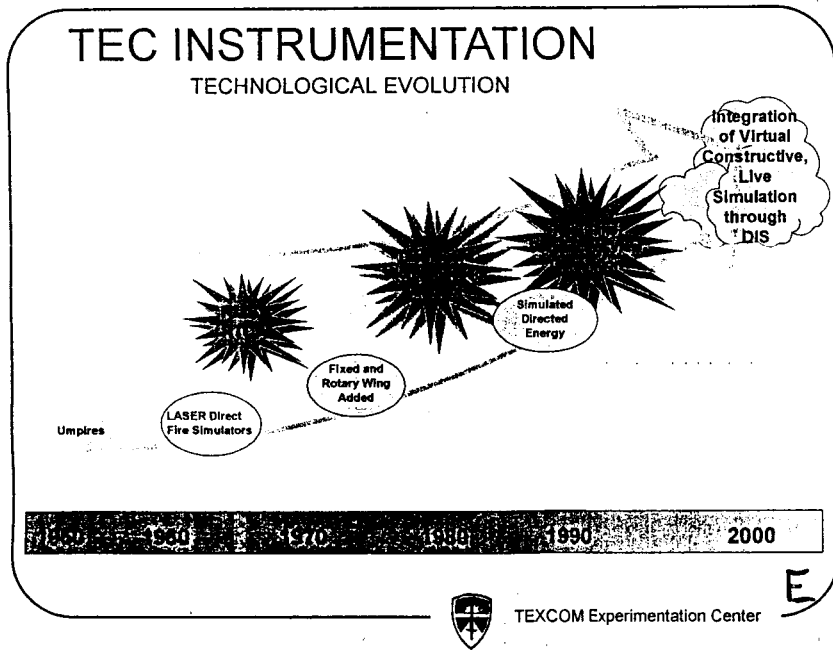
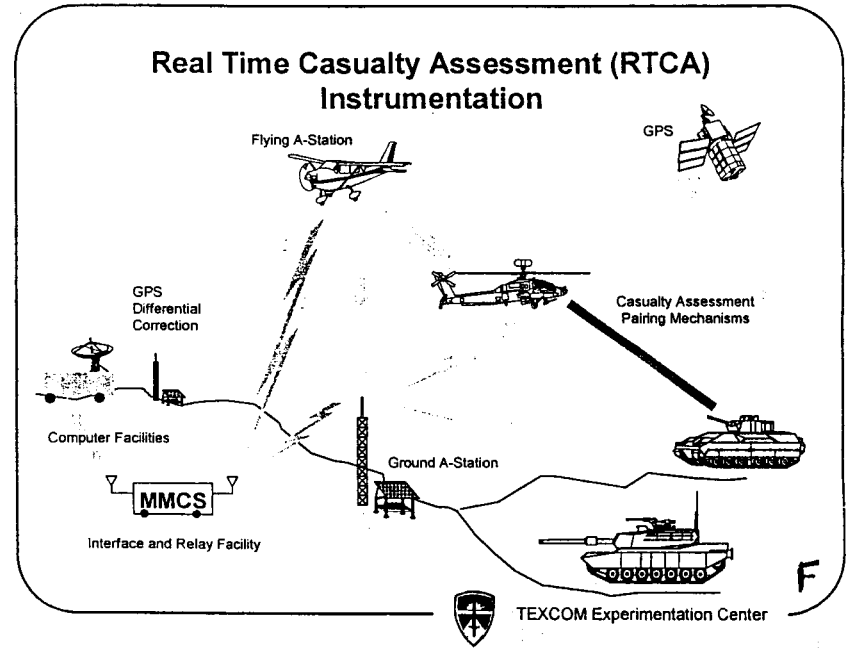
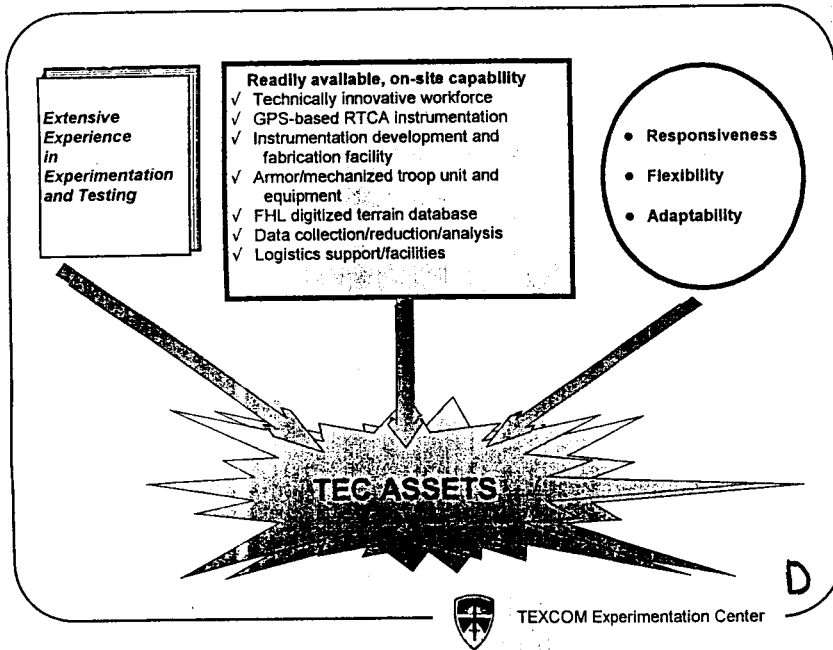


- Conduct high quality field experiments and tests in a unique environment using very precise instrumentation
- Provide high resolution data for model simulation/war games
- Examine options for system development, and verify proposed solutions to system development challenges
- Develop instrumentation for experimentation and tests

**C**



TEXCOM Experimentation Center



T2

T2

# TEC & FT HUNTER LIGGETT

## Value Added

### TEC Assets

- Extensive Experience
- On-site Capabilities
  - ✓ Instrumentation
  - ✓ Troops/Equipment
  - ✓ Digitized Terrain Database
  - ✓ Data Management
  - ✓ Logistics Support
- Innovative Workforce
- Responsive, Flexible, Adaptable

### FHL Environment

- Readily Available Maneuver Areas
- Variety of Terrain/Vegetation
- Isolation
- Controlled Airspace
- High Energy Lasers
- MPRC
- Combat Airstrip
- Support Facilities

**The Total  
Test/Experimentation  
Facility**



TEXCOM Experimentation Center

H

# TEC =

- Teamwork
- Expert Planning
- Effective Execution
- Technical Expertise
- Cost Effective Experimentation
- Vision of the Future

THE 21st CENTURY SOLDIER IS OUR CUSTOMER



TEXCOM Experimentation Center

J

### INFORMATION PAPER

Subject: TEXCOM Experimentation Center (TEC)

1. Purpose. To provide facts concerning TEC's capabilities.
2. Facts.

a. The TEXCOM Experimentation Center, located at Fort Hunter Liggett (FHL), California, has the unique capability to provide the total test and experimentation package. It possesses on-site capabilities required to support comprehensive test and experiment execution: a high resolution instrumentation system for real time casualty assessment (RTCA), an experimentation battalion of trained armor/mechanized infantry soldiers and equipment, a data collection/reduction/assessment capability, a digitized terrain data base, and appropriate logistics support/facilities. It possesses the expertise and facilities to evaluate materiel, doctrine, tactics, training, and organization in a real world operational environment.

b. As a battlefield laboratory, TEC has experience in a broad variety of combat and combat support missions. Its civilian work force, a combination of Department of the Army civilians and contractor personnel, possesses years of experience in innovative experimentation and operational testing and is integrated with an outstanding military cadre. TEC's high performing team is capable of expert planning, effective execution, and offers a future vision of improved instrumentation. The highly trained experimentation battalion (Armor/Mechanized) provides subordinate elements which are capable of executing both friendly and enemy tactics. The instrumentation development and fabrication facility possesses a unique ability to design, modify, and fabricate instrumentation to meet test and experimentation needs almost over night.

c. TEC's isolated location provides unequalled access to 760 square kilometers of extremely versatile training areas which can be further expanded to include the California Army National Guard installation at Camp Roberts (an additional 135 square kilometers connected by tank trail). Large portions of this terrain are available in SIMNET. FHL offers a wide variety of weather, terrain, and vegetation conditions; controlled airspace to 24,000 feet; one of the few worldwide 360 degree high energy laser play areas; isolation from ambient light; and minimal radio frequency (RF) interference. It also provides an independent location in which to conduct tests and experiments much like the National Training Center provides an independent training facility for the US Army. Additionally, the FHL training area provides a C-130 and C-17 capable combat airstrip, a Multipurpose Range Complex (MPRC) for tank and Bradley gunnery, and personnel and equipment drop zones for airborne operations. In proximity to FHL is Lemore Naval Air Station for high performance aircraft staging and a C-5A capable runway, the Fort Ord Military Operations in Urban Terrain (MOUT) site, and a railhead at Camp Roberts.

Emerging Instrumentation

FUTURE  
DIRECTIONS

OBJ  
FORCE XXI

AWE/ACTD Support



TEXCOM Experimentation Center

I

K

T3

MEMORANDUM FOR COMMISSIONER STEELE

SUBJECT: INSTRUMENTATION COSTS

DATE: APRIL 27, 1995

COL (RET) WALKLEY: "There are 200, or so, instrumentation sets that either must have frequency changes or new equipment purchased at somewhere between \$20,000.00 and \$30,000.00 a pop - another 2 to 4 million dollar drop in the bucket."

COMMISSIONER STEELE: " Would you provide written back-up to that statement"

RESPONSE: There are 346 data telemetry instrumentation components at Fort Hunter Liggett, of which 246 are old models.

If the 918 MHZ frequency is not available for TEC use at Ft Bliss and the current telemetry technology is to be maintained, then use of another frequency will be required. The estimated cost of modifying the frequency on the 100 new models is approximately \$20,000.00 each. The old models cannot be modified. Purchase of 246 additional new models is estimated at \$40,000.00 each.

If the 918 MHZ frequency is not available for TEC use at Ft Bliss and a replacement telemetry technology is required, then an investigation into cost/availability must be conducted.

Preliminary investigation indicates that telemetry replacement may be accomplished at an estimated cost of approximately \$5 - 8 million.

SOURCE: Colonel Jackson, Commander, TEC.

*Walkley*  
Walkley





OFFICE OF THE SECRETARY OF DEFENSE  
WASHINGTON, DC 20301-1700

OPERATIONAL TEST  
AND EVALUATION

April 25, 1995

Honorable Alan J. Dixon  
Chairman, Defense Base Closure  
and Realignment Commission  
1700 N. Moore Street, Suite 1425  
Arlington, Virginia 22209

Dear Mr. Chairman:

I appreciated the opportunity to testify before you on April 17, 1995. We are committed to providing the Commission with all the assistance and support we can. Enclosed are the responses to the questions you provided me from Congressman Sam Farr.

I trust this information will be helpful to you and please let me know if there is anything else I can provide.

Sincerely,

Philip E. Coyle  
Director

Enclosure

V<sup>L</sup>

Question: Mr. Coyle, from a military value standpoint is the "laser-safe bowl" (which allows for non-eye safe laser testing in an instrumented valley) at Fort Hunter-Liggett a critical component of operational testing?

Answer: Yes, modern testing of military systems often involves firing lasers instead of actual bullets or missiles. These laser firings are "paired" with laser receptors on the intended targets to determine if a hit has taken place. Of course, this must be done with the utmost personnel safety. The natural bowl at Fort Hunter-Liggett provides an ideal setting for such tests. Laser firings are conducted at other DoD test ranges but with concomitant restrictions where natural protection is unavailable.

Question: Mr. Coyle, do you think the instrumentation suite (used to monitor and record every player's activity during a test) could be duplicated at Fort Bliss? If so, would it be as effective?

Answer: For the right amount of money, the instrumentation at Fort Hunter-Liggett could be duplicated at Fort Bliss. If as good a job were done as has been done at Fort Hunter-Liggett, it could be as effective at Fort Bliss.

Question: Mr. Coyle, from a military value standpoint, is Fort Hunter-Liggett essential to operational testing to DoD?

Answer: Military value was evaluated by the Services, not by the Joint Cross Service Groups (JCSG). Military value-as determined by the Services-was considered along with functional values-determined by the JCSG's-in the final Service recommendations. Recognizing the special value of Fort Hunter-Liggett, the Army has proposed to continue to test at Fort Hunter-Liggett on a campaign basis. My concern is that moving the test command to Fort Bliss could become a de facto closing from a testing point of view.

Just four years ago, in 1991, the Army consolidated testing activities at Fort Hunter-Liggett because of the higher costs of campaign-style operation. Accordingly, once having moved to Fort Bliss, the Army may find that it is too expensive to return to Fort Hunter-Liggett on a campaign basis.

## Congressional Questions for the Record

Question: Mr. Coyle, as the person responsible for operational testing in DoD, you state in your February 10, 1995 memorandum to the Assistant Secretary of Defense for Economic Security (Economic Reinvestment & BRAC) that the recommendation to realign Fort Hunter-Liggett is a "showstopper."

Answer: To quote from our February 10, 1995 memorandum, our recommendation was that the "Army withdraw (its) proposal to move its test battalion from Fort Hunter-Liggett to Fort Bliss." Perhaps our use of the word "showstopper" was not the best choice. In the theater, a showstopper is applause that is so extended that it stops the show. This was not our meaning. Our memorandum was to convey our feeling that Fort Hunter-Liggett is an especially valuable asset, and that it's inclusion on the BRAC list should not be recommended to the Secretary of Defense. Subsequent to our February 10 memorandum, I discussed my concerns with the Army. The Army expressed their view that the operational considerations raised by DOT&E were, in fact, considered in the Army's test planning. In addition, they pointed out that the size of the TSC mission is small and could be realigned in the future outside of the BRAC process should the need arise. The recommendation also retains the land at Hunter-Liggett under Army control should the need arise to resume major testing there. I told the Army that I remained skeptical and concerned about the implications of this realignment for future Army testing capability.

Question: Mr. Coyle, we understand that there are conditions at Fort Hunter-Liggett which enhance it as a site for performing operational testing. These include: a varied terrain, isolation, no artificial light contamination and no radio frequency interference. Do these conditions exist at Fort Bliss? If not, could they be created?

Answer: Fort Bliss does not have the quality of terrain, weather, foliage, lack of artificial light contamination, or freedom from radio frequency interference as Fort Hunter-Liggett. It would be impractical to "create" these features at Fort Bliss. Instead the testing capabilities from other Army test assets would be used in combination to approximate the capabilities at Fort Hunter-Liggett. Also the Army proposal provides for future use of Fort Hunter-Liggett when required.

# Document Separator

DEFENSE REALIGNMENT ADVISORS

THE HOMER BUILDING  
SUITE 410 SOUTH  
601 THIRTEENTH STREET, N.W.  
WASHINGTON, D.C. 20005

(202) 879-9460

FAX COVER SHEET

TO: Bond Almond

FROM: TIM RUPLI PETER KOZUMPLIK  
J.R. RESKOVAC  BOB KELTIE  
DAVE ANDERSON JOHN SULLIVAN

DATE: 12 Apr 95

FAX: 203 696-0550

SPECIAL INSTRUCTIONS OR COMMENTS:

Bond-  
The summary page on FHunter-Liggett should  
closely resemble the page on DPG. Bailey is  
lead analyst on FHL. He should be in possession  
of the memo.

TM-  
-Bsb...

NUMBER OF PAGES, INCLUDING COVER SHEET: 3

Please contact Caroline at (202) 879-9460 if there are any problems during transmittal.  
Our fax number is (202) 737-4805.



OFFICE OF THE SECRETARY OF DEFENSE

1000 DEFENSE PENTAGON  
WASHINGTON, DC 20301-1000



CLOSE HOLD - FOR OFFICIAL USE ONLY - BRAC SENSITIVE

10 February 1995

MEMORANDUM FOR ASSISTANT SECRETARY OF DEFENSE FOR ECONOMIC  
SECURITY (ECONOMIC REINVESTMENT AND BRAC)

SUBJECT: Functional Assessment of Proposed Military Department  
Base Realignment and Closure Actions

Proposed BRAC actions by the MILDEPs as available on 9 February 1995, have been reviewed, and except as identified in the attachments, determined to be acceptable from the perspective of the DoD test and evaluation mission. Of those in the attachments, two are considered to be major showstoppers (regarding Dugway Proving Grounds and Fort Hunter-Liggett), and another a minor showstopper (Tunnel 9 inclusion in the White Oak closure). The remainder are considered incomplete requiring additional alternatives to be analyzed before we can agree to them.

Philip E. Coyne  
Director, Operational  
Test and Evaluation

John A. Burt  
Director, Test  
Systems Engineering and  
Evaluation

Attachments: a/s

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SAM FARR  
17TH DISTRICT, CALIFORNIA

1117 LONGWORTH BUILDING  
WASHINGTON, DC 20515-0517  
(202) 225-2861

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AND FOREIGN AGRICULTURE  
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House of Representatives  
Washington, DC 20515-0517

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WATER AND POWER RESOURCES

FASCIMILE TRANSMISSION

CONGRESSMAN SAM FARR  
1117 LONGWORTH HOB  
202-225-2861

TO: COL Steve Bailey

FROM: DAVE BORDEN

DATE: 6/8/95

NUMBER OF PAGES (including cover sheet) 2

Please call to confirm transmission if checked here: \_\_\_\_\_

MESSAGE Steve: THIS letter is  
in reference to our discussion  
last night

CC: JIM Schufreider  
Ed BROWN



DEPARTMENTS OF THE ARMY AND AIR FORCE  
OFFICE OF THE ADJUTANT GENERAL  
CALIFORNIA NATIONAL GUARD  
1808 GOETHHE ROAD - P.O. BOX 251107  
SACRAMENTO, CALIFORNIA 95822-1107



June 8, 1995

Honorable Alan J. Dixon  
Chairman, Base Realignment  
and Closure Commission  
1700 North Meers Street, Suite 1425  
Alexandria, Virginia 22309

Dear Mr. Dixon:

On April 13, 1995 I sent you a letter regarding the importance of Fort Hunter Liggett to the California National Guard. There appears to be some confusion about my interest in the installation and I would like to clarify my intent.

The purpose of my letter was simply to state the importance of Fort Hunter Liggett training areas to the California National Guard and express an interest in assuming responsibility for the multi-purpose range and maneuver areas that are critical to our training and readiness requirements. This suggestion was offered as the last alternative to losing access to essential Hunter Liggett training areas during the BRAC process. Any commitment by the California National Guard to accept additional training areas will require identification of funding and approval by National Guard Bureau.

Our desire is to maintain status quo at Fort Hunter Liggett, to include Test and Experimentation Command elements, until such time as a comprehensive study reveals a more effective use of this urgently needed training facility. The continued presence of the Test and Experimentation Command will reduce over-all base operating costs and enhance training opportunities.

I hope this clarifies any misunderstanding. Please do not hesitate to contact me at (916) 854-3900 if you have any questions regarding this letter.

Sincerely,

TANDY K. BOZEMAN  
Major General  
The Adjutant General



SAM FARR  
17TH DISTRICT, CALIFORNIA

COMMITTEE ON AGRICULTURE  
SUBCOMMITTEES:  
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AND FOREIGN AGRICULTURE  
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Washington, DC 20515-0517

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(408) 424-2229  
701 OCEAN STREET  
ROOM 318  
SANTA CRUZ, CA 95060  
(408) 429-1878

TO: Peter Kozumplik

FAX NUMBER: \_\_\_\_\_

FROM: DAVE BORDEN/  
Red Walkley

DATE: JUNE 12, 1995

NUMBER OF PAGES (including cover sheet): 4

Please call to confirm transmission if checked: \_\_\_\_\_

MESSAGE: Peter - please  
review this -

I spoke to you about  
Red's information last  
night.

PRINTED ON RECYCLED PAPER

IMA COST BREAKDOWN FOR TEXCOM RELOCATION

REFERENCE: TECHNICAL ASSESSMENT / COST ESTIMATE MEETING 30 ~~JUNE~~ <sup>MAY</sup> 1995  
FT RITCHIE, MD.

AUTOMATION: \$46,350

TELECOMMUNICATIONS: \$1,216,684 (WITH ISDN CAPABILITIES \$1,716,684)

VISUAL INFORMATION: \$27,338

RECORDS MANAGEMENT: \$8,537

LIBRARIES \$24,841

SPECIAL CONSIDERATIONS (LAN RESOURCES, LAN CLASSROOM, BENCHSTOCK,  
BRIEFING ROOM, AUDITORIUM, RANGE  
MEASUREMENT SYSTEM) \$11,400,000

EQUIPMENT FREQUENCY MODIFICATION: \$2,000,000

MICRO A AND B REPLACEMENT (EQUIPMENT CAN NOT BE FREQUENCY  
MODIFIED) \$9,400,000

TOTAL: \$24,623,750

UNKNOWN COSTS: INFORMATION MISSION AREA SYSTEM ENGINEERING  
RECOMMENDED UPGRADE COSTING DATA

*RECEIVED June 9, 1995  
from CDR, Fort Hunter Liggett  
[Signature]  
COL (RET) USA*

COBRA CATEGORIES - ONE TIME COSTS.

	<u>COBRA</u>	<u>TEC</u>	<u>FT RITCHIE</u>
<u>CONSTRUCTION</u>			
MILITARY CONSTRUCTION*	0	5,670,000	NA
<u>TOTAL CONSTRUCTION</u>	<u>0</u>	<u>5,670,000</u>	NA
<u>PERSONNEL</u>			
CIVILIAN RIF	89,696	100,000	NA
CIV EARLY RET	37,528		NA
CIV NEW HIRES	32,161		NA
ELIMINATED MIL PCS	77,983		NA
UNEMPLOYMENT	15,660		NA
<u>TOTAL PERSONNEL</u>	<u>252,758</u>	<u>100,000</u>	NA
<u>OVERHEAD</u>			
PROGRAM PLANNING SPT	1,406,713	122,400	NA
MOTHBALL SHUTDOWN	912,500		NA
<u>TOTAL OVERHEAD</u>	<u>2,319,213</u>	<u>122,400</u>	NA
<u>MOVING</u>			
CIVILIAN MOVING	1,682,500	1,300,000	NA
CIV PPS	57,600		NA
MILITARY MOVING	1,845,507		NA
FREIGHT	123,357		NA
ONE-TIME MOVING COSTS	0	576,000	NA
<u>TOTAL MOVING</u>	<u>3,708,965</u>	<u>1,876,000</u>	NA
<u>OTHER</u>			
HAP/RSE	204,682		NA
<u>TOTAL OTHER</u>	<u>204,682</u>		NA
<u>TOTAL</u>	<u>6,485,619</u>	<u>7,768,400</u>	NA

\*AND RENOVATION.

NOT CONSIDERED IN COBRA

INFORMATION MISSION AREA	0	NA	24,623,750
CONTRACTOR PERSONNEL MOVE	0	3,400,000	NA
HET TRANSPORTATION	0	122,400	NA
PRINTING	0	3,000	NA

GRAND TOTAL 6,485,619 11,293,800 24,623,750

(MINUS COBRA/TEC DUPLICATION OF \$1,522,400)

TOTAL ONE TIME COSTS = \$40,880,769.00.

COBRA MODEL PROJECTS \$6,485,619.00 ONE-TIME COSTS.  
 TEC PROJECTS \$11,293,800.00 OF WHICH \$1,522,400.00 DUPLICATES  
 COBRA DATA LEAVING \$9,771,400.00 NEW ONE-TIME COSTS.  
 PORT RITCHIE, MARYLAND TECHNICAL ASSESSMENT/COST ESTIMATE OF  
 THE INFORMATION MANAGEMENT AREA PROJECTS (\$24,623,750.) NEW  
 ONE-TIME COSTS.  
 THE GRAND TOTAL ONE-TIME COSTS AS PROGRAMMED BY COBRA, PROJECTED  
 BY TEC AND THE FT. RITCHIE COST ESTIMATE FOR INFORMATION MANAGEMENT  
 IS \$40,880,769.00. THIS IS \$34,395,150.00 MORE THAN CONTAINED IN  
 THE COBRA ANALYSIS.

376

**ANNEX H**  
**Financial Management Action Plan**

1. Base funding and one time recurring costs required to execute action are included for the following Budget activity descriptions:

<u>Budget Code</u>	<u>Description</u>	<u>Status</u>
20	Family Housing	NA
23	Operations	NA
30	Operation and Maintenance	NA
31	Civilian Severance pay	\$ 100.0K * <i>4.2K for VAW</i>
32	Civilian PCS	\$1,300.0M*
33	Transportation of Things	\$ 576.7K <i>462K new VAW costs</i>
34	Real Property Maintenance	NA
35	Program Management (summary of 36-39)	\$ 122.4K*
36	Historical Preservation & Cultural Resources	NA
39	Other items not covered	(See total)
	1-Contractor Personnel move	\$3,400.0M
	2-HET Transportation	\$ 122.4K
	3-Printing	\$ 3.0K*
<b>39 Total</b>		<b>\$3,525.4M</b>
50	Other procurement above \$25K	NA
60	Environmental Restoration (summary of 61-62)	NA
61	Restoration	NA
62	Management of Environmental Restoration	NA

2. Justification for each budget code follows:

31. TEC is projected to have 25 civilians authorized and on board under this action. Of the 25, it is estimated that 5 will separate with severance pay entitlements. Severance pay entitlements are estimated at \$20K per employee for a total estimated cost of \$100K.

32. TEC is planning to relocate 20 civilians to Fort Bliss. Relocation costs, including DARSE, are estimated at \$65K per employee for a total estimated PCS cost of \$1.3M.

33. Transportation of things is estimated at \$576,700.00. Detail is contained in Annex D.

35. Summary cost total (35 thru 39) is \$3,525,400.00. This includes:

a. HET Transportation costs:	\$ 122,400.00
b. Contractor personnel PCS costs:	\$3,400,000.00
c. Printing:	\$ 3,000.00
<b>Total:</b>	<b>3,525,400.00</b>

39. Other costs include those items as listed above.

a. These costs (\$122,400K) are necessary in the absence of a Heavy Equipment Transport (HET) capability at Fort Bliss and will be required from the date TEC becomes fully operational through FY 2000.

b. TEC is planning to transport 10 M1A1 tanks, 5 M3's, and two M88 Recovery vehicles for testing two times per year.

c. Estimated round trip cost per vehicle (twice per year) is \$1.2K for a total annual estimated cost of \$40.8K. Annual costs include fiscal years 98, 99, and 2000 for a total recurring cost of \$122,400.00.

3. Other Annex costs:

a. Annex A:	NA	
b. Annex B:	NA	
c. Annex C:	NA	
d. Annex D:	\$ 576,700.00	TRANSPORTATION OF EQUIP & INST
e. Annex E:	\$5,670,000.00	BLDG RENOVATION & CONSTRUCTION
f. Annex F:	NA	
g. Annex G:	NA	
h. Annex H:	\$ 100,000.00	(Severance Pay)
	\$1,300,000.00	(CIV PCS)
	\$ 122,400.00	(HET transportation)
	\$3,400,000.00	(Contractor personnel PCS)
	\$ 3,000.00	(printing)
<b>Total:</b>	<b>\$4,925,400.00</b>	

- i. Annex I: NA
- j. Annex J: NA
- k. Annex K: NA

**Total costs: \$11,172,100.00. (d + e + h total)**

Received Jun 9, 1995  
*[Signature]*  
 Col (Capt) USA

LTC BRYAN,

I HAVE REVIEWED YOUR FAX AND OUR DRAFT TECHNICAL ASSESSMENT AND COST ESTIMATE (TACE) AND PROVIDE A COMPARISON AND COMMENTS BELOW. THE "COST SHEET" COLUMN SHOWS THE FIGURES YOU FAXED TO ME. THE "TACE" COLUMN SHOWS THE FIGURES AS THEY EXISTED IN THE TACE WHEN IT WAS REVIEWED AT THE 30 MAY MEETING THAT MR. JONES REFERS TO. THE "CURRENT" COLUMN SHOWS THE FIGURES AS THEY EXIST IN THE MOST RECENT VERSION OF THE TACE, WHICH IS NOT FINAL, I MIGHT ADD. THE TACE CANNOT BE FINALIZED UNTIL THE FREQUENCY ISSUE IS RESOLVED AND A DETERMINATION IS MADE AS TO WHAT CONSTRUCTION/ RENOVATION WORK WILL BE DONE.

AUTOMATION:

COST SHEET	TACE	CURRENT
\$46,350	\$46,350	\$68,313

NOTE: THIS IS FOR RELOCATION OF MANY COMPUTER SYSTEMS AND RE-TERMINATION OF CIRCUITS.

TELECOMMUNICATIONS:

COST SHEET	TACE	CURRENT
\$1,216,684 OR \$1,716,664	\$1,216,684	EXPECT TO GO DOWN, RQMT MAY HAVE BEEN OVERSTATED

NOTE: THIS IS FOR A 1240 LINE UPGRADE TO THE SWITCH (\$1,203,535) PLUS RELOCATION OF RADIO EQUIPMENT (\$5,377), LOCAL AREA NETWORK EQUIPMENT (\$7,406) AND COMMUNICATIONS SECURITY EQUIPMENT (\$356). THE TEC SWITCH REQUIREMENT IS ONLY 500 LINES, SO THE BRAC PORTION OF THE SWITCH UPGRADE SHOULD BE LESS THAN ORIGINALLY NOTED IN THE TACE. WE DO NOT KNOW WHERE THE \$1,716,664 FIGURE CAME FROM WHICH IS NOTED ON THE COST SHEET. WE WILL HAVE A BETTER ESTIMATE FOR THE SWITCH UPGRADE SHORTLY.

VISUAL INFORMATION:

COST SHEET	TACE	CURRENT
\$27,338	\$27,338	\$20,550

NOTE: THIS IS FOR THE RELOCATION OF AUDIO VISUAL EQUIPMENT, PRIMARILY VCRs AND CAMERAS, AS WELL AS RE-TERMINATION OF THE VIDEO TELECONFERENCE CIRCUIT(S).

RECORDS MANAGEMENT:

COST SHEET	TACE	CURRENT
\$8,537	\$8,537	\$8,537

NOTE: THIS IS FOR RELOCATION OF PAPER AND AUDIO-VISUAL RECORDS, AS WELL AS RELOCATION OF GOVERNMENT OWNED COPY MACHINES.

OPTIONAL FORM 99 (7-90)

FAX TRANSMITTAL

# of pages 3

To LTC Bryan	From Cathy Michaliga
Dopt./Agency TABS	Phone # DSN 277-4854
Fax # 793-693-7322	Fax # 4114

## LIBRARIES:

COST SHEET	TACE	CURRENT
\$24,841	\$24,841	\$24,841

NOTE: THIS IS FOR THE RELOCATION OF TECHNICAL LIBRARIES WHICH INCLUDE MAG TAPE, DISC PACKS AND DRAWINGS

## SPECIAL CONSIDERATIONS:

COST SHEET	TACE	CURRENT
11,400,000	0	0

NOTE: IT APPEARS THAT THIS FIGURE WAS DUPLICATED ON THE COST SHEET AS AN ENTRY UNDER SPECIAL CONSIDERATIONS, AS WELL AS TWO OTHER ENTRIES THAT ADD UP TO THE \$11.4M (EQUIPMENT FREQUENCY MODIFICATION AND A AND B REPLACEMENT) OUR DOCUMENT HAS NARRATIVE THAT DISCUSSES SOME OF THE SPECIAL CONSIDERATIONS, BUT THE COSTS ARE ALL CONTAINED WITHIN THE OTHER ENTRIES. THEREFORE THIS ENTRY IS TOTALLY BOGUS.

## EQUIPMENT FREQUENCY MODIFICATION:

COST SHEET	TACE	CURRENT
\$2,000,000	\$2,000,000	???

NOTE: AS WE SPEAK THERE IS A MEETING BEING HELD AT FT BLISS TO DISCUSS THIS REQUIREMENT. THIS FIGURE WAS DEVELOPED BY TEC AND PLACED IN OUR DRAFT DOCUMENT, FOR LACK OF ANY BETTER INFORMATION. WE HAVE ENGAGED THE JOINT SPECTRUM CENTER TO ANALYZE THE FREQUENCY SITUATION AND COME UP WITH A ROUGH ORDER COST ESTIMATE BY EARLY JULY.

## A AND B REPLACEMENT:

COST SHEET	TACE	CURRENT
\$9,400,000	\$9,400,000	???

NOTE: AS WE SPEAK THERE IS A MEETING BEING HELD AT FT BLISS TO DISCUSS THIS REQUIREMENT. THIS FIGURE WAS DEVELOPED BY TEC AND PLACED IN OUR DRAFT DOCUMENT, FOR LACK OF ANY BETTER INFORMATION. WE HAVE ENGAGED THE JOINT SPECTRUM CENTER TO ANALYZE THE FREQUENCY SITUATION AND COME UP WITH A ROUGH ORDER COST ESTIMATE BY EARLY JULY.

TOTALS	\$24,123,750	\$12,723,750	\$122,241
--------	--------------	--------------	-----------

Other information you should be aware of:

If the construction is a requirement (we have been given 4 projects), the information system cost estimates to wire the buildings, provide outside plant cabling, and install electronics equipment in the building, are not reflected in our draft TACE, nor in the cost sheet you faxed to me. At the present time our estimate is not refined well enough to give the figures to you. Also, rest assured that if TEC needs fiber run to the ranges, our information systems cost estimate could be considerable. However, these requirements

are very ill-defined at this juncture. The meeting at Bliss should help to refine the range requirements so we can proceed with finalizing the TACE. Also, the Project Review Board which is being held at DA on 27 Jun will help focus in on the true construction requirements.



AFRC-FMH-IM

12 June 1995

MEMORANDUM FOR LTC HARRY BRYAN

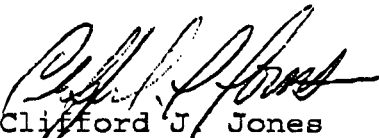
SUBJECT: List of Attendees from TA/CE Review

1. On 31 May 1995, a meeting was held at Fort Ritchie, Maryland. The topic was reviewing the Technical Assessment/Cost Estimate document. This document dealt with all the Information Management Area (IMA) issues involved in relocating TEXCOM from Fort Hunter Liggett to Fort Bliss. The following people were in attendance:

Lemont Powell, ISEC-CONUS, Fort Ritchie, DSN 277-4618  
Erik Peterson, FORSCOM G-6 BRAC, DSN 367-6688  
Tom Lederle, TRADOC BRAC, DSN 680-3907  
Carl Atkinson, TRADOC DCSIM, DSN 680-4020  
Juan E. Garcia, DOIM, Fort Bliss, DSN 978-5594  
Ellis Cullifer, TRADOC DCSIM, DSN 680-2072  
Paul Sardina, USAISEC-CONUS, DSN 277-5765  
MAJ Nicholson, TEXCOM, Fort Hunter Liggett, DSN 686-2101  
Cliff Jones, DOIM, Fort Hunter Liggett, DSN 686-2040

2. The meeting was chaired by Jim Huckleberry, Base Realignment and Closure Office, Fort Ritchie. DSN 277-4853.

3. The POC for this memorandum is the undersigned, DSN 686-2040.

  
Clifford J. Jones  
DOIM

CF:

LTC McNerney, Cdr, FHL

SAM FARR  
17TH DISTRICT, CALIFORNIA

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DEPARTMENT OPERATIONS, NUTRITION  
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CONGRESSMAN SAM FARR  
1117 LONGWORTH HOB  
202-225-2861

TO: Steve Bailey

FROM: DAVE BORDEN

DATE: \_\_\_\_\_

NUMBER OF PAGES (including cover sheet) 12

Please call to confirm transmission if checked here: \_\_\_\_\_

MESSAGE FYI -

Rep. FARR'S +

Rep. SEASTRAND'S

testimony.

SUPPORT-DOCUMENTS  
pertaining to one-time  
COSTS OF realigning  
TEC. to BLISS.

**TESTIMONY OF THE HONORABLE SAM FARR  
17TH CONGRESSIONAL DISTRICT, CALIFORNIA**

**TO THE DEFENSE BASE CLOSURE AND REALIGNMENT COMMISSION  
ON THE DOD RECOMMENDATION TO REALIGN THE TEXCOM EXPERIMENTATION  
CENTER (TEC) AT FORT HUNTER LIGGETT TO FORT BLISS**

**June 12, 1995**

Good morning Mr. Chairman and distinguished Members of the Commission:

I am pleased to have this opportunity to discuss DoD's recommendation to realign the TEXCOM Experimentation Center at Fort Hunter Liggett, California to Fort Bliss, Texas. As incredibly challenging as the Commission's job is, I know and appreciate the fact that the Commission will give careful consideration to the issues raised this morning when deliberating on its decision on Fort Hunter Liggett.

First, I would like to take this opportunity to mention the presence of two highly qualified experts in *both operational testing* and the capabilities of Fort Hunter Liggett who are with me this morning. Dr. Marion Bryson, retired director of TEXCOM Experimentation Center and Colonel L.D. "Red" Walkley, retired Army garrison commander at Hunter Liggett are working closely with the Commission's staff on the *military value* aspects of the terrain and isolation of Fort Hunter Liggett for conducting *operational testing*, and the significant flaws in the Army's COBRA analysis.

*Operational testing* is the final phase of DoD testing for evaluating material, doctrine, tactics, training and organization and this phase must be accomplished in an operationally realistic combat environment. This environment must include total free play of the opposing forces involved in the test. More importantly, this combat environment must challenge the minds of the soldiers and officers to ensure the systems and technology are

thoroughly evaluated.

Free play and varied terrain challenge the minds of our fighting forces. The more varied the terrain, the higher probability of the quality of testing. There are few restrictions to the creation of an appropriate environment in the hills and valleys of Fort Hunter Liggett. For example, high-energy lasers can be used 360 degrees, but they can be used in the arid desert environment only where sufficient hills can backstop their energy. As such, free play is lost at a place such as Fort Bliss which lacks the appropriate terrain to facilitate two-way unrestricted laser use.

Another example is the ability to use the broad spectrum radio frequency jamming at Fort Hunter Liggett. Broad spectrum radio frequency jamming reduces the ability of the leader to communicate with the force and produces the realistic battlefield condition of confusion, and thus requiring individual initiative, thereby contributing to the quality of the test. Broad frequency radio jamming can interfere with television and AM/FM Radio reception, emergency networks and foreign frequency usage. There are few restrictions at Fort Hunter Liggett on jamming; many at Fort Bliss.

Finally, terrain is both friend and foe to forces engaged in testing. Again, leadership and initiative come into play when the forces are confronted with hills and valleys, rivers and lakes, manzanita thicket and oak forest. In addition to the terrain and vegetation, the possibility of wildland fire and a wide variance of climatic conditions Fort Hunter Liggett relates to vast regions of the non-desert world.

The weapons, mobility and technology provided to our forces are the key to success on the battlefield. I believe our soldiers deserve the very best that industry, innovation and

research can provide. I also believe that the place for ensuring this quality is on the proving grounds and testing areas, not on the battlefield. An example of this would be the testing of the Apache Longbow. Equipped with a state-of-the-art mast mounted radar fire control system, along with navigation and communications systems, the Longbow Apache was designed to be a formidable 21st Century Army weapon to detect and engage multiple targets on the battlefield. This test was concluded this year at Hunter Liggett. It had been originally scheduled at Fort Bliss but was switched for many of the reasons cited above.

### **ARMY COBRA ANALYSIS**

DoD made a recommendation based on the Army's COBRA analysis that there would be a substantial return on investment to realign TEC. Their analysis led to the following results:

1. One-time cost to realign TEC to Fort Bliss of \$6.6 Million.
2. All costs recovered in 1-year.
3. Army says there will be an accumulated savings of \$67.6 Million at the end of BRAC period in 2015.

### **RETURN ON INVESTMENT**

The Army's COBRA analysis was flawed in that it made assumptions in salary and base operations costing data. Assuming the TEC element to be bigger than it actually will be, the Army anticipated moving 384 personnel in FY 1998. Due to the planned force structure which is independent of the BRAC process, TEC will only be 206 personnel by FY 1998.

Omitting the costs of moving the TEC element to Fort Bliss including conversion of office space, laboratory facilities, and the recalibration or replacement of TEC instrumentation to avoid frequency interference were not calculated in the Army's COBRA analysis.

I am submitting to the record copies of Army working papers from a 30 May 1995 **Technical Assessment/Cost Estimate meeting** at Fort Ritchie, MD which illustrates that there is a one-time cost of \$40.9 Million to move the TEC element. This data was compiled by the TEC, Ft. Bliss and Fort Ritchie, MD working groups planning the proposed realignment of TEC from Fort Hunter Liggett to Fort Bliss.

Again, this data adds \$34.4 Million to the Army COBRA projections of \$6.5 Million in one-time costs for a total of \$40.9 Million or a 620% increase in the COBRA projection. I am providing this data in the form of a TEC working document and a Fort Ritchie Summary page from its cost assessment meeting.

I strongly believe that we have shown that the military value of Fort Hunter Liggett for operational testing is vastly superior to Fort Bliss and that there will be a one-time significant cost to the taxpayer -- with no recurring savings. As the Army downsizes, technological advancements play an even greater role in Battlefield success. Throughout history, victory has gone to the side that makes the best use of available technology.

Even if this proposed move made operational sense there is no return on investment. The Secretary of Defense substantially deviated from BRAC criterion 5. Therefore, I urge the Commission to reject the DoD Recommendation to realign TEC from Fort Hunter Liggett to Fort Bliss.

IMA COST BREAKDOWN FOR TEXCOM RELOCATION

REFERENCE: TECHNICAL ASSESSMENT / COST ESTIMATE MEETING 30 ~~JUNE~~ <sup>MAY</sup> 1995  
FT RITCHIE, MD.

AUTOMATION: \$46,350

TELECOMMUNICATIONS: \$1,216,684 (WITH ISDN CAPABILITIES \$1,716,684)

VISUAL INFORMATION: \$27,338

RECORDS MANAGEMENT: \$8,537

LITERARIES \$24,541

SPECIAL CONSIDERATIONS (LAN RESOURCES, LAN CLASSROOM, BENCHSTOCK,  
BRIEFING ROOM, AUDITORIUM, RANGE  
MEASUREMENT SYSTEM) \$11,400,000

EQUIPMENT FREQUENCY MODIFICATION: \$2,000,000

MICRO A AND B REPLACEMENT (EQUIPMENT CAN NOT BE FREQUENCY  
MODIFIED) \$9,400,000

TOTAL: \$24,821,750

UNFINISHED COSTS: INFORMATION MISSION AREA SYSTEM ENGINEERING  
RECOMMENDED UPGRADE COSTING DATA

Received June 9, 1995  
from CDE, Fort Hunter Liggett  
*[Signature]*  
COL (RET) USA

COBRA CATEGORIES - ONE TIME COSTS.

	<u>COBRA</u>	<u>TEC</u>	<u>FT RITCHIE</u>
<u>CONSTRUCTION</u>			
MILITARY CONSTRUCTION*	0	5,670,000	NA
<u>TOTAL CONSTRUCTION</u>	<u>0</u>	<u>5,670,000</u>	NA
<u>PERSONNEL</u>			
CIVILIAN RIF	89,696	100,000	NA
CIV EARLY RET	37,528		NA
CIV NEW HIRES	32,161		NA
ELIMINATED MIL PCS	77,983		NA
UNEMPLOYMENT	15,660		NA
<u>TOTAL PERSONNEL</u>	<u>252,758</u>	<u>100,000</u>	NA
<u>OVERHEAD</u>			
PROGRAM PLANNING SPT	1,406,713	122,400	NA
MOTHBALL SHUTDOWN	912,500		NA
<u>TOTAL OVERHEAD</u>	<u>2,319,213</u>	<u>122,400</u>	NA
<u>MOVING</u>			
CIVILIAN MOVING	1,682,500	1,300,000	NA
CIV PPS	57,600		NA
MILITARY MOVING	1,845,507		NA
FREIGHT	123,357		NA
ONE-TIME MOVING COSTS	0	576,000	NA
<u>TOTAL MOVING</u>	<u>3,708,965</u>	<u>1,876,000</u>	NA
<u>OTHER</u>			
HAP/RSE	204,682		NA
<u>TOTAL OTHER</u>	<u>204,682</u>		NA
<u>TOTAL</u>	<u>6,485,619</u>	<u>7,768,400</u>	NA

\*AND RENOVATION.

## NOT CONSIDERED IN COBRA

INFORMATION MISSION AREA	0	NA	24,623,750
CONTRACTOR PERSONNEL MOVE	0	3,400,000	NA
HET TRANSPORTATION	0	122,400	NA
PRINTING	0	3,000	NA

<u>GRAND TOTAL</u>	<u>6,485,619</u>	<u>11,293,800</u>	<u>24,623,750</u>
	(MINUS COBRA/TEC DUPLICATION OF \$1,522,400)		
<u>TOTAL ONE TIME COSTS</u>	<u>= \$40,880,769.00.</u>		

COBRA MODEL PROJECTS \$6,485,619.00 ONE-TIME COSTS.

TEC PROJECTS \$11,293,800.00 OF WHICH \$1,522,400.00 DUPLICATES COBRA DATA LEAVING \$9,771,400.00 NEW ONE-TIME COSTS.

FORT RITCHIE, MARYLAND TECHNICAL ASSESSMENT/COST ESTIMATE OF THE INFORMATION MANAGEMENT AREA PROJECTS \$24,623,750.) NEW ONE-TIME COSTS.

THE GRAND TOTAL ONE-TIME COSTS AS PROGRAMMED BY COBRA, PROJECTED BY TEC AND THE FT. RITCHIE COST ESTIMATE FOR INFORMATION MANAGEMENT IS \$40,880,769.00. THIS IS \$34,395,150.00 MORE THAN CONTAINED IN THE COBRA ANALYSIS.



ANNEX H

Financial Management Action Plan

1. Base funding and one time recurring costs required to execute action are included for the following Budget activity descriptions:

<u>Budget Code</u>	<u>Description</u>	<u>Status</u>
20	Family Housing	NA
23	Operations	NA
30	Operation and Maintenance	NA
31	Civilian Severance pay	\$ 100.0K* <i>4.9K in 7-21</i>
32	Civilian PCS	\$1,300.0M*
33	Transportation of Things	\$ 576.7K <i>from move via lands</i>
34	Real Property Maintenance	NA
35	Program Management (summary of 36-39)	\$ 122.4K*
36	Historical Preservation & Cultural Resources	NA
39	Other items not covered	(See total)
	1-Contractor Personnel move	\$3,400.0M
	2-HET Transportation	\$ 122.4K
	3-Printing	\$ 3.0K*
<b>39 Total</b>		<b>\$3,525.4M</b>
50	Other procurement above \$25K	NA
60	Environmental Restoration (summary of 61-62)	NA
61	Restoration	NA
62	Management of Environmental Restoration	NA

2. Justification for each budget code follows:

31. TEC is projected to have 25 civilians authorized and on board under this action. Of the 25, it is estimated that 5 will separate with severance pay entitlements. Severance pay entitlements are estimated at \$20K per employee for a total estimated cost of \$100K.

32. TEC is planning to relocate 20 civilians to Fort Bliss. Relocation costs, including DARSE, are estimated at \$65K per employee for a total estimated PCS cost of \$1.3M.

33. Transportation of things is estimated at \$576,700.00. Detail is contained in Annex D.

35. Summary cost total (35 thru 39) is \$3,525,400.00. This includes:

a.	HET Transportation costs:	\$ 122,400.00
b.	Contractor personnel PCS costs:	\$3,400,000.00
c.	Printing:	\$ 3,000.00
	Total:	3,525,400.00

39. Other costs include those items as listed above.

a. These costs (\$122,400K) are necessary in the absence of a Heavy Equipment Transport (HET) capability at Fort Bliss and will be required from the date TEC becomes fully operational through FY 2000.

b. TEC is planning to transport 10 M1A1 tanks, 5 M3's, and two M88 Recovery vehicles for testing two times per year.

c. Estimated round trip cost per vehicle (twice per year) is \$1.2K for a total annual estimated cost of \$40.8K. Annual costs include fiscal years 98, 99, and 2000 for a total recurring cost of \$122,400.00.

3. Other Annex costs:

a.	Annex A:	NA	
b.	Annex B:	NA	
c.	Annex C:	NA	
d.	Annex D:	\$ 576,700.00	TRANSPORTATION OF EQUIP & INST
e.	Annex E:	\$5,670,000.00	Bldg RENOVATION & CONSTRUCTION
f.	Annex F:	NA	
g.	Annex G:	NA	
h.	Annex H:	\$ 100,000.00	(Severance Pay)
		\$1,300,000.00	(CIV PCS)
		\$ 122,400.00	(HET transportation)
		\$3,400,000.00	(Contractor personnel PCS)
		\$ 3,000.00	(printing)
	Total:	\$4,925,400.00	

i.	Annex I:	NA
j.	Annex J:	NA
k.	Annex K:	NA
	Total costs:	\$11,172,100.00. (d + e + h total)

RECEIVED Jun 9, 1995  
*[Signature]*  
 Col (Ret) USA

ANDREA H. SEASTRAND  
22D DISTRICT, CALIFORNIA

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**TESTIMONY OF THE HONORABLE ANDREA SEASTRAND**  
**22ND CONGRESSIONAL DISTRICT, CALIFORNIA**

**TO THE DEFENSE BASE CLOSURE AND REALIGNMENT COMMISSION ON**  
**THE DOD RECOMMENDATION TO REALIGN THE TEXCOM EXPERIMENTATION**  
**CENTER (TEC) AT FORT HUNTER LIGGETT TO FORT BLISS**

**June 12, 1995**

Mr. Chairman, distinguished Members of the Commission:

Thank you for the opportunity to come before you today and address the recommended realignment of the TEXCOM Experimentation Center at Fort Hunter Liggett, California to Fort Bliss, Texas. As you have just heard from Congressman Farr's testimony, Fort Hunter Liggett is of great value to our military.

Technology has been, and will continue to be, America's military advantage. This fact was proven in the Gulf War. Although the coalition forces were smaller than those of Iraq's, our men and women were able to achieve a decisive victory over the aggressor. They won because of the superior training, weapons systems and technologies provided them through a demanding developmental and operational test and experimentation program.

The Gulf War was the first real test of the Apache helicopter, the Kiowa scout helicopter, the improved TOW vehicle, the Hummer and the Marine Corps Light Armored Vehicle. All of these systems were operationally tested and certified at Fort Hunter Liggett.

Another combat system that used Fort Hunter Liggett as its proving ground was the Sergeant York anti-aircraft gun. However, this \$3 billion system did not appear in the Gulf War. Although the Sergeant York tested favorably at Fort Bliss in the early

80's, when this system was sent to Fort Hunter Liggett for a confirmation operational test it failed. The system failed because the acquisitional radar became confused among the vegetation and varied terrain of Fort Hunter Liggett. The system could not successfully engage enemy aircraft in this type of environment. Because of this failure, the program was eventually cancelled thus saving millions of dollars. Fort Hunter Liggett again proved its worth.

I would now like to move on to the COBRA analysis. I want to stress the fact that even if the recommended realignment of TEC at Fort Hunter Liggett made military or operational sense, there is no return on investment. In developing its return on investment analysis, the Army began with data that were inaccurate. It then failed to accommodate force structure changes for the TEC element. Next, the Army analysis failed to provide for the mission essential costs (instrumentation reprogramming and laboratory facilities) that must be born at Fort Bliss to enable the TEC element to attempt to perform its mission at that location. It makes no sense to move the element if it saves no money and cannot perform once moved. The Community analysis merely rectifies these errors.

In summary, the twenty-year savings do not equal the one time costs of moving TEC from Fort Hunter Liggett to Fort Bliss. As a result, the recommendation for realignment represents a substantial deviation from BRAC criterion 5.

As you deliberate the possible realignment of the Test & Experimentation Command from Fort Hunter Liggett to Fort Bliss, I trust you will re-examine this issue based on the testimony you have heard today. I believe it is in the best interest of our military, our community and our nation to keep the Test & Experimentation Command in its current configuration at Fort Hunter Liggett.

In closing, I want to repeat the DOD's own words from the report it sent to the Commission, (Volume III, p.78).

"As the Army downsizes, technological advances play an even greater role in battlefield success. Throughout history, victory has gone to the side that makes the best use of available technology."

I believe these new technological advances can best be operationally tested at Fort Hunter Liggett.

Thank you.

Department : ARMY  
 Option Package : FHL6  
 Scenario File : C:\COBRA508\FHL6.CBR  
 Std Fctrs File : A:\FHL3.SFF

Starting Year : 1996  
 Final Year : 1998  
 ROI Year : 100+ Years

NPV in 2015(\$K): 18,526  
 1-Time Cost(\$K): 20,567

Net Costs (\$K)	Constant Dollars						Total	Beyond
	1996	1997	1998	1999	2000	2001		
MilCon	676	6,761	0	0	0	0	7,437	0
Person	0	0	491	-416	-416	-416	-757	-416
Overhd	440	330	2,210	223	223	223	3,648	223
Moving	0	0	1,193	0	0	0	1,193	0
Missio	0	0	0	0	0	0	0	0
Other	0	0	10,065	0	0	0	10,065	0
<b>TOTAL</b>	<b>1,116</b>	<b>7,091</b>	<b>13,959</b>	<b>-193</b>	<b>-193</b>	<b>-193</b>	<b>21,586</b>	<b>-193</b>

	1996	1997	1998	1999	2000	2001	Total
<b>POSITIONS ELIMINATED</b>							
Off	0	0	2	0	0	0	2
Enl	0	0	16	0	0	0	16
Civ	0	0	6	0	0	0	6
TOT	0	0	24	0	0	0	24

	1996	1997	1998	1999	2000	2001	Total
<b>POSITIONS REALIGNED</b>							
Off	0	0	30	0	0	0	30
Enl	0	0	151	0	0	0	151
Stu	0	0	0	0	0	0	0
Civ	0	0	25	0	0	0	25
TOT	0	0	206	0	0	0	206

Summary:

-----  
 Realign FHL. Move TEXCOM to Ft. Bliss.  
 Maintain all ranges & training land for RC training.  
 Removed W12K1A from total garrison numbers per FORSCOM commander.  
 DOES NOT INCLUDE SPECIAL MOVING COST OF TEXCOM EQUIPMENT.  
 FHL2.cbr and FHL1.sff=DRA mods to Army-provided data.

*used std facts part to this file*

Department : ARMY  
 Option Package : FHL6  
 Scenario File : C:\COBRA508\FHL6.CBR  
 Std Fctrs File : A:\FHL3.SPF

Costs (\$K)	Constant Dollars						Total	Beyond
	1996	1997	1998	1999	2000	2001		
	----	----	----	----	----	----	----	-----
MilCon	676	6,761	0	0	0	0	7,437	0
Person	0	0	933	466	466	466	2,331	466
Overhd	440	330	2,479	2,107	2,107	2,107	9,568	2,107
Moving	0	0	1,456	0	0	0	1,456	0
Missio	0	0	0	0	0	0	0	0
Other	0	0	10,065	0	0	0	10,065	0
<b>TOTAL</b>	<b>1,116</b>	<b>7,091</b>	<b>14,933</b>	<b>2,573</b>	<b>2,573</b>	<b>2,573</b>	<b>30,858</b>	<b>2,573</b>

Savings (\$K)	Constant Dollars						Total	Beyond
	1996	1997	1998	1999	2000	2001		
	----	----	----	----	----	----	----	-----
MilCon	0	0	0	0	0	0	0	0
Person	0	0	441	882	882	882	3,088	882
Overhd	0	0	269	1,884	1,884	1,884	5,920	1,884
Moving	0	0	263	0	0	0	263	0
Missio	0	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0
<b>TOTAL</b>	<b>0</b>	<b>0</b>	<b>974</b>	<b>2,766</b>	<b>2,766</b>	<b>2,766</b>	<b>9,272</b>	<b>2,766</b>

Department : ARMY  
 Option Package : FHL6  
 Scenario File : C:\COBRA508\FHL6.CBR  
 Std Fctrs File : A:\FHL3.SFF

INPUT SCREEN ONE - GENERAL SCENARIO INFORMATION

Model Year One : FY 1996

Model does Time-Phasing of Construction/Shutdown: Yes

Base Name	Strategy:
-----	-----
FHL (Hunter Liggett), CA	Deactivates in FY 1998
Fort Bliss, TX	Realignment

Summary:

-----  
 Realign FHL. Move TEXCOM to Ft. Bliss.  
 Maintain all ranges & training land for RC training.  
 Removed W12K1A from total garrison numbers per FORSCOM commander.  
 DOES NOT INCLUDE SPECIAL MOVING COST OF TEXCOM EQUIPMENT.  
 FHL2.cbr and FHL1.sff=DRA mods to Army-provided data.

INPUT SCREEN TWO - DISTANCE TABLE

From Base:	To Base:	Distance:
-----	-----	-----
FHL (Hunter Liggett), CA	Fort Bliss, TX	1,633 mi

INPUT SCREEN THREE - MOVEMENT TABLE

Transfers from FHL (Hunter Liggett), CA to Fort Bliss, TX

	1996	1997	1998	1999	2000	2001
	----	----	----	----	----	----
Officer Positions:	0	0	30	0	0	0
Enlisted Positions:	0	0	151	0	0	0
Civilian Positions:	0	0	25	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	2,425	0	0	0

(See final page for Explanatory Notes)

INPUT SCREEN FOUR - STATIC BASE INFORMATION

Name: FHL (Hunter Liggett), CA

Total Officer Employees:	38	RPMA Non-Payroll (\$K/Year):	1,900
Total Enlisted Employees:	319	Communications (\$K/Year):	720
Total Student Employees:	0	BOS Non-Payroll (\$K/Year):	5,978
Total Civilian Employees:	238	BOS Payroll (\$K/Year):	5,398
Mil Families Living On Base:	100.0%	Family Housing (\$K/Year):	262
Civilians Not Willing To Move:	52.0%	Area Cost Factor:	1.44
Officer Housing Units Avail:	0	CHAMPUS In-Pat (\$/Visit):	0
Enlisted Housing Units Avail:	0	CHAMPUS Out-Pat (\$/Visit):	0
Total Base Facilities(KSF):	730	CHAMPUS Shift to Medicare:	0.0%
Officer VHA (\$/Month):	390	Activity Code:	6205
Enlisted VHA (\$/Month):	292		
Per Diem Rate (\$/Day):	112	Homeowner Assistance Program:	No
Freight Cost (\$/Ton/Mile):	0.07	Unique Activity Information:	No



Department : ARMY  
 Option Package : FHL6  
 Scenario File : C:\COBRA508\FHL6.CBR  
 Std Fctrs File : A:\FHL3.SFF

INPUT SCREEN FOUR - STATIC BASE INFORMATION

Name: Fort Bliss, TX

Total Officer Employees:	1,679	RPMA Non-Payroll (\$K/Year):	24,044
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	Homeowner Assistance Program:	No
Per Diem Rate (\$/Day):	93	Unique Activity Information:	No
Freight Cost (\$/Ton/Mile):	0.07		

INPUT SCREEN FIVE - DYNAMIC BASE INFORMATION

Name: FHL (Hunter Liggett), CA

	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 Req'd(\$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):	100					
		Perc Family Housing ShutDown:				0.0%

Name: Fort Bliss, TX

	1996	1997	1998	1999	2000	2001
	----	----	----	----	----	----
1-Time Unique Cost (\$K):	0	0	10,000	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 Req'd(\$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	1,677	1,677	1,677	1,677
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%

(See final page for Explanatory Notes)

Department : ARMY  
 Option Package : FHL6  
 Scenario File : C:\COBRA508\FHL6.CBR  
 Std Fctrs File : A:\FHL3.SFF

INPUT SCREEN SIX - BASE PERSONNEL INFORMATION

Name: FHL (Hunter Liggett), CA

	1996	1997	1998	1999	2000	2001
Off Force Struc Change:	0	-6	0	0	0	0
Enl Force Struc Change:	0	-126	0	0	0	0
Civ Force Struc Change:	-17	-18	0	0	0	0
Stu Force Struc Change:	0	0	0	0	0	0
Off Scenario Change:	0	0	-2	0	0	0
Enl Scenario Change:	0	0	-16	0	0	0
Civ Scenario Change:	0	0	-6	0	0	0
Off Change(No Sal Save):	0	0	0	0	0	0
Enl Change(No Sal Save):	0	0	0	0	0	0
Civ Change(No Sal Save):	0	0	0	0	0	0
Caretakers - Military:	0	0	0	0	0	0
Caretakers - Civilian:	0	0	0	0	0	0

INPUT SCREEN SEVEN - BASE MILITARY CONSTRUCTION INFORMATION

Name: Fort Bliss, TX

Description	Categ	New MilCon	Rehab MilCon	Total Cost(\$K)
REHAB LABS	OTHER	0	50,000	7,437

STANDARD FACTORS SCREEN ONE - PERSONNEL

Percent Officers Married:	82.35%	Civ Early Retire Pay Factor:	9.00%
Percent Enlisted Married:	51.53%	Priority Placement Service:	60.00%
Enlisted Housing MilCon:	91.00%	PPS Actions Involving PCS:	100.00%
Officer Salary(\$/Year):	56,985.00	Civilian PCS Costs (\$):	28,800.00
Off BAQ with Dependents(\$):	4,676.52	Civilian New Hire Cost(\$):	1,109.00
Enlisted Salary(\$/Year):	31,632.33	Nat Median Home Price(\$):	114,600.00
Enl BAQ with Dependents(\$):	3,541.32	Home Sale Reimburse Rate:	10.00%
Avg Unemploy Cost(\$/Week):	174.00	Max Home Sale Reimburs(\$):	22,385.00
Unemployment Eligibility(Weeks):	26	Home Purch Reimburse Rate:	5.00%
Civilian Salary(\$/Year):	43,706.00	Max Home Purch Reimburs(\$):	11,191.00
Civilian Turnover Rate:	15.00%	Civilian Homeowning Rate:	56.00%
Civilian Early Retire Rate:	10.00%	HAP Home Value Reimburse Rate:	22.90%
Civilian Regular Retire Rate:	5.00%	HAP Homeowner Receiving Rate:	5.00%
Civilian RIF Pay Factor:	39.00%	RSE Home Value Reimburse Rate:	19.00%
SF File Desc:	fh13.sff	RSE Homeowner Receiving Rate:	12.00%

STANDARD FACTORS SCREEN TWO - FACILITIES

RPMA Building SF Cost Index:	0.93	Rehab vs. New MilCon Cost:	85.00%
BOS Index (RPMA vs population):	0.54	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):	114.00	Discount Rate for NPV.RPT/ROI:	2.75%
Avg Family Quarters(SF):	1,600.00	Inflation Rate for NPV.RPT/ROI:	0.00%
APPDET.RPT Inflation Rates:			
1996: 0.00%	1997: 2.90%	1998: 3.00%	1999: 3.00%
			2000: 3.00%
			2001: 3.00%

Department : ARMY  
 Option Package : FHL6  
 Scenario File : C:\COBRA508\FHL6.CBR  
 Std Fctrs File : A:\FHL3.SFF

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):	0.09
HHG Per Enl Family (Lb):	9,000.00	Heavy/Spec Vehicle(\$/Mile):	0.09
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):	3.20
Total HHG Cost (\$/100Lb):	35.00	Routine PCS(\$/Pers/Tour):	4,655.00
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	Labs	(SF)	175
Waterfront	(LF)	0	Child care	(SF)	1,200
Air Operations	(SF)	130	Production	(SF)	100
Operational	(SF)	119	PT fac	(SF)	128
Administrative	(SF)	106	2+2 batch qtrs	(EA)	19,140
School Buildings	(SF)	104	Optional Category F	( )	0
Maintenance Shops	(SF)	108	Optional Category G	( )	0
Bachelor Quarters	(SF)	0	Optional Category H	( )	0
Family Quarters	(SF)	0	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
Shipyards 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			

EXPLANATORY NOTES (INPUT SCREEN NINE)

FHL: 1-time unique costs for mothball = 0?. Activity msn savings = ?  
 (contract operational support). Facility shutdown in 1998 = 100KSF or 100\*%  
 KSF?  
 FBTX: 1-time unique costs 1998 = \$10,000K (reprogram TEC equipt -- 250 units  
 @ \$40K each). 1997 = \$7,437K (rehab reqmts to accept TEC: TEC=100KSF @ FHL,  
 ca 1/2=labs-50KSF x \$175/SF x 85%). Activity msn costs 1998-2001 = ?\$ for  
 contract operational support. Misc recurring costs 1998-2001: \$1667K for  
 RPMA/BOS/COMMO increase to support 206 TEC; ARMY Bliss data divided by Bliss  
 population; \$8137.62/body x 206.

DEFENSE REALIGNMENT ADVISORS

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5/21/95  
1430

Ben

Enclosed is the information (report)  
you asked for this morning. I have  
made some corrections on mistakes that  
I found.

Thanks for your assistance.

D

IMA COST BREAKDOWN FOR TEXCOM RELOCATION

REFERENCE: TECHNICAL ASSESSMENT / COST ESTIMATE MEETING 30 ~~JUNE~~ <sup>MAY</sup> 1995  
FT RITCHIE, MD.

AUTOMATION: \$46,350

TELECOMMUNICATIONS: \$1,216,684 (WITH ISDN CAPABILITIES \$1,716,684)

VISUAL INFORMATION: \$27,338

RECORDS MANAGEMENT: \$8,537

LIBRARIES: \$24,841

SPECIAL CONSIDERATIONS (LAN RESOURCES, LAN CLASSROOM, BENCHSTOCK, BRIEFING ROOM, AUDITORIUM, RANGE MEASUREMENT SYSTEM) ~~\$11,400,000~~ Amount is Unknown At Time

EQUIPMENT FREQUENCY MODIFICATION: \$2,000,000

MICRO A AND B REPLACEMENT (EQUIPMENT CAN NOT BE FREQUENCY MODIFIED) \$9,400,000

TOTAL: ~~\$24,623,750~~ Corrected to \$13,223,750

UNKNOWN COSTS: INFORMATION MISSION AREA SYSTEM ENGINEERING RECOMMENDED UPGRADE COSTING DATA

RECEIVED June 9, 1995  
From CDE, Fort Hunter Liggett  
John DeWalt  
(COL (RET) USA)

\*\*This page is the summary of the attached report. The report was provided to us by Col. McInerney at Fort Hunter Liggett.

**DRAFT**

**TECHNICAL ASSESSMENT/COST ESTIMATE**

**BASE REALIGNMENT AND CLOSURE**

**FORT HUNTER LIGGETT, CA**

Prepared by  
Department of the Army  
USA Information Systems Engineering Command  
Continental United States  
(USAISEC-CONUS)  
Fort Ritchie, MD 21719

**DRAFT**

TA/CE-BRAC  
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### 3. INTRODUCTION TO RELOCATING ORGANIZATIONS.

This section of the Technical Assessment/Cost Estimate (TA/CE) identifies the organization located at Fort Hunter Liggett, CA that has been identified by Base Realignment and Closure (BRAC) 95 for relocation to another installation. The organization at Fort Hunter Liggett affected by BRAC 95 is the U.S. Army Test and Experimentation Command Experimentation Center (TEC)

#### 3.1 TEXCOM Experimentation Center's-INFORMATION MISSION AREA REQUIREMENTS.

The Director of Information Management (DOIM) at Fort Hunter Liggett, CA has identified all the present information mission area (IMA) requirements of the TEC for each of the six IMA disciplines. These requirements are defined, by discipline, in the paragraphs that follow.

##### 3.1.1 Automation.

###### 3.1.1.1 Army Standard Information Management System.

Army Standard Information Management System (ASIMS) support is provided to the TEC by connectivity to various Defense Megacenters (DMC) via the U.S. Army Training and Doctrine Command (TRADOC) Decision Support System (DSS) at Fort Hood, TX. For ASIMS connectivity refer to Table 1.

Table 1: ASIMS Connectivity

CCSD	KBPS	PROTOCOL	APPLICATION	CONNECTIVITY TO	REMARKS
6D11172-SE62	9.6	SNA	Note 1	Ft. Hood	Multidrop
PT50D952189		same	circuit as	above	
50LNGJ952189-001	19.2	SNA	Note 1	Ft. Hood	Single line off LAN

Note 1. These two circuits are installed between the TEC, Ft. Hunter Liggett, CA, and TEXCOM, Ft. Hood, TX

###### 3.1.1.2 Standard Army Management Information System.

The TEC accesses the Standard Army Management Information System (STAMIS) applications shown in Table 2. The TEC has no requirement to access the Standard Depot Systems (SDS) or the Commodity Command Standard System (CCSS).

Table 2: Access to STAMISs

APPLICATION	DMC	REMARKS
SAILS	Rock Island, IL	Via TRADOC DSS Ft. Hood
SIDPERS	St. Louis, MO	Via TRADOC DSS Ft. Hood
STARCIPIPS <sup>1</sup>	St. Louis, MO	Via TRADOC DSS Ft. Hood. Transitioning to DCIPIPS in May/June 1995
STANFINS	St. Louis, MO	Via TRADOC DSS Ft. Hood

Note 1. STARCIPIPS will transition to DCIPIPS during May/June 1995.

###### 3.1.1.3 Installation Support Modules.

The TEC has no Installation Support Module (ISM) requirements.



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background. The system operates on a Digital Equipment Corporation (DEC) MicroVAX II/Tektronix, Inc (TEK) 4129 color graphics display installed in 1987 is located in the Integrated Information Control Center (I2C2) main operations area.

3.1.1.5.3.2 VIPS Two.

VIPS Two is a second system for the graphics display of experimentation players on a terrain contour map background. It also displays player information such as ammunition count and location coordinates, as well as engagement events and pairing information. It operates on a DEC MicroVAX II/TEK 4129 color graphics display. This system is also located in the I2C2 main operations area and was installed in 1987.

3.1.1.5.3.3 VIPS Three.

VIPS Three is a third system for the graphics display of experimentation players on a terrain contour map background. It also displays player information such as ammunition count and location coordinates, as well as engagement events and pairing information. It operates on a DEC MicroVAX II/TEK 4129 color graphics display. This system is also located in the I2C2 main operations area and was installed in 1987.

3.1.1.5.3.4 VIPS Four.

VIPS Four is a fourth system that graphically displays experimentation players on a terrain contour map background. It is primarily used for VIPS software development and is also a backup system for VIPS One, Two, and Three. VIPS Four operates on a DEC MicroVAX II/TEK 4129 color graphics display installed in 1989 and located in building 301a.

3.1.1.5.4 DEC VAX-11/780A System.

This system currently has no function. It was installed in 1985 in the computer room of Building 301.

3.1.1.5.5 DEC VAX 8650.

The DEC VAX 8650 runs the tape library system and the archiving process for data stored on the Sony Jukebox optical storage device. It was installed in 1987 and is located in the computer room of Building 301.

3.1.1.5.6 DEC MicroVAX II-B.

The DEC Micro VAX II-B provides a real-time communications interface between players in the field and the Ethernet network. It is the C-Station controller for the Mobile Multipurpose Control Station (MMCS) - B. This equipment was installed in 1987 and is located in a trailer designated as the MMCS-B.

3.1.1.5.7 DEC MicroVAX II-B1.

The DEC MicroVAX II-B1 is a communications interface between test players and the Ethernet network. It is used for pre-test countdown to check player instrumentation and MMCS-B software changes. It has no real-time function. This equipment was installed in 1994 and is located in the MMCS-B trailer.

3.1.1.5.8 DEC MicroVAX II-A.

The DEC MicroVAX II-A provides a real-time communications interface between players in the field and the Ethernet network and acts as the C-station controller for MMCS-A. The system was installed in 1986 and is located in the MMCS-A trailer.

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3.1.1.5.9 DEC MicroVAX II-A1.

The DEC MicroVAX II-A1 provides a communications interface between test players and the Ethernet network. It is used for pre-test countdown to check player instrumentation and for MMCS-A software development. There is no real-time function for this system. The system was installed in 1993 and is located in the MMCS-A trailer.

3.1.1.5.10 CANE Telemetry System-A.

The CANE Telemetry System (CTS)-A is a communications interface between CTS-instrumented players in the field and the real-time Ethernet network. The system operates on a Gateway Corporation 386 PC installed in 1991 and located in the MMCS-A trailer.

3.1.1.5.11 CTS-B

CTS-B is a communications interface between CTS-instrumented players in the field and the real-time Ethernet network. The system operates on a Gateway Corporation 386 PC installed in 1991 and located in the MMCS-B trailer.

3.1.1.5.12 Hewlett-Packard 9000/755 System.

The Hewlett-Packard (HP) 9000/755 system is used for reduction and analysis of experimentation data. This system was installed in 1993 and is located in the Mobile Telecommunications Computer Facility (MTCF) .

3.1.1.5.13 HP 9000/735 System.

There are four HP 9000/735 systems located in the MTCF which are used for reduction and analysis of experimentation data. The four systems were installed in 1993.

3.1.1.5.14 Swamp.

The Swamp system is used for software development and as a backup for the Sun system "Radar". It operates on a Sun SPARCstation 2 installed in 1992 and located in Building 301.

3.1.1.5.15 Radar.

"Radar" is the file server for the Sun development system. It operates on a Sun Microsystems, Inc. SPARCserver 630MP was installed in 1992 and is located in Building 301.

3.1.1.5.16 SPARC.

The SPARC system, a Sun SPARCstation 3, is used for mobile software development and testing. The system was installed in 1992 and is located in the MCF.

3.1.1.5.17 FOGM.

This system was borrowed from PEGASUS. It is used for system software functions not related to the Real Time Casualty Assessment (RTCA). It is specifically used to develop software that extracts PEGASUS data from the real-time link and integrates PEGASUS into the Data Communications Network (DCN). The system operates on a Sun Microsystems, Inc. SPARCserver 240MP. It was installed in 1991 and is located in Building 301A.



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3.1.1.5.18 Klinger.

"Klinger" is a diskless workstation tied to the server "Radar". It is used for software development and to dump files to floppy diskettes from network PCs. The system operates on a Sun Microsystems, Inc. SPARCstation ELC. It is located in Building 301A and was installed in 1992.

3.1.1.5.19 Potter.

"Potter" is a diskless workstation tied to the file server "Radar". It is used for software development and to dump files to floppy diskettes from network PCs. The system operates on a Sun Microsystems, Inc. SPARCstation ELC. It was installed in 1992 and is located Building 301A.

3.1.1.5.20 Hawkeye.

"Hawkeye" is a diskless workstation tied to the file server "Radar". It is used for software development and to dump files to floppy diskettes from network PCs. The system operates on a Sun Microsystems, Inc. SPARCstation ELC. It was installed in 1992 and is located in Building 301A.

3.1.1.5.21 Hotlips.

"Hotlips" is a diskless workstation tied to the file server "Radar". It is used for software development and to dump files to floppy diskettes from network PCs. The system operates on a Sun Microsystems, Inc. SPARCstation ELC. It was installed in 1992 and is located in Building 301A.

3.1.1.5.22 Painless.

"Painless" is a diskless workstation tied to the file server "Radar". It is used for software development and to dump files to floppy diskettes from network PCs. The system operates on a Sun Microsystems, Inc. SPARCstation ELC. It was installed in 1992 and is located in Building 301A.

3.1.1.5.23 Burns.

"Burns" is a diskless workstation tied to the file server "Radar". It is used for software development and to dump files to floppy diskettes from network PCs. The system operates on a Sun Microsystems, Inc. SPARCstation ELC. It was installed in 1992 and is located in Building 301A.

3.1.1.5.24 BJ.

"BJ" is a diskless workstation tied to the file server "Radar". It is used for software development and to dump files to floppy diskettes from network PCs. The system operates on a Sun Microsystems, Inc. SPARCstation ELC. It was installed in 1992 and is located in Building 301A.

3.1.1.5.25 Event Activated Servicing of Equipment.

Event Activated Servicing of Equipment (EASE) is a maintenance management system which tracks maintenance work orders; property locations; stock and inventory in support of maintenance, repair, and fabrication; and operational costs related to maintenance operations. The EASE system is located in Building T-291.

3.1.1.5.26 Instrumentation Support System.

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This system supports instrumentation currently used in experiments conducted at Fort Hunter Liggett. It is located in Building T-291.

3.1.1.5.27 Dynapath Remote Programming System.

The Dynapath Remote Programming System (RPS) provides remote programming capabilities.

3.1.1.5.28 Remote Countdown System.

The Remote Countdown System (RCS) provides a link to the CANE Telemetry System used during experiments. This link enables the field supervisor to monitor player status during the countdown proceedings.

3.1.1.5.29 HP 9000 MDS System.

This system is used for software development.

3.1.1.5.30 PEGASUS system.

The PEGASUS system is classified. No other information concerning its function was provided.

3.1.1.6 System Information and Equipment List.

This paragraph captures the information pertinent to User ADP systems identified above.

3.1.1.6.1 Hawk One System.

Table 4: Hawk One System Equipment List

DESCRIPTION	QTY	WEIGHT (LBS)		FLOOR SPACE (SQ. FT)		TYPE
		EA	TOTAL	EA	TOT	
Central Processor/Harris/Nighthawk 5804	1	600	600	12	12	R
Printer/C Itoh/1300	1	300	300	10	10	R
???						
TOTAL:						

3.1.1.6.2 Hawk Two System.

Table 5: Hawk Two System Equipment List

DESCRIPTION	QTY	WEIGHT (LBS)		FLOOR SPACE (SQ. FT)		TYPE
		EA	TOTAL	EA	TOT	
Central Processor/Harris/Nighthawk 5804	1	600	600	12	12	R
Printer/ /C Itoh/1300	1	300	300	10	10	R
Printer/ /BP1500	1					R
Printer, terminal/Digital /LA-120	1	100	100	5.2	5.2	R
Video Terminal/wyse/wy75	2	50	100	2.5	2.5	R
TOTAL:	6		1100		30.7	

3.1.1.6.3 VIPS System.

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Table 9: VIPS Three Equipment List

DESCRIPTION	QTY	WEIGHT (LBS)		FLOOR SPACE (SQ FT)		TYPE
		EA	TOTAL	EA	TOT	
Central Processor/DEC/MicroVAX II	1	150	150	7.59	7.59	A
Workstation/DEC/VAXstation	1	200	200	11.25	11.25	A
Monitor/Tektronix/4129 color graphics	1	120	120	18.1	18.1	A
Terminal/Wyse/85 with keyboard	1	50	50	9.9	9.9	A
Graphics Tablet Device/DEC/VS5XX-BA	1	10	10	8	8	A
TOTAL:	5		530		54.84	

### 3.1.1.6.3.4 VIPS Four.

Table 10: VIPS Four Equipment List

DESCRIPTION	QTY	WEIGHT (LBS)		FLOOR SPACE (SQ FT)		TYPE
		EA	TOTAL	EA	TOT	
Central Processor/DEC/MicroVAX II	1	150	150	7.59	7.59	A
Workstation DEC VAXstation	1	200	200	11.25	11.25	A
Monitor/Tektronix/4129 color graphics	1	120	120	18.1	18.1	A
Terminal/Wyse/85 with keyboard	1	50	50	9.9	9.9	A
Graphics Tablet Device/DEC/VS5XX-BA	1	10	10	8	8	A
TOTAL:	5		530		54.84	

### 3.1.1.6.3.5 Data Communications Network Equipment

The Data Communications Network supports the VIPS in the Integrated Information Control Center building.

Table 11: Data Communications Network Equipment List

DESCRIPTION	QTY	WEIGHT (LBS)		FLOOR SPACE (SQ FT)		TYPE
		EA	TOTAL	EA	TOT	
Communications Console/Motorola/Stentofon Centracon Series II	9	150	1350	35	315	A
Radio Control Console/VEGA/C-5111	1	30	30	1.9	1.9	A
Radio Control Console/VEGA/C-5110B	2	30	60	3.8	7.6	A
Terminal/DEC/VT-220	2	35	70	3.5	7	A
Terminal/DEC/VT-240	1	50	50	1.7	1.7	A
Keyboard/DEC/LK-201AA	3	6	18	3.7	11.1	A
Terminal with keyboard/Wyse/WY-85	9	50	450	19.7	177.3	A
Line Printer/Data Products/LX	2	150	300	16	32	A
Printer/DEC/DECWriter 3	3	100	300	21.9	65.7	A
Printer with Keyboard/DEC/Letterwriter 100	1	40	40	3.3	3.3	A
FM Wireless Intercom/Realistic/43-224	2	1	2	.6	1.2	A
Broadband modem/EF Data/BCM-101	1	50	50	3	3	A
Transceiver/Int'l Microwave/ICM-2123	1	50	50	3	3	A
Remote control console/ /	1	12	12	.5	.5	A
DC Power Rectifier/ /	1	200	200	4	4	A
Radio/ /MCX 100 portable	3	30	30	1	1	A
Base station power unit	3	30	30	1	1	A
Overhead projector/Elmo/HP-A305LV	1	20	20	2	2	A
Portable comm unit/Motorola/Stentofon	1	5	5	.3	.3	A
PN CPU/Unisys/ model unk	1	50	50	2.3	2.3	A
Monitor/Unisys/VGA-200-COL	1	30	30	1.9	1.9	A

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Keyboard/Unisys/PCK-101-KBD	1	3	3	1.1	1.1	A
Speaker/Anchor/AN-100	2	15	30	1	2	A
Speaker/Radio Shack/AMX-15	1	5	5	.3	.3	A
Speaker/Motorola/Stentofon	1	3	3	.6	.6	A
TOTAL:	54		3,188		546.8	

3.1.1.6.4 VAX - 11/780A System.

Table 12: VAX - 11/780A System Equipment List

DESCRIPTION	QTY	WEIGHT (LBS)		FLOOR SPACE (SQ FT)		TYPE
		EA	TOTAL	EA	TOT	
Central Processor/DEC/VAX - 11/780	1	1005	1005	15	15	
Tape Drives/TU78	2	630	1,260	5.48	10.96	
Disk Drive w/cabinet/RA60	3	288	864	5.4	5.4	
Disk Drive w/cabinet/RA81	1	518	518	5.4	5.4	
Printer/ /LP-27	1	567	567	9.6	9.6	
Printer/ /CI300	1	100	100	4	4	
Printer/ Terminal/ /LA-120	1	100	100	5	5	
TOTAL:	10		4414		55.36	

3.1.1.6.5 VAX 8650 System.

Table 13: VAX 8650 System Equipment List

DESCRIPTION	QTY	WEIGHT (LBS)		FLOOR SPACE (SQ FT)		TYPE
		EA	TOTAL	EA	TOT	
Processor/DEC/VAX 8650	1	1700	1700	15.25	15.25	R
Tape Drive/ /TU78	2	630	1260	5.48/	10.96	R
Disk Drive w/ cabinet/ /RA60	5	288	1440	5.4	27	R
Disk Drives w/ cabinet/ /RA81/RA60	3/1	307/2 88	1290	5.4	21.6	R
Disk Drives w/ cabinet/ /RA81/RA60	2/1	271/2 88	830	5.4	16.2	R
Controller/ /HSC50	1	450	450	5.4	5.4	R
Star Coupler	1	250	250	5.4	5.4	R
4-Disk array	1	150	150	3	3	R
Printer/ /LP27	2	567	1134	19.2	38.4	R
Printer/ /LP25	1	195	195	7	7	R
Writable Disk/ Sony/	1	1200	1200	10	10	R
8mm Cartridge Tap Drive/	1	40	40	4	4	R
Plotter/CALCOMP/	1	50	50	12	12	R
Printstation/TALARIS/	1	70	70	4	4	R
Printer/ Terminals/ /LA120	2	100	200	10	10	R
TOTAL:	26		10178		190.21	

3.1.1.6.6 MicroVAX II-B System.

Table 14: MicroVAX II-B System Equipment List

DESCRIPTION	QTY	WEIGHT (LBS)		FLOOR SPACE (SQ FT)		TYPE
		EA	TOTAL	EA	TOT	
Processor/DEC/MicroVax II	1	200	200	7.59	7.59	A

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???						
TOTAL:						

3.1.1.6.7 MicroVAX IIB1 System

Table 15: MicroVAX II-B1 System Equipment List

DESCRIPTION	QTY	WEIGHT (LBS)		FLOOR SPACE (SQ FT)		TYPE
		EA	TOTAL	EA	TOT	
Processor/DEC/MicroVAX II	1	200	200	7.59	7.59	A
Display						
???						
TOTAL:						

3.1.1.6.8 MicroVAX II-A System.

Table 16: MicroVAX II-A System Equipment List

DESCRIPTION	QTY	WEIGHT (LBS)		FLOOR SPACE (SQ FT)		TYPE
		EA	TOTAL	EA	TOT	
Processor/DEC/MicroVAX II	1	200	200	7.59	7.59	A
???						
TOTAL:						

3.1.1.6.9 MicroVAX II-A1 System.

Table 17: MicroVAX II-A1 System Equipment List

DESCRIPTION	QTY	WEIGHT (LBS)		FLOOR SPACE (SQ FT)		TYPE
		EA	TOTAL	EA	TOT	
Processor/DEC/MicroVAX II	1	200	200	7.59	7.59	A
???						
TOTAL:						

3.1.1.6.10 CTS-A.

Table 18: CTS-A Equipment List

DESCRIPTION	QTY	WEIGHT (LBS)		FLOOR SPACE (SQ FT)		TYPE
		EA	TOTAL	EA	TOT	
Processor/Gateway/386 PC	1	50	50	4	4	A
???						
TOTAL:						

3.1.1.6.11 CTS-B.

Table 19: CTS-B Equipment List

DESCRIPTION	QTY	WEIGHT (LBS)		FLOOR SPACE (SQ FT)		TYPE
		EA	TOTAL	EA	TOT	
TOTAL:						

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Processor/Gateway/386 PC	1	50	50	4	4	A
???						
TOTAL:						

## 3.1.1.6.12 HP9000/755 System.

Table 20: HP 9000/755 System Equipment List

DESCRIPTION	QTY	WEIGHT (LBS)		FLOOR SPACE (SQ FT)		TYPE
		EA	TOTAL	EA	TOT	
Processor/HP/9000/755	1	???	???	???	???	A
???						
TOTAL:						

## 3.1.1.6.13 HP 9000/735 System.

Table 21: HP 9000/735 System Equipment List

DESCRIPTION	QTY	WEIGHT (LBS)		FLOOR SPACE (SQ FT)		TYPE
		EA	TOTAL	EA	TOT	
Processor/HP/9000/735	4	???	???	???	???	A
Trackball/Evergreen/Diamond I	4	1	1	.8	.8	A
???						
TOTAL:						

3.1.1.6.13.1 The HP computers in paragraph 1.1.1.6.12 and 1.1.1.6.13 are housed in the Mobile Telecommunications Computer Facility (MTCF).

3.1.1.6.13.2 In addition to the five HP computers in the MTCF, the equipment shown in Table 22 is also located there.

Table 22: MTCF Equipment List

DESCRIPTION	QTY	WEIGHT (LBS)		FLOOR SPACE (SQ FT)		TYPE
		EA	TOTAL	EA	TOT	
Printer/HP/Laserjet Series II	1	90	90	5.6	5.6	A
Disk Drive/Kennedy/9610	1	170	170	6.1	6.1	A
Disk/ Cartridge Drive/HP/Series 700	1	60	60	1.2	1.2	A
4mm cartridge drive/ Datastar/	1	25	25	.5	.5	A
10BaseT Concentrator/ LattisNet/	1	30	30	1.9	1.9	A
Power supply/ /	3	16.6	50	2.3	6.9	A
8mm cartridge unit/ /	1	5	5	.5	.5	A
multiplexor 8-channel/ Optical Data Systems/	1	18	18	1.25	1.25	A
Graphics plotter/HP/7550A	1	40	40	3.6	3.6	A
Line printer/Mannesman/MT69	1	150	150	6.25	6.25	A
1/4"tape drive/ /	4	50	200	4	16	A
Line Printer/Itoh Electronics/C11300 + Q	1	200	200	6.25	6.25	A
Floppy Disk Drive/HP/Apollo Series 700	4	80	240	13.9	55.6	A
Terminal/DEC/VT220	2	35	70	2.75	5.5	A

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TOTAL:	23		1348		106.8	
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3.1.1.6.14 Swamp System Equipment.

Table 23: Swamp System Equipment List

DESCRIPTION	QTY	WEIGHT (LBS)		FLOOR SPACE(SQ FT)		
		EA	TOTAL	EA	TOT	TYPE
Workstation/Sun Microsystems /SPARC-station 2	1	150	150	5	5	A
???						
TOTAL:						

3.1.1.6.15 Radar System Equipment.

Table 24: Radar System Equipment List

DESCRIPTION	QTY	WEIGHT (LBS)		FLOOR SPACE (SQ FT)		
		EA	TOTAL	EA	TOT	TYPE
Server/Sun Microsystems /SPARC-server 630MP	1	150	150	5	5	A
PRINTER/ /LASER	1	60	60	3	3	A
???						
TOTAL:						

3.1.1.6.16 SPARC System Equipment.

Table 25: SPARC System Equipment List

DESCRIPTION	QTY	WEIGHT (LBS)		FLOOR SPACE (SQ FT)		
		EA	TOTAL	EA	TOT	TYPE
Workstation/Sun Microsystems /SPARC-station 3	1	???	???	???	???	???
???						
TOTAL						

3.1.1.6.17 FOGM System Equipment.

Table 26: FOGM System Equipment List

DESCRIPTION	QTY	WEIGHT (LBS)		FLOOR SPACE (SQ FT)		
		EA	TOTAL	EA	TOT	TYPE
Server/Sun Microsystems/ SPARC-server 240MP	1	300	300	6	6	A
???						
TOTAL						

3.1.1.6.18 Klinger System Equipment.

Table 27: Klinger System Equipment List

DESCRIPTION	QTY	WEIGHT (LBS)		FLOOR SPACE (SQ FT)		
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DESCRIPTION	QTY	WEIGHT (LBS)		FLOOR SPACE (SQ FT)		TYPE
		EA	TOTAL	EA	TOT	
Server/Sun Microsystems/ SPARC-server 240MP	1	75	75	21	21	A
???						
TOTAL						

3.1.1.6.19 Potter System Equipment.

Table 28: Potter System Equipment List

DESCRIPTION	QTY	WEIGHT (LBS)		FLOOR SPACE (SQ FT)		TYPE
		EA	TOTAL	EA	TOT	
Workstation/Sun Microsystems /SPARC- station ELC	1	75	75	21	21	A
???						
TOTAL						

3.1.1.6.20 Hawkeye System Equipment.

Table 29: Hawkeye System Equipment List

DESCRIPTION	QTY	WEIGHT (LBS)		FLOOR SPACE (SQ FT)		TYPE
		EA	TOTAL	EA	TOT	
Workstation/Sun Microsystems /SPARC- station ELC	1	75	75	21	21	A
???						
TOTAL						

3.1.1.6.21 Hotlips System Equipment.

Table 30: Hotlips System Equipment List

DESCRIPTION	QTY	WEIGHT (LBS)		FLOOR SPACE (SQ FT)		TYPE
		EA	TOTAL	EA	TOT	
Workstation/Sun Microsystems /SPARC- station ELC	1	75	75	21	21	A
???						
TOTAL						

3.1.1.6.22 Painless System Equipment.

Table 31: Painless System Equipment List

DESCRIPTION	QTY	WEIGHT (LBS)		FLOOR SPACE (SQ FT)		TYPE
		EA	TOTAL	EA	TOT	
Workstation/Sun Microsystems /SPARC- station ELC	1	75	75	21	21	A
???						

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TOTAL						
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3.1.1.6.23 Burns System Equipment.

Table 32: Burns System Equipment List

DESCRIPTION	QTY	WEIGHT (LBS)		FLOOR SPACE (SQ FT)		TYPE
		EA	TOTAL	EA	TOT	
Workstation/Sun Microsystems /SPARC-station ELC	1	75	75	21	21	A
???						
TOTAL						

3.1.1.6.24 BJ System Equipment.

Table 33: BJ System Equipment List

DESCRIPTION	QTY	WEIGHT (LBS)		FLOOR SPACE (SQ FT)		TYPE
		EA	TOTAL	EA	TOT	
Workstation/Sun Microsystems /SPARC-station ELC	1	75	75	21	21	A
???						
TOTAL						

3.1.1.6.25 EASE System Equipment.

Table 34: EASE System Equipment List

DESCRIPTION	QTY	WEIGHT (LBS)		FLOOR SPACE (SQ FT)		TYPE
		EA	TOTAL	EA	TOT	
System administration station/Linden/486DX2	1	100	100	12.5	12.5	F
Lock manager station/Sytech/ 486DX2	1	40	40	6.25	6.25	F
Bar code reader/Scanstar/ TI-66510-141	7	5	35	.5	3.5	F
Bar code reader/Scanstar A1-66355-2	2	20	40	2.85	5.7	F
Bar code reader/MicroWand/ III	10	3	30	.25	2.5	F
Bar code reader/Symbol/1510	4	5	20	.5	2	F
Bar code reader/Worthington/ T61	2	5	10	.5	1	F
486 laptop/Toshiba/ PA115QUX	5	10	50	2	10	F
Total:	31		325	25.35	30.95	

3.1.1.6.26 Instrumentation Support System Equipment.

Table 35: Instrumentation Support System Equipment List

DESCRIPTION	QTY	WEIGHT (LBS)		FLOOR SPACE (SQ FT)		TYPE
		EA	TOTAL	EA	TOT	
EPROM programmer/OAE/28000	1	25	25	4	4	F
EPROM programmer/Data I/O/ 288A	1	25	25	4	4	F
Logic programmer/Data I/O/ 60A	1	25	25	4	4	F
Laptop PC/Zenith/286	6	15	90	1.6	9.6	F
IC Tester/Chiplog/	1	15	15	4	4	F

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Serial bus analyzer/SBA/	2	45	90	4	8	F
ABD programmer/SAIC/	1	40	40	4	4	F
Rack mounted 386	3	40	120	4	12	F
C-Station support/DEC/MicroVAX	3	40	120	4	12	F
C-station 386 PC/Gateway/ 2000	2	40	80	2	4	F
Mass data storage drive/XByte/	1	20	20	1	1	F
Video data storage/TEAC/ V80-875	1	35	35	2	2	F
Video data storage/TEAC/ V80-525	1	35	35	2	2	F
Total:	24		400		62.6	

3.1.1.6.27 Dynapath RPS System Equipment.

Table 36: Dynapath RPS System Equipment List

DESCRIPTION	QTY	WEIGHT (LBS)		FLOOR SPACE (SQ FT)		
		EA	TOTAL	EA	TOT	TYPE
386 PC/SMC/ASL 325	1	40	40	5.8	5.8	F
Total:	1		40		5.8	

3.1.1.6.28 Remote Countdown System Equipment.

Table 37: Remote Countdown System Equipment List

DESCRIPTION	QTY	WEIGHT (LBS)		FLOOR SPACE (SQ FT)		
		EA	TOTAL	EA	TOT	TYPE
486-DX2-66/A Open/BG-85-V115G	2	100	200	6.25	12.5	F
CTS Receiver/SSL/27283	2	10	20	1	2	F
Total:	4		220		14.5	

3.1.1.6.29 HP 9000 MDS System Equipment.

Table 38: HP 9000 MDS System Equipment List

DESCRIPTION	QTY	WEIGHT (LBS)		FLOOR SPACE (SQ FT)		
		EA	TOTAL	EA	TOT	TYPE
Processor/HP/9000/300 including:						
Hard drive/HP/7837 Rev G	1	100	100		Note 1	A
Tape drive/HP/35401 Rev 1	1	50	50		Note 1	A
SPU/HP/340	1	25	25		Note 1	A
Monitor/HP/98786 Rev A	1	20	20	2	2	A
Keyboard/HP/46021 Rev A	2	5	10	1.5	3	A
Printer/HP/2934 Rev A	1	30	30	6	6	A
Card cage/HP/64020 Rev A	3	40	120	4	12	A
Monitor/HP/700/92	4	20	80	1	1	A
SPU/HP/370	1	25	25		Note 1	A
I/O expander/HP/300	1	30	30		Note 1	A
System unit/HP/92211R	3	40	120	3	9	A
Monitor/HP/98788A	1	30	30	2	2	A
Hard drive/HP/7911	1	80	80	3	3	A
Card cage/HP/64100	1	40	40	4	4	A
Terminal/Wyse/WY75	6	20	120	1	6	A
Keyboard/Wyse/WY75	6	5	30	1	6	A
Equipment Racks	3			3	9	
TOTAL:	35		910		63	

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Note 1. Equipment contained in three racks. Floor space is shown at bottom of table.

3.1.1.6.30 PEGASUS System Equipment.

Table 39: PEGASUS System Equipment List

DESCRIPTION	QTY	WEIGHT (LBS)		FLOOR SPACE (SQ FT)		TYPE
		EA	TOTAL	EA	TOT	
Power conditioner/Topaz/ 120VAC	1	15	15	1	1	
Video cassette recorder/ Panasonic	1	12	12	1	1	
Power supply/various	3	15	45	1	3	
Power supply/various	2	35	75	3	6	
Power supply/various	2	25	50	2	4	
power supply/various	6	5	30	.5	3	
power supply UPS/Best/ FE18KVA	1	1300	1300	80	80	
Watt Meter/Bird/43	1	4	4	1	1	
Tool Kit/Jensen/	1	30	30	2	2	
Counter timer universal/ Tektronix/DC509	1	2	2	1	1	
Inverter/various	2	10	20	2	4	
Oscillator/Tektronix/SG502	1	3	3	1	1	
Multimeter/various	3	2	6	1.5	4.5	
Mobile console/RCA/92304029	1	12	12	1.5	1.5	
Radio set, vehicular mounted RCA/MCA39DA11C	2	16	32	2.25	4.5	
Clock, satellite control/ Kinematic/468-DC	1	8	8	2	2	
Oscilloscope/Tektronix/ SC504	1	20	20	3	3	
Computer w/kybd/various	16	12	192	2	32	
Computer w/keyboard and cabinet/DEC/MicroVAX II	1	200	200	7.59	7.59	
Computer w/keyboard/Various	3	35	105	2.5	7.5	
Power module, mainframe/ Tektronix/TM506	1	2	2	1.5	1.5	
Computer, laptop/Zenith/ 2WL-0200-02	1	8	8	1.5	1.5	
Tripod/Various	2	8	16	2	2	
Monitor/Various	5	10	50	1	5	
Monitor/Various	2	4	8	1	2	
Monitor/Various	7	35	245	3	21	
Monitor/various	7	20	140	2	14	
Expansion chassis/Wyse/WY-1100-32	1	6	6	1	1	
Expansion Chassis/Sun/1267	1	3	3	1	1	
Function generator/HP/3311A	1	3	3	.5	.5	
Power Pack/Saft/NPP1245C	1	4	4	.25	.25	
Adapter/various	5	5	25	.5	2.5	
Adapter/Motorola/M1325A	1	12	12	2	2	
Video camera/Various	3	5	15	1	3	
Clock probe w/ PC Board/HP/ 64605A	1	2	2	.5	.5	
Speake/Motorola/NSN-6043A	1	1	1	.25	.25	
Speaker, amplified/Allied Electronics/AES-4	1	2	2	.5	.5	
Amplifier/Motorola/N1274	1	8	8	1	1	
Amplifier, low noise/M/A COM /842033-2	2	1	2	.25	.5	
Amplifier, video/VideoTech/ VDA-16	1	4	4	1	1	
Video processing system/Nova /C-28	1	12	12	2	2	
Soldering station/Weller/	1	3	3	.5	.5	
Battery charger/Various	3	12	12	2	6	

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Satellite antenna/Kinematic /A468MS	1	6	6	1	1
S-band antenna/Micro radio/ CA3000-HXDSB	1	1	1	.25	.25
Filter/M/A COM/59383-1	4	1	4	.25	1
Transmitter/Variouis	5	10	50	1	5
Omnidirectional antenna/ Various	32	1	32	.5	16
Antenna, UHF/VHF doppler/ Doppler/DDFJ003	1	20	20	3	3
S-band antenna/Micro radio/ CA3000-HXDSB	1	1	1	.25	.25
Antenna Pod unit/Micro radio /CA3000-HXDSB	1	70	70	8	8
Display control unit/Micro Radio/CDU-1000	1	6	6	.5	.5
Directional Gyro/Micro Radio /DG-1000	1	5	5	.5	.5
Horizontal situation/Micro Radio/HSZ-1000	1	4	4	.5	.5
Static Inverter/Micro Radio /SIU-1000	1	12	12	1	1
Control unit/M/A COM/ D8403943	2	4	8	1	2
Control Unit, PCM radio/ Hobby Shack/PCM 1024	1	12	12	1	1
Receiver/Variouis	6	12	72	1.5	9
Receiver, GPS/Variouis	21	12	24	2	42
Radio, microwave/Micro Radio/MAC-200	1	12	12	2	2
Receiver, tracking/MCRWV Radio/900206-3	1	225	225	20	20
Printer/Variouis	2	8	16	1.5	3
Printer/Variouis	4	40	160	2.5	9
Printer/ALPS/P2000	1	18	18	4	4
RF Box/M/A COM/18414781	1	12	12	1.5	1.5
MODEM/Variouis	5	6	30	2	10
Transmissive light box/ Various	2	15	30	3	6
Camera stand desk top/ Eikonix C04A	1	60	60	15	15
Power Camera/Eikonix/ ps1000-A	1	30	30	2	2
Camera system/Eikonix/ BC1412	1	25	25	3	3
Overhead projector/Variouis	2	20	40	1	2
Video switcher/Panasonic/ WJ205RB	4	5	20	2	8
Audio program monitor/ Video Tech/APM-2RS	13	1	13	.25	3.25
Data server/SUN 180	1	200	200	12	12
Disk Drive external/Sun/	4	15	60	3	12
Disk Drive external/Variouis	5	30	150	3	15
Disk drive external/DEC/ TSO58A	1	8	8	1	1
Switch, A-B/ /	1	1	1	.25	.25
Mou se/Variouis	12	1	12	.25	3
Gunner box, black and white/ Colsa/FOG-M	1	30	30	2	2
Digitizr tablet/Hitachi/ HDG-1111C	1	3	3	1	1
Workstation DCCS/ /OU-DIG	1	115	115	4	4
Optical Photo Imager/ /E-1010-3	1	60	60	12	12
Voltage regulator/Triplite/ LC-1800-A	2	7	14	1	2
Optical drive and interface/ GMS/100M	1	30	30	4	8
Duplexer Cavity/Teleware/ various	2	25	50	4	8
Converter/Communications/ ENC-11004	1	15	15	1	1
Converter interface/Data/ IC456A	1	6	6	1.5	1.5
Video editor/Video Mix/ VCU-1	1	6	6	2	2

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Mixer w/microphone/Sears/	1	2	2	1.5	1.5
Wireless Microphone/Sears/	1	1	1	.5	.5
Analyzer receiver/ICOM/ R-9000	1	18	18	3	3
Computer interface/ICOM/ CT-17	1	2	2	1	1
8mm Tape drive, external/ Exebyte/EXB-8200ST	3	4	12	1	3
Tower, VMS Bus/Various	2	10	20	2	4
8 ft pole prism/SECO/5100	2	5	10	1	2
Golden Eagle Geodetic/ Motorola/Mini Ranger	2	15	30	2	4
Horizontal scanner/Horg +	1	185	185	1	1
TOTAL:	268		5165		522/09

### 3.1.1.7 Connectivity.

The connectivity defined here includes the on-post and off-post dedicated circuits, and Dial-In/Dial-Out circuits that support connectivity between the User ADP systems identified above to other ADP systems. This connectivity is provided via the departmental LAN and is depicted in Table 40 and Table 41. Two additional T1 lines will be installed, one in 1995 and one in 1996, to provide required connectivity to the Operational Test and Evaluation Command (OPTEC), Alexandria, VA. Technical Service Order (TSO) number A55052/7RZA-01, dated 202235Z April 95, has been issued to start service on 3 July 1995 for a T1 line (1.544Mbps) between Fort Hunter Liggett and Alexandria, VA. The purpose of the circuit is to support desktop video conferencing.

Table 40: TEC Dedicated Circuits

CIRCUIT NUMBER	KBPS	PROTOCOL	APPLICATION	CONNECTIVITY TO	REMARKS
50LNGJ952189-001	19.2	SNA	STARCIPS, STANFINS	TRADOC DSS FT. HOOD TX.	
PT50D952189		as above	same circuit		
6D11174-SE62	9.6	SNA	STARCIPS, STANFINS	TRADOC DSS ALTERNATE	
UMUD7RZA	1.544 Mbps		Desktop video telecon	OPTEC Alexandria, VA	

Table 41: TEC Dial-In/Out Modems

DESCRIPTION	QTY	KBPS	TYPE
Intel/PCEM72144	6	14.4	DIAL IN
MITAC F-1114VRZ/US Robotics Sportster	2	14.4	DIAL IN
Toshiba PA11524UX	5	14.4	DIAL OUT
MITAC F-1114VRZ	1	14.4	DIAL IN/OUT

### 3.1.1.8 Defense Data Network.

Access to the DDN is provided via the TRADOC DSS host at Ft. Hood, TX. This access can be through a terminal access controller (TAC) at 1.2 to 14.4 Kbps or the System Application Architecture (SAA) gateway at 19.2 Kbps from the departmental LAN.

### 3.1.1.9 Front End Processor/Cluster Controller.

The Front End Processor (FEP) or the Cluster Controller (CC) is an IBM 3174 Model 11R. Port assignments are shown in Table 42.

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Table 42: FEP Port Assignment Data

PORT S	KBPS	MEDIUM	CONNECTIVITY	LAN	REMOTE	NUMBER OF USER DEVICES			
					CC QTY	PCs	TERMINALS	PRINTERS	OTHER
1	9.6	TP	DED	N	QTY	1			
2	9.6	TP	DED	N		1			
3	9.6	TP	DED	N		1			
4	9.6	TP	DED	N		1			
5	9.6	TP	DED	N				1	
6	9.6	TP	DED	N				1	

3.1.1.10 Software.

The software, to include operating system, database management system, EMail, and network applications, is addressed for each User ADPE system identified in previous sections.

3.1.1.10.1 Hawk One System.

The Hawk One system uses a Harris CX/UX version 7.1.1 operating system. Applications include: CX/UX Sendmail (Version not known) for E-Mail; TCP/IP version 7.1 for networking; CX/UX Hf77 (Version not known); X-Windows Client with MOTIF, version 11, release 5.1.1; OSF/MOTIF, release 1.2; KORNShell, version 7.1; ELAN License Manager, version 6.2; GDB (debugger), version 7.1; Harris Editor (HED), version 6.2; CX/UX HAPSE, version 7.1; WordPerfect, version 6.0; and Night-Trace (kernel trace), version 1.2. Ada, version not known, is used as the programming language.

3.1.1.10.2 Hawk Two System.

The Hawk Two system uses a Harris CX/UX version 7.1.1 operating system. Applications include: CX/UX Sendmail (Version not known) for E-Mail; TCP/IP version 7.1 for networking; V/Ethernet 4207/Eagle/version 7.1, release D; CX/UX Hf77, version not known; X-Windows Client with MOTIF, version 11, release 5.1.1; OSF/MOTIF, release 1.2; KORNShell, version 7.1; ELAN License Manager, version 6.2; GDB (debugger), version 7.1; Harris Editor (HED), version 6.2; CX/UX HAPSE, version 7.1; WordPerfect, version 6.0; and Night-Trace (kernel trace), version 1.2. Ada, version not known, is used as the programming language.

3.1.1.10.3 Visual Information Processing System.

The VIPs, subsystems one through four, all use VAX/VMS, version 4.6, as the operating system, and DECNET-VAX (version not known) for network applications.

3.1.1.10.4 VAX-11/780A System.

The VAX-11/780A System uses VAX/VMS, version 4.6, as the operating system. Applications include TCP/IP, version 3.1, for networking. DEC FORTRAN, version 4.7 is the programming language used.

3.1.1.10.5 VAX 8650 System.

The VAX 8650 system uses the Open VMS, version 6.1, operating system. TCP/IP, version 2.0E is the networking application. Other applications include HSC50 Software TU58, version not known, and Jukebox Virtual Platter Manager/VOST, version 3.0.9A.

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Programming languages include: VAX C, version 4.0; DEC FORTRAN, version 6.2; Basic, version 2.4; and PASCAL, version 3.4

### 3.1.1.10.6 MicroVAX II-A System.

The MicroVAX II-A uses the VAX/VMS, version 4.4 operating system. The networking application for this system is TCP/IP, version 2.0E, native mode. DEC FORTRAN, version 4.7, is the programming language.

### 3.1.1.10.7 MicroVAX II-A1 System.

The MicroVAX II-A1 system uses the VAX/VMS, version 4.4 operating system. The networking application for this system is TCP/IP, version 2.0E, native mode. DEC FORTRAN, version 4.7, is the programming language.

### 3.1.1.10.8 MicroVAX II-A2 System.

The MicroVAX II-A2 system uses the VAX/VMS, version 4.4 operating system. The networking application for this system is TCP/IP, version 2.0E, native mode. DEC FORTRAN, version 4.7, is the programming language.

### 3.1.1.10.9 MicroVAX II-B1 System.

The MicroVAX II-B1 system uses the VAX/VMS, version 4.4 operating system. The networking application for this system is TCP/IP, version 2.0E, native mode. DEC FORTRAN, version 4.7, is the programming language.

### 3.1.1.10.10 CTS-A.

The CTS-A uses the MicroSoft Disk Operating System (MS-DOS), version not known, the Ethernet networking application, and the Microsoft C programming language, version not known.

### 3.1.1.10.11 CTS-B.

The CTS-A uses the MS-DOS, version not known, the Ethernet networking application, and the Microsoft C programming language, version not known.

### 3.1.1.10.12 HP 9000/755 System.

The HP 9000/755 system uses the HP/UX operating system, Oracle 7 Relational Database Management System (RDBMS), and Transport Network Substrate (TNS) for HP/UX, version 2.0.13.1.0, for network applications. It also uses SQL\*NFT, version not known, as a network application. Other applications include: SoftPC, version not known, which is a DOS emulator bundled with the operations system; WordPerfect, version 6.0; PL/SQL, version 01.00.38.00.02; SQL\*MENU, version 05.00.11.13.04; SQL\*PLUS, version 3.1.2.2.1; SQL\*DBA, version not known; CORE, version 2.2.8.0.1; SQL\*RPT, version not known; Oracle Call Interface, version not known; SAS/BASE, version 6.09; SAS/GRAPH, version 6.09; SAS/FSP, version 6.09; SAS/AF, version 6.09; sas/sts, VERSION 6.09; sas/insight, VERSION 6.09; and SAS Access to Oracle, version 6.09. The programming languages include ANSI C and FORTRAN, both bundled with the operating system and versions not known.

### 3.1.1.10.13 HP 9000/735 System.

The HP 9000/755 system uses the HP/UX operating system, Oracle 7 RDBMS, and TNS for HP/UX, version 2.0.13.1.0, for network applications. It also uses SQL\*NFT, version not known, as a network application. Other applications include: SoftPC, version not

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known, which is a DOS emulator bundled with the operating system; WordPerfect, version 6.0; PL/SQL, version 01.00.38.00.02; SQL\*MENU, version 05.00.11.13.04; SQL\*PLUS, version 3.1.2.2.1; SQL\*DBA, version not known; CORE, version 2.2.8.0.1; SQL\*RPT, version not known; Oracle Call Interface, version not known; SAS/BASE, version 6.09; SAS/GRAPH, version 6.09; SAS/FSP, version 6.09; SAS/AF, version 6.09; sas/sts, VERSION 6.09; sas/insight, VERSION 6.09; and SAS Access to Oracle, version 6.09. The programming languages include ANSI C and FORTRAN, both bundled with the operating system and versions not known.

3.1.1.10.14 "Swamp" System.

"Swamp" uses the SUN operating system, version 4.1.2. For applications, it uses Software Through Pictures Pilot Program, a CASE tool for Ada, and Framemaker Document Publishing. Neither version is known. It also uses the following programming languages; SUN Ada, version not known; SPARCworks/Ada, version not known; and SUN C, version 1.1.

3.1.1.10.15 "Radar" System.

"Radar" uses the SUN operating system, version 4.1.2. For applications, it uses Software Through Pictures Pilot Program, a CASE tool for Ada, and Framemaker Document Publishing. Neither version is known. It also uses the following programming languages; SUN Ada, version not known; SPARCworks/Ada, version not known; and SUN C, version 1.1.

3.1.1.10.16 "SPARC" System.

"SPARC" uses the SUN operating system, version 4.1.3. It uses the following programming languages: SUN Ada, version not known; SPARCworks/Ada, version not known; and SUN C, version 1.1.

3.1.1.10.17 "FOGM" System.

"FOGM" uses the SUN operating system, version 4.1.3. It uses SUN C, version 1.1 as its programming language.

3.1.1.10.18 SUN SPARCstation ELC Systems.

Seven systems ("Klinger", "Potter", "Hawkeye", "Hotlips", "Painless", "Burns", and "BJ") operate on the SPARCstation ELC. All use the SUN operating system, version not known. For applications, it uses Software Through Pictures Pilot Program, a CASE tool for Ada, and Framemaker Document Publishing. Neither version is known. It also uses the following programming languages; SUN Ada, version not known; SPARCworks/Ada, version not known; and SUN C, version 1.1.

3.1.1.10.19 EASE System.

The EASE system uses the EASE operating system, version 2.3. Its application software is the Computerized Maintenance Management System, version not known.

3.1.1.10.20 Instrumentation Support System.

Software associated with this system was not reported by the relocating organization.

3.1.1.10.21 Dynapath RPS.

Software associated with this system was not reported by the relocating organization.

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### 3.1.1.10.22 Remote Countdown System.

Software associated with this system was not reported by the relocating organization.

### 3.1.1.10.23 HP 9000/300 MDS.

The HP 9000/300 MDS uses the HP 9000 operating system, Beyond Mail for E-Mail, and Novell Netware for networking. No other information was reported by the relocating organization.

### 3.1.1.10.24 PEGASUS System.

Because this is a classified system, no information on its associated software was made available by the organization.

### 3.1.1.11 System Facility Equipment.

The system facility equipment associated with each User ADPE system is delineated in the following paragraphs. The ADP facility power is provided with three phase, 208 VAC, and single phase 110 VAC, 75 KVA. The facility also has a Best 7.5 KVA, and Exide Model 12HV Uninterruptable Power System (UPS). Heating Ventilation and Air Conditioning (HVAC) for ADP facility is provided by a central HVAC system in each building. In some cases, this is supplemented by wall mounted air conditioners. Fire suppression is provided by standard, hand-held extinguishers. The computer room has a built-in Halon fire extinguishing system. The facility equipment is listed in Table 43.

Comment: This information is to be provided by the unit as agreed to during the survey

Table 43: System Facility Equipment

DESCRIPTION	QTY	WEIGHT (LBS)		FLOOR SPACE (SQ FT)		
		EA	TOTAL	EA	TOT	TYPE
Building S241, Best 7.5 KVA, 2-hr battery	1	???	???	???	???	???
Building S207, Best 2.5 KVA,	1	???	???	???	???	???
Building T1 '69, .85KVA	1	???	???	???	???	???
		???	???	???	???	???
TOTAL:		???	???	???	???	???

### 3.1.1.12 Floor Space - General Requirements.

The TEC has no requirements for magnetic media storage. Current magnetic media files are being converted from standard 9-inch tape reels to smaller tape cartridges.

### 3.1.1.13 Continuity of Operations Plan.

The TEC has no Continuity Of Operation Plan (COOP) requirements nor parallel processing requirements, except for the EASE system. Operations can be sustained for a two day period. After this time, Maintenance Division planning would be crippled.

### 3.1.1.14 Micro Systems and User Devices.

Table 44 provides a list of all of the user devices, Personal Computers (PCs), printers, terminals, file servers, etc., that have not been listed with the User ADPE systems previously identified.

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Table 44: Micro Systems and User Devices

DESCRIPTION/MANUFACTURER/MODEL NO./REVISION	QTY	WEIGHT (LBS)	
		EA	TOTAL
<b>INFORMATION SYSTEMS MANAGEMENT BRANCH</b>			
PC/VariouS/486	74	50	3,700
PC/VariouS/386	230	50	11,500
PC/VariouS/286	61	50	3,050
File Server/VariouS/PENTIUM	1	50	50
File Server/VariouS/486	3	50	150
File Server/VariouS/386	1	50	50
Printer/HP/Laser/	45	60	2,700
Printer/VariouS/Laser	5	60	300
Printer/VariouS/dot matrix	60	40	2,400
Remote access/VariouS/486	6	30	180
Gateway, auxiliary services/EVEREX/486/33MHZ	1	50	50
Auxiliary services/VariouS/386	2	30	60
Auxiliary services/VariouS/286	2	25	50
SUB-TOTAL:	491		24,240
<b>MAINTENANCE DEPT/PLANS AND PROGRAM CONTROL</b>			
PC/Linden/486DX2	1	100	200
PC/SYTECH/486DX2 66MHZ	1	50	50
Printer/HP/LaserJet II	1	50	50
Printer/HP/LaserJet III	1	50	50
Laptop PC/Toshiba/T1950	5	10	50
PC/A OPEN/BG85-V115G/486DX2 66 MHZ	2	100	200
SUB-TOTAL:	11		600
<b>MAINTENANCE DEPT/MECHANICAL SHOP</b>			
PC/SMC/ASL 325/386	1	40	40
SUB-TOTAL:	1		40
<b>FIRMWARE LAB</b>			
PC/VariouS/486 66 mHZ	5	50	250
PC/VariouS/386 33 MHZ	4	50	200
PC/NCR 286/NEC monitor	1	50	50
PC/SMC-EDS/ASL 325 ASL 433	2	50	100
Rack-mounted CPU/General Deveices	1	386	386
Printer/HP/LaserJet II	1	50	50
SUB-TOTAL:	14		1,036
<b>LASER LAB</b>			
PC/COMPAQ/Desk PRO 386-20e	1	50	50
Monitor/VariouS	2	20	40
Printer/OKIDATA/Microline 293	1	15	15
SUB-TOTAL:	4		105
<b>ENGINEERING DEPT OFFICES</b>			
PC/VariouS/286	20	50	1,000
PC/various/386	22	50	1,100
PV/VariouS 486	7	50	350
PC/AMIGA 2500	1	50	50
Laptop PC/ /286	10	8	80
Notebook PC/VariouS/486	4	15	60
Printer/VariouS/Laser	5	60	300
Printer/VariouS/dot matrix/wide carriage	14	30	420
Plotter/VariouS/large	3	200	600

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Plotter/ /small	1	20	20
Typewriter/IBM	5	35	175
Shredder/ /small	1	35	35
SUB-TOTAL:	93		3290
<b>VIDEO DATA REDUCTION CENTER</b>			
PC/Unisys/PW80 <sup>1</sup>	9	40	360
Printer/HP/1200C IPS	1	20	20
SUB-TOTAL	10		380
<b>DATA MANAGEMENT CENTER</b>			
PC/Various/386	17	50	850
Monitor/Various/	17	20	340
44 MEG Bernoulli/ /	2	5	10
Printer/HP LaserJet II	1	40	40
Printer/HP/LaserJet III	1	40	40
SUB-TOTAL:	38		1,280
TOTAL:	662		30971

1. Software for this equipment is MS-DOS and Windows, version 3.1, and Chameleon for networking.

3.1.2 Telecommunications.

3.1.2.1 Telecommunication Center.

Telecommunications Center (TCC) services are provided by Camp Roberts, CA. The Fort Hunter Liggett DOIM operates a daily courier service to the TCC at Camp Roberts. There is a requirement for classified and unclassified General Service (GENSER) Automatic Digital Network (AUTODIN) messages, which are provided by Camp Roberts. There is no requirement for classified and unclassified Defense Special Security Communications System (DSSCS) messages. Monthly traffic requirements for the TEC are listed in Table 45.

Table 45: TEC Telecommunications Center Traffic

MESSAGE TYPE	TRANSMIT		RECEIVE	
	QTY	LBS	QTY	LBS
Narrative Classified				
Narrative Unclassified	2		160 <sup>1</sup>	
Tape Classified				
Tape Unclassified				

1. This figure represents normal operations. During testing, this figure can reach 400 messages per month.

2. Outgoing GENSER traffic is accomplished via E-Mail.

3.1.2.2 Defense Data Network.

The DDN is accessed by the TEC via dial-up access to the Ft. Lewis, WA, DDN gateway. Current access is to the MILNET for unclassified traffic. The TEC will require access to DISNET 1, DISNET 2, and DISNET 3 at Ft. Bliss, TX.

3.1.2.3 Defense Information System Network Connectivity.

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The TEC has no current requirement for Defense Information System Network (DISN) connectivity, but will require it at Ft. Bliss, TX.

### 3.1.2.4 Army Conus High Frequency Program.

The TEC has no requirement for High Frequency (HF) radio equipment.

### 3.1.2.5 Non-Tactical Radio.

Table 46 lists the Non-Tactical Radio (NTR) equipment that the TEC requires to perform its mission. The operating frequencies in use at Ft. Hunter Liggett are listed following Table 44. There is no radio trunking capability or requirement.

Table 46: TEC Non Tactical Radio Equipment List

DESCRIPTION/MANUFACTURER/MODEL/REVISION	QTY	WEIGHT (LBS)	
		EA	TOTAL
<b>RADIO EQUIPMENT</b>			
Mobile radio/Motorola/MCX100	32	15	480
Mobile radio/RCA/Tac200	25	25	625
Mobile radio/Regency/RH250A	3	12	36
Mobile radio/Midland/70-430	1	10	10
Mobile Radio/Motorola/SPECTRA	12	12	144
VHF-UHF Radio/Motorola/URC-101	4	15	60
MobilE radio/SYNTOR	25	30	750
VHF Relay/Motorola/MICOR	4	190	760
VHF Relay/Motorola/MSF5000	8	75	700
VHF Relay/Motorola/portable	3	30	90
UHF Relay/Motorola/portable	3	30	90
VHF Relay/RCA/RCA1000	3	100	300
VHF hand held/Motorola/MX-300R	127	5	635
UHF hand held/Motorola/MX-340	150	5	750
VHF hand held/Motorola/MX-340	90	5	450
VHF hand held/Motorola/MX-33-	15	5	75
VHF Relay/Motorola/tAC200	1	30	30
sub-total:	508		4880
<b>OTHER EQUIPMENT</b>			
Multiplexer/ALCATEL/D448	2	100	200
Multiplexer/ALCATEL/D424	2	100	200
Combiner/Decibel/DP4350-4	2	80	160
Tuned cavity/Decibel/DP-015-3	9	20	180
PCM MODEM/EF DATA/BCM101	3	20	60
PCM MODEM/Fairchild/M505M	3	20	60
MICRO A/SAIC/	36	40	1,440
MICRO B/SAIC/	210	5	1,050
MICRO A-B-D/SAIC	40	5	200
GPS Transmitter-Receiver/EF Johnson	8	1	8
GPS Receiver/EF Johnson	145	1	145
GPS MODEM/EF Johnson	153	1	153
CANE Telemetry System/Proxim/RXA-100R	6	150	900
CANE Telemetry System/Proxim/RXA-1000P	100	5	500
Microwave baseband/M/ACOM/COM 23C (K-BAND)	4	10	40
Microwave antenna and RF box/M/ACOM/23C	4	20	80
Microwave baseband/IMC/IMC 2123(K-BAND)	4	12	48

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Microwave antenna and RF box/IMC/IMC2123 (K-BAND)	4	15	60
Microwave baseband transmitter/M/ACOM/2.5MX (S-BAND)	8	10	80
Microwave baseband receiver/M/ACOM/2MR	8	15	120
Microwave controller/M/ACOM/2.5	8	15	120
GPS base station/ASHTEC	2	20	40
GPS base station/NAVSTAR	2	20	40
16-Channel Console/Motorola	9	100	900
10-Channel console/VEGA	3	30	90
16-Channel switch system/Motorola	1	400	400
GOES TC Transmitter/	4	5	20
GOES TC Receiver	10	10	100
Uninterruptable Power Supply/Various	10	700	7,000
Microwave baseband transmitter/LORAL/TERRACOM	3	50	150
Microwave baseband receiver/LORAL/TERRACOM	3	50	150
Patch panels Various	4	50	200
Decoder boards/VEGA	45	5	225
Altitude measure/Trimble	9	10	90
GPS power amplifiers/Various	10	10	100
GPS repeaters/Various	8	5	40
Solar panels/SOLAREX/14-15245-001	157	50	7,850
Batteries/ GEL CELL	240	50	12,000
SUB-TOTAL:	1289		35,199
<b>ANTENNAS</b>			
/Rohlm/	60	175	10500
Fold over/	4	500	2000
Antenna tower/ /AB-216/U	3	2050	6150
4 FT parabolic/ /	10	75	750
6 FT parabolic/ /	2	125	250
Disk rod/ /	4	5	20
SUB-TOTAL	83		19670
TOTAL:	1880		59749

3.1.2.5.1 Megahertz Frequencies Used by the TEC.

Frequencies include 134.025, 134.800, 138.800, 141.400, 138.025, 141.350, 138.100, 139.950, 138.325, 140.625, 138.450, 140.725, 138.650, 140.850, 138.175, 140.000, 138.725, 140.275, 138.750, 140.975, 139.275, 139.650, 139.100, 141.275, 143.200, 138.500, 139.425, 407.225, 413.225, 407.525, 413.525, 412.975, 413.050, 413.075, 413.200, 413.275, 413.350, 413.400, 409.900, 407.250, 412.850, 409.300, 409.325, 409.375, 409.400, 409.425, 409.450, 409.475, 409.525, 409.575, 409.600, 409.025, 409.050, 409.075, 409.100, 409.125, 409.175, 409.200, 409.225, 409.250, 413.475, 413.525, 410.000, 410.200, 409.825, 409.850,, and 918.000. 918.000 is used for the Telemetry System (Range Measuring System) and a the key frequency.

3.1.2.5.2 Gigahertz Frequencies Used by the TEC.

Frequencies include 2.2055, 2.224, 2.268, 2.325, 2.3655, 2.3845, 21.975, 21.925, 21.875, 23.125, 23.175, and 23.075.

3.1.2.6 Worldwide Military Command And Control System.

The TEC has no requirement for Worldwide Military Command and Control (WWMCCS) equipment.

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3.1.2.7 Administrative Telephone Services.

The Administrative Telephone Service (ATS) requirements of the TEC are provided by the DOIM, Ft. Hunter Liggett.

3.1.2.7.1 Telephone Voice Lines.

Table 47 lists all of the telephone voice lines required to support the organization's mission. Telephone instruments are the property of the DOIM and will remain at Ft. Hunter Liggett

Table 47: TEC Telephone Line Current Usage

ACTIVITY	# PERSONNEL	# NON SECURE	# COMSEC	# FAX	# MODEM
TEC	356	266 1,2		17	64

1. There are 230 single line telephones and 6 key systems with six lines each.
2. During testing, this number can increase to 500 single line telephones with key systems remaining the same.

3.1.2.7.2 Administrative Telephone Instrument Relocation.

Table 48 lists all of the telephone voice instruments, facsimile (FAX) machines, answering machines, and cellular telephones required to support the organization's mission. The table also clearly identifies which of these instruments will be relocated and which will be turned in as excess equipment.

Table 48: TEC Telephone Voice Instruments & FAX Machines

DESCRIPTION	# NONSEC	# COMSEC	WEIGHT (LBS)		SINGLE MULTI
			EA	TOTAL	
Fax machine/RICOH/R2110		1	25	25	S
Fax machine/HP/C3510A	1		25	25	S
Fax machine/CANON/630	3		25	75	S
Fax machine/HP/200	1		25	25	S
Fax machine/HP/900	1		25	25	S
Fax machine/BrotherINTELLIFAX/980M	2		50	50	S
Fax machine/Sharp/ S0550	1		25	25	S
Fax machine/Lanier/2230	1		25	25	S
Fax machine/CANON/FAX 220	2		20	40	S
Fax machine/Panasonic/UF127	1		20	20	S
Fax machine/CANON/1700	3		48.5	145.5	S
Fax MODEM/INTEL/internal	1				S
Answering machine/GE	1		5	5	S
Answering machine/SW Bell	1		5	5	S
Answering machine/	1		5	5	S
Answering machine/Phonemate/7200	1		3	3	S
Answering machine/Panasonic/KXT1470	1		3	3	S
Cellular phone/GTE/BAG	1		5	5	S
Cellular phone/GTE/FLIP	4		2	8	S

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Fax MODEM/Hayes/14.4-14.4	13	3	39	S
TOTAL:	40		553.5	

3.1.2.7.3 Voice Mail.

The TEC has no requirement for voice mail.

3.1.2.7.4 Dedicated Data Circuits.

There are two required dedicated data circuits in place supporting the TEC. A listing of activities, functions, rate, and remote termination of the circuits is given in Table 49.

Table 49: TEC Dedicated Data Circuits

ACTIVITY	SYSTEM/FUNCTION	RATE	REMOTE TERMINATION
TEC LAN	Provides alternate path to the TRADOC DSS at Ft. Hood	9.6Kbps	TRADOC DSS, Ft. Hood, TX.
SAA Gateway	Prime connectivity to TRADOC DSS	19.2Kbps	TRADOC DSS, Ft. Hood, TX.
TEC	Desktop video teleconference	1.544Mbps	OPTEX, Alexandria, VA.

3.1.2.8 Local Area Networks.

The TEC owns, operates, and maintains its LAN equipment located at Fort Hunter Liggett.

3.1.2.8.1 LAN Characteristics.

There is one LAN that supports the entire TEC. It is described in Table 50, which lists the LAN characteristics. Table 51 is a listing of LAN equipment.

Table 50: TEC LAN Characteristics

LAN CHARACTERISTIC	VALUE
Network Operating System	Novel Netware 3.1.1
File Servers - Qty	5, router are internal to file servers.
Users - Qty	Typically 310, during tests 360
Transmission	Baseband
Topology	Star
Access Method	Ethernet
Data Rate	10 Mbps
Media	62.5/125 multi-mode fiber optic, loose tube for exterior plant, tight buffer for interior. Also unshielded twisted pair.
IEEE Standards Supported	802.2 (LLC), 802.3 Ethernet.
High Level Protocols	NETBIOS, TCP/IP, and NetWare (IPX/SPX)
PCs	310
Printers	37
management consoles/stations	4
Hubs	47

3.1.2.8.2 LAN Equipment.

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Table 51: LAN Equipment List

DESCRIPTION	QTY	WEIGHT (LBS)		FLOOR SPACE (SQ FT)		
		EA	TOTAL	EA	TOT	TYPE
<b>Building T161</b>						
Hub/Cabletron/MRXI-2 10BaseT	1	5	5		Note 1	
<b>Building T166</b>						
Hub/Isolan /1200-1 10BaseT	1	50	50	5	5	A
FO transceiver/Chipcom/9301T-ST	1	.5			Note 1	A
<b>Building T169</b>						
Hub/Cabletron/MRXI-2 10BaseT	2	5	10		Note 2	A
Hub/ /TC5055-10 10BaseT	2	2	4		Note 2	A
FO Hub/Chipcom /9314S-ST	4	5	20		Note 2	A
FO Transceiver/Chipcom/9301T-ST	4	.5	2		Note 2	A
File server/ /Netserver LM	1	50	50	18	18	A
<b>Building B190</b>						
Hub/ /TC5055-10 10BaseT	1	2	2		Note 1	A
FO Transceiver/Chipcom/9301T-ST	1	.5	.5		Note 1	A
<b>Building T196</b>						
Hub/Cabletron/MRXI-2 10BaseT	1	5	5		Note 1	A
FO Transceiver/Chipcom/9301T	1	.5	.5		Note 1	A
<b>Building B207</b>						
Hub/Cabletron/MRXI-2 10BaseT	3	5	15		Note 1	A
FO Transceiver/Chipcom/9301T-ST	1	.5	.5		Note 1	A
Hub/Cabletron/MMAC-8 10BaseT	1	25	25		Note 1	A
Modem/ /Omnimode 96 Synchronous	1	1	1		Note 1	A
<b>Building B208</b>						
HUB/Cabletron/MRXI-2 10BaseT	2	5	10		Note 1	A
FO transceiver/Chipcom/9301T-ST	1	.5	.5		Note 1	A
<b>Building 229</b>						
FO transceiver/Chipcom/9301T-ST	1	.5	.5		Note 1	A
<b>Building B230</b>						
Hub/Cabletron/MRXI-2 10BaseT	1	5	5		Note 1	A
FO transceiver/Chipcom/9301T-ST	1	.5	.5		Note 1	A
<b>Building S232</b>						
Hub/Cabletron/MRXI-2 10BaseT	1	5	5		Note 1	A
<b>Building S233</b>						
FO transceiver/Chipcom/9301T-ST	1	.5	.5		Note 1	A
<b>Building S235</b>						
Hub/Cabletron/MRXI-2 10BaseT	1	5	5		Note 1	A
FO transceiver/Chipcom/9301T-ST	1	.5	.5		Note 1	A
<b>Building S236</b>						
Hub/Cabletron/MRXI-2 10BaseT	1	5	5		Note 1	A
FO transceiver/Chipcom/9301T-ST	1	.5	.5		Note 1	A
<b>Building S237</b>						
Hub/Cabletron/MRXI-2 10BaseT	1	5	5		Note 1	A
FO transceiver/Chipcom/9301T-ST	1	.5	.5		Note 1	A
<b>Building S238</b>						
Hub/Cabletron/MRXI-2 10BaseT	1	5	5		Note 1	A
FO transceiver/Chipcom/9301T-ST	1	.5	.5		Note 1	A
<b>Building S240</b>						
Hub/Cabletron/MRXI-2 10BaseT	1	5	5		Note 1	A
FO transceiver/Chipcom/9301T-ST	1	.5	.5		Note 1	A

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<b>Building S241</b>						
Hub/Cabletron/MRXI-2 10BaseT	3	5	15		Note 3	A
FO transceiver/Chipcom/9301T-ST	16	.5	8		Note 3	A
FO hub/Chipcom/9314s-ST	7	7.5	52.5		Note 3	A
MODEM rack/ /CC216	1	20	20		Note 3	A
Computer w/keyboard/Zenith/Z248	2	30	60		Note 3	A
Monitor/ /color 6X803	1	15	15		Note 3	A
Mouse/ /3F-320DP1	1	.5	.5		Note 3	A
Computer w/keyboard/ /386	1	30	30		Note 3	A
Monitor/ /MA-256	2	15	30		Note 3	A
Switch Unit Autoboot/ /AR-5 REVG	1	5	5		Note 3	A
MODEM/INTEL/14.4 PCEM-72144	3	.5	1.5		Note 3	A
File server/ /486 EXO-2616MGBT	215	50	250 1550		Note 3	A
Monitor/ /SVGA CVP-5468A	2	15	30		Note 3	A
Computer w/kybd/ /EXO-2616MGBT	1	30	30		Note 3	A
Tape drive/ /Fast2000C	1	5	5		Note 3	A
FO hub/ /93145	2	10	20		Note 3	A
CD-ROM drive tower	1	20	20		Note 3	A
Computer w/kybd/Topline/486 dial in	4	10	40		Note 3	A
MODEM/ /3380	1	1	1		Note 3	A
<b>Building S243</b>						
Hub/Cabletron/MRXI-2 10BaseT	1	5	5		Note 1	A
FO transceiver/Chipcom/9301T-ST	1	.5	.5		Note 1	A
<b>Building S244</b>						
Hub/Cabletron/MRXI-2 10BaseT	1	5	5		Note 1	A
FO transceiver/Chipcom/9301T-ST	1	.5	.5		Note 1	A
<b>Building S246</b>						
Hub/Cabletron/MRXI-2 10BaseT	1	5	5		Note 1	A
FO transceiver/Chipcom/9301T-ST	1	.5	.5		Note 1	A
<b>Building S247</b>						
Hub/Cabletron/MRXI-2 10BaseT	1	5	5		Note 1	A
FO transceiver/Chipcom/9301T-ST	1	.5	.5		Note 1	A
<b>Building B269</b>						
FO transceiver/Chipcom/9301T-ST	1	.5	.5		Note 1	A
<b>Building S264</b>						
Hub/Cabletron/MRXI-2 10BaseT	1	5	5		Note 1	A
FO transceiver/Chipcom/9301T-ST	1	.5	.5		Note 1	A
<b>Building S265</b>						
Hub/Cabletron/MRXI-2 10BaseT	1	5	5		Note 1	A
FO transceiver/Chipcom/9301T-ST	1	.5	.5		Note 1	A
<b>Building S286</b>						
Hub/Cabletron/MRXI-2 10BaseT	1	5	5		Note 1	A
FO transceiver/Chipcom/9301T-ST	1	.5	.5		Note 1	A
<b>Building S288</b>						
Hub/Cabletron/MRXI-2 10BaseT	1	5	5		Note 1	A
FO transceiver/Chipcom/9301T-ST	1	.5	.5		Note 1	A
<b>Building S290</b>						
Hub/Cabletron/MRXI-2 10BaseT	1	5	5		Note 1	A
<b>Building S291</b>						
Hub/Cabletron/MRXI-2 10BaseT	1	5	5		Note 1	A
<b>Building S299</b>						
Hub/Cabletron/MRXI-2 10BaseT	1	5	5		Note 1	A

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FO transceiver/Chipcom/9301T-ST	1	.5	.5	Note 1	A
Building B301					
FO Hub/Chipcom/9314S-ST	3	7.5	22.5	Note 1	
Building S344					
Hub/Cabletron/MRXI-2 10BaseT	1	5	5	Note 1	A
FO transceiver/Chipcom/9301T-ST	1	.5	.5	Note 1	A
Building S345					
Hub/Cabletron/MRXI-2 10BaseT	1	5	5	Note 1	A
FO transceiver/Chipcom/9301T-ST	1	.5	.5	Note 1	A
TOTAL:	134		2247	73.5	

Note 1. Each building has a 3' x 6' section of plywood, mounted on a wall, to which this equipment is fastened.

Note 2. Building 169 contains one rack 6.25 square feet of floor space weighing 150 pounds.

Note 3. Building 241 contains seven racks, 6.25 square feet (43.75 total square feet) weighing 150 pounds each (1050 total pounds).

3.1.2.8.3 Software Applications Supported

3.1.2.8.3.1 TEXCOM Standard Software.

The TEXCOM standard suites of DOS and Windows applications are installed on the file servers. The standard DOS software packages are WordPerfect 5.1, Harvard Graphics 3.0, Quattro Pro 4.0, dBaseIV 1.1, FedForms, and SAS. The standard Windows applications are WordPerfect for Windows 6.0a, Harvard Graphics for Windows 2.0, Quattro Pro for Windows 5.0, SAS for Windows 6.08, and MicroSoft Project for Windows 4.0. CaLANdar is installed on the servers but not activated for users.

3.1.2.8.3.2 Non-standard Software.

In addition to the software identified above, the following applications are also supported: Calendar Creator for Windows, FoxPro 2.0 for DOS, Perform Pro Form Filler for Windows, and Autovue 12.1.

3.1.2.8.4 LAN ManagementDiagnostics Capabilities.

Server performance is monitored using the Netware Monitor utility. Primary parameters collected are: cpu utilization, packet receive buffers, directory cache buffers, service processes, memory pool, and redirected/reserved disk blocks. The status of the network LAN activity is monitored with LANView, a Cabletron software package that looks at Simple Network Management Protocol (SNMP) data on network devices and polls devices to see if they are "alive". LANalyzer is a software package used for monitoring and network trouble shooting

3.1.2.9 Communications Security.

Communication Security (COMSEC) becomes important if classified traffic and/or facilities are involved. Table 52 has a complete list of the COMSEC line items and types of equipment that are currently required

Table 52: TEC COMSEC Equipment List

DESCRIPTION	QTY	WEIGHT (LBS)	
		EACH	TOTAL

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STU III/AT&T/Security Plus/B	1	10	10
STU III/Motorola/SECTEL1000	14	7	98
TOTAL	15		108

### 3.1.3 Printing and Publications.

#### 3.1.3.1 Print Plant.

The services addressed in this section refer to all print plant requirements satisfied, whether they be from the newly formed, Navy managed, Defense Printing Service, or from in-house printing capabilities. TEC printing requirements are provided by the Defense Printing Service located at the Presidio of Monterey, CA. The TEC budget for FY 94 printing is \$5,000. Printing service requirements are listed in Table 53.

Table 53: TEC Printing Requirements

ITEM	QTY JOBS	QTY PAGES
Contract Printing	18-20	15,560

#### 3.1.3.2 Forms and Publications.

The amount of storage required by the TEC for storage of forms and publications is 24 square feet for forms and 6 square feet for publications.

#### 3.1.4 Visual Information.

##### 3.1.4.1 Audiovisual Services.

The TEC requires the services listed in Table 54.

Table 54: TEC Audiovisual Services

AUDIOVISUAL SERVICE	QTY / YEAR
35MM Slides	1000
Studio Photos	100
Personnel Photos	100

##### 3.1.4.2 Audiovisual Equipment.

Table 55 lists the audiovisual equipment owned by the TEC and to be relocated to Ft. Bliss, TX.

Table 55: TEC Audiovisual Equipment List

DESCRIPTION	QTY	WEIGHT (LBS)	
		EACH	TOTAL
VCR/Panasonic/6300 (1/2 INCH)	6	35	210
VCR/Panasonic 9300 (4)/Sony (3)/(3/4 INCH)	7	60	420
Color monitors/Sony (8)/Panasonic (1)	9	50	450
Sound system/Sony/MXP24	1	40	40
R&R Recorder/OTARI	1	40	40
Video camera/Sony	2	20	40
Camcorder/Sony	1	25	25

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Computer/ /433VL	1	50	50
SUB-TOTAL	28		1,275
<b>Technical Documentation Center</b>			
VCR/Panasonic/VHS 1/2 INCH	2	50	100
VCR/Panasonic/SVHS 3/4 INCH	2	60	120
VCR/Sony/S8MM	2	35	70
VCR/Sony/UMATIC 525 3/4 INCH	2	50	100
VCR/TEAC/UMATIC 875 3/4 INCH	2	50	100
Monitor/Sony/24 inch color	2	75	150
Monitor/CONAC/19 inch color	2	40	80
TBC/HOTRONIC/AF75	3	75	225
Video processing amplifier/Sigma	1	20	20
Video copy processor/Mitsubishi	1	15	15
Audio monitor/VIDEOTEK	1	10	10
Digital effect generator/JVC	1	40	40
Pattern generator/Raster Master	1	50	50
Audio/video patch panel/Trompeter	1	10	10
Video typewriter/FOR A/VTW-240	1	20	20
Video rack/ /	4	50	200
Waveform monitor/Tektronic	1	40	40
Monitor/Panasonic/7 inch	10	5	50
Monitor/Panasonic/9 inch	20	5	100
Monitor bench/ /	1	250	250
Pattern generator/ Tektronic	1	5	5
Camera/Various	12	5	60
Lens/assorted 8.5MM - 100MM		4	4
Monitor/Sanyo/9 inch black and white	5	10	50
Pan/tilt controller/Alpha	3	30	90
Video storage container/ /	5	100	500
Monitor/Panasonic/19 inch with audio	1	40	40
VCR/Panasonic/875 VHS 3/4 inch	1	50	50
VCR/TEAC/525 VHS 1/2 inch	1	20	20
VCR/TEAC/875-575 8MM	1	10	10
Video data encoder/DATUM	1	5	5
TCG (mini)/DATUM	1	5	5
Time inserter (MINI)/DATUM	1	5	5
Crosshair generator/GBC	1	1	1
Data reader/DATUM	1	10	10
Camera closure/PULNIX	1	10	10
Camera/RCA/black and white	3	5	15
Camcorder/Sony	1	2	2
TCG impossible/DATUM	2	5	10
Power supply/12V	1	10	10
Power supply/24V	1	15	15
Monitor/JVC/24 inch color	1	100	100
VCR/Panasonic/VHS	1	35	35
Viewgraph/Buhl	1	30	30
Roll screen/ / 5X5	1	20	20
SUB-TOTAL	104		2,732
<b>VIDEO DATA REDUCTION CENTER</b>			
VCR/Panasonic/NV-8950 1/2 inch	9	25	225
VCR/TEAC/V1000G-F 3/4 inch	9	30	270

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Monitor/Panasonic/BT-D1910Y color	1	30	30
Monitor/Electrohome/V441QA black and white	10	20	200
Editing control unit/Sony/RM-450	9	10	90
Video printer/Mitsubishi/P78U	1	15	15
Sound system/Videotek/APM-2RS	20	5	100
Video typewriter/FOR.A/VTW-240	1	20	20
VCR/Sony/EV09800A 8MM	20	25	500
Monitor/JVC/TM-R9U color	5	15	75
Monitor/CONRAC/7241 color	6	30	180
Monitor/CONRAC/QQA black and white	11	40	440
Equipment rack/ / reduction station			
Equipment rack/ /QC-duplication station			
SUB-TOTAL:			
TOTAL			

### 3.1.4.3 Photographic Equipment.

The TEC has no requirement for photographic equipment.

### 3.1.4.4 Video Teleconferencing Systems.

The TEC is scheduled to receive desktop video teleconferencing capability in July 1995.

### 3.1.4.5 Closed Circuit Television.

At the present time, the TEC uses Closed Circuit Television (CCTV) to monitor the fenced compound on Computer Hill. A Panasonic black and white video camera, weighing 5 pounds, and an NEC 27-inch color monitor, weighing 100 pounds, are used to monitor the front gate to the fenced compound.

### 3.1.4.6 Cable Television.

The TEC has a requirement for one Cable Television (CATV) connection for the ~~Test~~ ~~Computer Branch.~~ **CMDR.**

### 3.1.5 Records Management.

#### 3.1.5.1 Files Disposition And Retention.

The TEC currently uses 702 square feet of floor space as a records holding area for approximately 10,700 pounds of hard copy, audio, and film (video) records that will be relocated to Ft. Bliss. This space is provided within the organization

#### 3.1.5.2 Mail Distribution.

The TEC has a total annual budget of \$4,710. A breakdown of mailcount by type is provided in Table 56.

Table 56: TEC Mail Count by Type

MAIL TYPE	INCOMING	OUTGOING
Accountable	390	390
Unaccountable	3600	3600

#### 3.1.5.3 Copiers And Micrographics.

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3.1.6.2 Technical Documentation Center Library.

The Technical Documentation Center contains the items listed in Table 59.

Table 59: Technical Documentation Center Library

DESCRIPTION	QTY	WEIGHT (LBS)	
		EACH	TOTAL
120 linear feet of technical manuals			
6000 drawings			
88 linear feet of reports, procedures, and work orders			
100 cubic feet of copier supplies			
12 map files 5' wide, 4' deep, 20' high			
2 standing files 5' wide, 18' deep, 48' high			
11 5-drawer file cabinets 18' wide, 28' deep, 57' high			
TOTAL:			25,000

3.1.6.3 Test Computer Branch Library.

The Test Computer Branch Library consists of the documentation shown in Table 60.

Table 60: Test Computer Branch Library

DESCRIPTION	QTY	WEIGHT (LBS)	
		EACH	TOTAL
Manuals and documentation (linear feet)	300		1,500
TOTAL:	300		1,500

3.1.6.4 LAN Software Library.

The LAN Library requirements are shown in

DESCRIPTION	QTY	WEIGHT (LBS)	
		EACH	TOTAL
Manuals and documentation (linear feet)	268		1,340
TOTAL:	268		1,340

3.1.7 Base Realignment and Closure Construction Army.

There have been no Base Realignment and Closure Construction Army (BCA) new construction or renovation projects associated with the relocation of the TEC. There are, however, construction requirements at Ft. Bliss. These are identified in paragraph 3.1.1.8, Special Considerations.

*ADD 1391.5 for BCAS*

3.1.8 Special Considerations.

This section amplifies areas and considerations that have an impact on the organization's relocation efforts.

3.1.8.1 Central LAN Resources and LAN Support Requirements.

3.1.8.1.1 Central LAN Resources - Building 241.

Central LAN resources currently occupy approximately 90 square feet of dedicated floor space, not including access area. The majority of this equipment is installed in 19-inch racks that are six feet high. It is estimated that 2,600 pounds of equipment are located in this area. A 7.5 kva ups currently supports the central LAN resources.

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Table 57 lists the copiers and micrographic equipment owned by the TEC and to be relocated to Ft. Bliss, TX. In addition, the Scientific Support Laboratory (SSL) contractor has a separate contract with Xerox for 6 Xerox copiers to include five regular office copiers and one high speed copier which would not be relocated to Ft. Bliss, TX. Copier support to replace this contracted capability must be obtained at Ft. Bliss utilizing the installation support contract.

Table 57: TEC Copiers and Micrographic Equipment List

DESCRIPTION	QTY	WEIGHT (LBS)	
		EACH	TOTAL
Copier/CANON/NP 1215	1	110	110
Copier/CANON/NP 3825	1	160	160
Copier/MONROE/RL-956DS	2	200	400
Copier/GESTETNER/2346	2	200	400
Copier/AMITA/111C	1	200	200
Copier/XEROX/1012	1	250	250
Copier/Bruning/7100 engineering copier	1	600	600
Copier/XEROX/1090 high speed copier	1	2000	2000
Copier/Pitney Bowes/D230	2	800	1600
Copier/OCE/7100	1	600	600
Copier/CANON/PC-24	2	60	120
Copier/CANON/F126500	2	30	60
Microfilm reader-printer/GIDEP/including 200 microfilm cartridge/ges	1	800	800
Microfiche reader/ /XL10-MR-1	2	15	30
Microfiche reader/OPTICON/24-48	5	18	90
Punching machine/GBC/111PM	1	100	100
Binding machine/GBC/470KM	1	50	50
Lettering machine/Kroy/80K with cartridges	1	100	100
CD-ROM system/IHS/includes A386 computer, 2 disk drives,a laserjet 4 printer, and 500 CDs	1	600	600
TOTAL:	29		8,270

3.1.6 Libraries.

3.1.6.1 Magnetic Tape Library with Secured Vault.

The magnetic tape library is housed in a secured vault that requires both fire and security alarms This library houses classified magnetic media and printouts. Table 58 lists the equipment and magnetic media storage requirements.

Table 58: Magnetic Tape Library and Secured Vault

DESCRIPTION	QTY	WEIGHT (LBS)	
		EACH	TOTAL
Magnetic tapes/nine track	1200	3	3,600
Tape racks/4' X 10'	26	200	5,200
Tape rack/8MM tape/3' X 6'	1	75	75
Tape rack/8MM cartridge/6' X 7'	1	100	100
Disk pack cabinets	4	100	400
TOTAL:	1232		9,375

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3.1.6.2 Technical Documentation Center Library.

The Technical Documentation Center contains the items listed in Table 59.

Table 59: Technical Documentation Center Library

DESCRIPTION	QTY	WEIGHT (LBS)	
		EACH	TOTAL
120 linear feet of technical manuals			
6000 drawings			
88 linear feet of reports, procedures, and work orders			
100 cubic feet of copier supplies			
12 map files 5' wide, 4' deep, 20' high			
2 standing files 5' wide, 18' deep, 48' high			
11 5-drawer file cabinets 18' wide, 28' deep, 57' high			
TOTAL:			25,000

3.1.6.3 Test Computer Branch Library.

The Test Computer Branch Library consists of the documentation shown in Table 60.

Table 60: Test Computer Branch Library

DESCRIPTION	QTY	WEIGHT (LBS)	
		EACH	TOTAL
Manuals and documentation (linear feet)	300		1,500
TOTAL :	300		1,500

3.1.6.4 LAN Software Library.

The LAN Library requirements are shown in

DESCRIPTION	QTY	WEIGHT (LBS)	
		EACH	TOTAL
Manuals and documentation (linear feet)	268		1,340
TOTAL :	268		1,340

~~3.1.7 Base Realignment and Closure Construction Army. 3 MAJOR PROJECTS~~

~~There have been no Base Realignment and Closure Construction Army (BCA) new construction or renovation projects associated with the relocation of the TEC. There are, however, construction requirements at Ft. Bliss. These are identified in paragraph 3.1.1.8, Special Considerations.~~

3.1.8 Special Considerations.

This section amplifies areas and considerations that have an impact on the organization's relocation efforts.

3.1.8.1 Central LAN Resources and LAN Support Requirements.

3.1.8.1.1 Central LAN Resources - Building 241.

Central LAN resources currently occupy approximately 90 square feet of dedicated floor space, not including access area. The majority of this equipment is installed in 19-inch racks that are six feet high. It is estimated that 2,600 pounds of equipment are located in this area. A 7.5 kva ups currently supports the central LAN resources.

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3.1.8.1.2 LAN Resources - Building 207.

The LAN equipment in building 207 requires 22 square feet of floor space, not including access area. The majority of this equipment is installed in three 19-inch racks that are six feet high. It is estimated that 900 pounds of equipment are located in this area. A 2.5 KVA UPS with internal battery is located adjacent to these racks.

3.1.8.1.3 LAN Resources - Building T-169.

The LAN equipment located in building T-169 requires 65 square feet of floor space, not including access area. An estimated 400 pounds of equipment are included. The test file servers, tape backup station, the LAN CD-ROM towers, the system management station, and two .85KVA UPS are included in this equipment.

3.1.8.1.4 LAN Classroom. The LAN classroom currently has facilities for 12 students and an instructor. It contains 13 386-25 or 386SX-16 computers, a first generation HP LaserJet printer, and a low resolution, large screen monitor. The PCs are installed on individual workstation furniture units. ~~The TEC feels that it is economically desirable to upgrade the equipment in this facility, including modular workstation units wired for LAN connectivity, rather than move it.~~ Additional classroom accoutrements should include a rear projection screen; remote-controlled color projector with input for VCR, PC, and TV; a multimedia presentation PC; and an electronic copyboard (GSA GS-26F-6131B).

3.1.8.2 Bench Stock and Spare Parts.

Storage for LAN test equipment, spare parts, and installation tools requires 230 square feet. Parts for instrumentation computer systems requires an additional 500 cubic feet (1,000 pounds). An additional 520 square feet of space is used for PC repair, as well as storage for spare parts and maintenance float equipment. This includes approximately 3,500 pounds of equipment and parts.

3.1.8.3 Briefing Room/Auditorium.

The briefing room/auditorium should include the following accoutrements: rear projection screen; remote-controlled color projector with input for PC, VCR, and TV; a remote-controlled multimedia presentation PC; and an electronic copyboard (GSA GS-26F-6131B)

3.1.8.4 Range Measurement System and other Communications Systems.

THE TEC's systems include a Range Measurement System (RMS), a tactical communications array, a Global Positioning System (GPS) Differential Broadcast System, and a separate telemetry system. To assist in the planning process, the following information is provided.

3.1.8.4.1 The RMS array backbone operates at a frequency of 918 Mhz. The heart of the system (C-Station and trailer) is intended to be located at Elephant Mountain. The C-Station trailer needs to be connected to three other MTEC trailers either via microwave or fiber optic links. Fiber optics is preferred. Potential sites for the three trailers are; Oro Grande Range Camp vicinity 13SCF920855; Dona Ana Range Camp, vicinity 13SCF580578; and McGregor Range Camp, vicinity 13SCF898494. The RMS uses relay sites to transmit player data back to the C-Station. These relay stations will

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be tentatively located at the following locations in an attempt to create a "permanent" instrumented play area.

13SCF		13SCF		13SCF	
Site	Grid Designator	Site	Grid Designator	Site	Grid Designator
R36	74245846	R10	19587722	R18	58566529
R37	90715578	R35	14175906	R23	60907940
R04	79878297	R06	97637021	R28	77885401
R09	80867335	R07	85216954	R30	97799762
R02	70826091	R08	89328237	R32	97355379
R03	89666129	R11	81189781	R34	58415426
R10	19587722	R12	70636960	BASE	92368440
R01	11477777	R14	72688257	A/B/D	94798989
R05	03258880	R17	67309579		

At each of these sites, the following actions need to be accomplished.

- a. An area levelled for a radius of 16 feet from the grid coordinate.
- b. Shrubs and brush removed for a radius of 30 feet from the grid coordinate.
- c. Install a concrete slab with minimum dimensions of 12' x 8' x 4" for placement of the RMS package. This may not be possible at sites designated A/B/D.
- d. Install concrete slab for an antenna tower. The base plate will be set in a concrete slab with a minimum dimension of 54" x 24" x 12", adjacent to the slab referred to in c. above. Drawing available upon request.
- e. Install ground anchors and guy wire anchors for antenna towers. Three anchors per tower are required. Drawing available upon request.
- f. Install ground rounds and/or a grounding system for each site. Insure lightning protection is included for each site.
- g. Install a 50 foot tower assembly at each site where accessible by ground vehicle. These towers must include aviation safety lighting.
- h. Install prime power (120/240VAC) to each site where accessible by ground vehicle.

3.1.8.4.2

The communications array is intended to be located at Elephant Mountain, as well. This array consists of up to 12 simplex tactical radio nets and ten duplex VHF administrative nets. The array provides tactical communications from the test control cell to the test controllers and players in the field. This equipment also provides administrative control of the test through hand held Motorola radios. Frequencies are listed in paragraph 3.1.2.5.1 and 3.1.2.5.2 above. The communications array is housed in three trailers which must be interconnected to the other MTEC trailers mentioned above via either a microwave radio or fiber optic link. Fiber optic is preferred.

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3.1.8.4.3 The GPS works on a rebroadcast principle. This system uses a base station located at a surveyed point to compute a differential correction solution. The surveyed point should also be located on Elephant Mountain, with remote sites colocated with RMS remote sites. The rebroadcast is accomplished on 139.425 Mhz.

3.1.8.4.4 The telemetry system is a spread spectrum system operating from 902 to 928 Mhz. It has an approximate bandwidth of 8 Mhz. The center frequencies of the four channels are 906, 912, 918, and 924 Mhz. It has an output of one watt.

3.1.8.4.5 Other site considerations.

- a. At Elephant Mountain, there is a requirement for a minimum of 15 telephone lines.
- b. In the trailers in the range base camps (Oro Grande, Dona Ana, and McGregor), there is a requirement for a minimum of 30 telephone lines.
- c. At all locations with trailers, the area must be prepared and improved to allow level parking of trailers in all weather conditions. Hardtop is preferred.
- d. The facilities at the base camps require controlled access up to and including the SECRET level, i.e. fencing and lighting criteria for SECRET level processing.
- e. At a separate location within the base camp, there must be facilities for parking an additional 20 to 25 other trailers. This area must also be improved to allow level parking under all weather conditions.
- f. Each trailer pad and RMS site pad must be served by appropriate power, telephone, and fiber optic cables.

3.1.8.5 Other Factors Which Could Increase Costs.

- a. If 918 Mhz is not available for TEC use at Ft. Bliss, then the possibility exists to modify the A/B/D packages to 435 Mhz. SSL is currently inquiring about the feasibility from SAIC. Cost is expected to be \$2 million to modify 100 A/B/D units. If 435 Mhz is not available, the alternative is a modification of the A/B/D units to operate at 980 Mhz. The cost to modify 100 units to this frequency is somewhat less than \$2 million. If 980 Mhz is not available, a new telemetry system would have to be found. Cost of this has not been determined.
- b. The Micro A and B packages are not convertible and would have to be replaced with A/B/D units. The cost for replacing 246 micro A and B units is \$9.4 million. whether at 435 or 980 Mhz.
- c. An undetermined hidden cost could be associated with the placement of the RMS array. Placement of sites was accomplished strictly through the use of the Network Planners Terminal using the Defense Mapping Agency Digitized Terrain Elevation Data and without an on-the-ground reconnaissance. Sites may have to be adjusted or added once an on-the-ground reconnaissance and actual coverage testing is accomplished.

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d. Another potential cost is associated with the non-availability of frequencies listed in paragraph 3.1.2.5.1 and 3.1.2.5.2 above. This cost is undetermined at this time.

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## 4. INTRODUCTION TO GAINING INSTALLATIONS

The DOIM, Ft. Bliss, TX, has the responsibility of providing IMA services to TEC.

### 4.1 GAINING ORGANIZATION INFORMATION MISSION AREA BASELINE.

The DOIM, Ft. Bliss, provides the IMA services to all current tenants of Ft. Bliss. The installation baseline presented in this section allows for an evaluation of the ability of the DOIM to support the IMA requirements of TEC, including an evaluation of whether upgrades or modifications will be necessary to accommodate the increased load presented by the arrival of TEC.

#### 4.1.1 Automation.

##### 4.1.1.1 Army Standard Information Management Systems.

ASIMS access to the Rock Island DMC is provided via an FEP (NCR COMTEN). There are 38 ports in use; 28 additional ports are available. The number of terminals used to access ASIMS is 380; 185 printers are associated with the terminals. Connectivity to the DMC is provided by two 19.2Kbps circuits. Users attached either directly to the COMTEN or to the installation DPI FEP (IBM 3725) can access the DMC.

##### 4.1.1.2 Standard Army Management Information Systems.

The DOIM supports the following STAMIS: STANFINS, SAILS, STARFIARS, SRD1, STARCIPS, SIDPERS, RAPS, ATJ, ITAADS, and OSC/DS4.

##### 4.1.1.3 Installation Support Modules.

The DOIM currently supports the following ISMs: DAMIS, TRANSPROC, TRANSORD, PERSLOC, INPROC, and OUTPROC. This support is provided by an HP 9000 and an Everex, located in buildings 56 and 5800, respectively.

##### 4.1.1.4 Sustaining Base Information System.

The CUITN program, currently on hold pending resolution of the extent of program funding, is the only major upgrade identified by the DOIM. The CUITN survey was completed in November 1994.

##### 4.1.1.5 Information Center.

IC support comprises software installation and training, hardware maintenance and training, and a Help Desk for ADPE users. The IC operates Monday through Friday from 0800 to 1630 hours for maintenance and profs and 0700 to 2200 hours for lines and connections.

##### 4.1.1.6 BASOPS Hosts.

Ft. Bliss has one host system, located in room 125 of building 5800, that processes TRADOC ISMs and local systems for FECA and telephone accounting; it provides connectivity for DDN and ASIMS, and employs profs for Email. The following information pertains to that host.

###### 4.1.1.6.1 Host Processor.

Table 1 lists the technical characteristics and specifics of the Ft. Bliss host processor, an IBM 4381-R24.

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Table 1: Ft. Bliss Host Processor

CHARACTERISTIC	DATA	USAGE	AVAILABLE CAPACITY
Memory	64MB	70%	30%
Channels	12	50%	50%
Disk storage	3500MB	3200 MB	300MB

4.1.1.6.2 Host Processor Equipment.

The major equipment associated with the host processor is identified in Table 2.

Table 2: Ft. Bliss Host Processor Equipment

DESCRIPTION	QTY	WEIGHT (LBS)		FOOTPRINT (SQ.FT.)		TYPE
		EACH	TOTAL	EACH	TOTAL	
Cluster controller/IBM 3174	1			3.75		R
CPU IBM 4331	1			10		R
CPU/IBM 4381	1			13.75		R
DASD controller/IBM 3880	1			10		R
DASD/IBM 3380	6			31.5		R
Disk drive (A)/IBM 3310	1			5		R
FEP/IBM 3725	1			8.75		R
FEP/NCR COMTEN 3690	1			14		R
Line printer/IBM 3203	1			21		R
Line printer/IBM 4245	4			15		R
Modem racks (ASIMS)/HDST 4381	8			4		R
Patch panel (ASIMS)	2			4		R
Tape controller/IBM 3808	1			6.25		R
Tape drive (ASIMS)/IBM 3410 and 3411	2			5		R
Tape drive (C)/IBM 3480	2			12		R
Tape drive/IBM 3420	4			6.25		R
<b>TOTAL:</b>	<b>37</b>					

TYPE: R=Raised, A=Administrative, F=Facility

4.1.1.6.3 Host Connectivity.

The on- and off-post connectivity provided by the DOIM is identified below in Table 3. There are 16 VDS Motorola model V.3225, baud rate 9.6 Kbps, providing dial-in connectivity.

Table 3: Ft. Bliss Host Processor Connectivity

CIRCUIT NUMBER	KBPS	PROTOCOL	APPLICATION	CONNECTIVITY TO	REMARKS
068	19.2	SDLC	???	TEXCOM, Ft. Hood	Building 1656
087	19.2	SDLC	???	DLI	
042	19.2	SDLC	???	CPO	
0005	19.2	SDLC	???	Ft. Leavenworth	
066	19.2	SDLC	???	TEXCOM, Ft. Bliss	Building 1656

4.1.1.6.4 Defense Data Network from Host.

Access to the DDN MILNET is provided via a gateway, PSN number 26.17.0.229 and PSN location 56-106, located in building 56. The circuit operates at 10Mbps. The DDN at

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Ft. Bliss can be accessed by the host, a concentrator, a terminal access controller, a gateway, or a PSN.

4.1.1.6.5 Front End Processor/Cluster Controller.

The FEP associated with this host has a channel capacity of two, both of which are being utilized. Channel 1 connects to Host Channel 20 on the host and channel 2 connects to Host Channel 60 on the NCR COMTEN. There are no open ports. New users are added through multidrops off of existing lines, with a resulting degradation of service. ~~Without an upgrade, the current equipment would be unable to support any new, significant requirements.~~

4.1.1.6.6 Host Software.

VM/SP, revision 5, is the operating system used by the host IBM 4381. Applications software running on the host, and not reported earlier, is SQL/DS 2.2 and MMDFII PUMP.

4.1.1.6.7 Host System Facility Equipment.

There is no additional facility equipment associated with the host. The DPI, wherein the host is located, has no UPS. The host system is protected by a halon fire suppression system. The facility housing the host system is shared by a contractor operating AIMS and Unisys operating AUTOROS.

4.1.1.6.8 Floor Space - General Requirements.

Magnetic media floor space storage occupied by the host is 468 sq.ft.

4.1.1.6.9 Continuity of Operations.

There is no COOP.

4.1.1.7 Micro Systems and User Devices.

There is no requirement to identify micro systems owned by the gaining DOIM.

4.1.2 Telecommunications.

4.1.2.1 Telecommunications Center.

The DOIM provides the TCC services, which consist of classified and unclassified GENSER AUTODIN message traffic and classified and unclassified DSSCS message traffic. The DOIM currently has sufficient capacity to accommodate the relocating organization.

4.1.2.1.1 Automated Digital Network.

The AUTODIN circuit information is addressed in Table 4.

Table 4: Ft. Bliss AUTODIN Circuits

SYSTEM	APPLICATION	KBPS	PROTOCOL	CONNECTIVITY
ASEMH/AMS	GENSER	1.2	N/A	Pentagon, Washington, DC
ASSIST	DSSCS	0.6	TCIP	Tinker ASC, Oklahoma
DINAH	GENSER	1.2	N/A	Pentagon, Washington, DC

4.1.2.1.2 Dial Circuits/Modems.

Specifics related to the Ft. Bliss dial circuits/modems are shown in the Table 5.

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Table 5: Ft. Bliss Dial Circuits/Modems

DESCRIPTION	QTY	KBPS	TYPE
Modem/ Motorola/Codex 2440	8	2.4	Dial-in *

\* Dial-in circuits are currently not used due to AUTODIN messages being pumped to the local E-MAIL host (PROFS) for unclassified messages.

4.1.2.1.3 TCC LAN.

The LAN associated with the TCC is a COAX THINNET ethernet using coaxial cable as the transmission medium.

4.1.2.1.4 TCC Monthly Traffic.

The monthly message traffic, to include classified and unclassified narrative messages and classified and unclassified tape messages, are shown in Table 6.

Table 6: Ft. Bliss TCC Monthly Message Traffic

MESSAGE TYPE	TRANSMIT		RECEIVE	
	QUANTITY *	LINE BLOCKS	QUANTITY *	LINE BLOCKS
Narrative (Classified)	120	15,000	5,500	250,000
Narrative (Unclassified)	580	80,000	10,500	550,000
Tape (Classified)	none	none	none	none
Tape (Unclassified)	none	none	none	none

\* Total quantities include GENSER and DSSCS traffic.

4.1.2.1.5 TCC Equipment List.

Table 7 contains the complete list of equipment associated with the TCC.

Table 7: Ft. Bliss TCC Equipment List

DESCRIPTION	QTY	WEIGHT (LBS)		FOOTPRINT (SQ.FT.)		TYPE
		EACH	TOTAL	EACH	TOTAL	
DINAH/EVEREX 3000D	1	100	100	50	50	A
ASSIST/EVEREX 3000D	1	100	100	50	50	A
MOD 40	0	0	0	0	0	
AMS/ASEMH (E-Mail/Host)/AT&T/3B2/600G	1	1000	1000	50	50	A
SRT MART	0	0	0	0	0	
SRT MATE	0	0	0	0	0	
Magnetic tape/Hewlett-Packard	1	50	50	4	4	A
Printer/OTC 2140	1	30	30	6	30	A
Optical character reader	0	0	0	0	0	
FAX	0	0	0	0	0	
Crypto KG-84A	4	15	60	24	96	A
MDT/SAT-R	0	0	0	0	0	
Secure Fax/EASY FAX/9100	1	10	10	10	10	A
ASEMH (E-Mail/Host/ (see AMS)	0	0	0	0	0	
AMD DRCS	0	0	0	0	0	
RIXT	0	0	0	0	0	
WWMCCS	0	0	0	0	0	
FAST	0	0	0	0	0	
SARAH	0	0	0	0	0	
AMHS	0	0	0	0	0	
DISN voice	0	0	0	0	0	

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DESCRIPTION	QTY	WEIGHT (LBS)		FOOTPRINT (SQ.FT.)		TYPE
		EACH	TOTAL	EACH	TOTAL	
TOTAL:	10		1350		290	

TYPE: R=Raised, A=Administrative, F=Facility

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4.1.2.1.6 System Facility Equipment.

Power is provided to the ~~DPT~~ as 3-phase, 120vac at 125KVA and single-phase, 120 vac at 82.5KVA. An Onan model 100.00 generator, which has an auto start capability, provides backup power. UPS is available. The fire suppression system consists of two carbon dioxide fire extinguishers.

4.1.2.1.7 Floor Space - General Requirements.

Media storage (magnetic tapes and disks) floor space covers 50 sq.ft. The vacant floor space, 425 sq.ft., is not raised. There is a DIA-accredited SCIF within the TCC.

4.1.2.2 Defense Data Network.

4.1.2.2.1 DDN Connectivity.

The DDN (MILNET) is accessed over a 56Kbps circuit through a node class A PSN, PSN ID number 229 (located at Ft. Bliss), which access method will terminate 1 October 1995. Replacement access will be via NIPR net directly from the router. There is no connectivity to the DISNET.

4.1.2.2.1.1 Access Controller.

The access controller consists of a terminal access controller, a host FEP, and a gateway. Of the 32 TAC ports, none is available. The gateway has seven high-speed serial ports, eight low-speed serial ports, one RS-449 port, and no ethernet ports.

4.1.2.2.1.2 User Connections.

A list of the DDN (MILNET) connections and their particulars are shown in Table 8.

Table 8: Ft. Bliss DDN User Connections

ADP SYSTEM	RATE	LOCATION
BLISS-EMH1	10Mbps	Bldg. 5800
BLISS-EMH2	9.6Kbps	Bldg. 56A
BLISS-ISM	10Mbps	Bldg. 56 and 106
BLISS-JTF6	9.6Kbps	Bldg. 11603
BLISS-ACIRS	9.6Kbps	Bldg. 12
BLISS-RAPIDS	9.6Kbps	Bldg. 500
BLISS-AMEDD	9.6Kbps	Bldg. 7777
BLISS-TCACCIS	19.2Kbps	Bldg. 504
BLISS-AFMIS	9.6Kbps	Bldg. 1107
BLISS-ACPERS	9.6Kbps	Bldg. 504
BLISS-ENV1	9.6Kbps	Bldg. 1105

4.1.2.2.1.3 Dial Circuits/Modems.

Dial circuit/modems consist of Motorola CODEX 9.6Kbps, 32-port terminal servers. One 16-port terminal server is configured with eight ports at 28.8Kbps for SLIP.

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#### 4.1.2.2.2 DDN Equipment.

The equipment associated with the DDN connectivity is one BBN PSN located in building 56.

#### 4.1.2.3 Defense Information System Network Connectivity.

Ft. Bliss has no DISN connectivity.

#### 4.1.2.4 Army CONUS High Frequency Program.

HF radio assets are available from the MARS station; however, the relocating organization has no HF support requirements.

#### 4.1.2.5 Non-Tactical Radio.

Ft. Bliss is presently in the process of procuring and installing a radio trunking system which operates in the 406-420 MHz band. Fort Bliss will have two repeater sites. One will provide coverage for the main cantonment area, Biggs AAF, Logan Heights, and WBAMC. The other site will provide coverage into the range and maneuver areas. Expansion plans call for connectivity to White Sands Missile Range (WSMR), NM radio trunking repeater sites by mid-1996, which will increase coverage into the remote range areas and onto WSMR. Units and activities at Ft. Bliss will be authorized to operate on the radio trunking system and will be responsible for procuring their own radios. There will be a yearly fee assessed each activity for operation and maintenance of the system. The yearly fee, undetermined at this time, will be based on the number of users and the amount of radio equipment each user has on the net.

#### 4.1.2.6 Worldwide Military Command And Control System.

One WWMCCS terminal (located in the EOC in building 2), consisting of one Zenith Z-248, a printer, and one STU III, supports Ft. Bliss.

#### 4.1.2.7 Administrative Telephone Service.

The ATS at Fort Bliss is provided by the DOIM and the switch is operated and maintained by contract. The switch is a Northern Telecom model SL-100, Revision BCS 29, to be upgraded to BCS 36 and cut over in September 1995. At present the SL-100 has no switch capabilities for ISDN.

##### 4.1.2.7.1 Trunks.

The capacity of the two-way trunks is: 192 in, 169 out, and 96 two-way. The current usage is: 176 in, 167 out, and 86 two-way. There is sufficient floor space, but no equipment, in the telephone exchange to expand to the following capacity: 944 in, 935 out, and 854 two-way.

##### 4.1.2.7.2 Switch Lines.

The current capacity of the switch is 12,032 lines, with 11,614 lines currently in use. Within the current facility, the capacity could be expanded to 15,000 lines. During exercises, the switch is at maximum capability.

##### 4.1.2.7.3 Voice Mail.

The DOIM does not provide voice mail as ATS support.

##### 4.1.2.7.4 Instruments.

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There are 16,450 instruments on single line, 350 on COMSEC (STUIII), 200 on key systems (45) other than Meridian, and 2,000 on Key Meridian. The total instrument count is 19,000, not including extensions. There is a current backlog of 600+ work orders for new service which cannot be met.

4.1.2.7.5 Remote Switch Nodes.

The characteristics and specifics of the remote switch nodes are listed in Table 9.

Table 9: Ft. Bliss Remote Switch Nodes

DESCRIPTION	QTY	TRUNKS		LINES		LOCATION/ AREA
		INTERNODE	OFF-POST	VOICE	SPARE	
NTI RSC	1	8 T1	0	1400	200	BIGGS/BIGGS AAF
NTI RSC	2	16 T1	0	2040	0	WBAMC/WBAMC
NTI RLCM	1	2 T1	0	200	100*	DONA ANNA/DONA ANNA
NTI RLCM	1	2 T1	0	200	100*	ORO GRANDE/ORO GRANDE
NTI RLCM	2	6 T1	0	800**	250*	MCGREGOR/MCGREGOR

\* Switch is at maximum capacity during range activities.  
\*\* Chassis space is available to expand to 1100 lines.

4.1.2.7.6 Cable Plant.

Until a final destination for the relocating organization is known, the impact of the relocation on the cable plant cannot be known.

4.1.2.8 Local Area Networks.

There are no DOIM-supported LANs at Ft. Bliss; LANs are user-supported.

4.1.3 Printing and Publications.

4.1.3.1 Print Plant.

Printing support at Ft. Bliss is provided by the Defense Printing Services (DPS) and commercial contractors. The DOIM department. The DOIM installation printing budget was not available.

4.1.3.2 Print Plant Equipment.

The printing plant at Ft. Bliss is a DPS facility.

4.1.3.3 Forms and Publications.

Building 1101 provides 4,800 sq.ft. of storage space, all of which is in use, for installation forms, regulations, and circulars. Ft. Bliss does not store U.S. Army publications.

4.1.4 Visual Information.

4.1.4.1 Audiovisual Services.

The audiovisual services currently provided are shown in Table 10.

Table 10: Ft. Bliss Audiovisual Services

AUDIOVISUAL SERVICE	QUANTITY PER YEAR
Computer graphics generated B/W	Cannot determine
Computer graphics generated color	Cannot determine

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AUDIOVISUAL SERVICE	QUANTITY PER YEAR
Desktop video	Not applicable
ID photos	Not performed as an audiovisual function
Passport photos	1200
Personnel photos	0
Scanned B/W	Cannot determine
Scanned color	Cannot determine
Studio photos	1800
Viewgraphs	Cannot determine
35mm slides	2400

4.1.4.2 Audiovisual Equipment.

The Fort Bliss DOIM audiovisual equipment library, located in building 769, has an extensive inventory of equipment. Much of the equipment is issued on permanent loan and subsequently transferred to organization property books. Because of this trend, the audiovisual branch/department may be dissolved. At this time, visual equipment such as projectors, cassette, camcorders, etc., are not available.

4.1.4.3 Photographic Equipment.

The photographic studio, located in building 11236, contains the items shown in Table 11.

Table 11: Ft. Bliss Photographic Equipment

DESCRIPTION	QTY	WEIGHT (LBS)		TYPE
		EACH	TOTAL	
B/W print processor/Ilford 2001	1	NA		D
Color film processor/Hope 141	1	NA		D
Color print processor/Hope 193	1	NA		D
Studio camera/Mamiya RB-67	1	NA		D
<b>TOTAL:</b>	<b>4</b>			

TYPE: D=DOIM-owned, O=Organic

4.1.4.4 Video Teleconferencing Systems.

The DOIM has no VTC capability. A state-of-the-art VTC, under the operation and responsibility of the Director of Plans, Training, Mobilization and Security (DPTMS), is available in building 2 at Ft. Bliss. The facility has a head table seating six, stationary seating for 16, and a maximum capacity of 32. There are two overflow rooms. The scheduling procedures, availability, and costs for use are not available. Table 12 portrays the annual usage figures covering FY91-FY94.

Table 12: Ft. Bliss VTC Facility Usage

FY	HOURS	NUMBER OF CONFERENCES	NUMBER IN ATTENDANCE
91	940	436	2,113
92	1,141	658	4,024
93	1,244	681	5,155
94	1,432	824	6,260
<b>AVERAGE:</b>	<b>1,189</b>	<b>650</b>	<b>4,388</b>

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#### 4.1.4.5 Closed Circuit Television.

The DOIM does not provide or support CCTV services at this time.

#### 4.1.4.6 Cable Television.

CATV is currently provided under contract with the Paragon Cable Company.

#### 4.1.5 Records Management.

##### 4.1.5.1 Files Disposition And Retention.

Records holding storage floor space for paper records occupies 3282 sq.ft.; there is no additional space available.

##### 4.1.5.2 Mail Distribution.

###### 4.1.5.2.1 Mailroom services and mailroom location.

The mailroom is located in a room: at the northeast entrance of building: 1733. The annual mailroom services budget is \$240,000. A breakdown of the annual mail volume is provided in Table 13.\*\*\*Unclassified=315,440; Classified=13,000; Third class=76,018 (These data need to be replaced with data that fit Table 13.)\*\*

Table 13: Ft. Bliss Mail Annual Volume by Type

MAIL TYPE	INCOMING	OUTGOING	TOTAL
Accountable	???	???	0
Unaccountable	???	???	0
TOTAL	0	0	0

###### 4.1.5.2.2 Mailroom Equipment.

Table 14 lists the mailroom equipment organic to the DOIM.

Table 14: Ft. Bliss Mailroom Equipment

DESCRIPTION	QTY	WEIGHT (LBS)	
		EACH	TOTAL
PC/ZENITH	4		
PRINTER/ALPS	4		
PC/Unisys	2		
IBM/Laser printer	2		
Meter/Pitney Bowes	1		
Hand truck	3		
TOTAL:	16		0

###### 4.1.5.3 Copiers And Micrographics.

Photocopying services provided through a single vendor contract will be in place by FY96. Currently, the cost-per-copy contract is an ISC fixed price contract which cost \$20,946,836 in FY94. Table 15 lists the DOIM copier and micrographics equipment.

Table 15: Ft. Bliss Copier and Micrographics Equipment List

DESCRIPTION	QTY	WEIGHT (LBS)	
		EACH	TOTAL

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DESCRIPTION	QTY	WEIGHT (LBS)	
		EACH	TOTAL
Copier/Xerox/various	66		
Copier/Savin/various	18		
Copier/Minolta/various	129		
Copier/Canon/various	3		
Copier/Kongas(?) /various	4		
TOTAL:	220		0

4.1.6 Libraries.

The Ft. Bliss DOIM does not provide library support. The library identified in the survey is the United States Army Air Defense Artillery Center (USAADACEN) school library.

4.1.7 Base Realignment and Closure Construction Army.

A decision has not been reached regarding the final destination of the relocating organization; therefore, it is not known whether there is new construction, renovation, or no BRAC-related construction necessary for the relocation.

4.1.8 Special Considerations.

No special renovation requirements have been identified by DPWL at this time. It is expected that building 503 will be the destination of the relocating organization. The following considerations may impact the relocation.

4.1.8.1 Non-Tactical Radio (NTR).

Ft. Bliss is presently in the process of procuring and installing a radio trunking system which operates in the 406-420 MHz band. Fort Bliss will have two repeater sites. One will provide coverage of the main cantonment area, Biggs AAF, Logan Heights, and WBAMC. The other site will provide coverage into the range and maneuver areas. Expansion plans call for connectivity to White Sands Missile Range (WSMR), NM radio trunking repeater sites by mid-1996, which will increase coverage into the remote range areas and onto WSMR. Units and activities at Ft. Bliss will be authorized to operate on the radio trunking system, but will be responsible for procuring their own radios. A yearly fee, based on the number of users and amount of radio equipment each user has on the net, will be assessed each activity for operation and maintenance of the system.

4.1.8.2 Administrative Telephone Services.

The SL-100 telephone switch at Ft. Bliss is at maximum capacity. To ensure adequate telephone support for the relocating organization, a 1,000 line upgrade (which includes the associated hardware and software upgrades) for the Ft. Bliss switch must be procured. The BRAC 95 costs associated with this recommendation are: \$1,200,000 for the upgrade and \$???,???,??? for engineering; total BRAC cost = \$???,???,???

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Weight data incomplete. Need the weight of the processor and any additional equipment that might be part of the system.

5.1.1.6.17 FOGM System.

The cost to pack, and ship the FOGM System is \$990.

This figure may change if there is any additional equipment to be added to this system.

5.1.1.6.18 Klinger System.

The cost to pack, and ship the Klinger System is \$248.

This figure may change if there is any additional equipment to be added to this system.

5.1.1.6.19 Potter System.

The cost to pack, and ship the Potter System is \$248.

This figure may change if there is any additional equipment to be added to this system.

5.1.1.6.20 Hawkeye System.

The cost to pack, and ship the Hawkeye System is \$248.

This figure may change if there is any additional equipment to be added to this system.

5.1.1.6.21 Hotlips System.

The cost to pack, and ship the Hotlips System is \$248.

This figure may change if there is any additional equipment to be added to this system.

5.1.1.6.22 Painless System.

The cost to pack, and ship the Painless System is \$248.

This figure may change if there is any additional equipment to be added to this system.

5.1.1.6.23 Burns System.

The cost to pack, and ship the Burns System is \$248.

This figure may change if there is any additional equipment to be added to this system.

5.1.1.6.24 BJ System.

The cost to pack, and ship the BJ System is \$248.

This figure may change if there is any additional equipment to be added to this system.

5.1.1.6.25 EASE System.

The cost to pack, and ship the EASE System is \$1,073.

5.1.1.6.26 Instrumentation Support System.

The cost to pack, and ship the Instrumentation Support System is \$1,320.

5.1.1.6.27 Dynapath RPS System.

The cost to pack, and ship the Dynapath RPS System is \$132

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The cost to pack, and ship the DEC VAX 8650 System is \$4,580.

5.1.1.6.6 DEC MicroVAX II-B System.

The cost to pack, and ship the DEC MicroVAX II-B System is \$660.

5.1.1.6.7 DEC MicroVAX II-B1 System.

The cost to pack, and ship the DEC MicroVAX II-B1 System is \$660.

5.1.1.6.8 DEC MicroVAX II-A System.

The cost to pack, and ship the DEC MicroVAX II-A System is \$660.

5.1.1.6.9 DEC MicroVAX II-A1 System

The cost to pack, and ship the DEC MicroVAX II-A1 System is \$660.

5.1.1.6.10 CTS-A.

The cost to pack, and ship the CTS-A is \$

weight and floor space requirements not provided.

5.1.1.6.11 CTA-B.

The cost to pack, and ship the CTS-B is \$

5.1.1.6.12 HP 9000/755 System.

The cost to pack, and ship the HP 9000/755 is \$

Weight data incomplete. Need the weight of the processor and any additional equipment that might be part of the system.

5.1.1.6.13 HP 9000/735 System.

The cost to pack, and ship the HP 9000/735 is \$

Weight data incomplete. Need the weight of the processor and any additional equipment that might be part of the system. Also need to calculate in the MTCF data for this system. This is equipment that supports the 9000/735 and 755.

5.1.1.6.14 Swamp System.

The cost to pack, and ship the Swamp System is \$495.

This figure may change if there is any additional equipment to be added to this system.

5.1.1.6.15 Radar System

The cost to pack, and ship the Radar System is \$693.

This figure may change if there is any additional equipment to be added to this system.

5.1.1.6.16 SPARC System.

The cost to pack, and ship the SPARC System is \$

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5.1.1.5.21 Hotlips System.

Recommend the Hotlips System be relocated to Ft. Bliss, TX.

5.1.1.5.22 Painless System.

Recommend the Painless System be relocated to Ft. Bliss, TX.

5.1.1.5.23 Burns System.

Recommend the Burns System be relocated to Ft. Bliss, TX.

5.1.1.5.24 BJ System.

Recommend the BJ System be relocated to Ft. Bliss, TX.

5.1.1.5.25 EASE System.

Recommend the EASE System be relocated to Ft. Bliss, TX.

5.1.1.5.26 Instrumentation Support System.

Recommend the Instrumentation System be relocated to Ft. Bliss, TX.

5.1.1.5.27 Dynapath RPS.

Recommend the Dynapath RPS be relocated to Ft. Bliss, TX.

5.1.1.5.28 RCS.

Recommend the RCS be relocated to Ft. Bliss, TX.

5.1.1.5.29 HP 9000 MDS System.

Recommend the HP 9000 MDS System be relocated to Ft. Bliss, TX.

5.1.1.5.30 PEGASUS System.

Recommend the PEGASUS System be relocated to Ft. Bliss, TX>

5.1.1.6 Systems Information and Equipment List.

The cost of implementation of the recommendations (paragraph 5.1.1.5) made in relation to the disposition of ADPE are detailed in the following subparagraphs.

5.1.1.6.1 Hawk One System.

The cost to pack, and ship the Hawk One System is \$2,970.

This cost may change if more equipment is added to the table.

5.1.1.6.2 Hawk Two System.

The cost to pack, and ship the Hawk Two System is \$3,630.

5.1.1.6.3 VIPS.

The cost to pack, and ship the VIPS is \$2,969.

5.1.1.6.4 DEC VAX 11-780A System.

The cost to pack, and ship the DEC VAX 11-780 is \$14,566.

5.1.1.6.5 DEC VAX 8650 System.

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**5. TECHNICAL SOLUTIONS AND RECOMMENDATIONS.**

This TA/CE provides the technical solutions and recommendations necessary to properly relocate designated BRAC 95 organizations. Technical solutions and recommendations are provided for the TEC, Ft. Hunter Liggett, CA and the DOIM, Ft. Bliss, TX:

**5.1 RECOMMENDATIONS FOR THE TEXCOM EXPERIMENTATION CENTER.**

The TEC is relocating from Ft. Hunter Liggett, CA, to Ft. Bliss, TX. These technical solutions and recommendations are based on a comparison and analysis of the requirements identified in Section III with the baseline IMA capabilities addressed in Section IV.

**5.1.1 Automation.**

**5.1.1.1 Army Standard Information Management Systems.**

The following recommendations, along with the cost of implementation, are made in relation to providing access to the ASIMS after relocation to Ft. Bliss, TX. Access to the ASIMS will remain through the TRADOC DSS located at Ft. Hood. Recommend that current circuits between Ft. Hunter Liggett, CA, and Ft. Hood, TX, be re-terminated between Ft. Bliss, TX, and Ft. Hood, TX. The cost associated with this recommendation are \$2,200.

**5.1.1.2 Standard Army Management Information System.**

The following recommendations, along with the cost of implementation, are made in relation to access to various STAMISs after relocation to Ft. Bliss, TX. Access to the various STAMISs will remain via the dedicated circuits to Ft. Hood, TX. The cost of swinging these circuits is addressed in paragraph 5.1.1.1, above. No additional cost is specifically associated with providing the TEC with access to STAMISs. 9.6

**5.1.1.3 Installation Support Modules.**

There is no requirement for the TEC to access ISMs.

**5.1.1.4 Information Center.**

The following recommendations, along with the cost of implementation, are made in relation to the IC. The TEC provides information center support internally. In addition, IC services are also available from the DOIM at Ft. Bliss, TX. No BRAC costs are associated with providing these services.

**5.1.1.5 Automated Data Processing Systems.**

The following recommendations, along with the cost of implementation, are made in relation to the ADPE.

**5.1.1.5.1 Hawk One System.** Recommend the Hawk One System be relocated to Ft. Bliss, TX.

**5.1.1.5.2 Hawk Two System.**

Recommend the Hawk Two System be relocated to Ft. Bliss, TX.

**5.1.1.5.3 Visual Information Processing System.**

Recommend the VIPS be relocated to Ft. Bliss, TX.

**5.1.1.5.4 DEC VAX-11/780A System.**

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Since this system is not currently in use, recommend the DEC VAX-11/780 System be excessed and turned in at Fort Hunter Liggett.

5.1.1.5.5 DEC VAX 8650 System

Recommend the DEC VAX 8650 System be relocated to Ft. Bliss, TX.

5.1.1.5.6 DEC MicroVAX II-B System.

Recommend the DEC MicroVAX II-B System be relocated to Ft. Bliss, TX.

5.1.1.5.7 DEC MicroVAX II-B1 System.

Recommend the DEC MicroVAX II-B1 System be relocated to Ft. Bliss, TX.

5.1.1.5.8 DEC MicroVAX II-A System.

Recommend the DEC MicroVAX II-A System be relocated to Ft. Bliss, TX.

5.1.1.5.9 DEC MicroVAX II-A1 System.

Recommend the DEC MicroVAX II-A1 System be relocated to Ft. Bliss, TX.

5.1.1.5.10 CTS-A.

Recommend the CTS-A be relocated to Ft. Bliss.

5.1.1.5.11 CTS-B.

Recommend the CTS-B be relocated to Ft. Bliss, TX.

5.1.1.5.12 HP 9000/755 System.

Recommend the HP 9000/755 System be relocated to Ft. Bliss, TX.

5.1.1.5.13 HP 9000/735 System.

Recommend the HP 9000/735 System be relocated to Ft. Bliss, TX.

5.1.1.5.14 Swamp System.

Recommend the Swamp System be relocated to Ft. Bliss, TX.

5.1.1.5.15 Radar System.

Recommend the Radar System be relocated to Ft. Bliss, TX.

5.1.1.5.16 SPARC System.

Recommend the SPARC System be relocated to Ft. Bliss, TX.

5.1.1.5.17 FOGM System.

Recommend the FOGM System be relocated to Ft. Bliss, TX.

5.1.1.5.18 Klinger System.

Recommend the Klinger System be relocated to Ft. Bliss, TX.

5.1.1.5.19 Potter System.

Recommend the Potter System be relocated to Ft. Bliss, TX.

5.1.1.5.20 Hawkeye System.

Recommend the Hawkeye System be relocated to Ft. Bliss, TX.

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5.1.1.6.28 Remote Countdown System.

The cost to pack, and ship the Remote Countdown System is \$333

5.1.1.6.29 HP 9000 MDS System.

The cost to pack, and ship the HP 9000 MDS System is \$3,003

5.1.1.6.30 PEGASUS System.

The cost to pack, and ship the PEGASUS System is \$233.

5.1.1.7 Connectivity.

The following recommendations, along with the cost of implementation, are made in relation to the ADPE connectivity. This connectivity is currently obtained via the TRADOC DSS at Headquarters, TEXCOM, Ft. Hood, TX. Recommend the retermination of the 9.6 and 19.2 Kbps circuits interconnecting Ft. Hunter Liggett with Ft. Hood, TX to interconnection between Ft. Bliss, TX and Ft Hood, TX. Costs associated with this retermination are shown in paragraph 5.1.1.2

5.1.1.8 Defense Data Network.

The following recommendations, along with the cost of implementation, are made in relation to the user ADPE interface with DDN. Recommend access to DDN be provided via the Ft. Bliss, TX, Army Gateway. The cost for providing this access is ?????.

~~5.1.1.9 Front End Processor/Cluster Controller.~~

~~The following recommendations, along with the cost of implementation, are made in relation to the FEP and/or CC supporting user ADPE.~~

Need to get data on what the FEP goes with. Also need data on weight.

5.1.1.10 Software.

The following recommendations, along with the cost of implementation, are made in relation to the software running on user ADPE. Recommend the software presently installed on the systems described in paragraph 5.1.1.5 be relocated to Ft. Bliss, TX. The cost of moving software documentation is considered under libraries.

~~5.1.1.11 System Facility Equipment.~~

~~The following recommendations, along with the cost of implementation, are made in relation to the system facility equipment associated with ADPE.~~

Need additional data from the TEC regarding systems facilities equipment to be relocated.

5.1.1.12 Floor Space - General Requirements.

The following recommendations, along with the cost of implementation, are made in relation to the floor space requirements associated with ADPE.

Detail the requirements outlined in the second package that state space and special considerations for a mag tape library and secured storage area.

5.1.1.13 Continuity of Operations.

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The TEC has no requirements for COOP or parallel processing, therefore there are no recommendations nor costs associated with this area.

5.1.1.14 The following recommendations, along with the cost of implementation, are made in relation to the disposition of micro systems and user devices. Recommend relocation of micro systems and user devices to Ft. Bliss. The cost associated with this relocation is \$2,787.

5.1.2 Telecommunications.

5.1.2.1 Telecommunications Center.

The following recommendations, along with the cost of implementation, are made in relation to providing TCC support to the TEC. Based on information obtained from the losing and gaining DOIMs, there will be little impact on the gaining DOIM's TCC. The workload can be absorbed by the gaining TCC at no additional cost.

5.1.2.2 Defense Data Network.

The following recommendations, along with the cost of implementation, are made in relation to providing a DDN interface to the tenant. Recommend that the TEC access the DDN via the Army Gateway at Ft. Bliss, TX. The cost associated with this action is reported ~~under paragraph 5.1.1.8.~~ *AS NO COST*

Need data on if there are costs associated with rehomeing DDN access via dial up to a TAC or DDN Gateway.

5.1.2.3 Defense Information System Network Connectivity.

The following recommendations, along with the ~~cost~~ of implementation, are made in relation to providing a DISN interface to the tenant. Recommend providing a DISN ~~interface to the TEC at Ft. Bliss, TX.~~ *NO REQUIREMENT*

5.1.2.4 Army Conus High Frequency Program.

The TEC has no requirement for HF radio support, nor do they own any HF equipment. There are no costs associated with this area.

5.1.2.5 Non-Tactical Radio.

The following recommendations, along with the cost of implementation, are made in relation to NTR. Recommend the NTR equipment be relocated to Ft. Bliss, TX. The cost associated with this relocation is \$5,377.

5.1.2.6 Worldwide Military Command And Control System.

The TEC has no requirements for WWMCCS. There are no costs associated with this area.

5.1.2.7 Administrative Telephone Service.

The following recommendations, along with the cost of implementation, are made in relation to ATS.

5.1.2.7.1 The main telephone switch at Ft. Bliss is at capacity. Because of the TEC's requirements for administrative telephone service, recommend a thousand line upgrade to the SL-100 switch. The cost of upgrading the switch is \$1.2 million.

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Juan Garcia of the Ft. Bliss DOIM stated that they had an estimate of \$1.2 million to upgrade.

5.1.2.7.2 The TEC currently has 230 single line instruments that must be deinstalled by the DOIM at Ft. Hunter Liggett. In addition, there are six key systems with six lines each that must also be deinstalled. The cost associated with this deinstallation is \$3,535.

5.1.2.8 Local Area Network.

The following recommendations, along with the cost of implementation, are made in relation to LANs. Relocate the TEC-owned LAN components to Ft. Bliss, TX. The cost of ing, packing, and shipping the LAN components is \$7,416..

5.1.2.9 Communication Security.

The following recommendations, along with the cost of implementation, are made in relation to the user's COMSEC. Recommend relocating the TEC's STU III secure telephones at a cost of \$356.

5.1.3 Printing and Publications.

5.1.3.1 Print Plant.

The following recommendations, along with the cost of implementation, are made in relation to print plant operations. The TEC will be able to obtain print plant and publications services from the on-post print plant at Ft. Bliss. The point of contact from the print plant stated that it could absorb the workload without impact and that the TEC could establish an account. There are no BRAC related costs associated with this recommendation.

5.1.3.2 Forms and Publications.

The TEC has minimal requirements for storage of forms and publications. There are no BRAC related costs associated with forms and publications.

5.1.4 Visual Information.

5.1.4.1 Audiovisual Services.

The following recommendations, along with the cost of implementation, are made in relation to audiovisual services. Recommend the TEC obtain required audio visual services from the TASC at Ft. Bliss. There are no BRAC related costs associated with obtaining services from the TASC.

5.1.4.2 Audiovisual Equipment.

The following recommendations, along with the cost of implementation, are made in relation to the disposition of audiovisual equipment. Recommend the relocation of TEC-owned audio visual equipment to Ft. Bliss, TX. The cost associated with packing and shipping audio visual equipment is \$16,094. This weight to be shipped will increase by the weight of several equipment racks. If this pushes the weight over 5,000 pounds, shipping costs will decrease significantly.

5.1.4.3 Photographic Equipment.

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The TEC has no requirement for photographic equipment. There are no BRAC related costs associated with photographic equipment.

**5.1.4.4 Video Teleconferencing Systems.**

The TEC is scheduled to receive a desktop video capability in July 1995. No information was available concerning the system. Recommend that the system be relocated to Ft. Bliss, TX. The costs associated with the video teleconferencing system will include packing and shipping (not presently determinable) and the cost of reterminating a dedicated circuit. The circuit will be installed between Ft. Hunter Liggett, CA, and Alexandria, VA, and must be reinstalled between Ft. Bliss, TX, and Alexandria, VA. Retermination costs are \$\$11,244

**5.1.4.5 Closed Circuit Television.**

The following recommendations, along with the cost of implementation, are made in relation to CCTV. Recommend relocation to Ft. Bliss TX, of the camera and monitor associated with the surveillance of the entrance gate of "Computer Hill". The cost associated with relocating this equipment is included in the cost of relocating audio visual equipment ~~in paragraph 5.1.4.2~~ *NO COST*

**5.1.4.6 Cable Television.**

Recommend the installation of one CATV connection in the Test Computer Branch office at Ft. Bliss. The cost associated with installing a CATV outlet is \$ Need the cost of installing CATV service.

**5.1.5 Records Management.**

**5.1.5.1 File Disposition And Retention.**

The following recommendations, along with the cost of implementation, are made in relation to the disposition and retention of files. Approximately 10,700 pounds of files will be transferred to Ft. Bliss, including paper, audio tapes, and video tapes. The cost of packing and shipping these records is \$4,815.

**5.1.5.2 Mail Distribution.**

The following recommendations, along with the cost of implementation, are made in relation to the distribution of mail. Recommend the TEC obtain mail services from the DOIM at Ft. Bliss, TX. The present mail room will be able to absorb the workload on a reimbursable basis. There are no BRAC related costs associated with this recommendation.

**5.1.5.3 Copiers/Micrographics.**

Recommend relocating the TEC-owned Copier and micrographics equipment to Ft. Bliss, TX. The cost associated with this recommendation is \$3,722

**5.1.6 Libraries.**

The following recommendations, along with the cost of implementation, are made in relation to the disposition of libraries. Recommend relocating the TEC libraries to Ft. Bliss. Costs are provided by library.

**5.1.6.1 Magnetic tape library and secured vault.**

The cost of relocating this library is \$4,219.

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5.1.6.2 Technical Documentation Center Library.  
The cost of relocating this library is \$11,250.

5.1.6.3 Test Computer Branch Library.  
The cost of relocating this library is \$4,950.

5.1.6.4 LAN Software Library.  
The cost of relocating this library is \$4,422.

5.1.7 Base Realignment and Closure Construction Army.

~~There are no BCA projects identified with the relocation of the TEC to Ft. Bliss, TX.~~

5.1.8 Special Considerations.

The following recommendations, along with the cost of implementation, are made in relation to special considerations associated with relocating the TEC to Ft. Bliss, TX.

5.1.8.1 Costs Related to Trailer Pads.  
To be determined.

5.1.8.2 Costs to Modify Radios.  
The costs to modify the radios used with the Range Measurement System and telemetry systems are detailed below.

a. A/B/D units. The cost to modify 100 A/B/D units is approximately \$2 million.

b. Micro A and B units. Micro A and B units cannot be modified and would have to be replaced. The cost of replacing 246 units is \$9.4 million.

Need to get with Lemont about what to plan and cost for the trailer pads on main post and the range camps.

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## 6.1 COSTING DATA.

The BRAC costs for the relocation of the TEC from Ft. Hunter Liggett, CA, to Ft. Bliss, TX, are discussed below and listed in Table 1.

### 6.1.1 BASE REALIGNMENT AND CLOSURE CONSTRUCTION COSTING DATA.

The total BCA IS DA Forms 1391 and 5259-R costs for the TEC relocating to Ft. Bliss, TX: \$ ???

### 6.1.2 INFORMATION SYSTEM RELOCATION COSTS.

The total BRAC costs for relocation of Information Systems from Ft. Hunter Liggett, CA, to Ft. Bliss, TX: \$ ???

### 6.1.3 RECOMMENDED UPGRADE COSTING DATA.

The total BRAC IMA upgrade costs for the TEC relocating to Ft. Bliss, TX: \$ ???.

### 6.1.4 INFORMATION MISSION AREA SYSTEM ENGINEERING COSTING DATA.

The total BRAC IMA Systems Engineering costs for relocating the TEC's IS to Ft. Bliss, TX: \$ ???.

### 6.1.5 BASE REALIGNMENT AND CLOSURE TOTAL COSTS.

The total BRAC IMA costs for relocating the TEC to Ft. Bliss, TX: \$ ???

\*\*

Table 1 : BRAC 95 Cost Summary

TA/CE REFERENCE	DESCRIPTION	IMA CONF *	DMA TURN IN/ RELOCATION	OPA PROCURE/ UPGRADE	IMA ENGINEER **	AMOUNT
5.X.1	AUTOMATION					
5.X.1.1	ASIMS/SISOCS		✓			\$2,200
5.X.1.2	STAMIS/SDS/CCSS					0
5.X.1.3	Installation Support Modules					0
5.X.1.4	Information Center					0
5.X.1.5	ADP Systems		✓			0
5.X.1.6	ADPE					\$41,363
5.X.1.7	Connectivity					?
5.X.1.8	Defense Data Network					?
5.X.1.9	FEPs/CCs					?
5.X.1.10	Software					?
5.X.1.11	System Facility Equipment					?
5.X.1.12	Floor Space					?
5.X.1.13	Continuity of Operations Plan					?
5.X.1.14	Micro Systems and User Devices		✓			\$2,787
	Sub-total					\$46,350
5.X.2	TELECOMMUNICATIONS					0
5.X.2.1	Telecommunications Center					0
5.X.2.2	Defense Data Network					?
5.X.2.3	DISN Connectivity					?
5.X.2.4	Army CONUS High Frequency					0
5.X.2.5	Non-tactical Radio		✓			\$5,377
5.X.2.6	WWMCCS					0
5.X.2.7	Administrative Telephone Services			✓		\$1,203,535
5.X.2.8	Local Area Network		✓			\$7,416

→ +500,000 FOR SDN  
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**7. SPECIAL CONSIDERATIONS.**

**7.1 SPECIAL CONSIDERATIONS FOR TEC, FORT HUNTER LIGGETT.**

This section contains the special considerations for relocation of the TEC to Fort Bliss, TX.

**7.1.1 Central LAN Resources and LAN Support Requirements.**

**7.1.1.1 Central LAN Resources.**

7.1.1.1.1 Central LAN resources currently occupy approximately 90 square feet of dedicated floor space in Building 241, not including access area. The majority of this equipment is installed in 19-inch racks that are six feet high. It is estimated that 2,600 pounds of equipment are located in this area. A 7.5 kva ups currently supports the central LAN resources.

**7.1.1.1.2 LAN Resources - Building 207.**

The LAN equipment in building 207 requires 22 square feet of floor space, not including access area. The majority of this equipment is installed in three 19-inch racks that are six feet high. It is estimated that 900 pounds of equipment are located in this area. A 2.5 KVA UPS with internal battery is located adjacent to these racks.

**7.1.1.1.3 LAN Resources - Building T-169.**

The LAN equipment located in building T-169 requires 65 square feet of floor space, not including access area. An estimated 400 pounds of equipment are included. The test file servers, tape backup station, the LAN CD-ROM towers, the system management station, and two .85KVA UPS are included in this equipment.

7.1.1.1.4 LAN Classroom. The LAN classroom currently has facilities for 12 students and an instructor. It contains 13 386-25 or 386SX-16 computers, and a first generation HP LaserJet printer and a low resolution, large screen monitor. The PCs are installed on individual workstation furniture units. The TEC feels that it is economically desirable to upgrade the equipment in this facility, including modular workstation units wired for LAN connectivity, rather than move it. Additional classroom accouterments should include a rear projection screen; remote-controlled color projector with input for VCR, PC, and TV; a multimedia presentation PC; and an electronic copyboard (GSA GS-26F-6131B).

**7.1.1.2 Bench Stock and Spare Parts.**

Storage for LAN test equipment, spare parts, and installation tools requires 230 square feet. Parts for instrumentation computer systems requires an additional 500 cubic feet (1,000 pounds). An additional 520 square feet of space is used for PC repair, as well as storage for spare parts and maintenance float equipment. This includes approximately 3,500 pounds of equipment and parts.

**7.1.1.3 Briefing Room/Auditorium.**

The briefing room/auditorium should include the following accouterments: rear projection screen; remote-controlled color projector with input for PC, VCR, and TV; a

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remote-controlled multimedia presentation PC; and an electronic copyboard (GSA GS-26F-6131B)

7.1.1.4 Range Measurement System and other Communications Systems.

THE TEC's systems include a Range Measurement System (RMS.), a tactical communications array, a Global Positioning System (GPS) Differential Broadcast System, and a separate telemetry system. To assist in the planning process, the following information is provided.

7.1.1.4.1 The RMS array backbone operates at a frequency of 918 MHz. The heart of the system (C-Station and trailer) are intended to be located at Elephant Mountain. The C-Station trailer needs to be connected to three other MTEC trailers either via microwave or fiber optic links. Fiber optics is preferred. Potential sites for the three trailers are; Oro Grande Range, Camp vicinity 13SCF920855; Dona Ana Range Camp, vicinity 13SCF580578; and McGregor Range Camp, vicinity 13SCF898494. The RMS uses relay sites to transmit player data back to the C-Station. These relay stations will be tentatively located at the following locations in an attempt to create a "permanent" instrument play area.

Site	13SCF Grid Designator	Site	13SCF Grid Designator	Site	13SCF Grid Designator
R36	74245846	R10	19587722	R18	58566529
R37	90715578	R35	14175906	R23	60907940
R04	79878297	R06	97637021	R28	77885401
R09	80867335	R07	85216954	R30	97799762
R02	70826091	R08	89328237	R32	97355379
R03	89666129	R11	81189781	R34	58415426
R10	19587722	R12	70636960	BASE	92368440
R01	11477777	R14	72688257	A/B/D	94798989
R05	03258880	R17	67309579		

At each of these sites, the following actions need to be accomplished.

- a. An area leveled for a radius of 16 feet from the grid coordinate.
- b. Shrubs and brush removed for a radius of 30 feet from the grid coordinate.
- c. Install a concrete slab with minimum dimensions of 12' x 8' x 4" for placement of the RMS package. This may not be possible at sites designated A/B/D.
- d. Install concrete slab for an antenna tower. The base plate will be set in a concrete slab with a minimum dimension of 54" x 24" x 12", adjacent to the slab referred to in c. above. Drawing available upon request.
- e. Install ground anchors and guy wire anchors for antenna towers. Three anchors per tower are required. Drawing available upon request.
- f. Install ground rods and/or a grounding system for each site. Insure lightning protection is included for each site.

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g. Install a 50 foot tower assembly at each site where accessible by ground vehicle. These towers must include aviation safety lighting.

h. Install prime power (120/240VAC) to each site where accessible by ground vehicle.

7.1.1.4.2 The communications array is intended to be located at Elephant Mountain, as well. This array consists of up to 12 simplex tactical radio nets and ten duplex VHF administrative nets. The array provides tactical communications from the test control cell to the test controllers and players in the field. This equipment also provides administrative control of the test through hand held Motorola radios. Frequencies are listed in paragraph 3.1.2.5.1 and 3.1.2.5.2. The communications array is housed in three trailers which must be interconnected to the other MTEC trailers mentioned above via either a microwave radio or fiber optic link. Fiber optic is preferred.

7.1.1.4.3 The GPS works on a rebroadcast principle. This system uses a base station located at a surveyed point to compute a differential correction solution. The surveyed point should also be located on Elephant Mountain, with remote sites collocated with RMS remote sites. The rebroadcast is accomplished on 139.425 Mhz.

7.1.1.4.4 The telemetry system is a spread spectrum system operating from 902 to 928 MHz. It has an approximate bandwidth of 8 MHz. The center frequencies of the four channels are 906, 912, 918, and 924 MHz. It has an output of one watt.

7.1.1.4.5 Other site considerations.

a. At Elephant Mountain, there is a requirement for a minimum of 15 telephone lines.

b. In the trailers in the range base camps (Oro Grande, Dona Ana, and McGregor), there is a requirement for a minimum of 30 telephone lines.

c. At all locations with trailers, the area must be prepared and improved to allow level parking of trailers in all weather conditions. Hardtop is preferred.

d. The facilities at the base camps require controlled access up to and including the SECRET level, i.e. fencing and lighting criteria for SECRET level processing.

e. At a separate location within the base camp, there must be facilities for parking an additional 20 to 25 other trailers. This area must also be improved to allow level parking under all weather conditions.

f. Each trailer pad and RMS site pad must be served by appropriate power, telephone, and fiber optic cables.

7.1.1.5 Other Factors Which Could Increase Costs.

a. If 918 MHz is not available for TEC use at Ft. Bliss, then the possibility exists to modify the A/B/D packages to 435 MHz. SSL is currently inquiring about the feasibility from SAIC. Cost is expected to be \$2 million to modify 100 A/B/D units. If 435 MHz is not available, the alternative is a modification of the A/B/D units to

FT HUNTER LIGGETT {SECTION - 7} FOR OFFICIAL USE ONLY

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operate at 980 MHz. The cost to modify 100 units to this frequency is somewhat less than \$2 million. If 980 MHz is not available, a new telemetry system would have to be found. Cost of this has not been determined.

b. The Micro A and B packages are not convertible and would have to be replaced with A/B/D units. The cost for replacing 246 micro A and B units is \$9.4 million. whether at 435 or 980 MHz.

c. An undetermined hidden cost could be associated with the placement of the RMS array. Placement of sites was accomplished strictly through the use of the Network Planners Terminal using the Defense Mapping Agency Digitized Terrain Elevation Data and without an on-the-ground reconnaissance. Sites may have to be adjusted or added once an on-the-ground reconnaissance and actual coverage testing is accomplished.

**DRAFT**

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ANNEX H  
Financial Management Action Plan

1. Base funding and one time recurring costs required to execute action are included for the following Budget activity descriptions:

Budget Code	Description	Status
20	Family Housing	NA
23	Operations	NA
30	Operation and Maintenance	NA
31	Civilian Severance pay	\$ 100.0K* <i>1.2K</i>
32	Civilian PCS	\$1,300.0M* <i>4600</i>
33	Transportation of Things	\$ 576.7K <i>4600</i>
34	Real Property Maintenance	NA
35	Program Management (summary of 36-39)	\$ 122.4K*
36	Historical Preservation & Cultural Resources	NA
39	Other items not covered	(See total)
	1-Contractor Personnel move	\$3,400.0M
	2-HET Transportation	\$ 122.4K
	3-Printing	\$ 3.0K*
39 Total		\$3,525.4M
50	Other procurement above \$25K	NA
60	Environmental Restoration (summary of 61-62)	NA
61	Restoration	NA
62	Management of Environmental Restoration	NA

2. Justification for each budget code follows:

31. TEC is projected to have 25 civilians authorized and on board under this action. Of the 25, it is estimated that 5 will separate with severance pay entitlements. Severance pay entitlements are estimated at \$20K per employee for a total estimated cost of \$100K.

32. TEC is planning to relocate 20 civilians to Fort Bliss. Relocation costs, including DARSE, are estimated at \$65K per employee for a total estimated PCS cost of \$1.3M.

33. Transportation of things is estimated at \$576,700.00. Detail is contained in Annex D.

\*\*This document was provided to us by a staff person from TEC at Fort Hunter Liggett. This document was being worked at the staff level to compile cost of moving to Ft. Bliss.

①

35. Summary cost total (35 thru 39) is \$3,525,400.00. This includes:

a. HET Transportation costs:	\$ 122,400.00
b. Contractor personnel PCS costs:	\$3,400,000.00
c. Printing:	\$ 3,000.00
Total:	3,525,400.00

39. Other costs include those items as listed above.

a. These costs (\$122,400K) are necessary in the absence of a Heavy Equipment Transport (HET) capability at Fort Bliss and will be required from the date TEC becomes fully operational through FY 2000.

b. TEC is planning to transport 10 M1A1 tanks, 5 M3's, and two M88 Recovery vehicles for testing two times per year.

c. Estimated round trip cost per vehicle (twice per year) is \$1.2K for a total annual estimated cost of \$40.8K. Annual costs include fiscal years 98, 99, and 2000 for a total recurring cost of \$122,400.00.

3. Other Annex costs:

a. Annex A:	NA	
b. Annex B:	NA	
c. Annex C:	NA	
d. Annex D:	\$ 576,700.00	TRANSPORTATION OF EQUIP & INST
e. Annex E:	\$5,670,000.00	SLIP RENOVATION & CONSTRUCTION
f. Annex F:	NA	
g. Annex G:	NA	
h. Annex H:	\$ 100,000.00	(Severance Pay)
	\$1,300,000.00	(CIV PCS)
	\$ 122,400.00	(HET transportation)
	\$3,400,000.00	(Contractor personnel PCS)
	\$ 3,000.00	(printing)

Total: \$4,925,400.00

- i. Annex I: NA
- j. Annex J: NA
- k. Annex K: NA

Total costs: \$11,172,100.00. (d + e + h total)

Received Jun 9, 1995  
 SSA Jack  
 (Col. (Capt) USA



\*\*This was prepared by our military value expert Red Walkley. It is a comparison of original Army cobra numbers, the TEC Annex A-K information and the Ft. Ritchie draft report.

ANNEX A-K  
↑

<u>COBRA CATEGORIES - ONE TIME COSTS.</u>	<u>COBRA</u>	<u>TEC</u>	<u>FT RITCHIE</u>
CONSTRUCTION			
MILITARY CONSTRUCTION*	0	5,670,000	NA
<u>TOTAL CONSTRUCTION</u>	<u>0</u>	<u>5,670,000</u>	NA
PERSONNEL			
CIVILIAN RIF	89,696	100,000	NA
CIV EARLY RET	37,528		NA
CIV NEW HIRES	32,161		NA
ELIMINATED MIL PCS	77,983		NA
UNEMPLOYMENT	15,660		NA
<u>TOTAL PERSONNEL</u>	<u>252,758</u>	<u>100,000</u>	NA
OVERHEAD			
PROGRAM PLANNING SPT	1,406,713	122,400	NA
MOTHBALL SHUTDOWN	912,500		NA
<u>TOTAL OVERHEAD</u>	<u>2,319,213</u>	<u>122,400</u>	NA
MOVING			
CIVILIAN MOVING	1,682,500	1,300,000	NA
CIV PPS	57,600		NA
MILITARY MOVING	1,845,507		NA
FREIGHT	123,357		NA
ONE-TIME MOVING COSTS	0	576,000	NA
<u>TOTAL MOVING</u>	<u>3,708,965</u>	<u>1,876,000</u>	NA
OTHER			
HAP/RSE	204,682		NA
<u>TOTAL OTHER</u>	<u>204,682</u>		NA
<u>TOTAL</u>	<u>6,485,619</u>	<u>7,768,400</u>	NA

\*AND RENOVATION.

NOT CONSIDERED IN COBRA

INFORMATION MISSION AREA	0	NA	<del>24,623,750</del> 13,223,750
CONTRACTOR PERSONNEL MOVE	0	3,400,000	NA
HET TRANSPORTATION	0	122,400	NA
PRINTING	0	3,000	NA
<u>GRAND TOTAL</u>	<u>6,485,619</u>	<u>11,293,800</u>	<u>24,623,750</u>
(MINUS COBRA/TEC DUPLICATION OF \$1,522,400)			
<u>TOTAL ONE TIME COSTS</u>	<u>= \$40,880,769.00</u>	<u>\$22,995,150</u>	

COBRA MODEL PROJECTS \$6,485,619.00 ONE-TIME COSTS.  
 TEC PROJECTS \$11,293,800.00 OF WHICH \$1,522,400.00 DUPLICATES  
 COBRA DATA LEAVING \$9,771,400.00 NEW ONE-TIME COSTS.  
 PORT RITCHIE, MARYLAND TECHNICAL ASSESSMENT/COST ESTIMATE OF  
 THE INFORMATION MANAGEMENT AREA PROJECTS (\$24,623,750.) NEW  
 ONE-TIME COSTS. 13,223,750  
 THE GRAND TOTAL ONE-TIME COSTS AS PROGRAMMED BY COBRA, PROJECTED  
 BY TEC AND THE FT. RITCHIE COST ESTIMATE FOR INFORMATION MANAGEMENT  
 IS ~~\$40,880,769.00~~. THIS IS ~~\$34,395,150.00~~ MORE THAN CONTAINED IN  
 THE COBRA ANALYSIS. \$22,995,150

4 29,480,769

**HIGHLIGHTS**  
**COBRA ANALYSIS -- FORT HUNTER LIGGETT**

**FINDINGS**

In the COBRA analysis submitted with the DoD recommendation, the DA presented the following results:

One-time costs of \$6.694 million.  
A net present value of \$ -67.619 million in 2015.  
A return on investment achieved in 1 year.

Correcting flaws and shortcomings in the scenario and the data, the Community COBRA analysis reached the following results:

One-time costs of \$20.567 million  
a net present value of \$ 18.526 million in 2015.  
A return on investment achieved in "100+" years.

With accurate data, the twenty-year savings **do not** equal the one-time costs. Therefore, the DA and the DoD **substantially deviated** from BRAC Criteria 5 in submitting their recommendations.

**SCENARIO**

**General**

Fort Hunter Liggett is a training, testing, and experimentation installation subordinate to the US Army Reserve Command. It contains:

- A small garrison element to maintain the installation and to support Reserve Component units rotating onto the installation for routine field training.
- An element of the US Army Test and Experimentation Command (TEC) as the only tenant.

**Department of the Army**

The DA scenario anticipates:

- **Closure** of Fort Hunter Liggett but the retention of all ranges and training land for Reserve Component training.
- Movement of the TEC element to Fort Bliss.
- Movement of other tenant activities "Base X."
- Elimination of positions pertaining to the garrison despite retention of the ranges and training land.

## Community

The Community scenario accurately anticipates:

- **Realigning** Fort Hunter Liggett by moving the TEC element to Fort Bliss.
- Retaining the garrison to maintain the ranges and training land.
- Deleting "Base X" because there aren't any tenant activities to be moved.

The key differences between DA and Community scenarios stem from the:

- Costs associated with accommodating the TEC element at Fort Bliss.
- Numbers of personnel
  - Actually assigned to Fort Hunter Liggett today.
  - Programmed to be assigned to the installation in FY 1998.

## **STANDARD FACTORS FILE**

### Department of the Army

The values contained in SF7DEC.SFF are not entirely applicable to the scenario; correction of the "standard factors" file was both appropriate and necessary.

### Community

The Community adjusted certain personnel and facility standard factors. In particular:

- Officer and civilian salaries were changed to reflect actual averages at Fort Hunter Liggett.
- Similar changes were made for the officer and enlisted married rates.
- The DA data for both quarters allowances and the unemployment compensation eligibility period was corrected.
- The rehabilitation cost was adjusted upward to reflect conversion of typical administrative/operational facilities into highly-specialized testing and experimentation laboratories.

The Community changes did not significantly affect the outcome. Combining the community data file with the DA "standard factors" file produced the same result -- an ROI of 100+ years.

## DATA FILE

### Department of the Army

#### STATIC BASE INFORMATION

- The DA erroneously assumes that the personnel strength consists of 43 officers, 444 enlisted personnel, and 224 civilian employees. Of these:

The TEC element -- to be moved to Fort Bliss -- is reported as consisting of 32 officers, 312 enlisted personnel, and 40 civilian employees.

Elements being moved to "Base X" are reported as containing 4 officers, 104 enlisted personnel, and 33 civilian employees.

A total of 5 officer, 16 enlisted, and 6 civilian positions are to be eliminated.

The disposition of the remaining 2 officer, 12 enlisted, and 145 civilian positions is not made clear! However, the extra civilian positions may be an inappropriate inclusion of some or all of the non-Federal employees of the TEC element's civilian contractor.

- Erroneous data was used concerning the percentage of military personnel who could be accommodated in married quarters at Fort Hunter Liggett and concerning VHA rates (which last were reported to be lower than they actually are).
- Each specific element of the DA's data concerning base operations costs at Fort Hunter Liggett -- totalling \$10.648 million -- was equally in error.

#### DYNAMIC BASE INFORMATION

- The DA envisaged closing all 730,000 square feet of facilities despite the continued retention of the ranges that are included in this total.
- No facilities were provided at Fort Bliss. Fort Bliss likely contains excess capacity but it **does not** currently have the 50,000 square feet of highly-specialized test and experimentation laboratories required for the TEC element's mission performance.
- The costs to reprogram TEC instrumentation to preclude frequency interference at Fort Bliss are missing entirely.
- The DA did not attempt to calculate the costs of moving the TEC element's equipment to Fort Bliss. These missing costs will increase the one-time costs, reduce the total savings, and extend the ROI year.

### Community

#### STATIC BASE INFORMATION

- No entries for Fort Bliss were changed.

- The Community used accurate data concerning Fort Hunter Liggett's strength both today and in 1998. Significant force structure changes that are **independent of the BRAC process** are due to occur between the two dates. Herein:

Fort Hunter Liggett's total actual manpower in 1995 is 38 officers, 319 enlisted personnel, and 238 civilian employees. Of this strength:

The garrison contains 2 officers, 13 enlisted personnel, and 142 civilian employees.

The minor tenants account for a total of 2 officers, 13 enlisted personnel, and 14 civilian employees.

The TEC element today contains 34 officers, 293 enlisted personnel, and 82 civilian employees.

Force structure changes **that have already been programmed** will decrease the TEC element's manpower authorization by 4 officers, 142 enlisted personnel, and 57 civilian employees in FYs 1996 and 1997.

By 1998, the TEC element will consist of only 30 officers, 151 enlisted personnel, and 25 civilian employees in FY 1998. Only this number would be moved to Fort Bliss.

- The Community also corrected the data entries for base operations support costs at Fort Hunter Liggett. Based on FY 1995 budget execution, these total \$14.258 million instead of the \$10.648 million reported by the DA.

#### DYNAMIC BASE INFORMATION

- The DA envisages continued use as a training center so the Community analysis closes only the 100,000 square feet of facilities occupied today by the TEC element. About half of this space pertains to the TEC element's unique test and experimentation laboratories.
- The Community analysis adds:
  - A one-time cost of \$10 million to accommodate the necessary replacement or reprogramming of the TEC instrumentation to enable it to perform in the Fort Bliss environment.
  - "Miscellaneous recurring costs" at Fort Bliss to account for base operations support for the TEC element above the level automatically provided by the COBRA model.
  - A construction cost of \$7.437 million at Fort Bliss to upgrade 50,000 square feet of space currently assumed to be available to render it suitable for the TEC element's unique test and experimentation laboratories.
- As did the DA, the Community did not calculate the cost of moving most of the TEC element's equipment but it did capture the costs associated with moving the TEC element's nine M1A1 Abrams tanks and five M2A1 Bradley infantry fighting vehicles.

## CONCLUSIONS

In developing its return on investment analysis, the DA:

- Used inaccurate manpower data -- to include a total strength at Fort Hunter Liggett assumed to be far larger than it actually is.
- Failed to accommodate programmed force structure changes for the TEC element that have nothing to do with the BRAC process.
- Failed to accommodate the continued operation of Fort Hunter Liggett as a Reserve Component training area
- Failed to provide for the mission essential costs -- instrumentation reprogramming and laboratory facilities -- that must be borne at Fort Bliss to enable the TEC element to perform its mission at that location. It makes no sense to move the element if it can't perform once moved.

The Community analysis merely rectified these errors.

Instead of a one-year ROI, the real answer is that is no return on investment within the BRAC parameters. For this reason, **the DoD recommendation represents a substantial deviation from BRAC Criteria 5.**

**TECHNICAL REPORT  
COBRA ANALYSIS -- FORT HUNTER LIGGETT**

**INTRODUCTION**

The Cost of Base Realignment Actions (COBRA) computer model is the approved and authorized device used to develop return on investment (ROI) analysis necessary to address BRAC Criteria 5. The model requires entry of two discrete sets of data -- a data file and a "standard factors" file.

The data files are straight-forward -- each containing the specific closure or realignment scenario and data unique to each of the bases involved in that scenario. The only issue is whether or not the data used by the DoD in a data file is, in fact, accurate. However, the "standard factors" files are less straight-forward.

Despite the fact that the COBRA model was developed under contract for the Defense Department (DoD), the "standard factors" file is the subject of considerable misunderstanding within the DoD and its subordinate elements. Its components are interpreted as common to the entire DoD or to one of the military departments or agencies. Instead, as prescribed on page 67 in the *COBRA User's Manual*, these factors should be developed **independently** for each scenario. By way of illustration:

One input included in the "standard factor" file is the percentage of civilian personnel who, if their positions are eliminated, will get new Federal jobs under the Priority Placement System. The figure is important because severance (RIF) payments need not be paid to those employees receiving new jobs. Here, the DoD directed that the figure of 60 percent will be used throughout the Department. However, the number actually varies significantly depending on the types of jobs involved. For example, the civilian foreign language instructors at the Defense Language Institute (DLI) are members of a Schedule A Civil Service because they generally are not US citizens. Therefore, they are ineligible for placement within the Competitive Civil Service even if sufficient additional "foreign language instructor" positions existed elsewhere in the Federal Government. For any scenario involving closing or realigning the Institute, then, the appropriate figure for this entry would be in the range of 0 - 10 percent.

For the foregoing reasons, the Community did not hesitate to adjust the "standard factors" file as well as the data file pertaining to the Department of the Army (DA) recommendation to close Fort Hunter Liggett.

**FINDINGS**

It should be noted that the Community analysis contained herein focuses completely on the return on investment; it makes no attempt to assess the military value of the recommended realignment.

In the COBRA analysis submitted with the DoD recommendation, the DA presented the following results:

- One-time costs of \$ 6.694 million.
- A net present value of \$ -67.619 million in 2015.
- A return on investment achieved in 1 year.

The Community COBRA analysis found that, through flaws and shortcomings both in the basic scenario and in the data collection, the DA seriously underestimated the one-time costs and overestimated the twenty-year savings. With more time to acquire accurate data, the Community reached the following results:

One-time costs of \$20.567 million  
A net present value of \$ 18.526 million in 2015.  
A return on investment of "100+" years."

As discussed below, the Community found that the savings **do not** equal the one-time costs. Therefore, if the Community analysis is accurate, the DA and the DoD **substantially deviated** from BRAC Criteria 5 in submitting their recommendations.

The DA COBRA analysis (MT5-2.CBR / SF7DEC.SFF) and the Community COBRA analysis (FHL6.CBR / FHL3.SFF) are enclosed hereto in both hard copy and computer disc formats. Also enclosed is a COBRA summary report in hard copy showing the results of mingling the Community data file with the DA "standard factors" file (FHL6.CBR / SF7DEC.SFF).

## SCENARIO

### General

Fort Hunter Liggett is a training, testing, and experimentation installation subordinate to the US Army Reserve Command. As such, it contains a small garrison element to maintain the installation and to support Reserve Component units rotating onto the installation for routine field training. However, the largest single organization on the installation is a tenant activity -- an element of the US Army Test and Experimentation Command (TEC).

As a small installation (in terms of staffing and facilities rather than in terms of real estate), Fort Hunter Liggett's *per capita* support costs are relatively high. The DA not unreasonably assumed that the costs of supporting the TEC element might be reduced by moving it and capitalizing on the economies of scale achievable at a larger installation. Moving the TEC element to Fort Bliss, then, is the basis for the DA recommendation.

### Department of the Army

The DA scenario anticipates the **closure** of Fort Hunter Liggett but the retention of all ranges and training land for Reserve Component training. The TEC element is to be moved to Fort Bliss and other tenant activities are to be moved to "Base X" -- a generic set of data pertaining to an installation yet to be determined. The civilian and military positions supporting the garrison are to be eliminated and the civilian personnel in those positions are to be separated. All of these actions are to occur in Fiscal Year (FY) 1998.

In that the DA intends to retain the ranges and land to support Reserve Component training, its recommendation is actually for **realignment** rather than for **closure** -- which calls into play different algorithms in the COBRA model. Furthermore, other than the TEC element, the tenant activities at Fort Hunter Liggett are very small -- so small that they are more than covered by the DA recommended billet eliminations. Finally, because there is no change to the US Army Reserve Command mission, retention of a garrison to maintain the installation and to support Reserve Component units undergoing training is essential.



## Community

The Community scenario accurately anticipates the **realignment** of Fort Hunter Liggett by moving the TEC element to Fort Bliss and leaving the garrison in place. There are no tenant activities to be moved so the Community scenario deletes "Base X" from the consideration as unnecessary. Since the garrison remains and since all remaining civilian personnel not assigned to the TEC element actually pertain to the garrison, no separations are involved.

The key differences that enable the variance between DA and Community scenarios stem from the costs necessary to accommodate the TEC element at Fort Bliss as well as the number of personnel both actually assigned to Fort Hunter Liggett today and programmed to be assigned to the installation in FY 1998, the year in which movement is to take place. These are discussed below.

## STANDARD FACTORS FILE

### General

Each "standard factors" file consists of inputs organized into four discrete components, individually covering personnel, facilities, transportation, and construction. As noted above, the COBRA model was designed to use a unique standard factors file with each particular scenario.

### Department of the Army

The "standard factors" file (SF7DEC.SFF) used by the DA for the Fort Hunter Liggett scenario was by the Department for all other recommendations submitted during the BRAC 95 process. As a result, the values it contains are not entirely applicable to the scenario involved in the proposed Fort Hunter Liggett realignment. As an example, it uses the DoD-wide assumption that separated personnel will be eligible for only 18 weeks of unemployment compensation whereas the standard in most states -- including California -- is 26 weeks of eligibility. As another illustration, the average officer salary used (\$67,948 per year) pertains to the very unaverage rank of lieutenant colonel (pay grade O5).

For these reasons, correction of the "standard factors" file was both appropriate and necessary.

### Community

In each instance where the Community validated the DA entries or could not develop independent data, its analysis used the DA data contained in the SF7DEC.SFF "standard factor" file. However, the Community made certain adjustments in certain of the personnel and facility standard factors.

Within the personnel category, the officer and civilian salaries were reduced and the enlisted salaries were increased to reflect actual averages at Fort Hunter Liggett. Similar changes were made for the officer and enlisted married rates. The DA data for both quarters allowances and the unemployment compensation eligibility period was corrected.

Within the facilities category, the rehabilitation cost was adjusted upward to reflect the realities of the rehabilitation required under the Fort Hunter Liggett realignment scenario. Herein, accommodation of the TEC element at Fort Bliss will require the conversion of typical administrative/operational facilities into highly-specialized testing and experimentation laboratories.

The components of the transportation and construction segments of the "standard factors" file were not changed from the DA inputs.

Despite the Community changes, as demonstrated by the summary report combining the Community data file and the DA "standard factor" file, the Community's "standard factor" input changes did not significantly affect the outcome -- the ROI year changed from "100+" years to "never."

## DATA FILE

### General

Whereas the "standard factors" file is designed to contain data common to all bases within a specific scenario, the data file contains the data that is unique to each of the bases. The data file contains static base information (information assumed to remain relatively constant), dynamic base information (that changes during the scenario), information regarding personnel force structure changes, and information regarding construction required by the scenario.

### Department of the Army

#### STATIC BASE INFORMATION

The DA scenario is based on the assumption that Fort Hunter Liggett's personnel strength consists of 43 officers, 444 enlisted personnel, and 224 civilian employees. Of these:

The TEC element -- to be moved to Fort Bliss -- is reported as consisting of 32 officers, 312 enlisted personnel, and 40 civilian employees.

Elements being moved to "Base X" are reported as containing 4 officers, 104 enlisted personnel, and 33 civilian employees.

A total of 5 officer, 16 enlisted, and 6 civilian positions are to be eliminated.

The disposition of the remaining 2 officer, 12 enlisted, and 145 civilian positions is not made clear -- which means that they remain at Fort Hunter Liggett.

The DA entered erroneous data concerning the percentage of military personnel who could be accommodated in married quarters at Fort Hunter Liggett -- arguing that less than half could be accommodated in married quarters. It also used erroneous VHA rates -- rates that were reported to be lower than they actually are!

Each specific element of the DA's data concerning base operations costs at Fort Hunter Liggett -- totalling \$10.648 million -- was equally in error.

#### DYNAMIC BASE INFORMATION

Despite the projected continued use of Fort Hunter Liggett by US Army Reserve Command as a Reserve Component training area, and despite the continued retention of ranges cited in its scenario summary, the DA analysis envisaged closing all 730,000 square feet of facilities (to include the ranges) at the installation. Thus, the mechanisms -- and the costs associated with those mechanisms -- for supporting continued Reserve Component training are not transparent.

Although facilities pertaining to the TEC element were closed at Fort Hunter Liggett, none were provided at Fort Bliss. An assumption appears to have been made that Fort Bliss has the necessary excess capacity to provide the 100,000 square feet required to house the TEC element's operational and support requirements. If so, the assumption is probably accurate. However, it is not likely that Fort Bliss currently has the necessary 50,000 square feet of highly-specialized test and experimentation laboratories required for the TEC element's mission performance.

There is known frequency interference at Fort Bliss that will require either replacing or reprogramming **all** of the TEC instrumentation provided the element is moved to that location. These very significant costs are missing entirely from the DA analysis.

The DA did not attempt to calculate the costs of moving the TEC element's equipment to Fort Bliss. These missing costs will increase the one-time costs, reduce the total savings, and extend the ROI year.

### Community

In each instance where the Community validated the DA inputs or could not develop independent data, its analysis used the DA data contained in the MT5-2.CBR data file.

#### STATIC BASE INFORMATION

The Community did not change any of the DA entries for Fort Bliss.

With regard to Fort Hunter Liggett, the Community data is that pertaining to the actual size today -- as modified by programmed force structure changes that are **independent of the BRAC process**. Herein:

Fort Hunter Liggett's actual 1995 manpower is 38 officers, 319 enlisted personnel, and 238 civilian employees.

Of the current installation strength:

The TEC element contains 34 officers, 293 enlisted personnel, and 82 civilian employees.

The garrison contains 2 officers, 13 enlisted personnel, and 142 civilian employees.

The minor tenants account for a total of 2 officers and 13 enlisted personnel and 14 civilian personnel.

In FYs 1996 and 1997 -- before the planned realignment in FY 1998 -- force structure changes **that have already been programmed** will decrease the TEC element's manpower authorization by 4 officers, 142 enlisted personnel, and 57 civilian employees. As a result, the TEC element will consist of only 30 officers, 151 enlisted personnel, and 25 civilian employees in FY 1998. Only this number would be moved to Fort Bliss.

The Community corrected data concerning the number of military personnel that can be accommodated in married quarters at Fort Hunter Liggett. Sufficient married quarters currently exist at the installation to accommodate **all** married military personnel pertaining to the garrison and to the TEC element, sized as it will be in FY 1998. This change, incidently, renders null the

difference between reported VHA rates at Fort Bliss and corrected (higher) VHA rates at Fort Hunter Liggett.

The Community also corrected the data entries for base operations support costs at Fort Hunter Liggett. Based on FY 1995 budget execution, these are considerably higher -- totalling \$14.258 million instead of \$10.648 million -- than reported by the DA.

#### DYNAMIC BASE INFORMATION

The DA scenario envisages Fort Hunter Liggett remaining in active use as a Reserve Component training center. As a result, the Community analysis closes only the 100,000 square feet of facilities that are actually occupied today by the TEC element. Roughly half of this space pertains to administrative and support functions while the other half, about 50,000 square feet, pertains to the TEC element's unique test and experimentation laboratories.

The Community added a one-time cost of \$10 million to accommodate the necessary replacement or reprogramming of the TEC instrumentation to enable it to perform in the Fort Bliss environment. This figure was developed based on an estimated cost of \$40 thousand for each of 250 units; without it, the TEC element will simply be unable to perform its mission after transfer to Fort Bliss. This, then, is a mission-essential cost.

To account for the fact that the TEC element will require a higher level of base operations support than would the typical administrative element, the Community analysis adds "miscellaneous recurring costs" at Fort Bliss to cover these increased base operations expenses.

The Community analysis also adds a construction cost of \$7.437 million at Fort Bliss to upgrade 50,000 square feet of space currently assumed to be available to render it suitable for the TEC element's unique test and experimentation laboratories.

The Community joined the DA in not attempting to calculate the cost of moving most of the TEC element's equipment to Fort Bliss. Again, it should be stressed that these missing costs will increase the one-time costs, reduce the total savings, and extend the ROI year. The Community analysis did, however, capture the costs associated with moving the TEC element's nine M1A1 Abrams tanks and five M2A1 Bradley infantry fighting vehicles from Fort Hunter Liggett to Fort Bliss.

#### CONCLUSIONS

It must be stressed again that this report focuses only on the return on investment issues, ignoring the more important military value issues associated with the DoD recommendation to move the TEC element from Fort Hunter Liggett to Fort Bliss.

In developing its return on investment analysis, the DA began with data that was inaccurate -- including a total installation strength at Fort Hunter Liggett assumed to be far larger than it actually is. It then failed to accommodate programmed force structure changes for the TEC element that have nothing to do with the BRAC process. The DA analysis next failed to accommodate the continued operation of Fort Hunter Liggett as a Reserve Component training area and it failed to provide for the mission essential costs -- instrumentation reprogramming and laboratory facilities -- that must be borne at Fort Bliss to enable the TEC element to perform its mission at that location. It makes no sense to move the element if it can't perform once moved. The Community analysis merely rectified these errors.

Instead of a one-year ROI, the real answer is that is no return on investment within the BRAC parameters. For this reason, **the DoD recommendation represents a substantial deviation from BRAC Criteria 5.**

## UNIQUE TESTING CAPABILITIES -- FORT HUNTER LIGGETT, CA

### I. Unique Testing performed at Fort Hunter Liggett

- A. Real Time Casualty Assessment (RTCA) Experiments
  - "Force-on-force"
  - Realistic war games [opposing forces with conflicting objectives]
  - Require wide variety of terrain to test, evaluate and critique advanced weapons systems under all conditions
- B. Systems tested at FHL under RTCA
  - Apache helicopter                      -- Marine Corps light armored vehicle
  - Kiowa scout helicopter                -- M1A2 tank
  - Javelin missile                            -- TOW missile
  - Sgt. York air defense gun              -- ADATB air defense missile
  - Apache Longbow
- C. Systems scheduled to be tested
  - Mobile Automated Instrumentation System (MAIS)
  - Comanche helicopter

### II. Why FHL is ideal environment for RTCA experiments

- A. Synergy between TEC and FHL
- B. **Complete** spectrum of testing terrains
  - Mountains                                -- Valleys
  - Hills                                        -- Desert
  - Forest
- C. Digitized terrain [within one meter accuracy]
- D. Exceptional civilian technology support
- E. "Laser-safe" bowl [360 degrees]

### III. Advantages of RTCA experiments at FHL

- A. *Sgt. York Air Defense Gun*
  - 1. Tested originally at Fort Bliss; results were quite positive
    - Army unsatisfied with "uncluttered" terrain at Ft. Bliss
    - Ordered additional testing at FHL
  - 2. FHL provided realistic, cluttered terrain to navigate
    - Sgt. York radar could not successfully find and engage the enemy aircraft
    - Army rescinded buy order; savings of \$3B in taxpayer dollars!!
- B. *Apache Longbow*
  - 1. Originally scheduled at Ft. Bliss
    - Bliss could not accommodate requirements [terrain, airspace, laser safety]
  - 2. Rescheduled at FHL without performance restrictions applicable to Bliss
- C. *Army Future Testing Needs*
  - 1. Mobile Automated Instrumentation System
    - FHL only environment for valid baseline study
  - 2. Comanche helicopter
    - "Nap-of-the-Earth" (NOE) flying is essential -- in a desert??
    - FHL only environment for full potential testing

### IV. Result

Army has already designated FHL as testing site for future weapon systems even if TEC is relocated to Bliss. Without TEC, the premiere, proven testing environment at FHL is ineffective. FHL saves taxpayer dollars and accurately assesses the merits of DoD weapons systems!

DIRECTORATE OF RESOURCE MANAGEMENT  
FORT BLISS, TEXAS



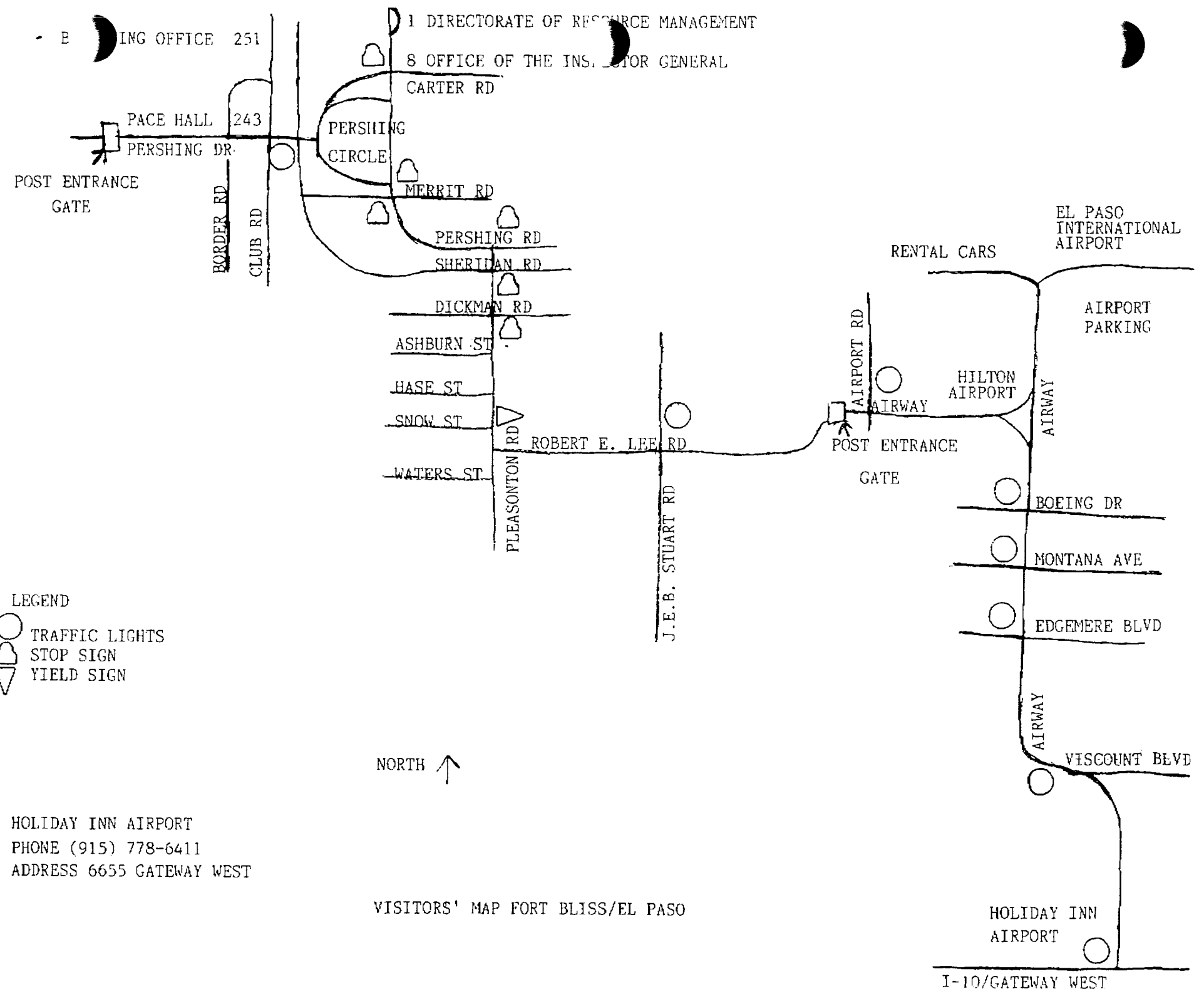
FACSIMILE TRANSMITTAL HEADER SHEET  
FOR UNCLASSIFIED TRANSMISSION ONLY

COMMAND		NAME/OFFICE SYMBOL		TELEPHONE NUMBER
FROM: Fort Bliss TRADOC		Janice Murphy AT2C-DRM-T		568-7109
TO: BRAC COMMISSION		LTC Bailey		226-0550
CLASSIFICATION 4	# OF PAGES 6 • HEADER	PRECEDENCE IP	REMARKS: Per your Request	
DATE-TIME 10:0950	MONTH 4	YEAR 95	AUTHORIZED RELEASER'S SIGNATURE Tony Moraga	
3M 2110 Facsimile Machine Location: Building 1, Room 206 Telephone Numbers: DSN 978-4766/Commercial (916) 688-4766				

915 588 4765 P.06

DIR OF RESOURCE MNGT

APR-10-1995 08:55



LEGEND

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- ◻ STOP SIGN
- ◄ YIELD SIGN

NORTH ↑

HOLIDAY INN AIRPORT  
 PHONE (915) 778-6411  
 ADDRESS 6655 GATEWAY WEST

VISITORS' MAP FORT BLISS/EL PASO

I-10/GATEWAY WEST



BRAC 95 ON-SITE VISIT  
11 APR 95

TIME	TEAM MEMBER(S)	LOCATION	POC	SUBJECT
0800-0815	VISITORS	DRM CONF ROOM, BLDG 1	MRS. GORDON	
0815-0830	ALL	ROOM 188, BLDG 2	FORT BLISS (COL FEUGE)  FORSCOM (MS. LUNDEEN)  TEXCOM HQs (MAJ MAGNANTI)  TEC (MR. NASH)  TRADOC HQs (MR. LEDERLE)	CMD BRIEFING  BACKGROUND/PLANNING TIMELINE  MOVEMENT PLANS/ STRUCTURE  TEC REQUIREMENTS  ENVIRONMENTAL
1130-1300	OPEN LUNCH			
1300-1500	VISITORS		FORT BLISS (MR. LITZAU)	FACILITIES TOUR

915 568 4765 P.01

DIR OF RESOURCE MNGT

APR-10-1995 08:53

BRAC 95 ON-SITE VISIT  
11 APR 95

TIME	TEAM MEMBER(S)	LOCATION	POC	SUBJECT
1500-1630		DRM CONF RM, BLDG 1		
	BREAK INTO GROUPS FOR FUNCTIONAL AREA DISCUSSIONS.			
	TEC (MSG BENNETT)		FORT BLISS (MRS. CHILTON) (MR. KEMP)	DEVELOPMENT OF 1391s
	TEXCOM HQs (MAJ REDDEN) (MR. NASH) (MSG BENNETT)		FORT BLISS (MAJ SOARES) (MS. SLANE) (COL KRUG) (LTC LUND) (MR. HALL)	COMMUNICATIONS/ INFO MGT/ FIELD INSTRUMENTATION
	TEC (MR. LUTZ)		FORT BLISS (MR. ELSEMORE) (MS. SERENO) (MR. CRAWFORD) (MR. LIMON) (MR. EDWARDS)	MANPOWER/ PERSONNEL/ FINANCIAL MANAGEMENT
	TRADOC (MR. LEDERLE)		FORT BLISS (MR. LANDRETH)	ENVIRONMENTAL

915 568 4765 P.02

DIR OF RESOUCE MNGT

APR-10-1995 08:53

BRAC 95 ON-SITE VISIT  
12 APR 95

TIME	TEAM MEMBER(S)	LOCATION	POC	SUBJECT
0800-1030	ALL	BLDG 2, ROOM 190B	BRAC COMM (LTC BAILEY)	REALIGNMENT OF TEC
1030-1130	VISITORS	BLDG 2, ROOM 190B	FORSCOM HQs TEXCOM HQs TEC TRADOC HQs FORT BLISS	WRAP-UP
1300-1500	ADDITIONAL WORK SESSIONS MAY BE SCHEDULED (AS TRAVEL PLANS ALLOW).			

915 568 4765 P.03

DIR OF RESOURCE MNGT

APR-10-1995 08:54

BRAC 95 C. SITE VISIT  
 TEC MOVE TO FORT BLISS

<u>LOCATION</u>	<u>FAX DSN</u>	<u>E-MAIL</u>	<u>DSN PHONE NO.</u>
<b>FORSCOM HQs:</b>			
Doris Lundeen	367-7040	LundeenD@FtMcpHsn-emh1.army.mil	367-6325
<b>TRADOC HQs:</b>			
Tom Lederle	680-4374	LederleT@Monroe-emh1.army.mil	680-3907
<b>TEXCOM HQs:</b>			
Major Magnanti	738-1253	TXH2015@TEXCOM-emh1.army.mil	738-0899
Jack Robinson	738-1263	TXH2530@TEXCOM-emh1.army.mil	738-1372
<b>FORT HUNTER LIGGETT:</b>			
COL Jackson	686-2734	Cah2001%Tex3@TEXCOM-emh1.army.mil	686-2101
LTC Holman	686-2492	Cah2002%Tex3@TEXCOM-emh1.army.mil	686-2101
Major Redden	686-2492	Cah2702%Tex3@TEXCOM-emh1.army.mil	686-2416
MSG Bennett	686-2621	Cah2959%Tex3@TEXCOM-emh1.army.mil	686-3058
Darrell Nash	686-2492	Cah2201%Tex3@TEXCOM-emh1.army.mil	686-2711
Ray Lutz	686-2621	Cah2102%Tex3@TEXCOM-emh1.army.mil	686-2623
LTC McNerney	686-2011	Cah5000%Tex3@TEXCOM-emh1.army.mil	686-2505
<b>FORT McCOY:</b>			
COL Miller	280-4168	Millerh@McCoy-emh1.army.mil	280-3815

915 568 4765 P.04

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08:54

HPR-10-1995

BRAC 95 ON-SITE VISIT  
TEC MOVE TO FORT BLISS

<u>LOCATION</u>	<u>FAX DSN</u>	<u>E-MAIL</u>	<u>DSN PHONE NO.</u>
<b>BRAC COMMISSION:</b>			
LTC Bailey	226-0550	N/A	226-0504
<b>FORT BLISS:</b>			
Carol Gordon	978-4765	GordonC@Bliss-emhl.army.mil	978-3997
Janice Murphy	978-4765	MurphyJ@Bliss-emhl.army.mil	978-7109
Rose Goughnour	978-4765	GoughnR@Bliss-emhl.army.mil	978-5260

915 568 4765 P.05

DIR OF RESOUCE MNGT

APR-10-1995 08:54

## BRAC 95 MEETING

## ATTENEDEES

<u>NAME</u>	<u>ORGANIZATION</u>	<u>DSN/PHONE#</u>
✓COL Dennis Feuge	DRM	978-3997/2204
✓COL Mike Jackson	CDR, TEC	686-2114/2983
✓COL Gault, Jeffrey W.	GARR CDR, FT BLISS	978/568-2833
✓COL Miller	FT MCCOY	280-3815
✓LTC McNerney	FHL	686-2505
✓MAJ Steven J Reddin	CXB, TEC	686-2308
✓MAJ Luigi Magnanti	TEXCOM	738-0899
✓MAJ N. Wesley Kimata	BIGGS ARMY AIRFIELD	978-8242
CPT Baker	1ST CAS BN	979-9240/9241
Tom Heesch	MAD DRM/FT MCCOY	(608)388-5178
✓Veronica Sereno	DRM, PBD	978-1026
✓Tom Elsemore	DRM, CRSD	978-5267
✓Steve Soares	DOIM	978-6788
✓Linda Slane	DOIM	978-6788
✓Darrell R. Nash	DOC, TEC	686-2711
✓Raymond M. Lutz	RMO, TEC	686-2623/2113
✓Jose M. Limon	CPO, FT BLISS	978-2508/6232
✓Kathy Schriener	FT BLISS, Safety Office	978-2510
Nicholas Losey	→ ADATD	978-4351
Ramon Martinez Jr	→ ADATD	978-5500
✓George J. Hernandez	DPWL-Master Planning	978-2768/7316
✓Reginald K. Bennett	DOIT, TEC FHL	686-3058
✓David Edmonds	DRM-MMEDD	568-5824
✓Mary E. Furbee	DRM-PROG & BUDGET	978/568-5257
✓C. D. Young	AG	978-3301/3302
✓Dan Pace	DPWL LOGISTICS	978-5401
✓Rudy Rivera	PLANS & OPNS, DPWL	978-2907
Kevin von Finger	DOE, FT BLISS	978-7031/7930
Wilson D. Roach	1ST CAS BN S-3 SCHEB	979-9280/9491
Dave Hall	DPTMS/G3	FAX 9557
✓Jack Robinson	TEXCOM, LSD	978-2193 (TELEFAX)
✓Patricia Chilton, P.E.	FT BLISS, DPWL	738-1372
✓Jim Litzau	FT BLISS, DPWL	978-7316/2753
✓Carol Gordon	FT BLISS, DRM	978-5953
✓Doris Lundeen	FORSCOM BRACO	978-3997
✓Janice Murphy	DRM, FT BLISS	367-6325
Rose Goughnour	DRM, FT BLISS	978-7109
		978-5260

LTC Bagley's Copy

THE DEFENSE BASE OPERATIONS AND REALIGNMENT COMMISSION

EXECUTIVE CORRESPONDENCE TR

FILE #	FARE, SAM
TITLE	REP. (CA)
ORGANIZATION:	

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we party.

U.S. CONGRESS

INSTALLATION IS DISCUSSED: FOR THUNDER L16 FT

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51# 950414

OFFICE OF THE CHAIRMAN	FTI	ACTION	INT
CHAIRMAN DEON	FTI	ACTION	INT
COMMISSION MEMBERS	FTI	ACTION	INT

COMMISSIONER CORNELIA	✓		
COMMISSIONER COX	✓		
COMMISSIONER DAVIS	✓		
COMMISSIONER KING			
COMMISSIONER KONTORA	+		
COMMISSIONER ROBLES			
COMMISSIONER STEELE	✓		
REVIEW AND ANALYSIS			

DIRECTOR OF R & A	✓		
ADJUTANT GENERAL	✓		
NAVY TEAM LEADER	✓		
AIR FORCE TEAM LEADER	✓		
INTERAGENCY TEAM LEADER	✓		
CROSS SERVICE TEAM LEADER	✓		
BRIEFING BRANCH	✓		

TYPE OF ACTION REQUIRED

Prepare Reply for Chairman's Signature	Prepare Reply for Chairman's Signature
Prepare Reply for Staff Director's Signature	Prepare Reply for Staff Director's Signature
ACTION: Offer Comments and/or Suggestions	FTI

INVITING Comm. STEELE TO LUNCH FROM AFTER HER TOUR OF POST.

950418  
950414  
950414

SAM FARR  
17TH DISTRICT, CALIFORNIA

1117 LONGWORTH BUILDING  
WASHINGTON, DC 20515-0517  
(202) 225-2861

COMMITTEE ON AGRICULTURE  
SUBCOMMITTEES  
DEPARTMENT OPERATIONS, NUTRITION  
AND FOREIGN AGRICULTURE  
RISK MANAGEMENT AND SPECIALTY CROPS

Congress of the United States  
House of Representatives  
Washington, DC 20515-0517

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100 WEST ALVARADO  
SALINAS, CA 93901  
(408) 424-2229  
701 OCEAN STREET  
ROOM 318  
SANTA CRUZ, CA 95060  
(408) 429-1970

COMMITTEE ON RESOURCES  
SUBCOMMITTEES  
FISHERIES, WILDLIFE AND OCEANS  
WATER AND POWER RESOURCES

April 14, 1995

The Honorable Wendi Steele  
Commissioner  
Base Closure & Realignment  
Commission  
1700 N. Moore St., Suite 1425  
Arlington, Virginia 22209

Dear Commissioner Steele:

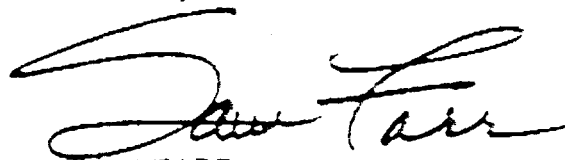
The community looks forward to the opportunity to brief you on the value of retaining the Test & Experimentation Center at Fort Hunter Liggett during your April 26, 1995 visit.

On behalf of the community, I would like to invite you to have lunch with the Fort Hunter Liggett Task Force and community leaders immediately following your tour of the base. A barbecue will be coordinated by the local service organizations in the community at the base.

I understand the constraints of your busy schedule, however, I hope you will be able to attend the luncheon. We would be pleased to accommodate you in any way we can, and look forward to your upcoming visit. Please contact Dave Borden of my Washington staff to let me know if you can attend.

Thank you for your time and consideration. I look forward to welcoming you to Fort Hunter Liggett.

Sincerely,



SAM FARR  
Member of Congress

SF:db

*I hope to see  
you there!*



LTC Bailey's Copy

THE DEFENSE BASE CLOSURE AND REALIGNMENT COMMISSION

EXECUTIVE CORRESPONDENCE TRACKING SYSTEM (ECTS) #

950414-11

FROM: FARR, SAM	TO: DIXON
TITLE: REP. (CA)	TITLE: CHAIRMAN
ORGANIZATION: U.S. CONGRESS	ORGANIZATION: DBRC
INSTALLATION (S) DISCUSSED: FORT HUNTER LIGGETT	

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

TYPE OF ACTION REQUIRED

Ⓢ Prepare Reply for Chairman's Signature		Prepare Reply for Commissioner's Signature
Prepare Reply for Staff Director's Signature		Prepare Direct Response
X ACTION: Offer Comments and/or Suggestions	✓	FYI

Subject/Remarks:

SUBMITTING QUESTIONS TO BE ASKED TO MR PHIL COYLE AT APRIL 17 HEARING.

Date:	Routing Date:	Date Originated:	Mail Date:
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INVT -

Letter to Commissioner Steele

w/ Attachment

RE: APRIL 17 HEARING

Letter to CHAIRMAN DIXON

PLEASE MAKE A COPY OF THIS FAX FOR LCOL STEVE BAILEY

MESSAGE

Please call to confirm transmission if checked here:

NUMBER OF PAGES (including cover sheet) 4

DATE: 4/14/95

FROM: DAVE BORDEN

TO: TIM SCHUFREIDER

Congress of the United States  
House of Representatives  
Washington, DC 20515-0517

SAM FARM  
17th DISTRICT, CALIFORNIA  
COMMITTEE ON AGRICULTURE  
SUBCOMMITTEE  
ON FOREST AND RANGELAND  
MANAGEMENT AND SPECIAL CROPS  
COMMITTEE ON RESOURCES  
SUBCOMMITTEE  
ON FOREST AND RANGELAND  
MANAGEMENT AND SPECIAL CROPS

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SANTA ANA, CA 92701  
(408) 429-2278  
791 OCEAN STREET  
ROOM 318  
SANTA ANA, CA 92704  
(408) 429-2178

SAM FARR  
17TH DISTRICT, CALIFORNIA

## COMMITTEE ON AGRICULTURE

## SUBCOMMITTEES:

DEPARTMENT OPERATIONS, NUTRITION  
AND FOREIGN AGRICULTURE  
RISK MANAGEMENT AND SPECIALTY CROPS

## COMMITTEE ON RESOURCES

## SUBCOMMITTEES:

FISHERIES, WILDLIFE AND OCEANS  
WATER AND POWER RESOURCES

Congress of the United States  
House of Representatives

Washington, DC 20515-0517

April 14, 1995

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SALINAS, CA 93901  
(408) 424-2229

701 OCEAN STREET  
ROOM 318  
SANTA CRUZ, CA 95060  
(408) 429-1976

The Honorable Alan Dixon  
Chairman  
Base Closure And Realignment  
Commission  
1700 N. Moore St., Suite 1425  
Arlington, Virginia 22209

Please refer to this number  
when responding 950414-11

Dear Mr. Chairman:

I am writing at this time to request the Base Closure and Realignment Commission to ask the following questions to Mr. Phil Coyle, Director of DoD Operational Test and Evaluation during the April 17, 1995 investigative hearing. I believe all of these questions are critical to developing an understanding of the potential impacts realigning the Test and Experimentation Center at Fort Hunter Liggett to Fort Bliss may have on DoD's ability to carry out the operational phase of testing.

1. As the person responsible for operational testing in DoD, you state in your February 10, 1995 memorandum to the Assistant Secretary of Defense for Economic Security (Economic Reinvestment & BRAC) that the recommendation to realign Fort Hunter Liggett is a "showstopper." Please explain.
2. We understand that there are conditions at Fort Hunter Liggett which enhance it as a site for performing operational testing. These include: a varied terrain, isolation, no artificial light contamination and no radio frequency interference. Do these conditions exist at Fort Bliss? If not, could they be created?
3. From a military value standpoint is the "laser-safe bowl" (which allows for non-eye safe laser testing in an instrumented valley) at Fort Hunter Liggett a critical component of operational testing?
4. Do you think the instrumentation suite (used to monitor and record every player's activity during a test) could be duplicated at Fort Bliss? If so, would it be as effective?
5. From a military value standpoint, is Fort Hunter Liggett essential to operational testing to DoD?

Thank you for your consideration of this request. I look forward to learning about the responses to the above referenced questions.

Sincerely,



SAM FARR  
Member of Congress



OFFICE OF THE SECRETARY OF DEFENSE

1000 DEFENSE PENTAGON  
WASHINGTON, DC 20301-1000



CLOSE HOLD - FOR OFFICIAL USE ONLY - BRAC SENSITIVE

10 February 1995

MEMORANDUM FOR ASSISTANT SECRETARY OF DEFENSE FOR ECONOMIC  
SECURITY (ECONOMIC REINVESTMENT AND BRAC)

SUBJECT: Functional Assessment of Proposed Military Department  
Base Realignment and Closure Actions

Proposed BRAC actions by the MILDEPs as available on 9 February 1995, have been reviewed, and except as identified in the attachments, determined to be acceptable from the perspective of the DoD test and evaluation mission. Of those in the attachments, two are considered to be major showstoppers (regarding Dugway Proving Grounds and Fort Hunter-Liggett), and another a minor showstopper (Tunnel 9 inclusion in the White Oak closure). The remainder are considered incomplete requiring additional alternatives to be analyzed before we can agree to them.

Philip E. Coyle  
Director, Operational  
Test and Evaluation

John A. Burt  
Director, Test  
Systems Engineering and  
Evaluation

Attachments: a/s

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# Document Separator

This page contains a chart that could not be scanned in for electronic view regarding the Department of the Army HQ, Air Defense Artillery Center and Fort Bliss, TX